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AGENCE DE LA
TRANSITION
ÉCOLOGIQUE



Club ADEME international

Technologies and services
of french eco-companies

Export catalogue 2023



RÉPUBLIQUE
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AGENCE DE LA
TRANSITION
ÉCOLOGIQUE

Club ADEME International

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About ADEME

Here at ADEME - The French Agency for Ecological Transition - we are firmly committed to fighting global warming and the depletion of our natural resources. On all fronts, we mobilise citizens, economic actors and territories towards a fairer, more harmonious, low carbon and resource-efficient society. Whatever the field - energy, circular economy, food, mobility, air quality, adaptation to climate change, soils, etc. - we advise, facilitate and help finance many projects, from research to solutions sharing. At every level, our expertise and forecasting capacities serve to guide and inform public policies.

ADEME is a public agency under the joint authority of the Ministry of Ecological Transition and Territory Cohesion and the Ministry of Higher Education and Research.

www.ademe.fr
 [@ademe](https://twitter.com/ademe)



Club ADEME International

SUPPORT THE FRENCH CLEANTECH ABROAD!

The International Club ADEME is a business network of 135 innovative French companies in the environmental and energy field. Members include SMEs working on projects funded by France's Strategic Investment Programme.

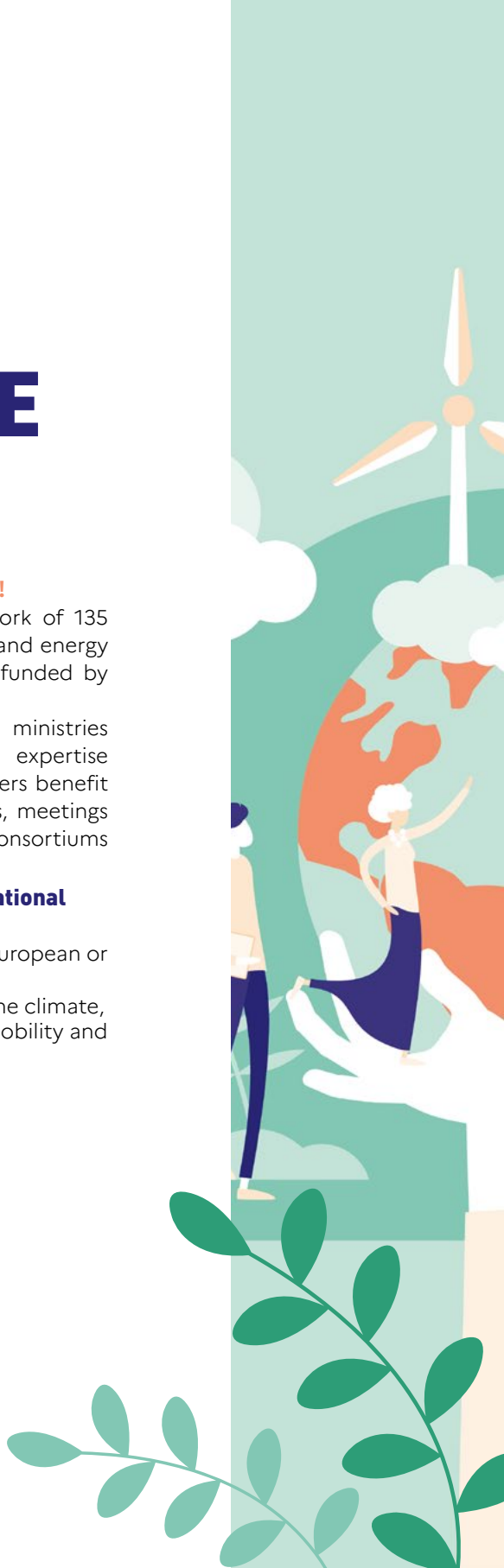
The network draws upon public agencies and ministries and private-sector groups to promote French expertise internationally. Through the club's initiatives members benefit from access to calls for tender, major trade events, meetings with foreign delegations, and opportunities to build consortiums aimed at international markets

An integrated offer for the success of your international projects:

- Multidisciplinary companies, from start-up to the European or world leader
- Transverse and additional skills in the domains of the climate, the environmental protection renewable energies, mobility and energy efficiency

MORE INFORMATION:

www.clubinternational.ademe.fr



A word from The delegate general

Pierre M. TERRIER
Delegate general
of the Club ADEME international



Dear members and members,

At the time of writing this editorial, I am, I admit, a little seized by the vertigo of the blank page.... Or more exactly "embarrassed" by the wish that I had here to share only good news... wish unfortunately thwarted by international and national news.

No sooner had we closed the COVID sequence than the war in Ukraine came to remind us that the world order, born after 1945, had become increasingly uncertain and that the plurality of political, economic, and ecological threats was now our common lot. From complicated, our world has become complex, and our compasses are increasingly out of whack.

Despite the implementation of government measures to cushion shocks, the resumption of activities of our companies has been and remains strongly impacted by inflation in the transport of goods, the real or speculated shortage of certain raw materials and the surge in costs. of Energy which delay and penalize our projects.

Nevertheless, one of the first consequences for our sectors of activity of this situation of global crisis remains quite paradoxical.

Despite a rather disappointing COP 27 which has not regained the breath of some of its previous editions, despite an ambient discourse which continues to want to oppose the end of the world and the end of the month, the activity of our members at export, according to the testimonies that I receive, seems to be restarting with great energy!

Indeed, the eco-innovative solutions which are essentially based on the economy of the Resource are now finding a more favorable echo among operators and target countries who are actively seeking to reduce, not by ideology but by necessity, their operating costs, to consume less fossil energy, to better recycle their waste and to save water. Each period, however baroque it may be, has its opportunities to seize!

Thus, in 2022 many projects were born, and beautiful contracts were thus able to be signed, despite a context of crisis. I am thinking of our member SUNNA DESIGN who, in a market hitherto "trusted" by low-cost and unreliable solutions, has succeeded in imposing its technology in terms of public lighting in Africa.

As for the life of our Club, 2022 saw Robin VILLIES, our new international project manager, put on the boots of our friend Olivier CHAZAL, a historic figure of our Club, with brio and efficiency, who left to take up a great challenge within a leading company. My wishes and my friendship are with him.

The year 2023 will be an opportunity to elect a new General Delegate for our Club. I hope that these elections will strongly mobilize our members and be an opportunity for discussions and fascinating debates.

I take this opportunity, to sign this editorial for the last time, to thank all those who have trusted me and who have given me the wonderful opportunity to discover their professions and their projects.

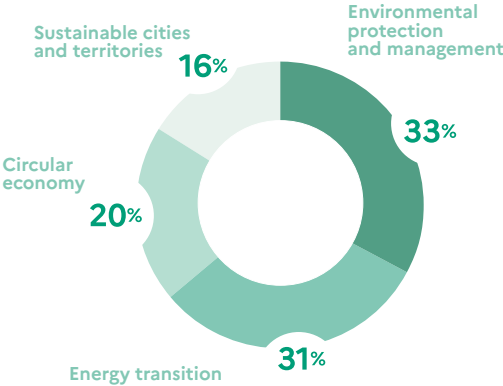
I associate with my deep gratitude René CORNAND and Mathieu CALLES for the advice they were kind enough to give me throughout these two years of my mandate.

I am leaving an ADEME Club in great shape with renewed and motivated members and I take legitimate pride in it.

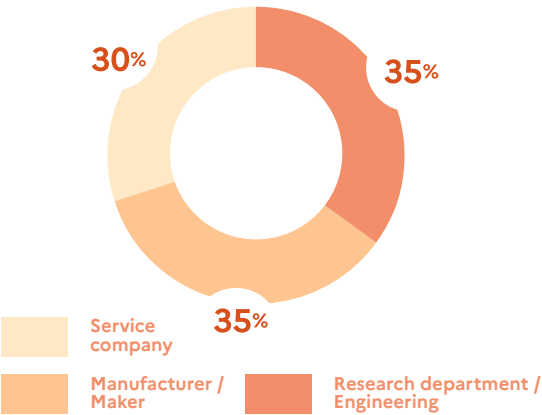
**Happy reading everyone,
Faithfully**

Key figures

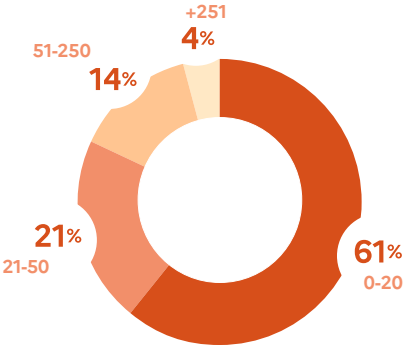
Distribution by trade:



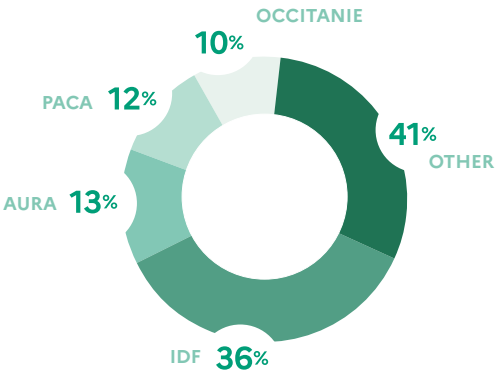
Distribution by activity:



Distribution of members by number of employees:



Geographical distribution of members:



Interview with Laurent Meyer

The context of this interview follows on from the FASEP sustainable city in Africa call for projects on the energy aspect, DG Trésor helps companies develop internationally with the FASEP (Fund for studies and private sector) subsidy to finance feasibility studies or innovative technologies demonstrators. The project in Cameroon with the Pasteur Institute (Institut Pasteur).

Hello Laurent Meyer and thank you for answering our questions. Can you tell us about your Entech company based in Brittany in Quimper?

Thank you, Entech Smart Energies was founded in early 2016 in Brittany. We are currently 56 people and we work on 3 businesses: energy storage, balancing of electrical networks with an export focus on the microgrid segment; the construction of medium to high power solar power plants; complex conversion chain prototypes to integrate new sources of RE and grid-tied energy storage.

What is the mindset of your teams to move forward on these answers?

As an industrial company Entech's DNA is innovation and agility. We have design ideas, we develop, we adjust. We are organized internally to take the right risk on the

right idea. We are proud of the multidisciplinary team we created; Industrial IT, power electronics, mechanical and thermal integration. These are advanced skills and sometimes our clients are surprised that we realize the unthinkable for them.

Explain to us the genesis of your achievement in Cameroon?

Regarding export, we have an in-house person who is responsible for prospecting in Africa. For Cameroon we mainly had exchanges with the country's telecoms. Then, one thing leading to another, a need arose from the Pasteur Institute, which is a large medical institution in this country with a large technical platform for care and analysis.

So ?

As with many sensitive consumers, energy represents less than 10% of the expenditure but 90% of

Laurent MEYER



the problems. There are many power interruptions on the local network. An interruption that often occurs during the rainy season causes a delicate disruption to the continuity of care. The storage of vaccines may be affected, for example. For the establishment, these failures are causing a big problem.

But how do they deal with it?

They have integrated two generators, one of which is in fact obsolete. But the reaction time to put this group into operation is long and the chain of care is sometimes interrupted. It is in this context that we began to discuss with the establishment and our local partner, an electrical installer. We have studied all the technical options to secure the energy supply and have thus, designed a hybrid storage system that combines two technologies; each having specific characteristics for different applications, the system can thus provide a wider range of services (back-up function in the event of a network outage and self-consumption function with regular cycling).

Did you have a possibility of producing energy on site?

Yes, the examination of the roofs of the establishment clearly indicated that we could install solar production and in sufficient quantity. Suddenly, we modeled the weather, the rainy episodes, the needs, to draw a very detailed analysis.

When did this happen?

In March 2018. Then almost simultaneously we learned about this call for projects from DG Trésor on sustainable cities in Africa. It was about energy issues. We presented our case and the Pasteur Institute supported us because FASEP could help us to close the budget for our operation.

>>>





And after ?

After being able to benefit from it, we put everything in working order. The Pasteur Institute became aware of the stakes, and we trained the internal staff so that the maintenance team who was in charge of the generators could operate a new energy system. We have discussed with all stakeholders including Eneo Cameroon who supplies the electricity. We have brought a structuring vision for the healthcare facility in terms of energy. For their part, they were able to rethink the roadmap of their services and increase the level of care.

At which step exactly are you currently?

As I speak to you, we are in the process of assembling our technical solution which will leave in a container very quickly for Yaoundé.

Do you produce in Quimper?

We review very technological phases in our workshops here. For example, we simulate different sources of renewable energy production, we develop very precise adjustments to ensure the robustness of our installation. At the same time, we are preparing the training plan which includes a local electricity partner and the technical teams from the Pasteur Institute. At this stage, Entech cannot yet delegate the production of the technical solution but the scheme can undoubtedly evolve in the future.

It is a fine example of self-consumption in a large African city. How can this experience have a showcase effect on the African continent?

Obviously one can expect a ripple effect from this



experience. First, the Pasteur Institute has several establishments of this type in Africa. Secondly, the fact that ADEME has supported us with this FASEP will bring even more reputation to this achievement on the African market. As soon as one country faces instability in its power generation grid, as soon as another such facility faces power outages in their operations, they can think of Entech.

What are your export plans as a member of Club ADEME International?

Our international development will undoubtedly confirm the narrow demand between production and storage of energy. We wish to emphasize our expertise in solar production for micro grids in partnership with local electricity companies. Our priority area is Africa because the demand is high. We are

closely studying the issue of an Entech subsidiary based in Ivory Coast.

How do you think the French offer of eco-innovation is relevant for export?

In our field there are two important landmarks. The first is our capacity and our reputation for knowing how to manage large energy networks (EDF, RTE, ENEDIS). The second, of course, is our ability to take on a role as an integrator and to develop engineering in projects. This is our hallmark and they are excellent skills as well. For Entech, the important thing is to highlight this quality in producing complex projects.

Au nom du Club ADEME International nous vous remercions
Laurent Meyer.

Interview menée par Olivier Chazal et Mathieu Calles pour le Club ADEME International.

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STAFF

1 people

TURNOVER

International turnover :
40 k€

Activities

Audits, consulting, expertise, training in energy efficiency and energy management systems.

Interventions in industrial companies and within the framework of collective operations on these themes, to which are added missions of putting in relation with local interlocutors and decision-makers for the implementation of eco-technological and energy eco-efficiency solutions to which are added missions of putting in relation with local interlocutors and decision-makers for the implementation of eco-technological and energy eco-efficiency solutions..., in the Francophonie and particularly with Quebec.

References

IN FRANCE

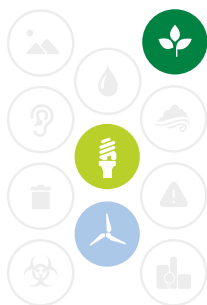
Cargill, Bridgestone, Air Liquide, Kimberly Clark, Umicore, Nyrstar, StoraEnso, Solvay, Snecma, Dassault Aviation, Saverglass, Smurfitt, Bosch Rexroth, Sanofi Aventis, Saint Gobain, Reckitt Benckiser, Nestlé, M-Real, Legris, Kronenbourg, Glaverbel, Faurecia, DSM Food, Danone, Christian Dior, Yves Rocher, Candia, OI-BSN, Bonduelle, BASF, Arkema, 3M, KNAUF group, ERAMET group, Laboratoires Pierre FABRE.

ON THE INTERNATIONAL SCENE

ANME Tunisia, ST Microelectronics Morocco, CTTEI Sorel-Tracy, Akzo-Nobel Belgium, ICEED Belgium, Armstrong Belgium, Atis Technologies Montreal, Transition Énergétique Quebec and Recyc'Québec, Givaudan Vernier (Switzerland) and SIG services industriels de Genève.

Certifications, labels or prize

Trainer on the standard: ISO 50001.



Eco-management -
Environmental development
- Energy efficiency
- Regulations - Audit -
Consultancy - Studies and
Engineering - Training or
awareness - Renewables
energies - Industrial ecology
- Regulations - Audit -
Consultancy - Studies and
Engineering

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STAFF

75 people

Activities

Here are the three solutions resulting from this union between ACCENTA and OZE ENERGIES:

- Enforceable inventory of a building (energy consumption, air quality, thermal comfort, etc.) and energy roadmap in accordance with the Tertiary Decree

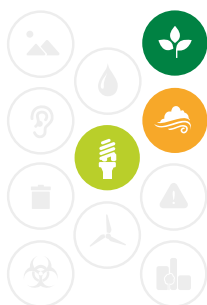
Remote management of a building or a building stock (continuous optimization thanks to machine learning) ensuring guaranteed energy and environmental performance. Carbon-free heating and cooling systems based on geothermal energy. The two companies are merging under the same name of Accenta and thus merging their product range. All Oze-Energies customers will find their OPTIMZEN® flagship product within a more global Accenta offer. About Accenta ACCENTA is an innovative high-tech company born on the campus of the POLYTECHNIQUE school in 2016. The company brings together a multidisciplinary team of specialists from the world of energy, engineering and artificial intelligence. ACCENTA has developed an innovative low-carbon heating and air conditioning technology, RESPILOT, during a three-year research program in collaboration with the laboratories of the Ecole POLYTECHNIQUE, the Center for Energy Efficiency of Systems of ARMINES MINES PARISTECH and BRGM – Bureau of Geological and Mining Research. It has received multiple innovation distinctions including ILAB 2018 or the PIA 2019 INNOVATION COMPETITION. ACCENTA acquired the company EFFIPILOT in 2020 to expand its offer with a continuous control platform for energy systems.

The company, which today employs 75 people, is financed by renowned investors and industrialists including SERENA DATA VENTURE and EREN GROUPE.

References

ACCENTA technologies are used by AIRBUS GROUP, VINCI, EUROVIA, ICADE, DALKIA, VILLE DE ROUBAIX, LEROY MERLIN, BOULANGER, DECATHLON, PROLOGIS, RABOT DUTILLEUIL, DEMATHIEU BARD, KPMG, INOLYA, INRIA, EDF

The OPTIMZEN® solution is used by Union Investment RE, AG2R La Mondiale, Generali, SNCF Immobilier, Malakoff Humanis, BNP Paribas REIM, Société Foncière Lyonnaise, La Française REM, Swisslife AM, CommerzReal AG, Caisse Centrale de Réassurance, Banque Palatine, APSYS , CDC Habitat and In'li Action-Logement.



Air quality and odours
control - Energy efficiency -
Environmental development



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Manufacturer - Maker, Research department - Engineering, Service company

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Biochemical processes
Chemical-physical processes
Coastal and marine environment
Collection, transport and treatment of cleansing sludges - Combating greenhouse gases technology - Eco-design
Eco-design and clean technologies - Eco-materials, Eco-design and Eco-products, Alternative raw materials - Environmental approach of urbanism
Groundwater - Industrial ecology - Management of fluids and networks
Mechanical-physical processes - Membrane plant
Rainwater management unit - Regulations - Audit
Consultancy - Studies and Engineering - Seepage water in landfill / leachates...

Activities

ACQUA®.ecologie / BioMicrobics® France expert in the treatment and reuse of water for land and marine environments.

We design innovative, high-performance solutions that eliminate almost all pollutants and recycle water on site. Simple, economical and sustainable, our solutions adapt to all environments, whatever the market (individuals, communities, industry, ports, ships, viticulture, health, army, etc.), even in the most extreme environments, while minimizing life cycle costs.

Our solutions contribute to the preservation of natural resources, the environment and ecosystems as well as the SmartCity, SmartPort and GreenShip of tomorrow.

Building the future of SmartCity, SmartPort and GreenShip

We have developed a unique design knowledge based on an assembly of different innovative technological bricks that we design. This knowledge aims in particular to simplify processes, in order to have the most autonomous solutions possible and to overcome the skills of users. This results in more economical, more durable and high-performance solutions, all of which are always adapted to the real needs of customers.

Thanks to this, we can offer, in a very large majority of cases, the recycling and reuse of water, whatever the environment of use, on land or at sea!

Certifications, labels or prize

ACQUA.ecologie leader of innovation in water in 2020:

Our innovations and the capacity to design treatment chains have earned ACQUA.ecologie / BioMicrobics France multiple awards in 2020:

- Most Innovative in Water Treatment Solutions – M&A Today 2022
- SEAnnovation 2022
- Lauréat Réseau Entreprendre Occitanie 2022
- Innovation & Excellence Awards 2022
- Best Wastewater Treatment & Reuse Solution 2022
- Best Wastewater Reuse Project (SmartPort Sète) 2021
- Plan Littoral 2021
- Prix grande cause eau World Impact Summit 2021
- Prix FAIRE de la TPE de l'Hérault et d'Occitanie 2021
- Most Innovative in Water Treatment Solutions – Corporate LiveWire 2021
- Finaliste Port du Futur – France 2021
- World Ports sustainability Awards – IAPH 2021
- Lauréat Trophées Innovation Océan 2021
- Lauréat du projet Mer et Littoral d'Occitanie 2021
- Pollutec Innovation Award 2020 2020

ACQUA®.ECOLOGIE
Expert du Traitement et de la Réutilisation de l'eau

BioBarrier
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Et bien plus !



ACWA ROBOTICS

Manufacturer - Maker , Service company

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STAFF

10 people

Activities

Acwa is a start-up that develops robotic cartography and inspection solutions for drinking water pipes.

Acwa's robots will help preserve a significant portion of the water resource lost due to numerous breakages and leaks and also save the energy used for the collection and treatment of this lost drinking water.

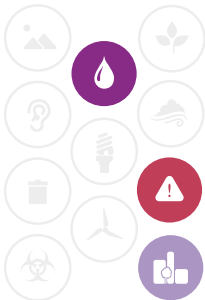
Certifications, labels or price

Acwa is the winner of the Ilab 2019 and innov 2020 competition and was a finalist of the EDF pulse 2020 competition.

We develop our solutions in partnership with several water services including the Canal de Provence company, one of the main French water networks.

References

We are a deeptech start-up whose robotic solutions are still in the prototype stage. Our offer of autonomous robots that can operate in water and under pressure over several km of network is totally unique and disruptive, in relation to the current state of the art in the mapping and inspection of DWS networks.



Management of fluids and networks - Risk - Regulations
- Audit - Consultancy - Studies and Engineering - Sustainable urban planning - Water infrastructure - Water saver



ADEQUATEC

Manufacturer - Maker, Research department - Engineering

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5 people

Activities

ADEQUATEC is an innovative French SMI in the water treatment market that offers a new technology for thickening and dewatering sludge with very low energy consumption and low carbon footprint, which allows :

easy, automatic and reliable operation, low operating costs.

As such, ADEQUATEC received in 2010 the prize for innovation in eco-technologies awarded by the Ministry of Ecology and ADEME (French Environment and Energy Management Agency).

The ADEQUAPRESS technology offers exceptional advantages compared to technologies already on the market (centrifuge, belt filter...), in particular very low electricity consumption (20 to 50 times less) and very low operating and maintenance costs (3 to 6 times less).

The originality of the ADEQUAPRESS lies in the ingenious design of its self-cleaning and uncloggable drum. Indeed, unlike drums with perforated screens that clog easily, the ADEQUAPRESS drum is composed of a succession of fixed and mobile rings that slide relative to each other ensuring continuous self-cleaning (without washing water consumption) and an excellent capture rate.

With less than 10 kWh of installed power per ton of dehydrated dry matter, the ADEQUAPRESS enables its customers not only to save money and reduce their carbon impact, but also to use renewable energies (PV, wind power...) for its power supply.

References

IN FRANCE

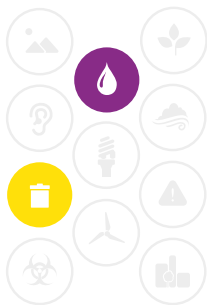
70 operational references since 2005 with Veolia, Suez, Saur, industrial companies (Ashland, Serpol, Sojasun, Brueggen, Adonis, Papeterie...), local authorities (Castres (81), Chambon sur Lignon (43), Belley (01), Bourges (18), Greater Dijon (21))

AT THE INTERNATIONAL LEVEL

City of Saint Petersburg in Russia with VEOLIA WATER, Medite Europe in Ireland, Delice Danone in Tunisia.

Certifications, labels or prize

Corporate Grand Prize and Environment 2010 in the eco-technology innovation category



Management of fluids and networks - Risk - Regulations - Audit - Consultancy - Studies and Engineering - Sustainable urban planning - Water infrastructure - Water saver



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cathy@agape-rse.com

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1 people

Activities

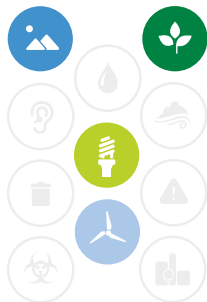
The AGAPÉ firm supports companies that have decided to commit to an approach that respects Health and the Environment for their Responsible Purchasing (ISO 20400 standard) and their Responsible Events (ISO 20121 standard). It brings its expertise and the sum of its experiences to industrial or service companies, private or public institutions, communities, associations that implement a CSR (Corporate Social Responsibility) policy, integrating a strategy to fight against global warming, inequality and waste. AGAPÉ's raison d'être and action: sustainably perpetuate the activities of its clients by promoting their exemplarity.

Références

Ministry for Europe and Foreign Affairs: COP21, G7-2019, ATCM, FGE, creation of a sustainable development AMO role

Certifications, labels ou prix

Secretary General NGO Humanity France, co-president MFRB (French Movement for Basic Income)



Biodiversity and
landscape - Environmental
development - Corporate
social responsibility -
Environmental Regulations
- Life cycle analysis, auditing
and diagnostics - Regulations
- Audit - Consultancy -
Studies and Engineering
- Significant sustainable
development indicators -
Training or awareness



AIRARO

Research department - Engineering , Manufacturer - Maker

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STAFF

3 people

Activities

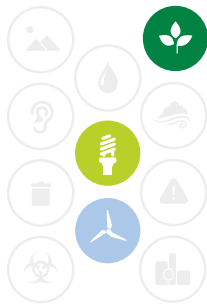
AIRARO participated in the 3 SWACs carried out in French Polynesia, in BoraBora, Tetiaroa, and for the Taaone hospital in Tahiti, a project co-financed by ADEME under the heat fund.

Certifications, labels or prize

Top 3 SWAC in the world, winner of the overseas innovation competition in 2021, for the Green Business Industry award.

References

The first 3 SWACs in the world, in BoraBora for the Intercontinental Thalasso Resort & Spa, in Tetiaroa for the Teh Brando hotel, and for the public hospital of French Polynesia, this last project with a power of 6 MWf, a budget of €30 million, was delivered in 2022, and with the more than 10 GWh of electricity consumption avoided for the production of cold necessary for air conditioning. This project alone allows the transition of 2% of the total electricity of the island of Tahiti.



Energy efficiency - Eco-management - Energy efficiency - Marine - Regulations - Audit - Consultancy - Studies and Engineering - Training or awareness - Renewables energies - Regulations - Audit - Consultancy - Studies and Engineering - Implementing territorial sustainable development policies - Life cycle analysis, auditing and diagnostics - Training or awareness



AIRMOTEC CHROMATOTEC GROUP

Manufacturer - Maker, Research department - Engineering

ADDRESS

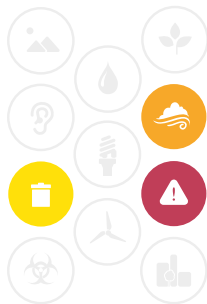
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STAFF

50 People



Air quality and odours control - Analysis
Measurement - Monitoring
ATEX - Design offices for modelling of atmospheric dispersion - Gas and fumes
Gas Pollutants - Indoor air quality - Industrial risks
Odorous compounds - Particles - Prevention of industrial risks - Regulations
Audit - Consultancy - Studies and Engineering - Sewage treatment plant - VOC - Wastewater

Activities

Family-owned French independant company, CHROMATOTEC develops, manufactures and sales scientific instrumentation since 1986.

Exclusively designed and made in France, our instruments are aimed at industry and environment markets.

They are used for the continuous monitoring of impurities at very low concentration levels in gases as certain atmospheric pollutants. They allow the analysis of ambient air quality and industrial air control.

Since 40 years on gas analysis market, Chromatotec is recognized all around the world for its leading-edge technology. The group realizes more than 90% of its activity at export and for this, it has received the Neo-Aquitain Export Award in 2018.

Chromatotec is certified ISO 9001 since 2014 and its products are recognized worldwide through different certifications.

Member of French Fab, Chromatotec is highly set up locally and is driven by the desire to minimize its impact on environment, by maintaining its production locally and by relying as much as possible on local providers.

References

Our historical customers are French laboratories and universities like CEA, CNRS or industrials like EDF, Total and chemistry industrials, that trusted us since the beginning and with who we realized technology transfer.

We are now working with governmental agencies, universities, private research centers of big groups, industrials in the field of natural gas, pures gases and waste water treatment plants.

Among our main references, we can quote : PGE, SEMBRA, Washington Gas, KGC, French and International governmental agencies.

Chromatotec solutions have also been selected by US EPA (Environment Protection Agency), independant agency attached to US government, among the 3 best autoGC solutions in an evaluation study gathering 88 world companies and are installed in several American States.

The group is relying on specialized and experienced distributors network all around the world. Those are regularly trained to air, gas and odor analysis techniques by our engineers.

Certifications, labels or prize

Certified ISO 9001 since 2014, Chromatotec is implementing a quality policy presenting management engagements and objectives in terms of quality, sustainable development and corporate social responsibility.

The group is also in process for certification ISO 17025 for benzene calibration. Chromatotec is the only manufacturer EN-14662-3 (for BTEX instruments). It is also compliant to EN 15267-2 standard for management and control of its production.

Chromatotec is also certified in several countries :

- Europe : mCerts, TÜV, CNR, GOST, ATEX
- US/ Canada : CSA (US and International)
- Asia : chinese certifications PA since 2010
- World : ASTM international standard



AIRSEAS

Research department - Engineering

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STAFF

85 people

Activities

Design and development of products and services in the maritime field including kite sails for wind propulsion to contribute to the production of renewable energies

Certifications, labels or prize

2020-CCI NANTES ST NAZAIRE: Startups & Innovation Day

2019-OCEAN & SEA: Ocean Innovation Troph

References

France: Airbus // Japan: KLINE. Seawing, designed and developed by AIRSEAS, provides the largest kite surface system in the world (1,000 m² of traction) which provides the shipping sector with a much-needed solution for decarbonization.



Combating greenhouse gases technology - Energy efficiency - Energy efficiency
- Regulations - Audit - Consultancy - Studies and Engineering



ALTEREO

Research department - Engineering

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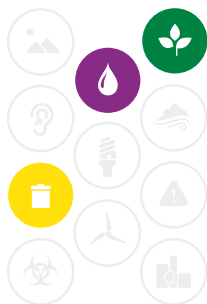
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STAFF

180 people

TURNOVER

International turnover :
1,5 M€



Combating greenhouse gases - Corporate social responsibility
Environmental approach of urbanism - Management of fluids and networks
Regulations - Audit
Consultancy - Studies and Engineering - Regulations
Sewage treatment plant
Significant sustainable development indicators
Small-scale hydroelectric energy - Training or awareness - Training or awareness - Wastewater
Water re-use and saving

Activities

Altereo is a group independent of any private operator, construction company or other investors. Altereo has more than 170 employees at 11 sites in mainland France, and has several foreign subsidiaries.

Altereo brings more than 30 years of experience in the technical fields of the water sector, such as asset management of drinking water and wastewater networks, and more than 15 years of experience in the deployment of its own Geographic Information Systems (GIS), etc. Its missions and projects cover more than 30 overseas countries and territories, bringing together cross-cutting skills in a multicultural environment. Having provided services to more than 5,000 clients in France and abroad, Altereo has acquired experience working in a multitude of contexts, from the most developed countries to the emerging world, in situations with advanced technical solutions such as the most rustic ones, or with operational water and sanitation services such as those that are still very poorly managed due to a lack of technical, financial and operational resources, or in conflict situations.

This mix of experience enables us today to offer solutions based on a meticulous understanding of our clients' needs and the context in which they operate. This is possible thanks to the combination of international and, above all, local experts, which is for us one of the keys to the success of international projects by responding perfectly to the needs of the field. This is why we have a high level of in-house expertise, but also a large network of experienced international consultants.

References

IN FRANCE

Since 1989, more than 5,000 clients of all sizes, mainly public authorities, have trusted Altereo for diagnostic studies and master plans for water and sanitation, local urban planning, governance consulting assignments and geographic information systems projects.

INTERNATIONALLY

PPWSA, Phnom Penh, Cambodia – LYDEC, Casablanca, Morocco – ONAS, Tunisia – Algérienne des Eaux, Algeria – SODECI/CIE, Ivory Coast – Yamoussoukro Province, Ivory Coast – CAMWATER, Cameroon – Province of Zou, Benin – Santo Antão, Cape Verde – KHAWASSCO, Nha Trang, Vietnam – RADEEF, Fez, Morocco – EWA, Bahrain – Régie des Eaux de Saint Marc, Haiti – Société Tchadienne des Eaux – Chad ...

Certifications, labels or prize

Pattern for the technology HpO
Greentech Innovation
BPI France Excellence
French Tech
UN Global Compact
Vivapolis



ALTHODE

Manufacturer - Maker

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STAFF

11 personnes

TURNOVER

International turnover ::
20000€

Activities

The ALTHODE company provides, through its new activity SEMENTIS inaugurated in December 2022 (see www.sementis.fr) its industrial tool for the manufacture of ecological toothbrushes.

We are now equipped with a tool capable of reducing the importation of plastic toothbrushes from Asia into France with the help of an industrial machine with a high production capacity located near Angers (49). We can design and manufacture wooden toothbrushes coming from French eco-managed forests, half toothbrushes for electric toothbrushes, small brush heads for rechargeable toothbrushes. We work with injector partners capable of working with recycled, recyclable and/or bio-sourced plastics.

SEMENTIS, in Latin, means "Sowing seeds" and this is what we want to do, in our own way and on our market: bathroom objects and accessories. Sowing seeds to be more economical with resources, to work locally and to generate as little waste as possible.

References

We were the first to put on the market a toothbrush with a wooden handle that holds an interchangeable plastic head.

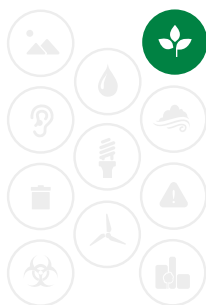
France now has 2 toothbrush manufacturers. Today, we distribute our brand J'aime mes dents ! brand of toothbrushes, accessories and everyday objects through a network of nearly 1000 retailers in France, Belgium and neighbouring countries.

On the whole range, we work in white label for very beautiful references DNVB and other brands of solid cosmetics.

Certifications, labels or prize

Our industrial project benefits from an ADEME subsidy within the framework of the "Appel à Projets Entreprise En Transition Énergétique" with our concept of toothbrushes with rechargeable heads.

We also have the support of France Relance, our region Pays de la Loire, the BPI, Initiative Anjou and our two banking partners.



Cleaning - Carbon
Offsetting scheme - Eco-
design - Eco-design and
clean technologies - Eco-
materials, Eco-design and
Eco-products, Alternative
raw materials - Recycling
and exploiting materials -
Training or awareness



ALYCE

Service company

ADDRESS

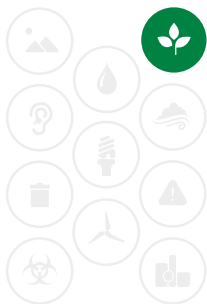
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STAFF

60 people



Analysis - Measurement -
Monitoring - Carbon Balance
- Combating greenhouse
gases technology - Carbon
Offsetting scheme
- Eco-management -
Environmental approach
of urbanism - Combating
greenhouse gases
- Regulations - Audit -
Consultancy - Studies
and Engineering - Mobility
and urban transport
- Regulations - Audit -
Consultancy - Studies and
Engineering - Environmental
and social Investments -
Environmental Regulations
- Implementing territorial
sustainable development
policies - Regulations - Audit
- Consultancy - Studies and
Engineering - Significant
sustainable development
indicators

Activities

ALYCE supports local authorities and transport operators in decarbonizing mobility by providing them with a precise vision of mobility flows in their territory. The company offers counting services and mobility surveys as well as a range of innovative solutions aimed at facilitating the understanding of user movements in real time, 24/7 or in a deferred manner to conduct studies.

The data provided by ALYCE makes it possible to support the decisions of the transport policies and the mobility infrastructures of tomorrow. Reinforced by high technologies such as artificial intelligence, big data and IoT, ALYCE makes it possible to objectify mobility to facilitate the implementation and evaluation of developments.

SOLUTIONS

- AI & Video-based traffic analysis software applied to mobility field, in real time & offline
- Connected cameras
- Traffic & passengers surveys
- Big Datas
- mobility observatories
- GIS Datavisualisation platform
- User movement tracking application

References

ALYCE, works on the whole of the French territory and the international one represents 15% of our turnover: in particular in the DROM-COM, Middle East, West Africa (Ivory Coast, Ghana, Cameroon, Senegal as well as 'in North Africa (Tunisia, Algeria, Morocco). More sporadically we intervene in Eastern Europe.



AMA

Manufacturer - Maker , Service company

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STAFF

19 people



Biochemical processes

- Chemical-physical processes - Environmental development - Management of fluids and networks - Natural risks - Mechanical-physical processes - Membrane plant - Rainwater management unit - Prevention of industrial risks - Training or awareness - Implementing territorial sustainable development policies - Water infrastructure - Industrial ecology - Wastewater - Regulations - Audit - Consultancy - Studies and Engineering

Activités

As an emergency specialist in the field of oil pollution, AMA has developed means allowing both extreme emergency intervention and treatment of pollution at the scene of the accident, while respecting the environment and at reasonable cost. These devices, which can be mobilized at any time and are efficient within one hour of their positioning, reduce the waste to be removed to a volume close to that of the pollutant discharged, while reintroducing quality treated water (such as an ICPE) into the environment.). This avoids the back and forth of a noria of trucks, the pumping technique of which is not suitable. Equipped with a multipoint treatment capacity of 10 to 20 t / H, our mobile units are particularly suited to major accidents (industrial accidents such as Lubrizol, overpollution during floods, marine submersions, etc.).

Certifications, labels ou prix

Consortium with two innovative partners, in order to respond to pollution control issues: Prodrôme and Bathyrôme

Références

By way of illustration: Intervention on a tributary of the Loire in the Nièvre following an industrial accident. The company responsible first requested a hydrofilling company to pump at the entrance of the damaged pipeline. However, for reasons of accessibility and lack of suitable means, the 16,000 m² of polluted river could not be decontaminated. The company then contacted around fifteen companies before approaching us. None were able to intervene urgently. Thanks to our resources, we were able to: 1 / intervene in an emergency 2 / set up an on-site treatment system to minimize evacuation to a treatment center 3 / focus the treatment on the surface of the water where the water was floating pollution and thus treat extremely polluted water, while rejecting quality 4 water / minimize the volume of waste to be removed to a volume close to the pollutant discharged (excluding macro-waste). The Prefect was thus able to accept the closure of our intervention after 2 weeks of treatment 24/24 and to order the lifting of the anti-pollution barriers set up for civilian emergency services. As an example also, we intervened following the malfunction of a heating system of an establishment welcoming young people in Maine-et-Loire. Our intervention enabled: 1 / the characterization of the pollution, by means of a survey campaign, within 8 days of the suspicion of the loss of 15,000 L of fuel oil on the water table, 2 / the construction of hydraulic traps specifically adapted to surface water tables, allowing the drawdown of a much larger proportion of pollutant than what is usually practiced (piezometers), 3 / this drawdown very quickly has made it possible to avoid pollution of neighboring wells 4 / the setting up of an on-site treatment facility, making it possible to substantially optimize our treatment times and 5 / the recovery of almost pure pollutant, 6 / while discharging quality water into the environment.



APB ENVIRONNEMENT

Manufacturer - Maker, Service company

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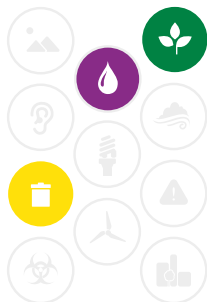
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STAFF

10 people

TURNOVER

International turnover :
10 %



Biological treatment /
Composting fermentation
Cleaning - Recycling
and exploiting materials
- Regulations - Audit
Consultancy - Studies and
Engineering - Regulations
Sewage treatment plant
Sewage, industrial,
cleansing and dredging
sludge - Sites remediation
decontamination works
Waste from care activities
that pose a risk of infection
Wastewater

Activities

Even before the notions of Sustainable Development and Environmental Protection were at the heart of the debates, APB Environment had already integrated these concepts into the heart of its strategic thinking. Founded in 1993, APB Environment is a company specialising in the biological treatment of organic waste. Exporting its know-how beyond its borders since 2006, the company continues its development with the creation of a structure in Africa (APB Environment Morocco) and Asia (APB Environment Vietnam). APB accompanies its customers in the globality of their environmental approach. Its businesses are carried out by combining products, equipment and services.

APB Environment sells products internationally through exclusive distributors. The company has developed an innovative and global offer for various applications such as: aquaculture, water bodies, hydrocarbons, hospital waste, fermentable waste.

References

IN FRANCE

Accor Group, Mc Donald's, Icade, Foncia, Dalkia, Dassault, Renault, French National Assembly, Vinci, Paris City Hall, Multidex/ Idex, Leclerc, Cora, Engie...

INTERNATIONALLY

Accor group, Shell, Vietnamese Ministry of Health, Red Cross ...

Certifications, labels or prize

CERTIFICATION

- ISO 9001 2008 version certified since 2014
- ISO 9001 2015 version certified since 2019

AWARDS

- Winner of a 91 d'Or awarded by the MEDEF Essonne in 2012.
- Winner of a PM'Up funding in 2012 awarded by the Île-de-France region.
- 1st prize for "International Sales Performance" at the Île-de-France regional competition awarded by the DCF (Dirigeants Commercial de France) in 2013.



APIX ANALYTICS

Manufacturer - Maker, Service company

ADDRESS

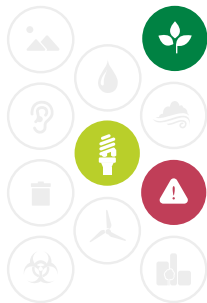
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STAFF

18 people



Biogas - Clean Development
Mechanisms - Combating
greenhouse gases
Corporate social
responsibility - Eco-design
and clean technologies
Eco-management - Energy
efficiency - Industrial
ecology - Industrial risks
Prevention of industrial
risks - Regulations - Audit
Consultancy - Studies and
Engineering

Activities

Energy and environment are major challenges for the next 30 years. The quality control of new energy sources (biomass, hydrogen), the emission control of gases and pollutants and their impact on the environment and health are at the heart of APIX ANALYTICS developments.

APIX ANALYTICS has designed and engineered a range of miniaturized instruments, able to analyze the composition of complex mixtures of gas and liquids, from the lighter gas hydrogen, to heavy crude oils, including volatile organic compounds (BTEX), at level from % to ppb. The analysis is carried out on-site, on real-time, even in dangerous areas (explosive atmosphere), where we used to take samples and send them to the analytical lab, increasing the response time. Using APIX ANALYTICS solutions, our clients can on-time, reduce and control their emissions, optimize their manufacturing process, be alerted in case of malfunctions or when exceeding critical threshold, while making substantial savings (CAPEX and OPEX).

References

Since 2019, APIX ANALYTICS significantly exports its analyzers. Its major customers are located outside France, in Europe for 60% of its turnover, in Asia (mainly in China) for another 20%. APIX ANALYTICS is currently opening a sister company in China, and relies on a distributor network for its EMEA, Asian and Canadian business. APIX is actively engaged in the recruitment of a US distributor.

Certifications, labels or prize

APIX ANALYTICS has developed an innovative, patented, universal detector based on a "Nano Electro Mechanical System (NEMS) called NGD "Nano Gravimetric Detector". It is a multipurpose silicon component bearing all the advantages for detection: small, low-powered, ultra-sensitive, reliable, economical, with a long-life span, using no consumable (aka hydrogen for FID detector) and having a low impact on environment.

Benchmarked with existing solutions (i.e., FID detector), the NGD detector does not need a Hydrogen Ionization Flame eliminating all its related inconveniences to analyze the sample. This task becomes safer with lower logistic costs.

The manufacturing of a laboratory chromatograph requires 80 to 100 kg of base materials where our solution requires only 20 to 10 kg and is therefore compact, easily transported and implanted in an industrial environment.

This is the only apparatus, able to analyze gases and liquids, from hydrogen, to heavy oils (C40) using the same equipment.

Innovation is the corner stone of APIX ANALYTICS start-up. APIX ANALYTICS is ranked 70th most innovative French Company. APIX ANALYTICS owns more than 25 patents and spend for its R&D close to 50% of its operating cost outside goods purchase, which also accounts for 50% of its 2020 turnover.



AQUASSAY

Research department - Engineering, Service company

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STAFF

17 people

Activities

In two years, Aquassay has become a supplier of industrial and environmental performance solutions for the connected plant (under the brand name eDATAMOTIC) with a specialization on water management, but our technology can of course manage any type of data and in particular that of other utilities of an industrial or commercial site (energy, steam, gas, ...).
eDATAMOTIC is 100% "plug and play":

- 1 – a very large capacity to connect to the real world, to collect, format and centralize data (whatever their nature and sources: sensors, PLCs, recorders, displays, point analysis, databases, declarations, etc.).
- 2 – a SaaS application on a private, scalable and secure cloud for the management of data and IT architecture (= no constraints on installation, maintenance and evolution of the IT architecture)
- 3 – a suite of web applications that can be configured according to your needs, allowing advanced data exploitation, in real time. Beyond the basic functions (visualization, reporting, qualified alerts, data qualification, ...), the most advanced functions are those of real-time calculations (predictive and prescriptive models, expert systems, normalization), as well as the capacity for comparative and integrated study on all types of perimeters (long histories, reference period, geographical, type of installation or operation, etc.).

Our subscription-based solution thus makes it possible to transform a conventional site into a connected factory, with real-time functional monitoring and performance analysis of its installations.

References

INDUSTRIAL GROUPS: NESTLE WATERS, SODIAAL

INDUSTRIAL MANUFACTURERS INTEGRATORS: BWT

Certifications, labels or prize

Ranked among the 10 eco-innovative companies to watch in 2017 (Panorama Cleantech 2017, GreenUnivers), Aquassay is the 2016 winner of the Cleantech Open France competition (Water and Waste category), a member of the BPI excellence club and the HYDREOS and ALPHA competitiveness clusters.



Energy efficiency - Industrial ecology - Management of fluids and networks
Regulations - Audit
Consultancy - Studies and Engineering - Regulations
Wastewater - Water re-use and saving



AQUATECH INNOVATION

Équipementier - Fabricant

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STAFF

6 people

Activities

AquaTech Innovation is a GreenTech start-up, based in Montpellier and labeled Greentech Innovation by the Ministry of Ecological Transition. We have designed patented modular products to save water and protect the environment from pollution from domestic wastewater. We deploy them and ensure their commissioning. These products respond to the problems of professional activities that generate a lot of human activity such as campsites, marinas, communities with isolated sites, etc.: The AquaCollect allows wastewater to be collected wherever it is, whatever whatever the technical and geological constraints. Including in a constrained environment, where gravity networks cannot be applied. In single or multiple collection points, the networks can be dismantled, to meet a regulatory need. The AquaClear is a 100% biological mini wastewater treatment plant, deployable wherever traditional solutions do not apply, including floating. This wastewater is treated as close as possible to its emission points, with no visual, noise or residual impact on the local environment. The AquaPool regenerates the rinsing water from the filters of swimming pools open to the public. This water, once treated, is re-injected into the pool itself, saving at least 80% of the volume of water. The process also improves water quality by significantly reducing chloramine problems. AquaGreen and AquaFlush recycle domestic gray water for a new use. After a finishing treatment, this water can be reused for watering green spaces, for flushing toilets, etc. AquaData is an additional digital innovation to AquaTech solutions. It allows water-intensive activities to control their consumption. The data collected by the sensors allows their analysis to alert in the event of a leak and also to recommend the right solutions to deploy to reduce

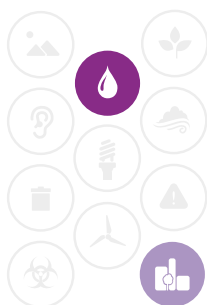
consumption. For information, each process can be independent: it is possible to adopt only the collection solution in the case of a connection to the city network, as it is possible to install only the treatment, regeneration or recycling solutions. . For professionals whose activities consume a lot of water, this allows them to engage in a sustainable approach by protecting water resources and also to comply with regulations and thus maintain their activity.

References

We have already equipped ports such as Cap d'Agde (34), Port Ilon (78), Marina Baie des Anges in Antibes. We also have tourist accommodation providers such as Vacanceselect, Yellow Village, etc. as clients.

Certifications, labels or prize

The company has been awarded various prizes: The Greentech Innovation label by the Ministry of Ecological Transition. The Mediterranean Sea cluster label The double Prize of the jury and the public of the Pau e-Tourism Startup Contest, The My Med competition for the protection of the Euro-Mediterranean coastline by responding to challenge n°1 "How to limit the impacts of wastewater generated by the activities". The Remarkable Company label by Initiative France The "Faire" prizes of the Departmental and Regional TPE.



Eaux usées - Economiseur d'eau - Eau - Gestion des fluides et des réseaux - Procédés biochimiques - Urbanisme durable - Réutilisation et économies d'Eau - Stations d'épuration et de traitement / Assainissement collectif et non collectif



AR ARCHITECTES

Service company

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STAFF

5 people

Activities

AR ARCHITECTES, an architectural agency based in Paris since 2003, specialises in architectural creation associated with the engineering of new technologies to reduce energy consumption and restore natural resources in planning and construction.

The agency has many references relying heavily on the HQE® approach in France and internationally in :

- Eco-construction: collective, industrial, STEP, ERP, school buildings...
- Eco-renovation: reconversion of factories, office buildings, making ERP accessible...
- Eco-urbanism and Eco-landscape: parks, eco-neighbourhoods, plant engineering banks, phyto-purification for waste/gray water, air and urban sludge.

Under the direction of Ruba ALABED, DESA architect specialized in HQE® approach, AR ARCHITECTES provides assistance to the contracting authority or complete project management (studies and monitoring of works) in public and/or private contracts.

The agency brings together a multidisciplinary team with skills in: architecture, urban planning, landscape, environment.

References

French Embassy in Doha

Beynes wastewater treatment plant

Aubevoysse wastewater treatment plant

Water treatment plant Asnières sur Oise

Saint Michel wastewater treatment plant Chef

House of the Environment in Sainte Rose in Guadeloupe

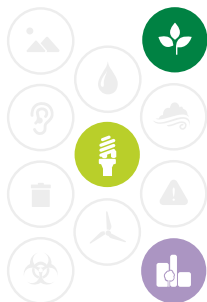
Claye Souilly wastewater treatment plant

AR ARCHITECTES has many references in :

Eco-construction: industrial buildings, ERP public equipment, tertiary sector, water treatment plant,

Eco-urban planning and landscaping: eco-neighbourhoods, ZAC, housing estates, parks, etc.

Eco-renovation: ERP public facilities, schools, tertiary sector...



Eco-materials,
Eco-design and
Eco-products, Alternative
raw materials Environmental
approach of urbanism
Implementing territorial
sustainable development
policies Life cycle analysis,
auditing and diagnostics
Regulations Audit
Consultancy - Studies and
Engineering



ARIA TECHNOLOGIES Groupe SUEZ

Research department - Engineering, Service company

ADDRESS

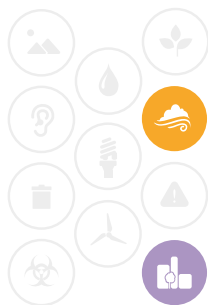
8 - 10 Rue de la Ferme,
92100 Boulogne Billancourt,
France
www.aria.fr

CONTACT

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jmoussafir@aria.fr

STAFF

25 people



Design offices for modelling
of atmospheric dispersion
Environmental approach of
urbanism - Indoor air quality
IT and software
Regulations - Audit
Consultancy - Studies and
Engineering
Training or awareness

Activities

Studies and consulting, training: meteorological analyses, emission inventories, calculation of atmospheric dispersion of industrial or urban discharges, assessment of associated health risks, forecasting the air quality of an industrial site, city or region, forest fires, vulnerability and adaptation to climate change.

Simulation software :

- ARIA Impact: Impact on industrial and traffic air quality.
- ARIA Impact 3D: Impact on air quality of industry and traffic in complex environments.
- ARIA City: Impact on industrial and traffic air quality, under Arcgis interface.
- ARIA Risk: 3D evaluation of the dispersion of accidental releases.
- ARIA Local: Expertise of air flow and air pollution on a local or indoor scale.
- ARIA Indoor: Study of aerualics and air quality in the whole building.
- ARIA Regional: Analysis and forecasting of air pollution on a regional scale.
- ARIA Wind: Mapping, calculation and optimization of complex wind sites.
- ARIA View : Real-time monitoring and forecasting of the impact of discharges from a factory or industrial zone.

ARIA Technologies exports its know-how and software: European Union, United States, China, Japan, Latin America, Persian Gulf, North Africa,...

References

IN FRANCE

Clients :

EDF, CEA, TOTAL, RENAULT, LAFARGE, INERIS, CNES, SUEZ, VEOLIA, DGA, BUREAU VERITAS, ADEME, AIRPARIF, AIR RHONE-ALPES, AIR PACA, THALES, INGEROP

Special projects :

Aircity project, Vallée de Seine zone study, Roussillon zone study, ZAC development projects (air and health studies), SIMPAC project

ON THE INTERNATIONAL SCENE

Clients :

LEIDOS, JAPAN NUS, ENEA, CITY OF RIO, CNEMC, KIT-JAPAN, TOTAL QATAR, ANPE Tunisia, World Bank

Special projects :

Cadastre of the Grand Casa (Morocco), Beijing 2008 (China), Romair (Romania), Ar do Rio (Brazil), Decision Support Tool for Bamako (Mali), CONAIRE (Chile)

Certifications, labels or prize

Grand prix Generali des Respirations 2014 for the AIRCITY project

Advancity's labeling of the AIRCITY project

Triple labeling of the FAIRCITY project (ADVANCITY, AXELERA and SYSTEMATIC)

ADDRESS

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 83088 Toulon 09,
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 www.atisys.fr

CONTACT

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 Phone: +33 (0)6 10 78 75 18
 p.esparcieux@atisys.fr

STAFF

7 people

TURNOVER

International turnover :
 100 ME



Air quality and odours control
 Analysis - Measurement
 Monitoring - Eco-design
 and clean technologies
 Energy efficiency - Fuel cells
 Implementing territorial
 sustainable development
 policies - Indoor air quality
 Modelling, measurement
 and monitoring noise zones
 and acoustic environments
 Noise and vibration - Noise
 protection equipment
 Photovoltaic solar - Regulations
 Audit - Consultancy - Studies
 and Engineering - Renewables
 energies - Sound nuisances
 Training or awareness
 Vibrations

Activities

The activities of ATISYS CONCEPT focus on three areas.

ENERGIES:

R&D focusing on innovative solutions in the field of energies: Solar cooling (solar air conditioning, solar ice production (blocks, flakes); production of DHW (aeraulic heat recovery from CMV, solar PV panels).

ACOUSTICS & VIBRATIONS:

Vibro-acoustic diagnosis of complex installations (know-how acquired in the naval military field and in industry), Signal processing (underwater warfare, complex industrial diagnostics), building acoustics (expertise, teaching at the National Conservatory of Arts and Crafts-CNAM / Paris-IPFI: Institut Français du Froid Industriel)

CONTROL / COMMAND & INSTRUMENTATION:

Metrology of pilot sites and platforms, management of complex systems (geothermal systems, fuel cells (PEM), various test bench...), infrared thermography, room control (comfort, air quality)

References

IN FRANCE

ADEME, ARCELOR / Sollac, Departmental Archives of Alpes Maritimes, Departmental Archives of Puy-de-Dôme, AREVA, ASF, CEA, Center Hospitalier Henri Guérin (Pierrefeu), CIAT, CNES / Direction des Lanceurs, CNAM, CNRS, COFATECH OMEGA, COMEX NUCLEAIRE, Conseil Général du VAR, Conseil Régional PACA, DGA, DCNS, DEGREANE HORIZON, DASSAULT AVIATION, ECA, EDF, ERILIA, FAURECIA, FEDERAL MOGUL, HELION, INES, IRSN, L'UNITE HERMETIQUE, MATRA BAe DYNAMICS, NTN, ORANGE, PSA, RENAULT, THALES, SEP, SBM, TECHNICALTOME, VALEO, City of FREJUS, etc ...

FOR EXPORT

ROYAL NAVY (Great Britain), QINETIQ (Great Britain), University of CRANFIELD (Great Britain), Johannes Gutenberg Universität – MAINZ (Germany), INDIAN NAVY: NSTL (Vishakapatnam); NUR (Goa); MTU (Mumbai), IGCAR – Kalpakkam (India), Paul Wurth (Luxembourg).

Ministry of Agriculture, Animal and Fishery Production (MAPAH) of Togo – APRODAT (agency for the promotion of agropoles in Togo): Supply of a refrigerated warehouse demonstrator with solar energy and PV2COOL system – Locality: Agroparc de Kara (TOGO).



AUTOMATIQUE & INDUSTRIE

Research department - Engineering, Service company

ADDRESS

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38430 Saint Jean de Moirans,
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www.aifrance.com

CONTACT

Mr. Pascal MIOCHE
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STAFF

110 people

TURNOVER

International turnover :
1 190 k€



Biomass - Energy efficiency
Photovoltaic solar
Regulations - Audit
Consultancy - Studies and
Engineering - Renewables
energies - Small-scale
hydroelectric energy
Wind power

Activities

Automatique & Industrie, company specialized in **automation and industrial computing**, develops and integrates turnkey solutions, customized, opened and sustainable in energy management and a wide range of smart complementary tools.

- Energy Efficiency : we develop and integrate CACTUS Energy Suite software (<http://www.cactus-energy-suite.com/>). In a autonomous and evolutionary way This software allows you:
 - building your energy dashboards
 - detecting consumption deviations rifts
 - disseminating energy reports
 - animating your ISO 50001 system, including building your reference energy situation
 - improving the quality of your data via a patented Artificial Intelligence algorithm
- Renewable energy production (hydroelectricity, photovoltaics, wind and methanization) :
 - Supply and commissioning of control-command and monitoring systems (PPC and SCADA)
 - Energy Management System : we supply hybrid power plant control systems (PV + Battery + Genset) for Off-Grid and Poor-Grid power plants.
 - Project owner assistance, maintenance in operational condition, completion of turnkey projects (from studies to commissioning) for all types of works

In each profession, we also support you in the collection, cleaning and processing of your data including artificial intelligence when advanced performance requires it : Data qualification, predictive maintenance, process optimization, simulation and forecasts of consumption and production, deviation detection, optimization of system lifetimes...

Our cybersecurity skills ensure the confidentiality of your knowledge and data.

References

In the photovoltaic sector, we have commissioned more than 450 MW (about 90 projects) since 2017, 25% of which were exported, with a projection of 300 MW in 2021. More than 600 MW are maintained by our TMA (Third Party Application Maintenance) team.

- Mauritius (Solitude PV 15 MW, Anahita & Fuel – PV 10 & 15 MW), Madagascar (Ambatolampy – PV 20 MW), Brazil (PV 4 *5 MW), Mauritania (Nouakchott Airport – PV + 1.5 MW battery storage), Qatar (Schneider Electric), Dubai (Dalkia), Bulgaria (Montupet)...

Certifications, labels or prize

- Innovation label of the Pollutec exhibition for CACTUSes. This software has been selected by Minalogic to be presented in its next showroom.
- CACTUSes is listed by the ATEE in energy management software.
- MASE certified (improving health, safety, hygiene and respect for the environment).
- 2021 : Gold medal awarded by ECOVADIS
- 2021 : Awarded the "STRONG" rating reflecting our financial strength and continued resilience by Plimsoll, a financial and sector analysis company.
- 2021: rated 3++ by the Bank of France. This note represents the Bank of France's assessment of the ability of a company domiciled in France to honour its financial commitments over a three-year period.
- 2019: Winner of the General Electric Renewable Energy Open Innovation Competition in the machine learning category
- 2019 : Winner of Human Capital Victories.



AZOLA

Manufacturer - Maker, Research department - Engineering,
Service company

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CONTACT

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STAFF

4 people

Activities

Innovative liquefaction solutions to recover and add value on all types of gas in liquid form, including biomethane (bioLNG), network gas (LNG) or mine/flare gas.

A simple and efficient process! The process is based on the principle of liquefying biomethane, storage in liquid form and regasification for injection. The unit is made up of several modules:

- Purification module for liquefaction: proprietary system to remove residual CO2
- GRID purification module (only for the treatment of network gas): proprietary system to treat water, CO2 and tetrahydrothiophene (THT – odorant of natural gas)
- Purification module for liquefaction: proprietary system to remove residual CO2
- Liquefaction module: proprietary open-loop gas liquefaction system capable of operating without a rotating machine
- LNG / liquefied biomethane storage module: liquefied gas storage at -160 ° C. Capacity of 10 to 100 m3 of liquid gas (an equivalent of 6,000 to 60,000 Nm3 in gas phase)
- Reinjection module: LNG / liquefied biomethane regasification system Control-command module: integrated system allowing the unit to start and stop (in less than an hour) automatically with supervision / alarm in remote monitoring

Certifications, labels or prize

L'Usine Nouvelle 1er Prix spécial du jury 2019

ExpoBiogaz Lauréat des Trophées de l'Innovation 2019

AD and Biogas Industry Awards Clever Use of Output 2020

Solar Impulse Efficient Solutions Solution labélisée en octobre 2020

Pollutec 2020 Innovation Awards 2ème Prix



ATEX - Biogas - Biomass
Eco-management Energy
efficiency - Energy
extraction from waste
Methane generation
Regulations - Audit
Consultancy - Studies and
Engineering



BeEnergy
REGEN SYSTEM

BE ENERGY

Équipementier - Fabricant , Société de Services

ADRESSE

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CONTACT

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b.coste@be-energy.net

STAFF

20 people

TURNOVER

International turnover :
500 000 €

Activités

BE ENERGY is a company specialized for several years in the design, manufacture and operation of battery and oil regenerators.

Certifications, labels ou prix

BE ENERGY is labeled Capenergie
I-Nov competition
E-A Undertake
CNRS
CEA
EETE Laureate

Today, Be Energy is behind the equipment of service providers in some 40 countries around the world, mainly in developing countries. It is in these countries that the greatest needs, especially for stationary batteries, exist. On the African continent alone, Be Energy has equipped 17 countries. Today, there are as many providers installed in Africa, offering battery regeneration services to telecom operators.

Be Energy is the only French manufacturer of battery regenerators. Beyond the borders of France, the equipment comes from Korea and the United States, qualifying the Be Energy market as a true niche market.

Références

THE 2021 GRAND EXPORT PRIZE AWARDED TO BE ENERGY, MANUFACTURER OF BATTERY REGENERATORS

After several years of research on the subject of construction waste, asbestos, composting, wastewater treatment plant sludge, Bertrand Coste launched Be Energy in 2014. This innovative company, based in Avignon, specializes in regeneration. Battery regeneration is the core business of Bertrand Coste's company, which is also making progress in the regeneration of oils and engines.

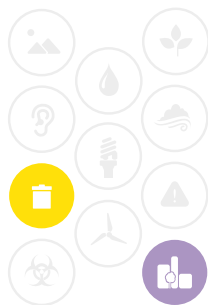
Be Energy is a battery regenerator manufacturer, particularly industrial batteries used in telecommunications. Among the key markets for the company from Avignon, the African continent, which is experiencing problems with electricity supply and stability. The large telecommunications operators all have backups characterized by very large batteries.

Be Energy also regenerates traction batteries, used in particular in the supply chain field.

Be Energy is a French company largely focused on export, since the solutions offered include turnkey battery regeneration workshops.

Obtaining the Grand Prix Export Stars & Métiers BPMED is an additional opportunity for Be Energy to showcase its know-how, its commitment in the regeneration of batteries, oils and engines, at the service of French companies and foreign and above all, in the service of the environment.

BE ENERGY provides follow-up and technical assistance for the networks of many large companies such as Orange, Ikea Legrand and many other companies with a European and global dimension.



Electric vehicles -
Energy efficiency
- Eco-management -
Environmental approach
of urbanism - Energy
efficiency - Hybrid vehicles
- Mobility and urban
transport - Eco-design and
clean technologies - Waste
management - Recycling
and exploiting materials
- Regulations - Audit -
Consultancy - Studies and
Engineering



BERTIN MEDICAL WASTE

Manufacturer - Maker

ADDRESS

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78180 Montigny-le-
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STAFF

15 people

Activities

BERTIN MEDICAL WASTE, a brand of Bertin Technologies group, offers innovative solutions for the treatment of biomedical waste thanks to a patented 100% electric technology combining shredding and sterilization by microwaves in one single vessel. Sterilwave solutions allow its users – hospitals, healthcare centers, laboratories, and any other sector producing potentially infectious medical waste – efficient & reliable treatment and decontamination of medical waste through an ultra-compact solution.

Sterilwave is a full range of eco-friendly solutions manufactured in France, offering treatment capacities ranging from 20 to 180 kg per hour for the transformation of waste classified as biomedical waste into ordinary municipal waste.

References

With over 700 Sterilwave equipments installed in more than 60 countries worldwide (Europe, Americas, Asia, Middle East, Africa) we are considered one of the market leaders.

We are proud to have the trust of many prestigious customers such as the World Health Organisation and the United Nations who have recently recommended the treatment of biomedical waste within the healthcare facility.

Certifications, labels or prize

United Kingdom reference – a symbol of excellence

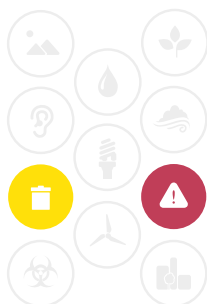
Bertin Technologies has opened in December 2016 the very first medical waste treatment plant processing the biohazardous waste inside a Public NHS Hospital (UK MOH).

This innovative waste processing plan is running at the Whipps Cross University Hospital (London Greater). This plant composed of two Sterilwave SW440 series machines is processing up to 3 Tons of hospital waste on a daily basis running 16 to 24 hours / day.

- Recognized as a “game changer” this specific waste processing site is seen to be the most innovative medical waste treatment plant seen by the NHS in two decades.

Recognized to provide an improved sustainability, better compliance and fixed pricing the Sterilwave is today a multi awarded technology in United Kingdom.

- Innovation of the year in healthcare sector 2017
- Green Apple Environmental Services award – 2017
- Green World Ambassador 2018



Waste management
- Regulations - Audit -
Consultancy - Studies and
Engineering - Waste from
care activities that pose a
risk of infection





BEST ENERGIES

Research department - Engineering

ADDRESS

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www.best-energies.com

CONTACT

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STAFF

12 people

Activities

Best Energies assists its clients in all their projects aimed at improving the efficiency and energy performance of installations and buildings, in particular by always seeking the use of alternative renewable or recoverable energies. Best Energies is Recognized as a Guarantor of the Environment (RGE) thanks to its qualifications.

Best Energies innovates in control and monitoring systems for energy production and distribution systems. The ProEnergies system as well as a collaborative web platform have been developed in order to allow customers to monitor energy consumption and prevent drifts.

TeraVolt by Best Energies offers energy recovery solutions from urban household waste and from agricultural residues.

References

Best Energies has already carried out a number of export projects, notably in Russia, Belgium, New Caledonia... In addition, thanks to its subsidiary dedicated to technical assistance (the activity of services and expertise for export), Best Energies is able to project its experts in all areas offering opportunities.

Certifications, labels or prize

ISO 9001 certified since 2014



Air quality and odours control - Energy efficiency
Energy extraction from waste - Environmental development - Regulations Audit - Consultancy Studies and Engineering
Regulations - Renewables energies - Sustainable urban planning - Waste management - Water infrastructure



BETEN

Research department - Engineering

ADDRESS

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CONTACT

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STAFF

5 people

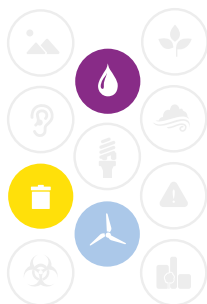
Activities

BETEN is an Eco-Enterprise specialized in the development of innovative solutions in the various fields of the environment:

- Renewable energies (wind, solar, biomass, biogas, mini hydro)
- Energy efficiency in buildings and industrial processes
- Water treatment, and waste, solid, liquid and gaseous materials
- Distillation and extraction activities of aromatic plants
- Organic certification of agricultural and food products

More than 80% of BETEN's activities are carried out internationally, and after a period of realizations in Africa, Middle East and Asia, they have been for more than 30 years, also localized, with a strong presence in Eastern Countries and particularly in the CIS zone (Ukraine, Russia, Kazakhstan, Moldavia...) and in the Balkans (Croatia, Bosnia, Montenegro,...).

Each project developed or carried out is subject to an evaluation of the most efficient and innovative solutions, compatible with the Client's specifications.



Architecture - Biogas
Biomass - Geothermal
energy - Logistics,
Collection, Transport
Management of fluids and
networks - Photovoltaic solar
- Regulations - Audit
Consultancy - Studies and
Engineering - Small-scale
hydroelectric energy
Thermal solar - Wastewater
Wind power - Wood energy



BIG WATA SOLUTIONS

Research department - Engineering, Service company

ADDRESS

72 Boulevard de Sébastopol,
75003 Paris,
France
www.valterra.fr

CONTACT

Mr. Pierre TERRIER
Phone: +33 (0)1 84 85 11 75
p.terrier@bigwata.fr

STAFF

6 people

TURNOVER

International turnover :
850 Ke

Activities

With the experience acquired over nearly 10 years with industrialists and public operators on the African continent, BIG WATA SOLUTIONS SAS is the first operator specializing in on-site sanitation, to offer a complete range of solutions perfectly suited to the development of the waste materials sector and its land and energy constraints.

Created and managed by Jean-Louis CHEMIN and Pierre M. TERRIER, respectively founder and former CEO of the VALTERRA ENVIRONNEMENT Group, BIG WATA SOLUTIONS designs, integrates and develops containerized and modular solutions for the service of communities and companies for processing, "l'hygienization" and the valorization of urban and agro-industrial effluents on the African continent.

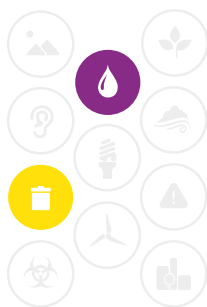
References

Construction of a sewage treatment plant in Cameroon.
Construction of a composting station for waste from the sugar industry (SOMDIAA Group) Madagascar expertise mission on the recovery of organic waste
Composting platform audit mission in Morocco
Audit of purification and sanitation plants in the Republic of Djibouti
Design and construction of autonomous sewage treatment stations (BIG WATA STATION exclusive process) in East Africa, West Africa and the Indian Ocean (Mali, Burkina Faso, Senegal, Madagascar).

Certifications, labels or prize

Laureate in 2019 of the Call for Projects launched by DG TRESOR on the theme of Sustainable Cities in Africa

- Member of the African Water Association (AFWA)
- Member of the National Union of Entrepreneurs in the Waste Sector
- Member of the French Council of Investors in Africa (CIAN)



Biological treatment /
Composting fermentation
Groundwater - Recycling
and exploiting materials
Regulations - Audit
Consultancy - Studies
and Engineering - Sewage,
industrial, cleansing and
dredging sludge
Wastewater



BIODIV WIND

Research department - Engineering

ADDRESS

132 Rue Marquis de Laplace,
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www.biodiv-wind.com

CONTACT

Mr. Henri PIERRE
Phone: +33 (0)6 87 24 34 88
hp.roche@biodiv-wind.com

STAFF

6 people

TURNOVER

International turnover :
50 000€

Activities

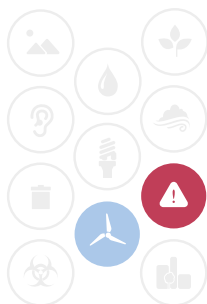
Biodiv-Wind designs and markets technological detection devices.
automated wildlife management system.

In particular, Biodiv-Wind has developed SafeWind, a video-surveillance device that monitors the time adapted to the wind context and to the day and night flying fauna. SafeWind allows thus to know precisely and effectively reduce the risk of bird collisions and bats with the windmills.

Biodiv-Wind has also developed BirdSentinel, a stand-alone video device that enables to accurately assess the aerial activity of flying wildlife and anticipate erosion of producible if wind turbine regulation is required.

References

Winner of the "Investissements d'Avenir" award, Biodiv-Wind is currently supporting a number of dozens of wind power projects, in the development and operating phase, in France and Europe.
In particular, Biodiv-Wind has implemented the first continuous long-term monitoring by video of chiropteran activity on an operating wind turbine



Industrial ecology - Natural
risks - Prevention of natural
risks - Protection of the
biodiversity - Regulations
Audit - Consultancy
Studies and Engineering
Wind power



BUYCO

Service company

ADDRESS

37 Boulevard Paul Peytral,
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www.buyco.co/fr

CONTACT

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geoffroy@buyco.co

STAFF

37 people

Activities

BuyCo is a collaborative digital platform on which importers and exporters, freight forwarders and maritime carriers can collaborate on the same transport and container file, in order to simplify, optimize and secure exchanges.

BuyCo, which has been awarded the JEI label, is a winner of the 2019 innovation competition.

Due to the complexity of sea logistics and the large number of parties involved in one single shipment, a lot of shippers use outdated IT tools to manage their freight operations.

BuyCo enables shippers i) to prepare, complete & monitor their transport operations (internally or with freight forwarders), ii) to work in a collaborative way internally and with all their partners, iii) to get visibility on their flows and documents, and iv) to collect and analyse data in order to continuously improve their supply chain.

BuyCo customers enjoy a better control of operations, internal productivity gains, external transport cost reductions and an increase in their own customers' satisfaction.

References

BuyCo responds to an international issue by construction. Its platform can be used anywhere, and already has users in nearly 60 countries.



Combating greenhouse
gases - Energy efficiency



C5P

Research department - Engineering, Service company

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France
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CONTACT

Mr. Laurent CREMOUX
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STAFF

5 people

TURNOVER

International turnover :
20 Ke in 2019

Activities

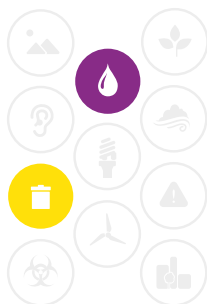
We carry out services in the financing of public services (water, sanitation, waste) and also assignments for assistance in the application for public subsidies for our clients.

References

We have carried out nearly a dozen financial AMO assignments in the implementation of energy performance contracts.

Certifications, labels or prize

- Consulting firm of the year Finance Monthly in 2016
- Décideurs Magazine" ranking 2015,2016,2017: Financial advisory services/ models: public entitie



Environmental and social
Investments - Mobility and
urban transport - Recycling
and exploiting materials
Regulations - Audit
Consultancy - Studies and
Engineering - Regulations



CAP ENERGIE

Manufacturer - Maker

ADDRESS

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catalogue/](http://www.capenergie.fr/catalogue/)

CONTACT

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STAFF

10 people

TURNOVER

International turnover :
1 M€

Activities

Cap Energie, supplier of solutions aiming at energy independence Since 2007, Cap Energie has been offering solutions to professionals aiming at energy independence. "Thanks to a range of rigorously selected equipment, from production to storage, including energy conversion, Cap Energie responds efficiently to numerous applications.

Among these applications, network backup (securing), public and industrial buildings, air and sea beaconing, advertising totems, isolated sites, mini-grids, electric vehicle charging stations, etc. »...

Cap Energie also provides specific training and assistance in the installation of the whole range of photovoltaic, wind, thermal, solar air and generator products, as well as complete technical documentation for the different products.

Involved in various projects, for the development of photovoltaic and wind energy, Cap Energie is directly involved in the Cématier project with the objective of contributing to the economic development of companies in an ethical and sustainable dimension.



Energy efficiency
Environmental and social
Investments - Industrial
ecology - Photovoltaic solar
Regulations
Audit Consultancy
Studies and Engineering
Thermal solar - Wind power



CDI TECHNOLOGIES

Research department - Engineering, Service company

ADDRESS

23 Avenue de la Créativité,
59650 Villeneuve d'Ascq,
France
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www.cditech.fr

CONTACT

Mr. Mohammed BOUMAHDI
Phone: +33 (0)6 87 51 74 19
contact@cditech.fr

STAFF

5 people

Activities

CDI TECHNOLOGIES is a software publisher of design software for a sustainable city. It has developed two independent collaborative platforms that are at the heart of the urban factory and allow all the actors in urban design and construction to work together on a project from the ground up.

SaneCity: Designing energy-efficient urban projects from the ground up (very early in the design process). Project labeled by Advancity and winner of the Fonds Unique Interministériel (FUI).

Hyetos: designing and dimensioning alternative techniques for rainwater management combining Engineering Sciences, Design Sciences and Human and Social Sciences. Labeled Investissement d'Avenir 2016 (Investment for the Future 2016)

CDI TECHNOLOGIES is an innovative company, all of its engineers are working on the development of two new collaborative platforms (innovative project with BPI France, the Unique Interministerial Fund, IPME laureate of the PIA future investment program).

References

Nous avons actuellement une activité d'exportation en Europe francophone et en Afrique. Notre volonté est de renforcer nos efforts en Afrique et proposer nos logiciels, avec des modèles mathématiques universels dans le monde.



Combating greenhouse gases - Combating greenhouse gases technology - Eco-design and clean technologies - Energy efficiency - Environmental approach of urbanism Rainwater management unit - Regulations - Audit Consultancy - Studies and Engineering - Sewage treatment plant - Water infrastructure



CELLOZ

Manufacturer - Maker

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STAFF

2 personnes

Activities

Celloz manufactures and sells bio-sourced roofing elements for garden sheds, garages, bicycle shelters ... under the Tuil'UP brand. The products are made from cellulose from recycled cardboard and vegetable resins.

References

In France, Tuil'up products have been distributed since March 2021 through DIY stores. Tuil'up is the first roofing material made up of more than 90% biomass materials. It is very light and easy to install. Celloz wishes to market its products in Europe (Germany, Scandinavia) but also on the North American continent as in Canada.

Certifications, labels or prize

Celloz was the winner of the I-Lab competition in 2018 as well as other competitions organized by Citéo, Technopole Domolandes and Poitiers. Celloz is a member of the Xylofutur, Fibers-Energivie and Végépolys competitiveness clusters. Celloz works with laboratories in France such as LGP2 in Grenoble.



Architecture - Environmental approach of urbanism - Eco-design - Eco-materials, Eco-design and Eco-products, Alternative raw materials - Sustainable urban planning - Environmental and social Investments - Industrial ecology



CERTIVEA

Service company

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STAFF

6 People

Activities

Cerway and HQE certification™

Cerway is the sole operator of the global HQE offer™ outside France.

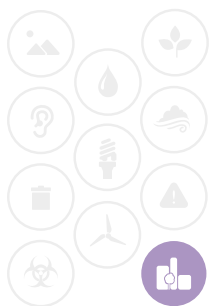
HQE is a certification, which attests to the success of a voluntary approach to obtaining a sustainable building or territory within the principles of sustainable development. This approach is applicable anywhere in the world, regardless of the local regulatory, cultural or climate context.

It concerns residential, commercial, administrative or service buildings, in all sectors of activity, whether **under construction**, **renovation** or already in **operation**, as well as **urban planning** operations (neighbourhood, cluster, campus).

The certification process accompanies industry professionals throughout their project, from conception to completion. They are encouraged to reduce the environmental impact and consumption of water, energy and waste from buildings and improve the health, comfort and quality of life of users.

The global HQE™ offer also covers the **training of professionals** to facilitate the development of sustainable projects, as well as the **training of HQE Certification™**, whose competence to accompany and lighten certification operations outside France is recognised by Cerway.

Finally, Cerway is also involved in several European projects aimed at improving the living environment and the environmental impact of buildings: ALDREN, Homes4Life or Level(s).



Environmental approach of
urbanism - Regulations
Audit - Consultancy - Studies
and Engineering





CITYTAPS

Manufacturer - Maker, Service company

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STAFF

15 people

Activities

CityTaps allows the emergence of a win-win relationship between water operators and subscribers thanks to its unique solution: an intelligent micropayment water meter, linked to a billing software.

Our system enables water operators to optimize their working capital and, in the long term, to invest in new infrastructure to integrate the poorest urban populations into their networks. As for subscribers, thanks to mobile payment, they can prepay for their water at any time and for any amount, using any mobile phone. They have access to water that is much cheaper than other solutions and is also completely safe.

Our innovative solution has the potential to dramatically improve the lives and well-being of the one billion people who do not have access to piped water at home. Our goal is to work together to make access to piped water at home for all urban dwellers a reality.

References

The CityTaps solution is currently in operation with the following water operators:

- SEEN (Niger Water Exploitation Corporation), Niger
- ONEA (National Office of Water and Sanitation), Burkina Faso
- Malindi Water, Kenya
- Interagua, Ecuador
- Odissi, Senegal
- WASAC, Rwanda

Certifications, labels or prize

- GSMA Mobile for Development (UK)
- Green Tech
- SOLVE
- Orange Social Entrepreneur Grand Prize
- Green Innovation and Investment Forum
- Pitch SABESP (Brazil)
- Solar Impulse Foundation



Automatic taps
Management of fluids and
networks - Regulations
Audit - Consultancy - Studies
and Engineering - Training
or awareness - Water re-use
and saving - Water saver



COHIN ENVIRONNEMENT

Research department - Engineering

ADDRESS

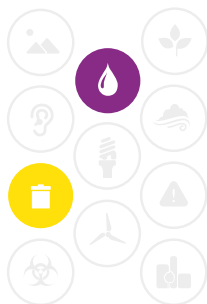
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STAFF

10 people



Biochemical processes
Chemical-physical processes
Mechanical-physical processes - Regulations
Audit - Consultancy - Studies and Engineering
Sewage treatment plant
Sewage, industrial, cleansing and dredging sludge
Wastewater - Water re-use and saving

Activities

COHIN ENVIRONNEMENT has a long experience in design and build of waste water treatment plant for urban and industrial. COHIN ENVIRONNEMENT offers to its clients over 40 years experience in this area with more than 100 WWTP for urbans and industrials. The company offers installations from design to commissioning, including assembly and staff training in the following :

Sanitary wastewater and urban effluents

- Collective and semi-collective sanitation
- Life bases
- Hospitals
- Buildings and shopping centers
- Hotel complexes

Industrial wastewater

- petrochemicals,
- agrifood,
- brewery, dairy, cheese factory, ready meals
- chocolate factory
- stationery store
- washing stations
- mechanical ...

Treatment of process and utility water

- Demineralization
- Water softening
- Filtration systems

Two patented improvements have been made to the SBR process, allowing the treatment of waste water in a single basin.

Our teams have designed a compact and mobile wastewater treatment plant: the WASTE WATER BOX, for the treatment of urban, industrial, lagoon. The development of a wide range of WASTE WATER BOX, from to 40' container to wood or composite solution, allows us to provide modular and expendable disposal to bring solution to the variations of effluents flow to treat.

COHIN ENVIRONNEMENT, known as a Leading Innovative Company, has developed a fully biological treatment plant, " UNIBIOCELL process", located in a single basin. The 100% biological treatment UNIBIOCELL, allows a 20% energy saving and produces 30% less sludge compared to a conventional installation.

COHIN ENVIRONNEMENT suit your needs with advice, audits, studies, and technical assistance, as well as any specific services in relation with the development of wastewater process, sludge treatment,

COHIN ENVIRONNEMENT, proposes solutions integrating circular environmental technology, to recovery solid and liquid waste, sludge and treated wastewater re-use

Certifications, labels or prize

- 2nd Prize at the PEXE Innovation Forum.
- Patented UNIBIOCELL purifying process
- Member of SYNTEAU (National Union of Water Treatment Companies)
- Member of Bretagne Eco Entreprise and Aqua Valley Clusters.



CORENVAL

Research department - Engineering

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STAFF

1 people

Activities

Expert in RECYCLING for 20 years, I am convinced that AFRICA has a very strong potential:

Millions of tons of plastics can be recycled.

Paper and cardboard, scrap metal and metals, inert materials end up in landfill instead of being recovered.

Complexes and textiles can go to Energy Recovery for Cement Works.

Organic and fermentable waste is insufficiently exploited instead of serving as compost and natural fertilizers.

Most of the D.I.B. (Ordinary Industrial Waste) is not subject to any pre-treatment, while there are resources to be exploited in these deposits.

The decision-makers or the Multinational Companies present on site wish to rely on reliable interlocutors who master waste management.

However, the European economic model cannot be transposed as it is, without adapting to the reality on the ground and without taking into account what already exists.

FM Recycling (Morocco):

Establishment of a complete Business Plan to set up a factory processing plastics from agricultural greenhouses in southern Morocco: Tarpaulins, Mulching, Drip, Twine, Phytosanitary Packaging. Potential: 28,000 Ha cultivated.

Study of Markets, Competition, Necessary Tools and Environmental Constraints.

The study raised €200,000 to finance the grinding – washing and regeneration facilities for Polyethylenes and Polypropylenes in Agadir.

Guinea Limpia (Equatorial Guinea):

Study on the sorting and recovery of household and industrial waste from the cities of Malabo and Bata. Profitability and investment calculations to reach the breakeven point, taking into account the island specificity of the capital and the absence of any industrial facility for the recovery of materials. Business Plan – Search for Markets – Analysis of shipping and customs constraints.

Bonkougou Route (Burkina Faso):

Development of the complete Business Plan for a rigid plastics recycling plant in Bobo-Dioulasso.

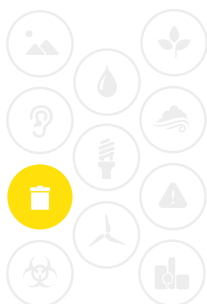
Market research: How is the collection of O.M. organized? Which municipal or private structures to rely on? What outlets for recycled products, locally or internationally?

Investment recommendation – hourly output – electricity consumption – water consumption – water treatment by settling.

References

- Expertise in Development in Africa (10 Years of Development Project Management).
- Expertise in Waste Recovery.
 - Plastics – Paper/Cardboard – Wood – Scrap and Metals – Inerts: Materials Valorization.
 - Fermentables and Organic Waste: Back to the Earth in amendment and compost.
 - Ultimate: Energy Recovery.
 - D.I.B: Which tools for which result?
- Sustainable Development Strategies and the Elaboration of Environmental Virtuous Circles

In summary, I bring you my KNOW-HOW and the support of my NETWORK to develop and implement your projects.



Cleaning - Logistics,
Collection, Transport
- Waste management -
Recycling and exploiting
materials - Regulations -
Audit - Consultancy - Studies
and Engineering - Tipping,
dumping



CR FRANCE COOL ROOF

Research department - Engineering, Service company

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STAFF

15 people

Activities

Our CoolRoof system is a passive thermo-reflective roofing system that reflects 90% of the sun's rays, thus blocking the induced heat before it enters the building.

This results in an average reduction of 6°C in building temperatures and between -20% and -50% savings on air conditioning electricity consumption. In addition to thermal comfort, our solutions also protect roof coverings from solar aggression (UV, infrared, etc.) and avoid contraction/dilatation phenomena, thus increasing their durability.

Our Cool Roof France teams are committed to the strong values of the Social and Solidarity Economy (SSE). We defend eco-designed products, biosourced, non-polluting, 100% Made In France, and above all durable, both in terms of life span (20 years) and ecology (the only reflective coating to have an Environmental and Health Declaration Sheet).

References

- TFI – Journal de 20h
- France 2 – Journal de 13h
- France 3 – Ensemble c'est mieux
- France 4 – Le monde de Jamy
- M6 – 1945
- CNews – Vent positif

Certifications, labels or prize

AWARD :

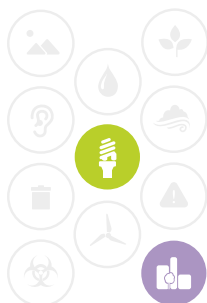
- "GreenTech" 2018
- Innovative Eco-company 2018
- Best innovative company at the "Victoires de la Bretagne 2018" awards
- "Partnership & Innovation" 2022 awarded by Arkema
- Med'Innovant of Euroméditerranée 2022

PROJECTS :

- "Resilience of territories and infrastructures" from CeremaLab 2021
- Perfecto 2020 on improving the environmental performance of products and business models from ADEME 2020
- "Global Cool Roof Challenge" of the Clean Cooling Collaboration
- Innwide from the European Commission 2019
- FASEP of the French Treasury 2020

REFERENCING :

- PEXE
- Solar Impulse Foundation: "1000 solutions for cities" & "Ready to vote" 2022
- Le Coq Vert 2022
- Start Up with Impact of BPI 2021



Energy efficiency
Environmental approach of
urbanism



CT2MC

Research department - Engineering,
Manufacturer - Maker, Service company

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STAFF

12 people

Activities

Independent engineering company specializing in the development of innovative products, CT2MC operates in various fields: – Engineering and consulting services: carrying out technical and feasibility studies – Development, prototyping and manufacturing of products in materials composites – The manufacture of several ranges of aquatic drones providing environmental monitoring and analysis missions (available for sale / rental) and inspection services for surface water or confined spaces with the various products in the range. In order to limit its impact on the environment, CT2MC is committed to advancing the state of manufacturing techniques in order to develop processes and products that are more respectful of the environment. The use of bio-based materials is part of one of these major axes, as is the choice to base production based in France to limit consumption and the impact on resources.

References

CT2MC's vocation, since its creation in 2012 by Olivier LE MEAUX, is the development and manufacture of industrial products combining innovation, composite materials, automation and robotics. CT2MC offers solutions and innovative products, non-existent on the current market, equipped with high technology and allowing to limit human risks. Our main references: – SUEZ – VEOLIA – EDF – Ministry of Defense.

Certifications, labels or prize

CT2MC has obtained ISO 9001 v2015 certification since July 27, 2016, by the LRQA organization for all of its drone development, manufacturing and service activities, certification renewed on August 31, 2020. CT2MC is also a member of the Entreprendre Network Savoie for supporting Business creation, takeover and development (after being a winner in 2013 for business creation and 2017 for international development) and joined in 2018 the French Fab, a label which aims to enhance and develop the French industry of the future. CT2MC has worked in close collaboration with research institutes such as CNRS, INRAE, ... on certain developments as well as with EDF DGT and EDF CIH.



Environmental development

- Eco-design and clean technologies - Risk
- Regulations - Audit
- Consultancy - Studies and Engineering - Environmental and social Investments - Environmental Regulations
- Water infrastructure
- Training or awareness
- Industrial ecology - Regulations - Training or awareness

DELTA-EE DELTA EE

Service company

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STAFF

5 people

Activities

We provide market studies, databases and analyzes of European energy transition markets, with a focus on the downstream-meter part.

Delta-EE enables organizations to develop the best strategies, business models and customer propositions for the energy transition. We do this, based on customer needs, through our subscription research services and bespoke consulting projects requested by customers.

References

Our products are subscriptions to research services.

We already sell our products all over Europe, North America, Japan.



Energy efficiency -
Renewables energies



DYNAES

Research department - Engineering

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STAFF

9 people

Activities

DYNAES, in collaboration with CES Mines Paristech, is developing technologies that improve the performance of air conditioning and heat pump systems, they would also have a positive impact on the environment and prevent CO2 emissions.

References

The main references of Dynaes in France are: RIVP: a pilot site is equipped with the technology with the aim of a large-scale deployment, the data will be supervised by the CSTB – VEOLIA: Veolia financed the tests on a screw compressors of 280kW of thermal power – ENGIE wishes to offer the technology to its customers – Airwell wants to install Dynaes15 on its heat pumps between 5kW and 20kW thermal in France and Europe Innovation is at the heart of Dynaes' activity, in fact we have today 2 unique technologies allowing energy savings on the electrical consumption of compressors. Patents are pending.

Certifications, labels or prize

Dynaes was a winner of the Innov'Up Leader PIA competition for the Île de France region and was recently a winner of the ADEME AAP EETE program.



Audit - Conseil - Etudes
- Ingénierie - Efficience
énergétique - Efficacité
énergétique - Eco-
investissements - Urbanisme
durable - Lutte contre les gaz
à effet de serre



ECO-TECH CERAM

Manufacturer - Maker, Research department - Engineering

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STAFF

35 people

Activities

Considering that 36% of the energy consumed in industry is waste heat, Eco-Tech Ceram (ETC) offers technical and financial solutions for its recovery.

The goal is to enable manufacturers to be supported from A to Z in their energy transition without having to invest.

Winner of numerous innovation awards, the Eco-stock® captures, stores and recovers waste heat at high temperature by releasing it in hot air, hot water or even transforming it into cold or electricity.

This technically proven solution, will bring below benefits to customer :

- Cost-effective : Reduce fossil energy consumption by using the Eco-Stock® as an alternative to gas combustion
- Efficient : Increases industrial productivity by accelerating baking and drying cycles
- Eco-friendly : Supports decarbonization strategy of the industry

ETC supports each project from diagnosis, to the technical and economic feasibility study, supply, commissioning and maintenance.

To estimate your potential savings, please click on the link below:
Pre-diagnosis of waste heat

References

All our references are available on our website:
<https://ecotechceram.com/en/references/>

Certifications, labels or prize

- Global Innovation Award Winner 2014, 2015 & 2020
- EDF Pulse Price LR 2015
- IPME ADEME Award Winner
- SME Instrument H2020 European Award Winner
- ArcelorMittal Innovation Award Winner

Integrated to Solar Impulse Fondation : 2018



Audit - Engineering studies
Waste heat recovery
Industrial heat treatment
processes - Energy efficiency
CO2 emission reduction
technologies - Eco-design
and clean technologies
Eco-investments - Recycling
and material recovery - Eco-
materials, Eco-products,
Industrial ecology - Training
or awareness



ECODAS

Manufacturer - Maker

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STAFF

20 people

Activities

ECODAS designs, manufactures and markets machines for the treatment of hospital waste with infectious risks. The ECODAS process combines grinding and then steam sterilization in a single chamber. The result obtained can be assimilated to household waste and can join the household waste industry. At the end of the cycle, the initial volume has been reduced by 80%. The treatment can be carried out in situ by the hospital itself or in a treatment centre by a service provider. ECODAS is present in more than eighty countries. ECODAS machines are available in five models: T100, T150, T300, T700, T1000 and T2000.

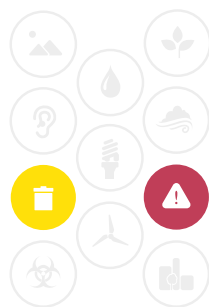
References

Albania, Algeria, Angola, Argentina, Azerbaijan, Bahrain, Bangladesh, Bosnia, Brazil, Bulgaria, Burkina Faso, Canada, Cameroon, China, Côte d'Ivoire, Cyprus, Denmark, Ecuador, Egypt, Estonia, Finland, France, Gabon, Ghana, Greece, Guadeloupe, Guinea Konakry, Guyana, Honduras, Hong Kong, Hungary, Reunion Island, India, Indonesia, Iran, Iraq, Italy, Jamaica, Japan, Jordan, Kosovo, Kuwait, Laos, Latvia, Lebanon, Lithuania, Libya, Maldives, Martinique, Mauritania, Mayotte, Mexico, Morocco, Mozambique, Nepal, The Netherlands, Nigeria, New Caledonia, Oman, Palestine, Panama, Paraguay, Peru, Philippines, Poland, French Polynesia, Romania, United Kingdom, Rep. Tchec, Russia, Saint Lucia, Saint Pierre and Miquelon, Senegal, Slovakia, South of Korea, Sudan, Syria, Switzerland, Thailand, Tunisia, Turkmenistan, Turkey, Ukraine, Uruguay, USA, Venezuela, Vietnam, Zanzibar...

Certifications, labels or prize

EC
ASME
ISO 9001 – ISO 14001

- 2022: Industry Trophies: International Awards given by the Industrial Society of Northern France 2017: Leadexport Trophies, CONQUERANT B TO B prize awarded by the CCI International des Hauts de France and the World Trade Center Lille & Arras.
- 2013 : ADEME Prize "Coup de Coeur du Jury" was awarded to ECODAS during the Export Eco-entreprises 2013 Trophies which took place in POLLUTEC – PARIS in December 2013.
- 2011 : Performance Award – Northern Region – EXPORT Category – LES ECHOS
- 2009: International Award – North East Region Ambition Award (LA TRIBUNE)
- 2009: Special Prize for Sustainable Development – Ambition Prize for the North-East region (LA TRIBUNE)
- 2008: Best Exporter Award 2007 given by the 1st Mondissimo Convention of International Trade and International Mobility
- 2008: Grand Prix of the Grand Lille Chamber of Commerce awarded by the Société Industrielle du Nord de la France



Methane generation
Recycling and exploiting
materials - Regulations
Audit - Consultancy - Studies
and Engineering - Thermal
treatment - Waste from care
activities that pose a risk of
infection



ECOMASURE

Manufacturer - Maker

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STAFF

17 people

Activities

Ecomasure innovates to preserve the environment and promote public health and well-being

We deliver smart solutions for monitoring air quality and other environmental parameters, to support healthy people and a prospering planet.

The company is organized into two business units. In the first, we develop and provide connected systems and SaaS (software as a service) data management solutions worldwide. In the second, we distribute scientific instruments and offer maintenance all throughout France. Ecomasure operates from its offices in the largest scientific research-intensive clusters in the world. Its headquarters are located in the Paris-Saclay R&D hub in France, and its American subsidiary is based in Boston.

We lead the way from our unique position on the air quality monitoring market, with over 30 years in metrology and measuring instrument calibration.

Well-versed in all the technological building blocks of the value chain, our in-house R&D team masters:

- Integration of electronic components
- Communications systems
- Energy management
- Database management
- Cybersecurity
- AI
- SaaS via the web platform model
- Front-end applications based on UX and UI

Our solutions are by design comprehensive, accessible, customizable to your manufacturing or industrial set-up, easy-to-deploy, and simple to maintain. Our customer-centric technical support guarantees a satisfactory experience, starting with needs analysis, through solutions development and deployment, after-sales service and finally, post-deployment data analysis.

Resolutely focused on international markets and driven by innovation, Ecomasure has posted solid growth. Export sales of connected systems exceed 75%, and the company invests 10% of revenue in R&D. Ecomasure has carried out over 300 projects in more than 40 countries worldwide. Our references vary widely from industry, research, quality control and environment service providers, to the public sector, city and regional governments.

You can find ECOMASURE on LinkedIn or Twitter,

References

FRENCH MARKET :

Airparif, Atmo Auvergne Rhône Alpes, Bouygues, Apave, Dekra, Enxco, SNCF, RATP, Vinci, Sanofi, Air Liquide, EDF, TOTAL, Bureau Veritas, Terideal, Michelin, the city of Lyon, the city of Monaco, Geneva, Veolia, CEA, LSCE, Saint Gobain, Sagem, Orano, Ineris (...)

INTERNATIONAL

SGS, OCP, CHU Quebec, ECCC (Environment and Climate Change Canada), City of Vancouver, Golder, STS Canada, Sanexen, the Ministry of the Environment of Abu Dhabi (...)

Certifications, labels or price

CERTIFICATIONS

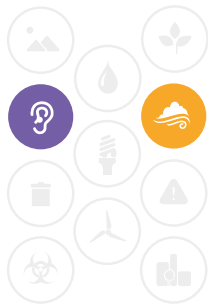
ISO 9001-certified, Ecomasure make customer satisfaction its top priority. As a sign of our commitment to quality and excellence, all of our equipment is factory-tested according to a stringent protocol and individually monitored throughout its lifetime.

Ecomasure is certified CE, FCC and FSA (Canada). Orange Business Services and Objenious – Bouygues Telecom also trust us: our smart systems work on the LTE-M and LoRaWAN network.

PATENT

The technology behind our connected systems is protected by the following U.S. and European patents "Universal Communication System for Measurement Apparatuses, Method of Communication Relating Thereto":

USPTO: 10064083. EPO: WO2016/151096



Analysis - Measurement
 Monitoring - Gas and fumes
 Gas Pollutants - Indoor air
 quality - IT and software
 Modelling, measurement
 and monitoring noise zones
 and acoustic environments
 Odorous compounds
 Particles - Regulations
 Audit - Consultancy - Studies
 and Engineering - Sound
 nuisances - Vibrations - VOC



ECOSLOPS

Technical solutions and service provider

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STAFF

55 personnes

TURNOVER

International turnover:
12,4 M€

Activities

Ecoslops is the only company offering a sustainable solution for the treatment and recovery of oil waste.

The company brings oil into circular economy thanks to an innovative technology allowing the company to upgrade oil residues into new fuels and light bitumen. The solution proposed by Ecoslops is based on a unique micro-refining industrial process that transforms these residues into commercial products that meet international standards. Ecoslops offers an economic and more ecological solution to port infrastructure, waste collectors and ship-owners through its processing plants.

Our company is unique and is the result of 5 years of R&D. Today, our engineers are constantly working on improving the process and defining / adapting new ones to support the energy transition.

Ecoslops launched in 2020 a new breakthrough innovation to produce new fuels from used lub oil and slops: The Scarabox® (Mini P2R), a containerized and automatized unit designed to treat used lub oil and slops containing pollutants (metals, sediments, ...) and to produce local high quality fuel oil instead of importing.

- Capacity: up to 10,000 tons/year (Designed for being profitable with limited amount of feedstock)
- Built in France, CE certified
- Plug & Play' easy to install
- Fully automated – Easy to operate

References

We are developing units in France and abroad with a project portfolio covering 5 continents.

Our first industrial unit, in Sinès, Portugal, started operations in June 2015.

Certifications, labels or prize

«Efficient Solution» Solar Impulse Label



«Trophée de l'Innovation Océan» 2018 category «reducing the use of fossil fuels»



«Evolen Innovation Prize 2018»



Les Echos «Growth champion» 2019, 2020 et 2021

Les Echos

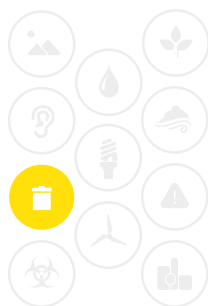
Financial Times «Europe fastest growing company» 2020

FINANCIAL TIMES

Les Echos «Climate champion» 2021

Les Echos

Label FCPI «Innovative company» by BPI



Recycling and exploiting materials



ECOSUN INNOVATIONS

Manufacturer - Maker

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www.ecosuninnovations.com/fr

CONTACT

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STAFF

10 people

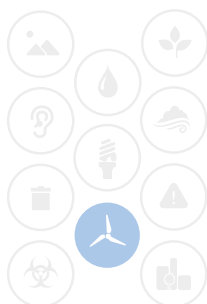
Activities

ECOSUN INNOVATIONS develops and supplies Mobil-Watt®: the first high-power mobile solar generator, fully pre-assembled and pre-wired, transportable in an approved 20-foot container and deployable in less than 2 hours.

The innovative and patented product is the spearhead of a complete range of solar off-grid and mobile solutions visible on: www.ecosuninnovations.com ; R&D is essential and necessary at ECOSUN INNOVATIONS.

References

More than 25 references operational are installed in Africa, Latin America and Asia. Development in the Middle East is in progress. The long-term vision of ECOSUN INNOVATIONS is to export on the promising international markets.



Photovoltaic solar
Renewables energies



ECOWAY PARTNERS

Service company

ADDRESS

33 Avenue du Maréchal
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STAFF

2 people

Activities

Ecoway Partners is an innovative French player specializing in environmental transition and energy optimization.

As an agent for the Energy Saving Certificates system, Ecoway Partners deploys its expertise, in terms of energy and the environment, to design and coordinate projects aimed at reducing and controlling the energy consumption of large energy consumers. Efficiency, economy, ecology: significant reduction in your energy bills, reduction of your environmental footprint ...

Our perspective is your energy efficiency. With our technical, financial and human skills, we put our convictions, our experience, our know-how and our tools at the service of your heritage development projects.

Integrating the creation of environmental and social value at the heart of your activities and your project management is a more than virtuous approach, allowing real savings to be made and a more ethical, more sustainable and more profitable future to be envisaged.



Eco-management -
Environmental development
- Energy efficiency
- Regulations - Audit -
Consultancy - Studies and
Engineering - Training or
awareness - Renewables
energies

photo credit EEL-Energy



EEL ENERGY

Manufacturer - Maker

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fsylvain@eel-energy.fr

STAFF

8 people

Activities

EEL Energy designs, builds and markets hydrogenators that capture the kinetic energy from rivers and oceans. We disrupt traditional hydro-kinetic turbines with a proprietary technology inspired by 500 million years of nature R&D.

Our revolutionary generators create electric power from the undulation of a membrane placed in a water flow, replicating the movements that propel the fastest fish and mammals on earth. Our proven and patented technology mitigates the many shortfalls of kinetic turbines; the EEL is efficient at low water flows, offers a superior handling of biofouling, debris and entanglement, and is not subject to cavitation. It is cost-efficient, wildlife friendly and scalable to several MW per unit.

Our current range includes a 30-50KW machine for river application, and we are developing a 1MW generator for tidal and oceanic currents.

The EEL recently won prestigious awards from the BPI, the European Commission and Dassault Systèmes. EEL is nature's choice for Marine Power !

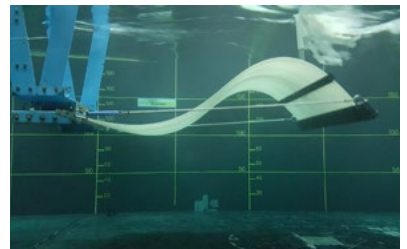
References

Our products are still in a state of technical development.

There is a strong export potential in areas with access to sea or river currents such as; UK, Canada, Taiwan, Japan, Chile, South Africa, Mauritius, Rep Dem of Congo...



Marine
Small-scale hydroelectric
energy



ENERLIS

Efficacité Énergétique & Environnementale

Research department - Engineering, Service company

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www.enerlis.fr

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STAFF

150 people

Activities

Enerlis is a global operator of the energy transition. The company is today a group of more than 150 people, structured in centers of experts, present throughout France and in the overseas departments. Completely independent of any energy company, Enerlis integrates and coordinates energy and environmental expertise to help major energy consumers reduce their energy bills and environmental footprint.

Enerlis combines its know-how in energy efficiency and Renewable Energies (charging station, solar, hydroelectricity, carbon-free hydrogen, etc.) for the buildings and mobility of each territory. The company carries out and finances their energy renovations by committing to results.

Certifications, labels or prize

- Label RGE, since 2018
- ISO 9001, since 2019
- ISO 14001, since 2020



Carbon Balance - Energy efficiency - Industrial ecology - Life cycle analysis, auditing and diagnostics - Photovoltaic solar - Regulations - Audit Consultancy - Studies and Engineering - Small-scale hydroelectric energy
Thermal solar



ENERTIME

Manufacturer - Maker, Research department - Engineering, Service company

ADDRESS

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STAFF

50 people

TURNOVER

International turnover:
2 M€



Biogas - Biomass
Combating greenhouse
gases - Combating
greenhouse gases
technology - Energy
efficiency - Energy
extraction from waste
Geothermal energy
Marine - Regulations - Audit
Consultancy - Studies
and Engineering - Sewage,
industrial, cleansing and
dredging sludge - Thermal
solar - Wood energy

Activities

ENERTIME is a technology company providing industrial solutions for the energy transition. ENERTIME designs and manufactures thermodynamic machines and the turbomachines that are its technological core since 2008.

The main activity is now focused on Organic Rankine Cycle (ORC) mini power plants for the energy efficiency of industrial processes and decentralised renewable electricity production.

ORCs operate on the principle of a steam power plant in which an organic fluid (low boiling point) replaces water. CROs are an advantageous replacement for conventional steam-cycle power plants for temperatures below 300°C up to 10MWe and more. CCOs are also relevant for small plants of less than 2MWe regardless of the temperature of the heat source, in power generation or cogeneration.

CROs have applications in waste heat recovery, medium enthalpy geothermal and power generation from biomass combustion heat and decentralised concentrated solar power. In waste heat recovery applications CROs allow continuous, CO₂-free and competitive electricity production compared to all other technical solutions.

More generally, ENERTIME develops and builds "tailor-made" turbomachines in the field of gas compression-expansion (turbines, compressors) and integrates them in specific energy systems such as CROs and high power, high temperature Heat Pumps.

References

3.2 MWe ORC module for the city of Shanghai. This module, supplied with 150°C superheated water and steam under pressure, is a first to optimize the energy lost on a circular cooler of an iron ore sintering unit in one of the world's first integrated steel production sites.

IN FRANCE

1. SERM (City of Montpellier) for an ORCHID biomass cogeneration module for the Port Marianne eco-neighbourhood. ORC cogeneration module 0.6MWe / 4.8MWth
2. 2MWe SUEZ ORC – Caen
3. AIT – SAUR – GRAND LYON ORC 700kWe – Sludge Incineration

ON THE INTERNATIONAL SCENE

1. BAOSTEEL Energy Shanghai – Module 3.2MWe
2. BAOTOU Steel 1MWe
3. KAMANYETS – biomass cogeneration module 1,6MWe
4. BANGKOK Glass Energy - Module 1,8 MWe

Certifications, labels or prize

Ademe-Total 2011 winner for the development of the ORCHID – FMGC module;

- Member of the Cap-énergies, Axelera and Energie-Vie competitiveness clusters...
- Founding member of the Institut Paris Saclay Efficacité énergétique (PS2E) (2013)
- Founding member of the Geodenergies Institute (2014)
- Laureat of the H2020 SME programme phase 1 for the development of an innovative CAP (2014)
- Winner of the Ademe AMI Geothermal program for the development of a 5 to 7MWe ORC (binary) geothermal power plant. (2015)
- Winner of the European Leanship programme for the development of a CRB – Marin (2015)
- Gilles David (CEO of Enertime) selected by BPI for its CRS policy (2018)
- Company selected as one of the 1000 Fastest Growing Companies by the Financial Times' (2019).



ENOGIA

Manufacturer - Maker, Research department - Engineering

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STAFF

65 people

TURNOVER

International turnover:
600 000€

Activities

The company received numerous awards for its unique technology and business development impact on the international markets.

In 2021 and for the second year in a row, ENOGIA was listed as one of the fastest growing company in Europe by Financial Times and Statista. In 2017 ENOGIA ranked and topped the Deloitte Cleantech Technology 50 french fasted growing companies index. Over the past 10 years, the company developed exclusive and patented turbines and compressors from hundred watts to hundred kilowatts for Organic Rankine Cycle technology and compressors for fuel cells. Enogia technologies are dedicated to different types of heat sources such as CSP, biomass, geothermal energy, industrial processes or internal combustion engines. ENOGIA new electric fuel cell compressor range was specifically designed to fit H2 fuel cell market requirements.



Biogas - Biomass
Controlled landfill
Energy efficiency - Energy
extraction from waste
Fuel cells - Geothermal
energy - Hybrid vehicles
Marine - Methane
generation - Mobility and
urban transport - Recycling
and exploiting materials
Renewables energies

Entech ENTECH SMART ENERGIES

Research department - Engineering

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STAFF

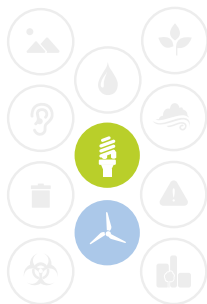
120 people

Activities

Faced with the technological challenges posed by the strong growth of new energies within the energy mix, Entech enables the massive integration of renewable energies and access to energy thanks to storage and electrical conversion solutions controlled by intelligent software systems.

Builder of the new energies, Entech develops, builds and operates production plants and storage systems – batteries or hydrogen – on-grid or off-grid. Founded in Quimper in 2016, Entech has already completed more than 250 projects worldwide and today employs 120 people.

Selected in 2021 by “La French Tech” in its Green20 programme and recognised by numerous awards for its capacity to innovate in supporting the energy transition, Entech is committed to acting on a daily basis as a responsible company, not only from an environmental point of view but also from a social and societal one. For more information: <https://entech-se.com/>



Eco-management - Energy
efficiency - Photovoltaic
solar - Regulations - Audit -
Consultancy - Studies and
Engineering - Regulations



ENVEA

Manufacturer - Maker

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CONTACT

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STAFF

>700 people

TURNOVER

International turnover:
Approx 80%



Air quality and odours
control - Analysis
Measurement - Monitoring
Biogas - Biomass - CO2
collection and storage
Coastal and marine
environment - Combating
greenhouse gases
technology - Monitoring and
modeling of atmospheric
dispersion - Eco-design
and clean technologies
Eco-management - Energy
efficiency - Energy from
waste

Activities

ENVEA manufactures high-precision monitoring systems as well as environmental data processing and reporting solutions with extensive knowledge in the development of complete turnkey solutions. We assist entities in complying with applicable regulations and with optimizing industrial processes for improved efficiency and reduced environmental impacts.

- Air quality monitoring networks: reference analysers (gases and particles), mobile and fixed pollution monitoring laboratories, data acquisition, processing and reporting systems. Cairpol micro-sensors miniaturisations complementary to the reference networks for fine meshing of a large area and optimised air quality monitoring: around a site at risk or generating odour nuisance, road infrastructure, sensitive areas, etc.
- Continuous measurement solutions for industrial processes and industrial emissions (Dioxins, Mercury, Particulates, Gases – HCl, SO₂, NO, NO₂, NO_x, N₂O, CO, CO₂, CH₄, HC, NH₃, HF, H₂S, TRS, O₂, COV, H₂O, Temperature, flue gas flow, Pressure, etc.). Data acquisition, processing and emissions reporting systems.
- Industrial process optimization solutions and monitoring instruments for process control: powders and bulk solids flows, bag-house filter damage control, leak alerts, pollutants abatement control optimization, moisture monitoring, particulates...

References

- Over 40,000 air quality monitoring systems manufactured by ENVEA are measuring the air world's major cities pollution: Rio de Janeiro, Istanbul, Seoul, Mecca, Delhi, Hanoi, Paris, Mexico, Lisbon, Barcelona, Moscow, Budapest, Mumbai, Tunis, Dubai, Bangkok, Bamako, Chongqing...
- Over 30 000 industrial sites (emission sources & processes) are monitored worldwide by our instruments across a broad range of industries such as: cement plants, glass manufacturing, metal factories, paper mills, engine manufacturers, waste to energy...

Certifications, labels or prize

Member of the Oséo excellence network and winner of several awards (Palmares technologique de la revue Mesures, Oséo's "innovative company" qualification, "Export dynamism" trophy, Euro-SME prize, Oscar for exports, Mercure d'or for exports, MOCI prize for sustainable development, etc.), Environnement S. A also relies on solid partnerships: Ministries, ADEME, public and university research laboratories, users and regular customers such as AASQA, LNE, Certam, Veolia, Novergie, etc., supplemented by feedback from its customers/partners, both French and international (MHI, Cetrel, E.ON, etc.).



Eon motors

EON MOTORS

Research department - Engineering , Manufacturer - Maker

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eon-motors.com

STAFF

25 people

Activities

Created in 2010, Eon motors designs, develops, assembles and market light electric vehicles. From the outset, Eon Motors has chosen to rely on European regulations for Quadricycles, light (L6e) and Heavy (L7e), for its vehicles. Designed not to be cars but the most compact and lightest possible electric vehicles in order to devote their on-board energy to uses and not to carrying empty masses uncorrelated from the needs of everyday mobility.

For this, Eon Motors relied on original motor technology, the wheel motor. In fact, equipping our chassis platforms with 4 wheel motors of 3,750 kW at the 4 ends of the platform, i.e. 15 kW of total power, allows a very large roominess to be released in favor of carrying passengers, up to 4, or payloads.

Our Weez vehicles have maximum accessibility, both in the City-Pro, City-Duo 2-seater version, and in the City-4 (4-seater) version, due to the choice of fitting them with opposing doors without B-pedestal (or middle).

Specifically designed to meet the requirements of local trips, our vehicles have a real range of more than 100 km (100 km in WLTC cycle), a maximum design speed of 90 km / h and easy recharging. on a simple socket or terminal in mode 3.

The compactness and lightness of Eon motors electric vehicles obtained thanks to proprietary technologies developed and implemented in Malijai by our teams in terms of platform chassis, running gear, thermoformed ABS bodywork, on-board electronics and power and IHM are the guarantors of the use of our technologies at the service of the uses and of a comfort adapted to the challenges of everyday life.

Weez City-Pro and Duo have been approved since summer 2020, have just been the subject of a pre-series of 20 vehicles, 2 of which were delivered in China in May 2021 to our reference shareholder. The Weez City-4 will be approved in the first quarter of 2024.

Finally to finish, if Eon Motors plans to enrich its range and develop new models corresponding to its DNA, the brand also wishes to be able to promote the technological bricks that it has developed and will develop to compete, either as a carrier of project or as a contributor to soft and carbon-free mobility projects.

References

Supported by a Family Office shareholder from the start and still present in the capital, Eon motors developed from 2010 to 2014 in a Franco-Tunisian framework for its first Weez 1 and 2 models, the only light electric 3-seater quadricycles to ever have been approved in Europe. In 2014, the company established itself definitively in Malijai in the Alpes de Haute Provence, bringing together all of its subsidiaries into a single entity. To strengthen its pool of historical shareholders, the General Management, after having exhausted all possibilities of researching investments in its project in France and in Europe, left for China for a 3-week study trip. She found and brought back a new industrial partner, a leading automotive supplier to the Chinese but also European automotive industry (PSA / WW), but not a manufacturer. Very interested in the vision of mobility carried by the Management of Eon motors and backed by an investment of € 8 million in the company, this new invested shareholder made available to Eon motors a sister company in Shanghai, specifically created for this cooperation, which now works on assemblies and sub-assemblies historically imported directly by the Brand from Chinese manufacturers (wheel motors, batteries, etc.). Having such expertise on site, more than 25 people, and thus offering Eon motors the opportunity to pursue its development in Europe such as that of exporting its technologies and vehicles to China in the form of "Proof of concept" is a extraordinary opportunity for Eon motors.



Audit - Conseil - Etudes
- Ingénierie - Eco-gestion -
Formation ou sensibilisation
- Efficacité énergétique -
Technologies de réduction
des émissions de CO2
- Energies renouvelables
- Véhicules électriques
- Véhicules hybrides -
Urbanisme durable



Équipementier - Fabricant

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CONTACT

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philippe.michon@eranova.fr

STAFF

9 people

TURNOVER

International turnover:
90 000 €

Activities

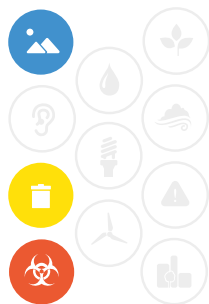
ERANOVA is an industrial project for the manufacture of recyclable, biodegradable or compostable biosourced resins and composites according to a patented technology using as a resource the green algae from strandings which pollute the beaches, based on an onshore production model in basins. "The ERANOVA company is based on three pillars: people (concerned about the planet), ideas, a territory.

References

To date, we have developments and commercial achievements present in mass distribution; The French slip, Intermarché, Casino as well as the automobile or the building.

Certifications, labels or price

Winner PIA 3 ADEME 2017, 2 Carrefour and Intermarché innovation prizes. EIB blue Ocean day finalist organized by the EC. Innovative eco-company of the year PEXE 2022. Solar Impulse label, Mediterranean of the future prize, member of the French climate pledge.



Coastal and marine environment - Biodiversity and landscape - Protection of the biodiversity - Regulations - Audit - Consultancy - Studies and Engineering - Sites remediation / decontamination works - Soils remediation - Waste management - Recycling and exploiting materials



EV DEVELOPPEMENT (AGROWIN INTERNATIONAL)

Research department - Engineering , Manufacturer - Maker

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STAFF

8 people

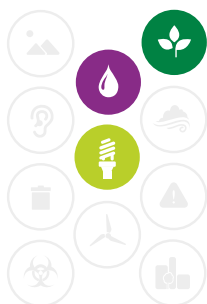
Activities

AGROWIN® International designs tillage and sowing machines for soil conservation agriculture. Adapt and meet challenges Agriculture must adapt to the new expectations of consumers who want healthier food while juggling ecological dogmatism and climatic difficulties. AGROWIN® International is aimed at farmers and Agricultural Work Contractors (E.T.A). Its mission: to support them to produce more and better. Listening to the issues of its customers and thanks to the technical expertise of its teams, AGROWIN® International offers solutions that meet societal, agronomic, economic and environmental challenges and requirements. Innovative and efficient, its agricultural equipment makes it possible to sustainably improve soil quality and secure yields. AGROWIN® International thus provides farmers with credible alternatives making it possible to:

- Limit runoff
- Limit soil erosion
- Limit pollution of soil and waterways by chemicals
- Limit carbon dioxide emissions responsible for the greenhouse effect
- Provide a mechanical solution to the scheduled shutdown of glyphosate.

References

The main references in France: we are setting up educational showcases in the great west of France to demonstrate the value of scalping (mechanical weeding) and yield by comparing several techniques for planting crops.



Environmental development
- Energy efficiency -
Environmental and social
Investments - Water saver



EXAKOM

Service company

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STAFF

7 people

TURNOVER

International turnover:
300 000€

Activities

EXAKOM IS A SOFTWARE COMPANY SPECIALIZED IN BIG DATA AND DIGITAL SOLUTIONS FOR PLANT AND IIOT ANALYTICS. ITS LEADING PRODUCT IS PLUTO ANALYTICS, A MODERN AND ROBUST OUT OF THE BOX SOFTWARE TO DO LIVE MONITORING AND REPORTING APPLICATIONS.

Our customers are companies looking for friendly solutions to create themselves data analysis projects combining values from different processes. They want, for example to understand the interaction between the energy consumption and the process, compare behaviors at different time, detect deviations and take decision on clear analysis. Our products have been designed to help people from industrial plants and smart building to optimize their operations even with millions of information.

References

3E PERFORMANCE – ARIANE GROUP – ASCOVAL – AURIPLAST – ARKEMA – AXIMA – BONDUELLE – BORDEAUX Métropole – BORGES OIL – BOSH – CAPELIER – CIO – COMAU – DRT – EAUX du PORTUGAL – ENERGIE MANAGEMENT- ENGIE – EVIAN – GENERAL MILLS – HAAGEN DAZS – HCL – IMERYS – INDUSTRIEEL – INEOS – INTER ENERGIE – L'OREAL – LAFARGE – LVMH – MANE & FILS – MSC – OLD EL PASO – ORANGE DATA CENTER – ORANGINA – PHOTONIS – RYIADH BANK – SAFRAN – ST JEAN INDUSTRIE – SARPI VEOLIA – SILGAN – SOBRAGA – SOMENGIL – SOTRENOR – SYCTOM – SYAGE – STGS – TRELLEBORG – YOPLAIT ...



Analysis - Measurement
Monitoring - Energy
efficiency - Energy efficiency
IT and software
Regulations - Audit -
Consultancy - Studies and
Engineering

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STAFF

3 people

TURNOVER

International turnover:
100 000€

Activities

The consulting company **EXENCI** provides **expertise and technical assistance on energy efficiency and renewable energy projects** in France and abroad.

EXENCI is involved in the whole range of defining and implementing energy management policies, until they are fully integrated within territories or industry e.g. analyzing a country or territory specific energy context, or defining needs in terms of awareness and communication, **EXENCI** has real experience in **communication engineering** on energy and sustainable development issues. **EXENCI** works in the sectors of industry, SMEs, buildings as well as sustainable cities and territories.

Our vision of consulting is based on technical expertise and practical experience for many years. We bring added value through our taste for the concrete and the operational. Our intercultural, international and multidisciplinary approach allows us to be adaptable in the construction of dialogues and the conduct of projects with our international partners.

We provide the following services:

- **Energy Efficiency Consulting**
- **Technical assistance**
- **Energy audits**
- **International Project Management**
- **Definition of strategic communication related to the sustainable development issues**
- **Management of international partnerships**
- **Training adapted to your needs**

References

Caribbean – “ReSEMBiD” Program for REsilience, Sustainable Energy and Marine BioDiversity in the Overseas Countries and Territories (OCTs) of the Caribbean.

Cambodia – for the account of the Asian Development Bank; Technical assistance for having for its objective a sustainable electricity sector.

Mauritius – for the account of the French Development Agency (AFD) and Business

Mauritius; Technical assistance to the AFD-Sunref III project with respect to financial instruments for energy efficiency in the private sector.

Indian Ocean (Madagascar, Mauritius and Comoros) – in the framework of the EU-funded COI-ENERGIES program, studies on the energy efficiency potential of different private sector consumers.

Ivory Coast – “ECLER IVOIRE” – for the account of Expertise France; Technical assistance on the project aiming to reduce energy consumption of a public building, a pilot project demonstrating energy efficiency/management solutions.

Turkey – Technical Assistance on Sustainable Energy in Turkish Metropolitan Municipalities. AFD – Expertise France

Ukraine – Consultancy and technical expertise mission for the introduction of mandatory energy audits in Ukrainian companies. INOGATE/EU

Turkey – Strategy Consulting – Creation of an energy efficiency programme for Turkish SMEs. AFD and KOSGEB

India – Construction of a French-Indian technical partnership and organization of demonstration operations. CETIAT – ADEME

France – Technical expertise on the international cooperation project Top Tens (IPEEC). ADEME

Ukraine – Technical and regulatory analysis of the conditions for implementation of a system of voluntary agreements on energy efficiency in Ukraine. ADETEF/EU

India – Assistance in prospecting energy efficiency partnerships between Indian industrial clusters and French technical operators. AFD

Turkey – Project Manager and Key Industry Expert for the France/Turkey twinning on ‘Improving Energy Efficiency in Turkey’. European Union



Carbon Balance - Corporate social responsibility - Eco-management - Energy efficiency - Environmental development
Implementing territorial sustainable development policies - Industrial ecology
Mobility and urban transport - Regulations
Audit - Consultancy - Studies and Engineering
Regulations - Audit
Consultancy - Studies and Engineering



FINX

Manufacturer - Maker

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finxmotors.com

EFFECTIF

20 people

Activités

FinX is revolutionizing the nautical world by developing an undulating membrane for boat engines, imitating fish swimming. This new propulsion, which replaces the propeller by a fin, is eco-designed, bio-inspired, efficient, electric and totally safe. It represents the future of nautical mobility.

The Fin5 is the first finned boat motor in the world, without propeller, 100% electric and safe, 2kW (equivalent in thrust to a 5 HP engine). First FinX product, it is dedicated to small boats (boats and dinghies) and sailboats up to 3 tons.

A true technological innovation, this new linear (non-rotating) motor has the particularity of not "mixing" the fluid like a propeller does, but of propelling it in a straight line, like the silent power of marine mammals. The Fin5 will equip small recreational boats (boat rental companies without a license, distributors, individuals, etc.). The Fin5 is marketed, available for pre-orders. The first series of engines will be industrialized at the beginning of 2023.

The Fin150 is the second FinX finned boat engine, currently under development. With a power of 150HP (120kW), it will be equipped with two planar membranes, and will benefit from the same disruptive advantages as the Fin5, with the addition of hydrogen. The Fin150 will be dedicated to river and/or tourist shuttles, shipyards, workboats, boat rental companies, etc.

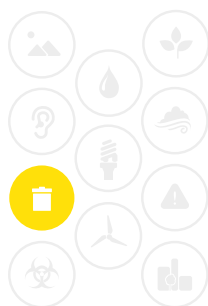
After the Fin5 (5CV-2kW) and the Fin150 (150-120kW), FinX will develop intermediate ranges, as well as higher powers, with an objective: the generalized replacement of the propeller.

Thanks to this wave membrane technology, with immense potential, FinX wants to become a leader in the energy transition and will address another gigantic market: industrial pumps.

By choosing innovation and the future, FinX is part of the dynamics of the energy transition and honors its objective of becoming a low-carbon player in the world of tomorrow.

Certifications, labels ou prix

- I-Demo, Bpifrance (Corimer), September 2022
- CleanTech Open Global US – World winner – 1st prize foreign company category & Audience award
- CleanTech Open France – Winner France, Mobility sector, 12th edition
- i-Nov – Winner (Sept. 2021)
- Innovate for tomorrow, Winner (Sept. 2021)
- CleanTech Open Global US – Winner worldwide – 1st prize in the foreign company category & Public Prize
- CleanTech Open France – Winner France, Mobility category, 12th edition
- i-Nov – Winner (Sept. 2021)
- ESSEC Founders Day – Finalist (Sept. 2021)
- Challenge des Innovations Durables – Winner (July 13, 2021)
- Energy Boat Challenge – Winner – Exhibitors' Favorite Award (10/07/2021)
- Start-up World Cup – Semi-finalist France (29/06/2021)
- Ocean Pitch Challenge – Winner, 1st prize (26/05/2021)
- Paris 2024 Olympic and Paralympic Games – Winner, "Active and New Mobilities" category (06/05/2021)
- Spring 50 Paris Saclay – Winner, "Mobility" category (16/04/2021)
- Prix Félix – Winner of the Prix Félix 2020 in the "Coup de Pouce" category (27/01/2021)
- La Tribune – National winner "10 000 start-ups to change the world" – "Start" category (08/09/2020)
- i-Lab – Winner of the national competition (03/03/2020)
- Techninov – Winner in the "Sustainable Mobility" category (27/02/2020)
- La Tribune – Winner of the Ile-de-France "10 000 start-ups to change the world" – "Start" (31/01/2020)
- Trophées Océan – Winner (16/01/2020)
- SATT de Saclay – Deep Tech Labeling (10/01/2020)
- Sardine Trophy – Finalist, final in May 2020 (21/11/2019)
- Paris-Saclay SPRING – Winner in the "Mobility" category (20/05/2019)
- Vivattech – Finalist "Next Startupper Challenge" (18/05/2019)



Combating greenhouse gases - Energy efficiency - Marine - Corporate social responsibility - Renewables energies - Eco-design - Mechanical-physical processes - Membrane plant - Small-scale hydroelectric energy - Water infrastructure

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STAFF

26 people



Architecture - Biogas
Biomass - Coastal and
marine environment
Eco-design - Energy
efficiency - Energy
extraction from waste
Environmental approach
of urbanism - Geothermal
energy - Implementing
territorial sustainable
development policies
Indoor air quality - Life
cycle analysis, auditing and
diagnostics - Photovoltaic
solar - Phytoremediation
Prevention of natural
risks - Protection of the
biodiversity - Protection of
the cultural heritage
Rainwater management unit
Recycling and exploiting
materials - Regulations
Audit - Consultancy

Activities

The Franck Boutté Consultants agency is a leader and reference in the fields of environmental design and engineering and sustainable development, applied to buildings, neighbourhoods, towns and territories.

It covers a wide range of disciplines and skills (bioclimatism and passive strategies, comfort, ambiances, health, management and optimisation of resources, energy, water, design and optimisation of envelopes, natural ventilation, advanced modelling and simulation, development of renewable energies, carbon and LCA approach, French and foreign energy and environmental certifications, etc.) and operates on all scales, from the material to the territory.

The agency, which brings together engineers, architects and urban planners, often with hybrid profiles, has a total of 26 employees, spread between Paris, Bordeaux and Nantes. Its holistic philosophy, a crossroads between intellectual tools, a very wide range of digital tools (3D modelling, digital mock-up and BIM, advanced simulation in energy and climate, comfort, light, aerualics, etc.) and experimental procedures (development of methods and tools) enables it to respond to all environmental issues, on the scale of buildings and urban organisations, by proposing a large number of innovations and giving an important place to R&D.

References

- 55,000 ha for Nature / TER Agency, sustainability exchange, making more nature for more people. (biodiversity, strategies for enhancing the value of territories, mobility)
- Zenata New Town / RRA, Southern ecology, aerualic grid, low-tech strategy (natural urban ventilation, morphology, blue grid, green grid, sunshine, shade, STD)
- Greater Moscow / CUA consultation, strategy of otherness and solidarity on a large scale. (Networking of energy, ecosystem, social, economic and cultural resources)

- Risk Workshop / Obras – Alphaville, design of strategies for changing territories. (Comparative studies, analysis of risks and hazards of sites)
- Atelier des Territoires / Franck Boutté Consultants, design of energy transition strategies (Diagnosis, co-development of a strategy with key players, facilitation of design workshops)
- Campus de Bordeaux / AUA Paul Chemetov – DV-Quille Construction, double skin bioclimatic, requalification of several existing buildings. (Double glass skin, air insulation, preservation of the already there, STD)
- Lycée Français du Caire / DDI Architects, ecology of the South, low-tech strategy. (Natural ventilation)
- Cité Municipale de Bordeaux / Paul Andreu + Richez Associés, shared BEPOS. (Mutualisation of energy resources, sharing of production with adjacent historical building)

Certifications, labels or prize

- (2014) Winner EDF Bas Carbone 15 interlocking wooden houses in 4 different sites in Gennevilliers with Djuric Tardio.
- (2012) Prize from the EPL / EDF innovation fund for the Maison de la Recherche Euroméditerranéenne and Institut Ingémédia in Toulon with ANMA
- (2012) EDF low carbon "urban prospecting" award for an apartment building, day nursery and business in Paris with Naud & Poux Architects
- (2012) Agora Prize of the Bordeaux Biennale of Architecture and Urbanism for the 26 housing units in Lormont with Ateliers Jean Nouvel + Habiter Autrement



GEOLITH

Research department - Engineering

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STAFF

5 people

Activities

- Global demand for lithium is exploding with the expected development of electric vehicles and batteries, and producers need to anticipate.
- The solutions are multiple and GEOLITH offers lithium producers :
- To double their current production by increasing the extraction efficiency thanks to its Li-Mag process.

References

Chile and South America the world's largest lithium producing zone



Eco-design and clean technologies - Eco-materials, Eco-design and Eco-products, Alternative raw materials - Environmental and social Investments



GREEN CREATIVE

Manufacturer - Maker

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STAFF

20 people

Activities

Green Creative is a French, Cleantech company, specialising in the design of innovative solutions for sorting waste at the source.

Our technology is based on a unique combination of perforation, compression, filtering & brushing methods, guaranteeing an exceptional purity rate that can't be achieved with traditional shredding methods.

FLEXIDRY depackaging systems separate packaged biowaste from containers, with a technology that doesn't require water nor shredding.

FLEXIDRY is a versatile solution developed and patented by Green Creative. Flexidry depackaging solution separates content from container without crushing it, regardless of the type of packaging or organic matter.

By unpacking food waste, FLEXIDRY saves precious biowaste from incineration and turn it into pure organic matter. FLEXIDRY is the only industrial solution that guarantees a pulp purity of 99.9%. This results in a higher methanogenic potential for biogas production and a safe & healthy soil fertilization through quality compost or digestat.

All of our machines are assembled in our factory in Sucy-en-Brie, near Paris. We are proud to be Made in France !

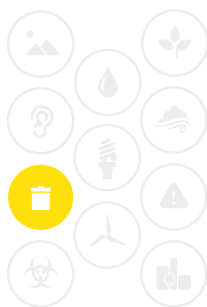
References

On FLEXIDRY, we currently have around 30 references in operation or in the process of being set up in France, Switzerland, Poland, Lithuania. These installations are positioned in various sectors but always for the treatment of bio-waste: methanisation, composting, animal feed, and waste service provider massification sites.

Certifications, labels or prize

We have received numerous awards for our company, FLEXIDRY:

- Start up of the year via Engie in 2015
- FLEXIDRY's favourite award at the E&E prize in the Circular Economy category – ADEME and Ministry of the Environment in 2015
- Winner Cleantech Open France in 2015
- 2 prizes for innovation at Biogas trade fairs for FLEXIDRY in 2016.



Biogas - Biological treatment
Composting fermentation
Mechanic treatment
Methane generation
Recycling and exploiting
materials - Sewage,
industrial, cleansing and
dredging sludge - Treatment
and sorting - Waste
management

GREENBIG

Manufacturer - Maker , Service company

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STAFF

14 people



Audit - Conseil - Etudes
Ingénierie - Eco-conception
et Technologies propres
Eco-gestion
Écoconception, Éco-produits
Efficacité énergétique
Efficience énergétique
Énergies renouvelables
Formation ou sensibilisation
Gestion environnementale
Hydraulique - Indicateurs
significatifs du Dév. Durable
Lutte contre les gaz à
effet de serre - Politiques
territoriales de Dév.
Durable - Réglementation
environnementale
Responsabilité sociale
des entreprises - Solaire
Photovoltaïque - Solaire
Thermique - Technologies
de réduction des émissions
de CO2

Activities

Each year 17 billion plastic bottles are consumed in France. Paradoxically, bottle manufacturers cannot find enough recycled plastic to incorporate into their bottles ... This is why GreenBig has created the b: bot, the robot that reinvents the recycling of plastic bottles by combining ecology and economy in an approach innovative 100% circular, profitable and united.

Certifications, labels or prize

We have received the BCorp certification, the Solar Impulse label, the Bpi France label, the Horizon Europe label from the EIC.

References

Our main competitors in France are LemonTri, Cycleen and Tomra. The difference with them is that our machine crushes the bottles to make flakes. And these glitter are then washed to remake plastic bottles. The process becomes faster and more efficient, as the material is already ready to be treated and recycled. Innovation therefore plays a fundamental role because it allows us to find solutions to improve the machine. For example, we are working on projects related to artificial intelligence to be able to recognize bottles even without the barcode. This would make it possible to collect as many bottles as possible to prevent them from being dispersed in the environment.



GROUPE COMPTE.R

Manufacturer - Maker

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STAFF

350 personnes

TURNOVER

International turnover :
2 M€

Activities

French industrial company and forerunner in the development of renewable energies, COMPTE.R designs and manufactures a complete range of wood and biomass thermal generators. Born 130 years ago in Auvergne, the company is today a major international group in the renewable energy sector, such as wood and biomass, and is recognised as one of the leaders in its sector. With a physical presence in several European countries, the group has a mobile team.

The group's 2 subsidiaries and 2 representation offices have developed centres of expertise that enable them to respond effectively to the expectations of their customers. The COMPTE.R Group and its teams have developed their expertise in hot water, steam and superheated air. Changing needs are the driving force behind innovation within the group. Thanks to its R&D office, the group offers ever more efficient boilers.

Its strength has been forged through the continuous development of the use of various agrofuels. Equipped with a "Platform for the Future" laboratory, the group is able to validate the performance of its fuels and boilers.

The COMPTE.R group is today much more than a boiler. Its originality lies in its complete and personalized service offer from the design to the end of the boiler's life, with a single contact throughout the entire process. 450 people support industrial companies, local authorities and the tertiary sector in their projects.

With more than 3,000 biomass and wood boilers installed worldwide, the COMPTE.R group continues to develop in close connection with its DNA: the environment, local footprint and innovation.

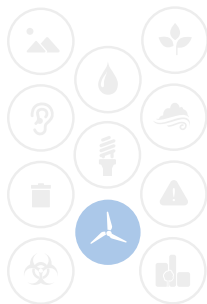
References

IN FRANCE

More than 2,000 installations in France have been branded COMPTE.R with, among others: Limoges University Hospital, Limagrain, the aquatic center of Auray, Ikea, BEL Cheese Factory, Pierre Fabre, Yves Rocher, L'Oreal, Herta, University of Bordeaux, Serre Heinz, Chambéry Bissy heating network, Pupan Hospital, Roanne Cherve High School.

EXPORT

The group has more than 3,000 boilers in the world with among others: Olympic Park in London, Serres Excel in Quebec, Cargotec in Poland, Italiana Pellets in Italy, Ghent University in Belgium, Malteries Soufflet in Ukraine, SIC CACAOS in Ivory Coast.



Biomass - Wood energy



GROW UP MARKETS

Service company

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STAFF

2 people

Activities

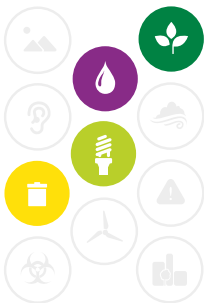
Grow up markets supports companies to develop sustainably in West African territories. We devote our support to solutions aimed at various sectors: Environment, Energy, Health, Education, Agro-agriculture... We mainly collaborate with companies that are sensitive to the environment and to new technologies in order to build a world more sustainable.

References

Our main references: French Association Flocéane specialized in the design of autonomous buildings; project that is part of a policy of urbanization and access to housing in Côte d'Ivoire.

Certifications, labels or prize

We are a partner in France of Tennerdis and France Innovation. We also collaborate with associations such as Bond'Innov. Internationally, more specifically in Benin: ABERME (Beninoise Agency for Rural Electrification and Energy Management) and SEME CITY (the international city of innovation and knowledge).



Energy efficiency -
Environmental development
- Waste management -
Water infrastructure



H2P
Heat to Power engines

H2P SYSTEMS

Manufacturer - Maker

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STAFF

15 people

Activities

Our system allows a considerable reduction in the consumption of combustion engines.

It is also a main motorization for solar applications

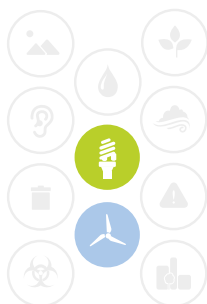
References

R&D is the raison d'être of H2P SYSTEMS. All the staff and means are dedicated to R&D. Our technology is a real technological breakthrough.

The export business flow is very low even if we have already collaborated through development contracts signed with international groups (with the French intermediary of the group) such as VOLVO TRUCKS, VALEO or AGCO. We are currently engaged in international actions; trade shows, website, conferences...

Certifications, labels or prize

Winner Horizon 2020 SME Instrument Phase 2 in 2017.



Combating greenhouse
gases technology - Energy
efficiency - Thermal solar



HAFFNER ENERGY

Manufacturer - Maker, Research department - Engineering

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STAFF

23 people

Activities

A listed and family company co-founded and co-managed by Marc and Philippe Haffner and a player in the energy transition for 30 years, Haffner Energy designs and provides technologies and services enabling its customers to produce green hydrogen, renewable gas replacing natural gas combined with carbon capture through the co-production of biochar through its Synoca® and Hynoca® processes, by thermolysis of biomass.

Those processes allow the production of hydrogen or renewable gas at highly competitive cost, is carbon negative of 12 kg (net) of CO₂ per kg of hydrogen produced, while depending very little on the electricity grid and the cost of electricity. This enables Haffner Energy to make a very rapid and agile contribution to the strategic challenges of Europe's energy independence combined with the acceleration of its decarbonization.

Certifications, labels or prize

Awards :

- BPI Excellence growth journey 2017 and 2020
- Hydrogenies award, Hydrogen trophies 2019
- Innovation Trophies Grand Est 2018
- Pollutec Innovation Awards 2020
- BPI Automotive Accelerator Program 2021



Biogas - Biomass - Energy
efficiency - Environmental
and social Investments
Methane generation -
Hydrogen



HANTSCH

Research department - Engineering

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STAFF

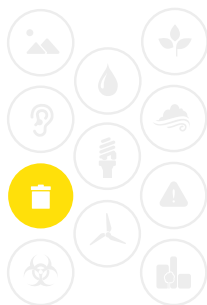
40 people

Activities

HANTSCH is a complete supplier of plants and equipment for waste treatment and biomass recovery. This is the heart of our company. We are the French market leader in the composting and wood energy markets, for which our engineering department has been designing plants and products for more than 30 years.

References

We have built more than 15 composting and various bio-waste facilities in Eastern Europe over the past 6 years and are also active in North Africa. International development is a priority for the company, which we are implementing through partnership contracts or the creation of subsidiaries (PL).



Biological treatment /
Composting fermentation
- Energy extraction from
waste - Exploitation and
elimination - Recycling
and exploiting materials
- Regulations - Audit -
Consultancy - Studies and
Engineering - Waste centres



HEYLIOT

Manufacturer - Maker , Service company

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STAFF

11 peoplew

Activities

Our Heywaste solution is based on 3 pillars:

- a sensor incorporating patented optical measurement technology and transmitting the filling level of the waste container at regular intervals by using low-speed networks dedicated to connected objects (Sigfox or LoRa)
- a web-based management and supervision platform providing a complete view of the state of the fleet, the filling levels of the containers and therefore the points to be collected as a priority
- a Data Science technical base that can provide end users with reports enabling them to better understand and better manage their fleet of containers.

References

Innovation plays a key role in our achievements because we have been able to reduce the cost of producing waste information. Economic cost, energy cost, electronic component cost.

Some customer references:

- Manufacturer: SULO France, Spain and Belgium, UTPM, Abri Plus, AZ Métal
- Communities: St Malo Agglomeration, Pontivy, Arles, Pays de Mortagne, City of Cholet
- Companies: Disney, Total

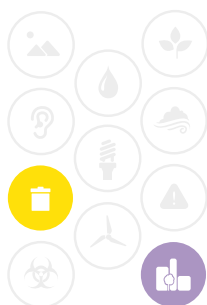
Certifications, labels or prize

Crisalide Digital 2018

Circular Challenge (Citeo) 2018

Crisalide Eco-activities 2019

Impulse Labs Label Cities and Territories Circulars (2020) Datavenue Challenge (Orange) 2021



Collection, transport and treatment of cleansing sludges - Environmental approach of urbanism - Exploitation and elimination - Sustainable urban planning - Waste management - Recycling and exploiting materials - Tipping, dumping - Treatment and sorting - Waste centres

alkios HOLDING EGILOPE (ALKIOS)

Service company , Research department - Engineering

ADDRESS

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Activities Activities

The Alkios ecosystem is defined as an ecosystem of skills at the service of the Living World, with the aim of contributing to the integration of environmental issues, and more particularly biodiversity, into the design and implementation of projects, economic models, and corporate and regional strategies.

We support our clients' projects from the design/R&D phase to implementation and long-term monitoring through our skills:

Ecological engineering:

- Expertise in natural environments (fauna, flora, habitats, wetlands, soils, etc.)
- Inventories and monitoring of species (endemic, invasive exotic, pathogenic)
- Regulatory studies (biodiversity, polluted sites and soils, water law)
- Environmental monitoring and follow-up
- Nature-based solutions NBS
- Urban and territorial resilience
- Agriculture and agri-voltaics
- Ecological restoration and rewilding
- Biodiversity indicators
- Environmental DNA

Training / awareness raising:

- Environmental regulation
- CSR
- HSE
- Nature-based solutions

Corporate Social Responsibility:

- Responsible business strategy
- Company with a mission
- Health, Safety, Environment

References

12 agencies with multi-sectoral know-how

Alkios teams are spread across the entire metropolitan territory, through 12 agencies with multi-sector know-how.

Alkios also operates regularly in Guyana, the West Indies and New Caledonia.

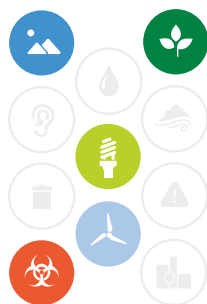
Our teams are present internationally as part of scientific expeditions.

Certifications, labels or prize

2015: VINCI Innovation Award. Centralized Activity Region "Sustainable Development" category. Partnership NATURALIA ENVIRONNEMENT / VINCI / LPO. This prize rewards the development of a vibration trap, an innovative device that improves animal detection.

2017: Labelling of the ITTECOP Programme for the DECHIR Project (Ecological Discontinuities and Chiroptera). This study project is interested in understanding what impacts linear transport infrastructures have on bat populations.

2018: Ecological Engineering Award for the operation of "Relocation of the Diana (Zerynthia polyxena) and its host plants (Aristolochia rotunda)" in the framework of the project of reinforcement of the Rhone dikes on the right bank between Beaucaire and Fourques.



Carbon Balance - Coastal and marine environment
- Earthmoving and stabilization techniques - Biodiversity and landscape
- Linings and coatings - Land usage plan environment relations - Phytoremediation
- Nature reserves
- mountains - forests - Environmental development
- Environmental approach of urbanism - Marine
- Corporate social responsibility - Natural risks - Photovoltaic solar - Renewables energies ...



I E D

Research department - Engineering

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STAFF

40 people

TURNOVER

International turnover:
6 342 715 € (2019)



Biogas - Biomass - Clean
Development Mechanisms
Corporate social
responsibility - Energy
efficiency - Energy
extraction from waste
Environmental and social
Investments - Photovoltaic
solar - Regulations - Audit
Consultancy - Studies and
Engineering - Significant
sustainable development
indicators - Small-scale
hydroelectric energy
Training or awareness
Wood energy

Activities

Independent consulting and engineering company, IED has been committed since its creation in 1988 to providing sustainable electrical services. It is involved in both studies and the construction of infrastructures: distribution networks and renewable energy production units. Historically respectful of the sustainable environment, IED is careful to provide appropriate technical solutions to the needs of populations while remaining concerned about the social and economic adequacy of the services provided locally.

Its expertise, anchored in local realities by a continuous presence in more than forty countries through subsidiaries, project offices and partners, is constantly updated through active participation in numerous international networks.

IED acts on behalf of public clients (Power companies, Ministries, Rural Electrification Agencies), international financial institutions and private investors.

References

IN FRANCE

ADEME (French Environment and Energy Management Agency) – AFD (French Development Agency) – FFEM (French Global Environment Facility) – MAE (Ministry of Foreign Affairs).

INTERNATIONALLY

European Commission – World Bank – United Nations Development Programme – GEF (Global Environment Facility) – UNIDO – Other bilateral cooperation (e.g. DANIDA, GIZ...) – Private investors and developers.



ID Partner
INDUCTION DEVELOPMENT PARTNER

ID PARTNERS

Research department - Engineering , Manufacturer - Maker

ADRESSE

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STAFF

11 personnes

TURNOVER

International turnover:
40%

Activities

ID Partner is the expert in innovative systems based on induction heating. We created our IS Process brand based on 20 years of development.

IS Process specializes in the design and manufacture of heating equipment dedicated to the chemical, cosmetic, pharmaceutical, petrochemical and food processing industry.

IS process is the solution to decarbonize your processes. It also means more efficiency, a rational use of energy, less maintenance, more flexible production and a safer and more comfortable working environment.

Skills & know-how

- Supply of turnkey solutions
- Engineering office (electrotechnics, electromagnetism, mecaflux, thermal ...)
- Integration into existing installations - installation and on-site training

Products, technologies & services

IS Process offers heating solutions for any type of process:

- in motion => heating roller, heating stirring, mobile tank ...
- continuously => heating when passing through tubes ...
- in batch => reactor, tank, melter...

IS Process has a range that can meet the entire production chain. From deconditioning of MP to packaging, including manufacturing with equipment such as drum heaters (200L), reactors, sealing solutions ...

Whether you are an operator, integrator, BE, EPC ... we have a solution to your heating problems!

References

Our achievements:

- 30% of energy saved on cosmetic melters
- Elimination of steam installation and reduction of water consumption
- Elimination of the use of coal in the artisanal forge
- Improvement of working conditions by limiting the production of heat external to the processes
- Valorization of products thanks to systems allowing on-site processing (milk pasteurizer, still, etc.)
- Limitation of cleaning products and water consumption in the CIP thanks to temperature control limiting the fouling

Our customers are both large accounts such as L'Oréal, Air Liquide, Total and SMEs such as Chalignac, Aligo Express, Ingécal.

Certifications, labels or prize

In 2021 ID Partner became the winner of AAP France Relance "Companies committed to ecological transition" and was nominated for the Pollutec Innovation Awards

We rely on our network and local partners to carry out our projects such as the Axelera competitiveness cluster, L'ENILV, UGA (University of Grenoble), INSA Toulouse, etc.



Energy efficiency - Energy
efficiency - Renewables
energies - Thermal
treatment



INDDIGO

Research department - Engineering

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STAFF

280 people

TURNOVER

International turnover:
591 570€



Carbon Balance - Corporate
social responsibility -
Environmental approach of
urbanism - Industrial ecology
Life cycle analysis, auditing
and diagnostics - Regulations
Audit - Consultancy - Studies
and Engineering

Activities

INDDIGO is a consulting and engineering firm in sustainable development.

For 30 years, INDDIGO has been supporting public and private actors towards sustainable development, from strategy to implementation, at all scales, from large territories to equipments.

Our expertise in waste, energy, construction, mobility, urban planning, maritime and river transport and biodiversity enables us to meet the needs of :

- Circular economy: reduction and recovery of waste and energy flows
- Strategy and territorial planning: master plan and economic development
- Urban planning and construction: eco-neighbourhoods, sustainable city, smart city, positive energy buildings
- Urban cleaning and transport services: waste collection and recycling, transport plan, multimodal hubs, urban cycling, etc.
- Transport: port facilities, river, sea and rail transport

INDDIGO is an innovative and independent company of conviction with more than 220 employees throughout mainland France. At INDDIGO, innovation appears in all functions of the company, from services and products, to working methods and techniques, to

organization and governance.

References

IN FRANCE

1,000 missions per year in France with 700 clients. Some recent references: ADEME (circular economy and urban planning), Occitanie Region (regional sustainable development plan), Paris Batignolles Aménagement (eco-neighbourhoods), ANRU (sustainable city and renovation), I3F (energy management), City of Paris (bio-waste and cycling), Grenoble Alpes Métropole (waste and mobility), Syndicat des Transports d'Ile de France (transport hubs), L'Oréal (transport plan), Port of Le Havre (biomass recovery).

ON THE INTERNATIONAL SCENE

- Development of a five-year (2021-2026) strategic plan for the Port Autonome of Pointe-Noire (Republic of the Congo)
- Prospective study of household and similar waste management and urban sanitation for the Zenata Eco-City (Morocco)
- Developing a 2040 vision for logistics in Tunisia for the Tunisian ministry of transport (Tunisia)
- Industrial Ecology and Industrial Symbiosis" action programme – GIZ (Morocco)
- Study energy audit SITEM Zriba site (Tunisia)
- Master plan for household waste management in Sao Paulo (Brazil)
- Reduction of plastic pollution in Champassak province (Laos)
- Organization of waste collection and treatment in Cap Haïtien (Haiti)
- Strategic development plan for the Bay of Nouadhibou (Mauritania)
- Vazhaikularam-Pondichery Eco-district (India)

Certifications, labels or prize

ISO 9001 and ISO 14001 2015 standards

OPQIBI Qualifications

Inddigo is a Qualiopi certified training organization



INERIS

Research department - Engineering

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STAFF

500 people

TURNOVER

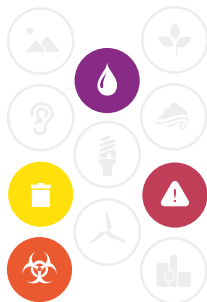
International turnover:
2,85 M€

Activities

INERIS has focused its activity on risk control for sustainable development. Part of the activity relates to accidental risks. Another part focuses on assessing the impacts of pollutants and chemical substances and clean technology. R&D is at the source of products and services, particularly in the field of air quality and forecasting, where INERIS is among the European leaders. The institute is also active in the field of water and waste.

Certifications, labels or prize

INERIS is present on the international scene with ATEX certifications. It has been developing for several years the export of forecasting tools and dimensioning of air quality monitoring networks (Chile, Senegal, Tunisia and China).



Analysis - Measurement
Monitoring - ATEX - Biogas
Biomass - CO2 collection
and storage - Design
offices for modelling of
atmospheric dispersion
Environmental Regulations
Exploitation and elimination
Gas and fumes - Gas
Pollutants - Groundwater
Industrial risks - Odorous
compounds - Particles
Prevention of industrial
risks - Regulations - Audit
Consultancy - Studies and
Engineering - Risk - Soils
remediation - Training in
preventing industrial risks
Waste management



INES

Service company

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STAFF

30 people

Activities

The training and evaluation platform of the National Solar Energy Institute supports the development of solar energy sectors internationally through the implementation of a strategy to strengthen the capacities of the actors in the sectors and audit missions.

The training and assessment platform of the National Solar Energy Institute offers innovative training services through the methods and educational systems it uses: themes, expertise, teaching methods, didactics, etc... It relies on the INES Research and Development Platform, which gives it expertise and a considerable technological lead.

References

The export of the services of the Training & Evaluation Platform started in 2012 with support programmes for the structuring of solar energy sectors in the Mediterranean region (Tunisia, Morocco and Palestine). It now extends to the entire MENA zone, sub-Saharan Africa and Europe. We are initiating steps in Asia and South America. Today, international activities represent 35% of our turnover.



Energy efficiency
Photovoltaic solar
Technical Centres
Training or awareness



INEX CIRCULAR

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CONTACT

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EFFECTIF

15 personnes

CHIFFRE D'AFFAIRES

CA international : 100 000€

Activities

The mission of iNex Circular is to develop unexploited resources: waste, land or heat.

We have developed iNex Sourcing, a digital solution used by various players in the world of renewable energy (recyclers, energy specialists, manufacturers) throughout Europe, and beyond, to obtain relevant market analyzes in 3 clicks:

- Simulate the deposits of industrial and agricultural waste to make new materials or energy (biogas, biofuel, etc.) - Detect land to install renewable energies (photovoltaic panels, anaerobic digestion units)
- Detect heat to make energy or district heating.

By supporting the reuse and recovery of waste, as well as the development of renewable energy production, iNex actively participates in the circular economy and the energy transition.

Certifications, labels or prize

iNex is one of the 1000 solutions to promote ecological transition selected by the Solar Impulse foundation ("Solar Impulse Label").

Additionally, iNex has won several awards since 2018, including:

- the 1st prize of the EIB (European Investment Bank) 2018
- 1st Pex prize for innovative eco-business 2019 (Partner: ADEME) - 1st X-Creation prize from Ecole Polytechnique

In addition, in 2019, we were able to work on our technology within the Ecole Polytechnique accelerator, and on our business impact within the Antropia ESSEC accelerator. Finally, this year (2021), we won the ADEME call for projects for companies promoting energy transition.

References

Main waste references;

Engie - Holland: Detection of 300kt of Co-Substrates for several anaerobic digestion units

Veolia - Germany: Detection of 40kt of bio-waste for an anaerobic digestion unit
Veolia - Spain: Detection of 3,748 kt of bio-waste to develop the service offer for biomass boilers and create new composting platforms GRDF - France: Detection of 40 kt of bio-waste for a methanization unit

Main solar references;

Vensolair - Rhône Valley: Industrialization of the detection of photovoltaic projects in order to solarize the Rhône Valley and reach 1GW of projects by 2030. EDF ENR - France: Detection of more than 60k potential photovoltaic projects for a marketing and optimized business.

We collect data from more than 5,000 online sources, in addition to field surveys and information from our partners. From this raw data, our predictive algorithms create statistical profiles of companies for each sector of activity. Thus, our added value is found in our data expertise, which allows us to personalize the interface for each project, in order to best meet the customer's needs.



Biodiversity and landscape
- Energy efficiency -
Environmental approach
of urbanism - Renewables
energies - Protection of
the biodiversity - Waste
management - Regulations -
Audit - Consultancy - Studies
and Engineering



Service company

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STAFF

10 people

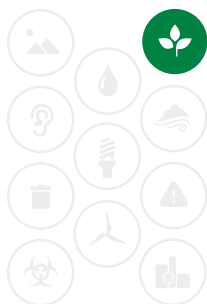
Activities

KEEWE is a financial services platform, specializing in international operations, which facilitates the ecological transition of its customers by paying them a cash back, the Planet Dividend, directed towards Climate Solutions. We also offer our customers the tools to measure and reduce their emissions.

Références

Our innovation comes from our model of encouraging our customers to initiate their low-carbon transition through their international operations. Keewe reconciles financial operations and ecological transition. In addition, Keewe invests in R&D to offer the reduction solutions best suited to the profile of each company.

Keewe specializes in international financial transactions, drawing on the experience of its founders as front desk operators in various European banks. Our mission is therefore to support companies in their international operations (exporters / importers in particular).



Environmental development



LAB

Research department - Engineering , Manufacturer - Maker

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STAFF

100 people

TURNOVER

International turnover : 80%

Activities

LAB is an innovative, enterprising and efficient company that designs and manufactures turnkey emission treatment systems. We offer the latest technologies (M.T.D.) and competitive solutions that allow our customers to increase the profitability of their facilities while drastically reducing the environmental impact.

References

LAB has more than 450 references worldwide in the following fields of application :

- Waste-to-Energy
- Biomass-to-Energy
- Sewage sludge incineration
- Hazardous, special and hospital waste
- Exhaust Gas Cleaning for the marine industry

Certifications, labels or prize

ISO9001 – ISO14001 – ISO45001 – MASE



Biomass - Combating
greenhouse gases - Energy
efficiency - Energy efficiency
Energy extraction from
waste - Gas and fumes - Gas
Pollutants - Particles - VOC



*l'ingénierie
acoustique et vibratoire
depuis 1975*

LASA

Research department - Engineering

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STAFF

30 people

Activities

Founded in 1975, the LASA design office is one of the pioneers and a leader in acoustic engineering in France. Our competences cover in particular :

Building acoustics: concert halls, theatres, recording and TV studios, office buildings, shopping centres, large hotels, sports facilities and tourist complexes, hospitals, teaching, HQE buildings, etc...

Acoustics in the environment: noise and vibration measurement campaigns and study of nuisances generated by land and air transport infrastructures, 3D acoustic modelling, static and dynamic noise mapping, optimisation of treatment solutions, environmental impact studies, etc...

Acoustics in industry: management of noise pollution from industrial sites, dimensioning of treatment solutions, worker protection, impact studies, etc...

We have a large stock of measuring equipment and prediction software, always at the cutting edge, which enables our engineers to provide our customers with effective advice, whether they are industrialists, architects, investors, local authorities, construction companies, administrations, etc...

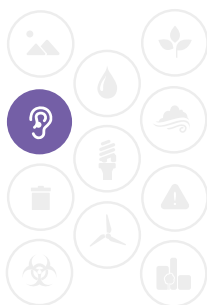
References

IN FRANCE

Montrouge Cultural and Convention Centre, Val de Marne Museum of Contemporary Art, Peugeot SA VELIZY Automobile Design Centre, BREST ARENA 5,000-seat event hall... Numerous office buildings (PB6 La Défense tower – EDF headquarters, BOUYGUES TELECOM technology park, FRANCE TV extension), hospitals (CH Sud Francilien...), LYON airport extension (T3)...

ON THE INTERNATIONAL SCENE

Acoustic impact study of the CASABLANCA tramway (MOROCCO).
Extension of ABU DHABI International Airport, New DOHA International Airport, Luxury Hotel in Libreville



Modelling, measurement
and monitoring noise zones
and acoustic environments
Regulations - Regulations
Audit - Consultancy - Studies
and Engineering - Sound
nuisances - Training or
awareness - Vibrations



LEVIATHAN DYNAMICS

Manufacturer - Maker

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STAFF

5 people

Activities

Leviathan Dynamics is a young innovative company created in December 2016 which specializes in mechanical vapor compression technologies of water under vacuum.

We have two main activities:

- 1/ We are developing a chiller technology for air conditioning and industrial cooling based on the use of water as refrigerant. This technology makes it possible to meet cooling needs efficiently (-30% on energy consumption) and sustainably (no emission of fluorinated gases which have great impact on the environment).
- 2/ We market a new range of evapo-concentrator of effluents under vacuum which allows to concentrate the pollution present in the effluents and to recover up to 95% of the volume of effluent in the form of distilled water that can be reused in industrial processes. We thus make it possible to considerably reduce the costs of treating aqueous effluents while reducing the site's water consumption.



Combating greenhouse gases technology - Energy efficiency - Management of fluids and networks
Mechanical-physical processes - Recycling and exploiting materials
Seepage water in landfill / leachates - Sewage treatment plant - Thermal treatment - Waste management - Wastewater
Water infrastructure - Water re-use and saving
Water saver



LIXO

Manufacturer - Maker , Service company

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STAFF

20 people

Activities

At Lixo, we aim at developing the circular economy by creating smart computer vision solutions for the waste management and valorisation industry.

We combine image sensors and visual recognition algorithms to allow all waste management actors (collectors, sorting centers, recyclers, etc.) to analyze their waste flows and better manage, sort and valorize them on an industrial scale.

Our ultimate goal is to make recycled raw materials more competitive in price and quality than virgin raw materials.

References

We offer B2B solutions for all players in the waste management and valorisation industry: from waste collectors to recyclers and including MRFs.

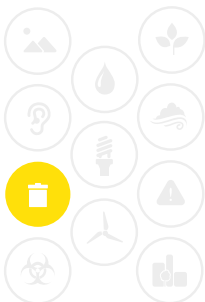
Our main references are: Citeo, Veolia, Suez, Derichebourg, Simpliciti, Triselec, Sotraval, Kerval, Valorplast, Norske Skog, Freudenberg, Wellman et ArcelorMittal.

Certifications, labels or prize

Lixo has received several distinctions:

- Member of the 2022 Green20 promotion of La Mission French Tech;
- Winner of the David avec Goliath award in 2022;
- Winner of the Re-Source challenge (Portugal) in 2022;
- Winner in 2021 and finalist in 2022 of the Circular Packaging Challenge of Ecoembes (Spain);
- Finalist of the Circular Challenge of Citeo in 2021;
- Finalist of the World Materials Forum start-up and scale-up challenge in 2021;
- Winner of the TEE and the Baudelet Prize for Innovation in 2021;
- Member of the Coq Vert community of Bpifrance;
- Holder of the Greentech Innovation label since 2021;
- etc.

Lixo also works with several research laboratories: Ecole Polytechnique, TelecomParis and Institut d'Optique de Paris.



Logistics, Collection,
Transport - Waste
management - Regulations -
Audit - Consultancy - Studies
and Engineering - Treatment
and sorting



LOW CARBON PARIS

Research department - Engineering , Service company

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STAFF

5 people

Activities

Consulting and evaluation in decarbonization strategy.

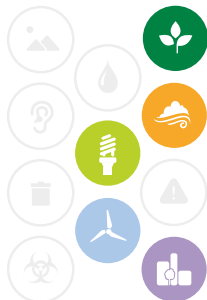
References

Our innovation is the contribution of ADEME and ABC methodologies on an international scale, particularly in China and in the Middle-East.

Certifications, labels or prize

ACT-S

ABC BC+



Air quality and odours control - Analysis - Measurement - Monitoring - Carbon Balance - Combating greenhouse gases technology - Gas and fumes - Carbon Offsetting scheme - Electric vehicles - Gas Pollutants - Energy efficiency - Eco-management - Environmental development - Combating greenhouse gases - Energy efficiency - Corporate social responsibility - Regulations - Audit - Consultancy - Studies and Engineering - Sustainable urban planning - Environmental and social Investments - Environmental Regulations - Life cycle analysis, auditing and diagnostics - Regulations - Significant sustainable development indicators



LUMI IN

Manufacturer - Maker

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STAFF

5 people

Activities

We design and assemble solar street lamps that are inherently environmentally efficient. Labelled by our Capénergies competitiveness cluster and by the Ministry of the Environment, of which ADEME was on the jury. R & D is our priority.

References

We are starting to export to Africa and expect to amplify the phenomenon in 2018.



Eco-management - Energy
efficiency - Environmental
approach of urbanism
Photovoltaic solar



MASCARA

Manufacturer - Maker

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STAFF

20 people

Activities

Mascara is specialized in innovative water treatment solutions with the use of renewable energy.

The first development phase resulted in the industrialization of OSMOSUN®, the world's first industrial product range of seawater and brackish water solar powered desalination plants, with a daily production capacity ranging from 1 to 20,000 m3 with hybridized energy sources.

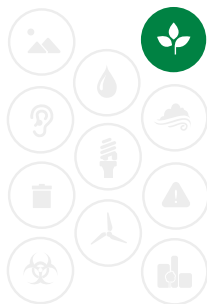
Since 2014, this major patented innovation is allowing communities, utilities, and private organizations across the world to produce fresh water at an unprecedentedly low cost with no greenhouse gas emissions.

References

25+ OSMOSUN® units are operating throughout Africa, South East Asia and the Pacific.



Solar powered brackish water treatment unit OSMOSUN® for community water production in Mozambique



Coastal and marine
environment - Marine
Membrane plant
Photovoltaic solar
Regulations - Audit
Consultancy
Studies and Engineering



Field irrigation with water produced by an OSMOSUN® in Cape Verde



MEZAGRI

Manufacturer - Maker, Research department - Engineering

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CONTACT

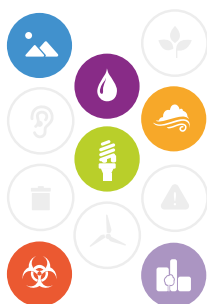
Mr. Marcel MEZY
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direction@marcelmezy.com

STAFF

30 people

TURNOVER

International turnover :
500 KE



Biogas - Biological treatment / Composting fermentation - Carbon Balance - Clean Development Mechanisms CO₂ collection and storage Coastal and marine environment - Collection, transport and treatment of cleansing sludges - Combating greenhouse gases - Combating greenhouse gases technology - Earthmoving and stabilization techniques Eco-design - Eco-design and clean technologies

Activities

Mezagri is a production and engineering company that develops and markets selections of spontaneous microorganisms, in particular bacterial and fungal complexes from plant composts, for use in agriculture and horticulture with, among other properties :

The improvement of soil quality and in particular its physical (texture, structure, increase in useful reserve), chemical (creation of humus, improvement of the clay-humus complex, increase in CEC) and biological (increase in the biodiversity of microorganisms) properties, Preserving the quality of water bodies by reducing the loss of nitrogen and phosphorus elements, which cause eutrophication of aquatic environments, through soil leaching, Reduction of soil salinity, The fixation of atmospheric nitrogen by symbiotic bacteria, as well as atmospheric CO₂ by autotrophic microorganisms, thus increasing the nitrogen and carbon content of soils, The improvement of plant nutrition (water and nutrients), thanks to bacterial and mycorrhizal symbiosis with the roots, which allows the reduction of water and fertilizer inputs, The reduction of plant diseases thanks to more disease-resistant plants, thus reducing the use of phytosanitary products, Composting and valorization of organic materials and effluents into humus: slurry, manure, sludge from sewage treatment plants and fish farms, digestates from methanization, Improvement of air quality by limiting the volatilization of nitrogen and CO₂ during the storage of organic matter, leading to a reduction in odours.

Among the products resulting from Marcel Mézy® Technologies, Bactériosol® and Bactériolit®, standardized organic amendments, are marketed by SOBAC and MEZAMONDE.

References

Improving Prairie Soil Quality, Yields and Crop Nutritional Quality – Agra-Ost Agronomic Research Centre – Belgium – 2001 to 2016.
33% reduction in field water inputs – JF Berthoumieu – Agralis, CGPA
– 30% nitrate leaching and humic acid content X 2 – EuropSols
40% reduction in soil salinity, doubling of organic matter, leaf and root development and mycorrhizae – University of Marrakech – 2006.
On composts: 50% reduction in dry matter losses and doubling of fixed nitrogen – AgroParisTech 2010 trial
Manure: 40% reduction in dry matter losses and better agronomic valorization – INRA – France – 2002.
Methanisation: production of Methane X 3 – Biocritt
– 82% of ammonia losses (odours) in livestock buildings and 39% increase in organic nitrogen in manure, available for crops (ITAVI, Institut Technique de l'Aviculture) – France – 2007.
Cost in CO₂ equivalent to manufacture 2.3 times less than that of a nitrogen fertilizer for the same quantity manufactured – AgroParisTech – Grignon positive energy – 2006.
+ 14% margin and autonomy of farms – Pr Mazoyer – AgroParisTech

Certifications, labels or prize

- Production of organic soil improves standardized NF U44-051, usable in organic agriculture according to the regulation (EC) N°834/2007 of organic agriculture and according to the NOP (US National Organic Program).
- INEL d'or 2013 for our official recognition by the DREAL-Ministries of the Environment and Agriculture-as a technology for transforming livestock effluents into standardized organic amendments.
- Coup de coeur 2016 Occitanie Region SME Trophies Award for Moving from RMC. Member of the «4 for 1000» Initiative.



MICR'EAU

Research department - Engineering, Service company

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STAFF

17 people

TURNOVER

International turnover :
1,5M €

Activities

The Micr'Eau group is present on 2 continents, Europe and South America, in the treatment of drinking water, wastewater and biogas (flares and gasometers). The group has a portfolio of brands and innovative technologies, particularly in the arsenic field where it is a leader. He works in the industrial sectors (agri-food, mining, oil and gas) as well as for communities and water concessionaires.

References

The group micreau has a lot of references in the field of drinking water with removal of arsenic (100 references in France, Chile, and other countries in EUROPE and LATIN AMERICA ; capital city like Santiago de Chile has been equipped by Micreau filter media and some of their drinking water units have been designed by Micreau engineers

on the other strong focus biogas plants (flares and gasometers) Micreau has also equipped large waste water treatment plants like

the city of Paris with SIAAP Valenton (4 million inhabitants units with 4 gasometers from Sattler) and also in Acheres (8 million inhabitant Waste water treatment plant with 6 flares from Hofstetter)

- the city of Bordeaux : with 4 gasometers of Sattler
- the city of Toulouse Ginestous : gasometer and flare operated now by Suez and constructed by Veolia
- the city of Santiago de Chile with aguas andinas for the plants of la farfana (4 million inhabitants), Talagante (0.5 million inhabitants), or Mapocho Trebal (4 million inhabitants)
- the capital city of Buenos Aires for AySA public operator for the plant near Ezeiza (1 million inhabitants)
- the city of Chihuahua in Mexico operated by Suez

but also for the solid waste biogas projects of Veolia in Chile Rancagua or the Calais, albi and Marseille projects for Urbaser for gasometers and flares.

Certifications, labels or prize

We are certified by French government and its public institutions like BPI France or Ademe international as well as members of clusters like Axelera, center of competitiveness for solid waste, chemicals and recycling units



Intervention domains

Biogas - Biochemical processes - Chemical-physical processes
- Renewables energies
- Mechanical-physical processes - Water infrastructure





MORPHOSIS

Service company

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STAFF

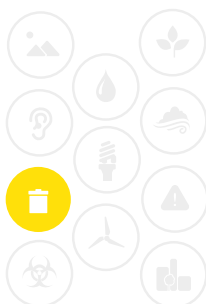
20 people

Activities

Our business is to extract and refine precious metals contained in waste electrical and electronic equipment (WEEE). Once this transformation has been carried out, the 99.99% pure metal can be re-injected into our customers' production process.

Morphosis has set up a process unique in France for the extraction of precious metals from various types of waste. R & D is the basis of our development. Our desire is to constantly improve our extraction processes, to always seek to extract and refine more of the fine metals contained in this waste.

Morphosis is developing very strongly internationally. We have worked with Sonatel in several African countries on several WEEE recycling projects. We have also worked with Orange and Orange Business Services in more than 170 countries. Morphosis can ensure the execution of all the services, from the grouping on site, through the total organization of the transport, to the extraction of the metals contained in the WEEE.



Recycling and exploiting
materials - Thermal
treatment - Treatment
and sorting



NALDEO

Research department - Engineering

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STAFF

80 people



Bioenergies - Biogas
Biomass CO2 collection and storage - CCUS - Combating greenhouse gases
technology - Decarbonation
Eco-management - Energy efficiency - Environmental Regulations Fuel cells
Geothermal energy - Green chemistry Hydrogen
Industrial ecology - IT and software Marine - Methane generation Photovoltaic solar - Regulations - Ecological balances and water treatment plants

Activities

Naldeo is an independent company which aims at supporting its clients in the whole climate transition challenge. Our experts, engineers and consultants are committed to imagining and implementing green turnkey solutions.

We are convinced that better use of water, energy and waste resources, as well as data analytics through technology and digital to reach carbon neutrality, is the only way to achieve climate impact.

With more than 1 000 projects per year for industry & territories, our employees develop

technical excellence to serve climate..

OUR KEY BUSINESSES :

We work on turnkey projects for territories and industries :

- water transition
- energy transition
- circular economy
- environment & risks
- sustainable city

We support them on the projects during their whole life cycle :

- due diligence
- consulting services
- technical & environmental studies
- engineering services
- data analytics supervision
- innovation & digital

We aspire to be the leader on the following topics :

- renewable energy
- water administration
- circular economy
- energy efficiency
- infrastructure & assets
- modelling
- bioenergies
- smart grid
- environment & biodiversity
- sustainable territories
- metrology

References

IN FRANCE

Cities, towns & territories :

- Besançon, Bordeaux, Dijon, Lille, Lyon, Marseille, Aix-en-Provence, Montpellier, Nancy, Nantes, Nice, Orléans, Paris, Perpignan, Poitiers, Rennes, Saint-Etienne, Toulouse, Tours, SEDIF, SIAAP, SYCTOM, etc.
- Communautés de communes, Syndicats d'Eau, d'Assainissement, d'Energie, de Gestion d'ordures ménagères, Sociétés d'Aménagement, etc.

Industries, banks & funds :

- Air Liquide, Albioma, Arkema, CEA, EDF, Engie, ESID, Firmenich, Idex, Imerys, Michelin, Orano, Sanofi, SAUR, SNCF, Solvay, Suez, Total, Véolia, etc.
- Amundi, BPCE, BPI, Caisse des Dépôts, Crédit Agricole, Demeter, DIF, John Laing, Meridiam, SPDG, etc

IN OTHER COUNTRIES

- Process industries : Sonatrach, Sorfert, BP Exploration (Algérie), RSW (Canada), Groupe Chimique Tunisien
- Institutions : ANME (Agence Nationale de Maîtrise de l'Energie – Tunisia), Ministère de l'Environnement Algérien, GTZ (Afrique du Nord), Ministère de l'Energie, des Mines et Carrières (Burkina Faso), Commission Européenne, MASEN (Maroc), SKA Organization et SARAO (South African Radio Astronomy Observatory), Masdar (Abu Dhabi), World Bank (WB) et IDA (International Water Association), Agence française de Développement (AFD), European Bank for Reconstruction and Development (EBRD), European Environment Agency (EEA), European Investment Bank (EIB), Millennium Challenge Account (MCA), Danube River Program (IAWD), African Development Bank (AfDB), Burkina Faso's National Water and Sanitation Utility (ONEA), Djibouti's Social Development Agency (ADDS), Kenya's Ministry of Housing, Morocco's National Water Supply Company (ONEP/ONE), Zimbabwe's Ministry of Finance, Kenyan Market Trust, Nam Papa Lao – Lao PDR, Municipality of Tashkent – Uzbekistan, Hanoi Water Company – Vietnam, Banque Asiatique de Développement, etc.



NEOLITHE

Équipementier - Fabricant

ADDRESS

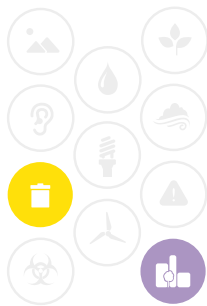
6 Route de Saint Laurent
49290 - Chalonnes-sur-Loire
France
www.neolithe.fr

CONTACT

M. Baptiste JEAN
baptiste.jean@neolithe.fr

STAFF

120 people



Carbon Balance - Carbon Offsetting scheme - Clean Development Mechanisms - Environmental approach of urbanism - Combating greenhouse gases - Exploitation and elimination - Eco-design and clean technologies - Eco-materials, Eco-design and Eco-products, Alternative raw materials - Sustainable urban planning - Waste management - Recycling and exploiting materials - Industrial ecology - Treatment and sorting - Waste centres

Activities

Néolithe is developing an innovative industrial process for transforming non-recyclable (non inert & non dangerous) waste into mineral aggregates, which can be used in road sub-bases and concrete. It thus creates the 3rd way of recovering this waste: fossilization. This process reduces greenhouse gas emissions from waste treatment by 50% to 80%. In France, more than 30million tons of waste per year could be treated by fossilization, which would allow a 5% reduction in French carbon emissions, all industries combined.

Références

Néolithe is an innovative company in the treatment of non-recyclable waste, currently buried or incinerated. Our innovation is based on a physical and chemical process thanks to the addition of a binder, produced only by Néolithe and protected by industrial secrecy. Néolithe is developing a process to transform DNIND, by recycling them into aggregates suitable for construction. These aggregates are called Anthropicites and the waste processing unit the Fossilizer. The Fossilizer is a set of machines processing ultimate waste in order to make powder and then mix it with our binder to make waste aggregates.

Certifications, labels ou prix

Neolith aggregates, known as Anthropicite, have obtained approval from the Center Scientifique et Technique du Bâtiment (CSTB) for use in concrete.

Anthropicite is certified by the CSTB for use in non-structural concrete with a substitution rate of 10%. A first project has already been carried out with Anthropicite. It can also be used as a road underlayment and in structural concrete.

The use in road underlay is already the subject of a certification process with CEREMA. The waste transformation process has been patented. Néolithe has also won a few prizes such as the Pépite prize, the jury prize for Vivatech's Next Startupper Challenge or the Cleantech Open France competition. Néolithe is also the winner of the i-Nov 2020 innovation competition, in addition to being part of the French Green Tech 20.



NKE WATTECO

Manufacturer - Maker

ADDRESS

6 Rue Gutenberg,
ZI Kerandre,
56700 Hennebont,
France
www.nke-watteco.com

CONTACT

Mr. Jean Claude LE BLEIS
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jclebleis@nke.fr

STAFF

34 people

TURNOVER

International turnover :
450K €

Activities

NKE Watteco is a manufacturer of sensors and instruments for measuring the consumption of all kind of energies in buildings and cities. Furthermore, we provide devices to control and survey away systems in real time by using Lorawan and Sigfox protocols. 32 employees from which 20 engineers are working in the company.

Références

Supplier of Veolia, Dalkia, French railways SNCF ...

Certifications, labels or price

ISO 9001



Environmental approach
of urbanism - Mechanical-
physical processes
Wastewater - Water saver



NOVEA ENERGIES GROUPE RAGNI

Manufacturer - Maker

ADDRESS

3 Rue Joseph Fourier
49070 - Beaucouzé
France
www.novea-energies.com

CONTACT

M. Paul BERTHOMIEU
Tél. : +33(0)4 92 27 84 39
alexandre.gelle@ragni.com

STAFF

30 personnes

TURNOVER

International turnover :
25M €

Activities

Novéa is the No. 1 player and pioneer in the design and manufacture of autonomous solar street lighting systems. In 2015, Novéa combined its skills with those of Ragni, a French manufacturer whose know-how in the design and production of public lighting fixtures is proven in France and abroad. Combining the control of solar energy with the reliability of the luminaires makes it possible to offer our customers the most efficient and reliable range of solar lampposts on the market. Novea is ISO 9001 and 14001 certified.

Novéa is ISO 9001 and 14001 certified. The Ragni Group has been a member of the United Nations Global Compact since 2018, ambassador of the Alpes-Maritimes of the French Fab and the Coq Vert, member of multiple organizations active in the regional territory (presidency UIMM 06, administrator UPE06) and national and labeled Heritage Company, the Ragni Group continues to reaffirm its deep commitment to CSR, innovation and French know-how.

References

The deployment of 50,000 solar streetlights in Senegal on behalf of the National Agency for Renewable Energies (2022) ANER has initiated a major project to install 50,000 streetlights, funded by the State of Senegal to follow up on the directives of His Excellency Mr. Macky SALL, President of the Republic. This project, which focuses on the development of renewable energies, will allow the generalization of the use of solar public lighting throughout the national territory. The implementation of this first phase started in June 2019 and will eventually cover 145 municipalities. It will thus make it possible to: – Reduce the electricity bills of local authorities through solar and autonomous energy solutions; – Improve security in municipalities through intelligent lighting; – Contribute to the development of nocturnal commercial activities; – Participate in improving the security of supply of energy products; – Contribute to the reduction of greenhouse gas emissions; – Reduce fossil fuel imports by diversifying the sources of energy production.

Certifications, labels or price



Energy efficiency -
Environmental approach
of urbanism - Energy
efficiency - Photovoltaic
solar - Renewables energies
- Regulations - Audit -
Consultancy - Studies and
Engineering - Regulations
- Audit - Consultancy -
Studies and Engineering
- Sustainable urban planning
- Training or awareness



NUMTECH

Research department - Engineering

ADDRESS

6, Allée Alan Turing,
CS 60242,
63178 Aubière Cedex,
France
www.numtech.fr

CONTACT

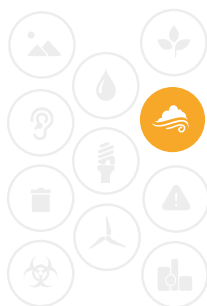
Mr. Jamal YAHIA
Phone: +33 (0)4 73 28 75 95
jamal.yahia@numtech.fr

STAFF

15 people

TURNOVER

International turnover :
169 Ke



Gas and fumes

Gas Pollutants - Indoor air

quality - IT and software

Odorous compounds

Particles - Regulations

Audit - Consultancy - Studies

and Engineering - Training or

awareness - VOC

Activities

Activity:

With more than twenty years of experience resulting in the completion of several hundred studies with recognized customers, NUMTECH is an expert company which is now positioned as a leader in the field of the environment, offering a wide range of solutions and tools to improve the environmental footprint of a structure.

Skills and know-how:

- Environmental regulatory studies,
- Digital tools for infrastructure management,
- Support for the reduction of the environmental footprint.

Products, technologies & services:

- Atmospheric dispersion modeling of industrial pollutants and assessment of the impact on the state of air quality (including ICPE studies and hazard studies),
- Management of "odor" issues,
- Assessment of the impact of transport infrastructure projects on air quality and health,
- Modeling of the influence of urban development projects on the comfort of users (ventilation, sunshine, air quality and health),
- Indoor air quality modeling,
- Deployment of digital tools,
- Bilan Carbone®, Life Cycle Analysis, Low carbon strategy, Global improvement strategy (ERC), Extra-financial valuation (DPEF), Environmental footprint diagnostics.

References

IN FRANCE

- major industrial companies: TOTAL GROUP, AREVA, E.D.F, SUEZ GROUP, MICHELIN GROUP, TECHNIP, SOLVAY GROUP, VEOLIA GROUP, ALBIOMA...
- public and private consulting firms: APAVE, BURGEAP, CEREMA (Centre d'Etudes et d'Expertise sur les Risques, l'Environnement, la Mobilité et l'Aménagement – Ministry of Public Works), EGIS, ARCADIS...
- air quality management and monitoring bodies : AIR BREIZH, AIR PAYS DE LA LOIRE, ATMO BOURGOGNE-FRANCHE-COMTÉ, ATMO OCCITANIE, ATMO NOUVELLE-AQUITAINE, AIRPARIF, ATMO GRAND EST, ATMO AUVERGNE-RHÔNE-ALPES, ATMOSUD...
- National institutes and agencies: ANSES (National Agency for Food, Environmental and Occupational Health Safety), Regional Directorate for Youth and Sports and Social Cohesion (DRJSCS), ARS (Regional Health Agency), INERIS (National Institute for Environment and Industrial Risks and Safety), Public Health France...
- research organisations: public such as the CEA (Commissariat à l'énergie atomique et aux énergies alternatives), ADEME (French Environment and Energy Management Agency), CNRS-INSU (French National Centre for Scientific Research) or private organisations such as CReS (TOTAL GROUP Research Centre), CIRSEE (SUEZ ENVIRONNEMENT research centre), etc.

ABROAD

EDF, SUEZ GROUP, TOTAL, MICHELIN, TECHNIP, National Directorate of Meteorology of Morocco, OCP GROUP, CITET-Tunisia, National Agency of Environment Protection of Tunisia, National Institute of Meteorology and Geophysics (INAMET-Angola), LPEE, Dubai Municipality, the Department of the Environment and Classified Establishments in Senegal, etc.



OCTOPUS LAB

Research department - Engineering , Service company

ADDRESS

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59110 - LA MADELEINE
France
www.octopuslab.fr

CONTACT

Tél. : +33 (0)3 74 09 63 39
marion@octopuslab.fr

STAFF

18 people

Activities

Octopus Lab develops predictive indoor air quality software solutions to build, renovate and operate healthy buildings:

– INDALO®, indoor air quality modeling software, intended for design offices. This assists in the best choices of materials and ventilation to guarantee future users good air quality.

– INDALO® Supervision which reconciles indoor air quality and energy savings. This solution forecasts the indoor air quality over the next 24 hours in the building. It anticipates and avoids air pollution by intelligently managing ventilation systems while reducing energy consumption. It is deployed in all types of buildings: healthcare establishments, tertiary education & office, industry, etc.

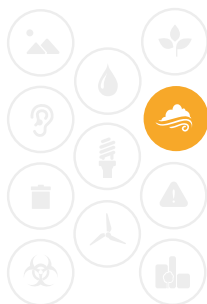
References

In France, we have contracts with:

- communities: La Rochelle, Saint-Ouen, Saint-Quentin, Wattignies, Thumeries, La Madeleine, Croix...
- property companies / managers / facility managers for offices: Covivio, Advenis, OFI Pierre, etc.
- players in construction and real estate (for offices): Bouygues, Dalkia Smart Building...

Certifications, labels or price

- Coup de cœur "Trophées bâtiment santé" 2017
- Lauréat 2019 Construction Tech Winner 2019
- Prix de l'innovation dans la catégorie "Environnement & énergie" du Salon des Maires SMCL 2019
- Lauréat Cleantech Open France 2020
- Lauréat Innovation & Prévention 2020
- Lauréat AIREKA 2020
- Lauréat Air Quality Challenge 2020
- Finaliste EDF Pulse 2020
- Lauréat Intel, Salon Viva Technology 2021
- Finaliste ABB Electrification Startup Challenge 2021
- Finaliste PROPTECH STARTUP & SCALE-UP EUROPE AWARDS 2021
- Finaliste Urban Tech Challengers 2022
- Construction Tech Winner 2019
- Innovation award in the "Environment & energy" category of the local authorities fair
- Cleantech Open France winner 2020
- Innovation & Prevention winner 2020
- AIREKA winner 2020
- Air Quality Challenge winner 2020
- Finalist EDF Pulse 2020
- Intel Winner, Viva Technology Show 2021
- Finalist ABB Electrification Startup Challenge 2021
- Finalist PROPTECH STARTUP & SCALE-UP EUROPE AWARDS 2021
- Urban Tech Challengers finalist 2022



Air quality and odours control - Analysis - Measurement - Monitoring - Gas Pollutants - Indoor air quality - IT and software - Particles - Regulations - Audit - Consultancy - Studies and Engineering - VOC



ODYSSEE ENVIRONNEMENT

Research department - Engineering

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CONTACT

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STAFF

72 people

Activities

Created in 2006, ODYSSEE Environnement puts its ethical approach to water resources at the service of industrial performance.

ODYSSEE is specialized in the sustainable management of process water, less energy consuming and more respectful of the environment. The firm rethinks water treatment in a global way, to reduce the water footprint of industry players.

ODYSSEE Environnement acts for an ethical performance of water with three complementary activities:

- Consulting and support for manufacturers and operators (water treatment, equipment, maintenance).
- Research and development for ever more hydro-ethical solutions. All ODYSSEE solutions are 100% manufactured in France, in Requeil (72).
- Export and distribution of ODYSSEE water treatment solutions, with the ODYSSEE Team network.

References

IN FRANCE

ENGIE, DALKIA, RENAULT, PEUGEOT
+ sectors : Agro-food / Chemicals/ Cosmetics/
Heavy industry/ Tertiary/ Collective.

INTERNATIONALLY

Resellers in Europe, Africa, United States, Canada and Mexico.

Certifications, labels or prize

- MASE
- AFAQ ISO 9001
- Solar Impulse, efficient solution for ODYLIFE, the first bio-based anti-scaling actives
- French Fab
- Act for Nature / Office Français de la Biodiversité, «Company committed to nature»
- Coq vert (French Fab)

Awards for ODYLIFE :

- *Lauréat initiative PME 2016*
- *Grand prix 2018 innovation dans les technologies et les modèles économiques* – Ministère de la transition Ecologique et Solidaire and ADEME
- Prix « Industrie verte » – *Nantes Industry Awards 2020*



Biochemical processes
Management of fluids and
networks - Regulations
Audit - Consultancy - Studies
and Engineering - Sewage,
industrial, cleansing and
dredging sludge
Wastewater



ORAXYS

Service company

ADDRESS

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CONTACT

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gregory.fayolle@oraxys.com

STAFF

5 people

Activities

Oraxys is specialized in financing **growth capital** and **buyout activities** for companies that develop and market products or services that have a **positive impact on the environment, preserving resources or contributing to improve health and well-being**.

The **mission** of Oraxys is to partner with leadership teams of European companies focused on sustainability, **to accelerate their development and profitable growth**.

Oraxys invests amounts between EUR 3 million and EUR 50 million, as a minority or a majority shareholder depending on the typology of partnership that is built.

We have a proven Business Model based on **added value**. The Strategic Partners are **former managing directors of industrial groups** or seasoned entrepreneurs. They are recognized experts in their industry and financially invested in the Funds. They work with the Private Equity Team members in industrial and financial duo teams at each stage. Moreover, they **bring business experiences and international networks to the leadership teams of our portfolio companies**: Europe, North America, Middle East, South-East Asia, India, China.

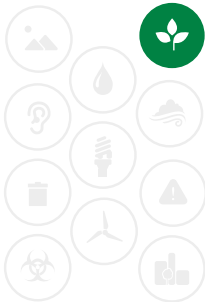
References

In France:

- Orege, equipment to treat sludge in the oil&gas and chemical industries: company developed and listed on the Euronext stock exchange
- Phode, natural ingredients et feed additives for animal nutrition: company developed and stake sold the management with an LBO
- Leosphere, lidars to optimise performance of on-shore and off-shore wind farms: company developed and sold to the Worldwide leader of the sector Vaisala, Finland
- Etc

In Europe:

- Aremis Group: consulting to optimise space and energy of buildings: company developed and stake sold to the management
- Lasea, laser robots laser to eco-manufacture: company developed and stake sold to the management
- Etc



Environmental development



PELLENC ST

Manufacturer - Maker

ADDRESS

125 Rue François Gernelle,
84120 Pertuis,
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Phone: +33 (0)4 90 09 47 90
www.pellencst.com

CONTACT

Mrs. Florence CHAMP
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f.champ@pellencst.com

STAFF

250 people

TURNOVER

International turnover :
52M€

Activities

Pellenc ST designs, produces, and sells intelligent sorting equipment and connected services for the waste treatment and recycling industry.

Based on patented "Made in France" technologies, Pellenc ST products are robust and easy to use. The company is constantly developing its quality methods and is ISO 14001, ISO 18001, and ISO 9001 certified.

With more than 1,800 machines installed worldwide, Pellenc ST has a network of technicians specially dedicated to customer satisfaction. Our sales teams and customer service provide assistance and expertise to all our partners in order to optimize their sorting lines. Our after-sales service responds 24 hours a day, 7 days a week, and travels throughout the world to guarantee a high level of performance and availability.

References

Pellenc ST machines are installed in more than 40 countries.

IN FRANCE

Paprec – Veolia – Suez – Groupe Tiru – Environnement 48 – Derichebourg – Semardel

A L'INTERNATIONAL

We also work internationally with major groups such as: Veolia – Suez – Urbaser – Shanks – Van Gansewinkel

UK : Shanks – Veolia – Viridor – Impetus – Suez – Cory- New Earth Solutions – Biffa

Italy: Ecotecnica- Akron – Ambiente – Nappi

Spain : Salto Del Negro – Urbaser – Ecoparc Banales – FCC

Japan: Re-Pallett – FPCO – TKS

Brésil : Ecourbis – Loga

Mexique : Petstar

Turquie : Cevre PET – Apeks

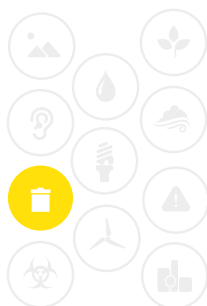
Pologne : Veolia Jaroszw -WodKan Biala Podlaska

Canada : Via – Gaudreau

USA : Titus – Wellman Recycling – CPR – Clear Path Recycling – Recology

Certifications, labels or prize

- International Development" Trophy, DCF- Ubifrance, 2007
- SME Employment Champion – Let's Get Moving Trophy, 2010
- INPI Innovation Trophy, 2010
- Innovation Trophy "L'économie du Vaucluse", 2012
- Henri Fabre Prize in 2010 awarded to Antoine Bourely, our R&D Director
- Eco-Business Export Trophy, 2014
- Ecofolio Prize, 2014
- « PME Remarquable » innovation Award, Ministry of Environment and Ademe Agency, 2016
- « Business Leader of the Year » for Provence region given to Jean Henin CEO, Ernst & Young, 2017
- Trophy La Provence "Hub Éco Vaucluse" given to Jean Henin, President, 2018
- 2021 : Pellenc ST awarded the French Government's I-nov Prize for its PICQ (Performance by Connected Intelligence for Quality) project on the sorting centers of the future «4.0»
- 2022 : IndustriA award – West Data Festival on Artificial Intelligence
- 2022 : Pellenc ST Innovation center Opening
- Pellenc ST Innovation Center opening



Recycling and exploiting
materials - Treatment and
sorting



POWERTECH SYSTEMS

Manufacturer - Maker

ADDRESS

ZAC Charles Renard
6 Bld Georges-Marie
Guynemer,
Bâtiment A1
78210 Saint-Cyr L'École
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Phone: +33 (0)1 85 40 09 70
www.powertechsystems.eu

CONTACT

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olivier@powertechsystems.eu

STAFF

12 people

TURNOVER

International turnover:
1,2 M€

Activities

PowerTech Systems is positioned in the market for Lithium-Ion storage solutions. We design and market a range of power batteries (> 1KW) covering the widest needs (vehicle traction, stationary storage, Off-Grid, etc.).

With more than 15 years of experience in this field, we have acquired the expertise and know-how essential to satisfy our customers.

Our battery systems are designed to be innovative, scalable, compact, light and reliable.

This allows us to be constantly at the forefront of technology. The batteries we produce are designed to meet the new challenges posed by the storage of renewable energy.



Energy efficiency -
Renewables energies

PowerUp
Manage & extend batteries life

POWERUP

Service company

ADDRESS

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75009 - Paris
France
www.powerup-technology.com

CONTACT

Tél. : +33(0) 1 53 62 26 64
contact@powerup-technology.com

STAFF

30 people

Activities

Founded in 2017, PowerUp develops advanced battery analytics solutions that ensure a safe and reliable usage of batteries. By considering their actual use, our advanced algorithms and software allow to prevent critical issues, as well as maximize batteries performance and lifetime. These solutions support all kinds of lithium-ion batteries applications such as Energy Storage Systems, Electric Mobility or Backup Applications.

This technology is based on more than 15 years of research at CEA-LITEN and leverage more than 10 patents that related to battery degradation and ageing mechanisms diagnosis.

Certifications, labels or price

Solar Impulse Foundation – 2021

Greentech Innovation – French Ministry of Ecological Transition – 2022



Energy efficiency



POWIDIAN

Manufacturer - Maker, Research department - Engineering

ADDRESS

20 Rue Marie de Lorraine,
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France
www.powidian.com

CONTACT

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BOUCHER
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jean-emmanuel.boucher@powidian.com

STAFF

16 people

TURNOVER

International turnover :
250 Ke

Activities

PowiDian is a start-up spun off from Airbus Defence & Space.

With 10 M€ invested in 4 years of R&D, mastering patented breakthrough technologies, we design autonomous electricity production stations, from 100 W to 500 kW, using all types of renewable energies and implementing, with great software intelligence, innovative storage (lithium-ion and/or hydrogen batteries).

Designed for isolated sites and equipment, critical infrastructures or eco-constructions, our energy stations make it possible to supply reliable and non-polluting electricity at any time, anywhere.

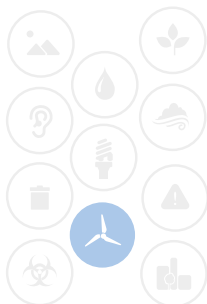
In a year and a half of existence, PowiDian, awarded with the COP 21 trophy, already has prestigious customers such as EDF, the Vanoise National Park, the French Gendarmerie, the French Armament General Directorate, the French Air Force, Galéo promotion (positive energy buildings).

References

- RENESTA: European programme for the development of a demonstrator for an autonomous energy production and management station.
- Autonomous energy station of the refuge du Palet, Vanoise National Park.
- Energy generation of the "Convoy Protection" system of Airbus Defence & Space".
- Energy systems for the autonomous advanced military weather stations of MOSS (a 50/50 subsidiary between Thales and Airbus Defence & Space).
- Autonomous hydrogen storage energy station in the village of Mafate, Reunion Island, for EDF.
- Energy stations for the telecom relays of the French Gendarmerie Nationale (National Gendarmerie)
- Autonomous energy station for positive energy tertiary buildings (BEPOS).

Certifications, labels or price

- Best AIRBUS 2014 spin-off
- S2e2 smart electricity cluster competitiveness cluster label
- Innovation Award of the 2015 Mayors and Local Authorities Exhibition
- COP 21 Trophy



Fuel cells
Photovoltaic solar
Regulations - Audit
Consultancy - Studies
and Engineering

QISTA QISTA TECHNO BAM

Manufacturer - Maker

ADDRESS

130 Avenue Louis Philibert,
13560 SENAS,
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CONTACT

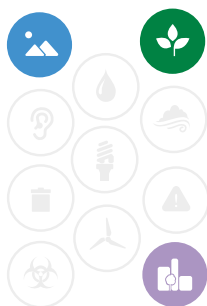
Mr. Pierre BELLAGAMBI
Phone: +33 (0)4 84 47 02 80
p.bellagambi@qista.com

Activities

QISTA has developed an effective mosquito control product that does not use any products that are toxic to humans and their environment.

QISTA has a high degree of innovation as evidenced by the two awards won in 2018 at the CES in Las Vegas. R&D plays a key role in their activity. This allows them to be the market leader even today.

QISTA collaborates with certain foreign public authorities in Canada and Spain. They wish to continue their international expansion.



Biodiversity and
landscape - Clean
Development
Mechanisms
Environmental
approach of urbanism
Environmental
development
Prevention of natural
risks - Protection
of the biodiversity
Regulations - Audit
Consultancy - Studies
and Engineering
Sustainable urban
planning - Training or
awareness



QUERCY REFRIGERATION

Manufacturer - Maker, Research department - Engineering,
Service company

ADDRESS

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ZI Tuc
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France
www.depannage-frigorifique.fr

CONTACT

Tél. : +33 (0)5 63 32 58 57
quercyref@orange.fr

STAFF

40 people

Activities

Quercy Réfrigération, refrigeration engineer for 8 years, was created in 2007 at the initiative of Benoit Duparc in Moissac in Tarn-et-Garonne (82). The latter, the only technician at the start, was able to quickly change the structure, seeing the number of his customers grow from year to year. The company now has nearly 10 employees, a warehouse in Montauban and an agency with a design office and after-sales service management in Moissac. It is positioned as a benchmark in terms of industrial refrigeration in Midi-Pyrénées.



Eco-design - Eco-
management - Energy
efficiency - Environmental
and social Investments
Industrial ecology
Regulations - Audit
Consultancy - Studies and
Engineering



R&O DEPOLLUTION

Manufacturer - Maker

ADDRESS

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www.r-o-equipment.com

CONTACT

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f.helaine@r-o-equipment.com
r-o-equipment.com

STAFF

11 people

TURNOVER

International turnover:
950 000€

Activities

For more than 30 years, R&O Dépollution has been designing quality equipment adapted to the needs of domestic and industrial wastewater treatment plants. R&O Dépollution's expertise is based on the study, manufacturing control and implementation of electromechanical water treatment equipment.

R&O Dépollution is the inventor of the patented AEROFLO® degreasing turbines, leader on this market and has more than 12,000 references in France and throughout the world. R&O Dépollution also has in its range a wide range of equipment for the pre-treatment, biological treatment and treatment of sludge from waste water, such as:

- AEROFLO® degreasing turbine;
- Solar sludge dryer, soleReO, Thermaer aerobic sludge digester;
- Hydraulic press and screw compactor (compaction of screenings and screening rejects);
- Rotary screen with internal and external feeding, vertical automatic screens;
- Sand classifier and conveying screw;
- FLOTTAFLO® float and degreaser.

References

IN FRANCE

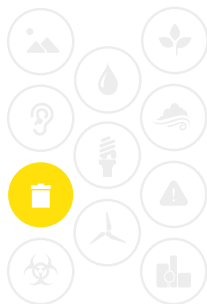
Suez (Degrémont, Lyonnaise des eaux, France assainissement, Ondéo ...), Veolia (Otv, Veolia water, Veolia water STI ...), Vinci environnement, Sogea, Aqualter, Stereau, Saur, Nantaise des eaux, ITT ...

A L'INTERNATIONAL

Suez, Degrémont, Veolia, Snc Lavallin, Melchers, Drace, Ohl Inima, Acciona Agua, Befesa Agua, Comsa, Urbaser Socamex, Ferrovial Cadagua...

Certifications, labels or prize

Certification ISO 9001/2008



Biochemical processes

Chemical-physical

processes - Fermenter,

Digester, Methanizer

Mechanical-physical

processes - Regulations

Audit - Consultancy - Studies

and Engineering - Sewage,

industrial, cleansing and

dredging sludge

Wastewater



SAFRA BUSINOVA

Manufacturer - Maker

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www.businova.com

CONTACT

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STAFF

135 people

Activities

With its roots in the SAFRA Group's historical business lines, SAFRA is now a key player in passenger transport equipment at the national level. With 65 years of experience in this field, our SME has always been able to innovate, diversify, discover new markets, in order to acquire and develop new competences. Our two complementary activities perfectly meet the needs of mobility transport authorities, whether in terms of renewing their fleets or maintaining their fleet.

SAFRA Constructeur specializes in the design, manufacture and marketing of electric powered buses under the Businova® brand name. Developed in very low and zero emission, as well as in three dimensions, this vehicle is entirely designed, manufactured and marketed by the SAFRA teams.

SAFRA Rénovation specializes in the provision of equipment, fittings, renovations and heavy maintenance. Our maintenance and renovation activities apply to all types of transport equipment: buses, trams, metros, VAL, railway cars and funiculars.

References

- Le Mans – SETRAM – 1 hydrogen bus
- Versailles – BE GREEN / Transdev – 5 hydrogen buses
- Artois-Gohelle – TADAO – 6 hydrogen buses
- Castres-Mazamet – Libellus – 3 Plug-in Hybrid Electric Bus
- Peribus – 2 Plug-in Hybrid Electric Bus
- Marseille – RTM – 1 plug-in hybrid electric bus
- Albi Albibus – 1 Plug-in Hybrid Electric Bus
- Gaillac – La Navette – 1 plug-in hybrid electric bus

Coming soon: 5 hydrogen buses for HYPORT (Toulouse) and 5 hydrogen buses for AUXERRE

Certifications, labels or prize

- In 2020, SAFRA was audited for its CSR approach by Ecovadis, and won the Bronze Medal, with a score of 53 points.
- Awarded in June 2017 at the Grand Prix des Bonnes Nouvelles des Territoires (MMA Foundation)
- Innovation Trophy in June 2016 in the «energy, environment» category, at the European Mobility Fair held in Paris.
- Pilot of an ADEME consortium as part of a Future Investment Project (PIA)
- Signatory to the European Clean Bus deployment initiative
- Signatory of the Hydrogen VMMB in May 2019 Trophée Bus & Car 2019 – Innovation Award



Eco-design - Eco-design and clean technologies - Electric vehicles - Energy efficiency Environmental approach of urbanism - Fuel cells Industrial ecology Mobility and urban transport Regulations - Audit Consultancy - Studies and Engineerings





SAGE ENGINEERING

Research department - Engineering

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STAFF

15 people

Activities

SAGE ENGINEERING is a consulting firm, specializing in project management assistance to all public institutions and local authorities in France and abroad.

Their know-how has been developing for more than 30 years, in the fields of the environment: waste, energy, water and more generally urban ecology.

SAGE ENGINEERING thus intervenes in the following fields:

Waste management: pre-collection, collection, material recovery, recycling, organic recovery, energy recovery, preparation for combustion of CSR, burial.

Energy management by optimizing the energy recovery of the various processes (connection to urban and industrial heating networks, fatal heat recovery processes, etc.).

SAGE ENGINEERING develops a know-how that is continually renewed by technological advances and customer expectations. Innovation and R&D have a primordial place at SAGE ENGINEERING, this allows us to meet the following objectives:

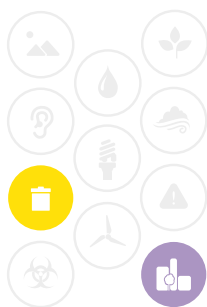
Accompanying public institutions in the long term for the realization of their large-scale environmental projects.

To apprehend their clients' projects in order to provide perfectly adapted solutions.

To share their creativity based on constantly renewed knowledge, skills and feedback.

References

Leader in assisting local authorities on environmental issues in France, SAGE ENGINEERING is increasingly developing internationally by exporting their methodologies and know-how to local institutions or by collaborating with local partner and ambassador companies. The wish of SAGE ENGINEERING is to develop long-term partnerships with their future international clients for issues related to waste and energy management.



Biological treatment /
Composting fermentation
Energy extraction from
waste - Environmental
approach of urbanism
Exploitation and elimination
Recycling and exploiting
materials - Treatment and
sorting

sakowin SAKOWIN

GREENenergy

Manufacturer - Maker

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STAFF

8 people

TURNOVER

International turnover:
250 000 €

Activities

Sakowin is developing a CO₂-free solution, on demand & on site to produce low cost hydrogen from methane.

We offer a new reactor technology to produce hydrogen and solid carbon from natural gas or biomethane. Using low energy plasma, our process is not only economical in electricity but also low-CAPEX and easily scalable thanks to its modular design. This technological brick will be marketed to OEMs for various markets. Compactness and high energy efficiency make this solution suitable to all industrial sectors interested in competitive CO₂-free hydrogen, e.g. decarbonization of industrial processes, land, sea & air transport sectors, production of green electricity, heating of buildings, or the production of hydrogen for the chemical industry. Installed directly on the hydrogen consumption site, at the end of a gas line, this concept can be used without H₂ storing and transporting, and it can be installed on existing gas infrastructures.

References

SAKOWIN's ambition is to help accelerate the energy transition through the emergence of competitive and 100% CO₂-free hydrogen production solution. SAKOWIN has indeed identified a relevant and industrially unexploited technology: the plasmolysis of methane by low-energy plasma which makes it possible to produce decarbonized hydrogen at competitive cost, with the following main advantages:

- Possibility of a production cost lower than that of methane steam reforming, with two major benefits:
- Carbon neutrality: This technology completely eliminates the generation of CO₂, producing gaseous hydrogen at atmospheric pressure and carbon in solid form (nanometric powder).
- Competitive target price: due to electrical consumption equivalent to

steam reforming and its low CAPEX, SAKOWIN's solution makes it possible to reach a cost of producing CO₂-free hydrogen, directly on site, which may be lower than the cost of today's grey hydrogen. This is made possible by the production of two industrially valuable elements: hydrogen and solid carbon. Solid carbon becomes a bonus as it can be used to manufacture tires, ink, battery electrodes and many other industrial products. The industrialization of the process will further significantly reduce this cost.

- The only solution allowing on-demand & on-site production of hydrogen, from a natural gas or bio-methane supply. It operates at atmospheric pressure and can be positioned as close as possible to industrial needs or within Hydrogen Refuelling Stations.
- The solution, compact and modular, fits into existing gas infrastructures and makes it possible to produce hydrogen on demand from a few kg to several tonnes per day.
- The only CO₂-free technology with a conversion rate close to 100%, much higher than that of methane pyrolysis, with lower energy consumption and low CAPEX.
- In average uses 10 times less electricity to produce 1 kg of hydrogen compared to an electrolyser, allowing to multiply the hydrogen production capacity of renewable energies by at least 10.

Certifications, labels ou prix

Award winner 2021 of the energy showcase of the National Forum of Eco-enterprises



Efficacité énergétique -
Energies renouvelables



SD-EAU

Research department - Engineering, Service company

ADDRESS

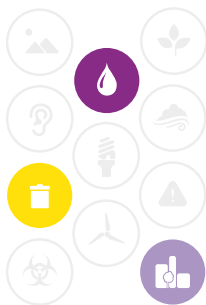
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STAFF

8 people



Environmental approach
of urbanism - Management
of fluids and networks
Regulations - Audit
Consultancy - Studies
and Engineering - Sewage,
industrial, cleansing and
dredging sludge - Training
or awareness - Wastewater
Water infrastructure

Activities

We are designers / builders of water treatment units and in particular wastewater with specialties in sludge re-use and treatment. Our services are therefore totally in direct relation with the environment.

A pragmatic and efficient service;

SD-EAU implements solutions genuinely adapted to the requirements of Sustainable Development thanks to a precise analysis of the needs and uses responding to the specificities of each context.

SD-EAU makes detailed, precise and exhaustive decision support tools available to owners. SD-EAU favors innovative technologies, proven to offer the most efficient alternatives at the best price.

SD-EAU develops solutions for optimizing equipment costs but also operating costs (overall cost logic).

SD-WATER

Sustainable Solutions for WATER is a company specialized in providing technical solutions for everything related to the Responsible and Sustainable Global Management of Water Resources.

- water supply
- wastewater and process water treatment
- reuse
- recycling
- recovery
- storm water storage and recovery
- reduction of rejects
- recovery of effluents or waste ...

References

Several important references in France and Luxembourg.

Several international references including;

Design, assembly and implementation of the Aloune DIOP University wastewater treatment plant

HYLANDS | Bambey, Senegal | 2016

- Design of the wastewater treatment plant (154 PE)
- Process:
Screening
Decanter-Digester with sludge recirculation
Bacterial bed
Secondary settling
- Supply of equipment
- Commissioning
- Staff training

Design, assembly and implementation of the Gaston BERGER University wastewater treatment plant

HYLANDS | Saint Louis, Senegal | 2016

- Design of the wastewater treatment plant (132 pe)
- Process:
Screening
Decanter-digester with sludge recirculation
Bacterial bed
Sludge settling
- Supply of equipment
- Putting into service
- Staff training

Rehabilitation of the Borotou wastewater treatment plant

SUCRIVOIRE SIPH | Borotou, Ivory Coast | 2015

Rehabilitation of a medium-load activated sludge treatment plant (first realization of this type in Côte d'Ivoire) for urban effluents (10,000 pe)

For the past two years, we have been making nearly 80% of our turnover from exports and we intend to continue this momentum. We have more than 40 references of export files.



SECHE ENVIRONNEMENT

Service company

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STAFF

4667 personnes

TURNOVER

International turnover:
206 M€

Activities

Séché Environnement, a family-owned and independent industrial group, is a benchmark player in the treatment and recovery of all types of waste, from the most usual (household waste) to the most complex (hazardous industrial waste) which require a high level of technical expertise. The Group also has unique expertise in decontamination, particularly in environmental emergencies. Séché Environnement has been putting its recognized know-how and innovative technologies at the service of the environment, local communities and manufacturers for more than 35 years, thanks to its network of more than a hundred sites in the heart of the regions, including around 50 industrial sites in France.

References

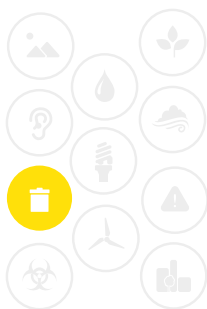
The Group is based on 35 years of innovation and a dynamic R&D policy in favor of environmental excellence, beyond regulatory standards. Séché is a particularly innovative key player in industrial and regional ecology: the Group develops tailor-made circular economy solutions with its customers and local stakeholders. Séché Environnement is developing, for example, recycling and reuse loops for rare or high added value materials. Thanks to innovative purification and distillation processes, the Group regenerates, for example, solvents from the chemical and pharmaceutical industries. Another example: after 5 years of R&D, the Group has developed a unique process for regenerating bromine from hazardous waste (brominated effluents). Likewise, in close partnership with the regions, Séché Environnement has always been a pioneer in making our waste an alternative source of energy to fossil fuels for district heating (in Laval with the first CSR boiler, Nantes, Strasbourg, etc.) and agricultural or industrial activities (Laval, Salaise in Isère, Rouen).

A historically recognized player in the field of waste storage, Séché has also established itself as a world reference in hazardous waste treatment solutions of all types thanks to its highly technical industrial tools. The Group operates throughout the waste chain: collection, grouping, classification through to recovery and disposal, regardless of the waste (liquid and solid hazardous waste, gas, PCB, medical waste, etc.), and to pollution control (asbestos, pyrotechnics, treatment of polluted soil and effluents) with unique expertise in the field of pollution control of buildings, natural environments or brownfields.

Séché Environnement is also the specialist in emergency depollution operations, such as on the Notre-Dame de Paris site (lead treatment), during the Lubrizol disaster or during the Grande America oil spill in the Gulf of Gascony. The Group regularly works on behalf of ordering parties such as the United Nations or European bodies (eg elimination of PCBs / pesticides / POPs, etc.).

Present in around fifteen countries:

- Europe: Germany, Spain, France, Italy, Portugal United Kingdom,
- Africa: South Africa, Mozambique
- Americas: Argentina, Chile, Mexico, Peru
- Asia: Malaysia, Qatar, Singapore
- More than 120 sites worldwide, including around 50 industrial sites in France



Déchetteries - Logistique,
Collecte, Transport -
Recyclage et Valorisation
de la Matière - Traitement
et tri - Traitement
mécanique - Traitement
thermique - Valorisation
énergétique des Déchets



SETEC ENERGIE ENVIRONNEMENT

Research department - Engineering, Service company

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STAFF

64 people

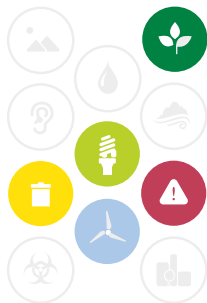
Activities

A subsidiary of the setec group specializing in energy and environmental services, setec énergie environnement assists public and private players in meeting the challenges of the energy and environmental transition in 3 major areas: preservation of the environment, optimization of resources and development of low-carbon energy sources.

Its strategy is based on innovation and on a systemic approach between energy and the environment. setec énergie environnement thus combines its specialized expertise in environmental and energy issues with its field experience in large-scale projects to offer project owners an innovative approach to their territories and their facilities. We are committed to sustainable development by offering a comprehensive and complementary range of skills to address current and future issues in cities and regions. We are committed to R&D through numerous programs, such as the development of a research program on CO2 capture, the development of hydrogen, the recovery of plastics...

References

In addition to specific locations for the needs of an international project, the setec group has permanent locations abroad: Middle East: Saudi Arabia, North Africa: Morocco, Tunisia, Egypt, Libya, Europe: Germany, Hungary, Greece, Monaco, United Kingdom, Switzerland Russia Americas: Brazil, Canada, Colombia, Panama, Africa: Congo, Ivory Coast, Gabon, Mauritius, Senegal. setec energy environment is currently deployed in projects such as: – Sharjah in the United Arab Emirates concerning the construction of a 30 MW waste-to-energy plant with a process for the recovery of solid waste from landfills – Abidjan in Côte d'Ivoire concerning the study of the solid waste management master plan of Abidjan Our experience of the international context, our international network as well as our expertise constantly enriched by ambitious projects push us to more want to impose ourselves as as leaders in our businesses beyond our borders.



Energy efficiency -
Environmental development
- Controlled landfill - Energy
extraction from waste
- Prevention of natural
risks - Renewables energies
- Logistics, Collection,
Transport - Recycling
and exploiting materials
- Regulations - Audit -
Consultancy - Studies and
Engineering - Waste centres



SIG ENERGY TECHNOLOGY

Manufacturer - Maker , Service company ,
Research department - Engineering

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CONTACT

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Activities

SIG Energy Technology is working on lithium-ion batteries. Since its creation, it has invested in sustainable development and has put its motto "working in harmony with nature" into practice in all its processes and achievements.

The company offers a wide range of products: lithium-ion cells in LFP and NMC, small capacity in cylindrical and large capacity in prismatic.

Its design office created in 2018, which works on meticulous tests applied to cells and the mechanical study of modules, makes it possible to differentiate the company from its competitors on the market.

Finally, SIG Energy Technology is committed to fighting pollution and improving people's quality of life and health. Mechanical integration products are developed according to the principle of eco-design, and manufactured in France from recycled materials.

References

Lithium-ion batteries, used worldwide for their performance and energy density, contain fewer heavy metals and above all are less polluting. SIG Energy Technology has its own engineering laboratory to create proprietary batteries for industrial use as well as to develop and market cells based on lithium-iron-phosphate technology deemed to be the safest on the market.

In a rapidly changing and complex market, SIG Energy Technology relies on its expertise (market research, laboratory, audit of production plants, etc.) in order to always offer innovative and superior quality products.

SIG Energy Technology markets cells and batteries to more than 30 countries.

In France, the cells are referenced in projects for electric buses, autonomous shuttles, retrofits, industrial robots, etc.

Abroad, the company's cells have been used in pallet truck projects, construction machinery, industrial stationary storage, etc.

Certifications, labels or price

SIG Energy Technology supports as a member the French associations in its sector (AVERE, AFBE).

In addition, the company invests in education and research through the sponsorship of innovative student projects, and through its partnership with the Institute of Molecular Chemistry and Materials of the University of Paris-Saclay.



Audit - Conseil - Etudes
- Ingénierie - Approche
Environnementale de
l'Urbanisme - Efficacité
énergétique - Mobilité
et Transports urbains -
Efficacité énergétique
- Véhicules électriques -
Véhicules hybrides - Écologie
industrielle - Solaire -
Photovoltaïque



SIMON & CIE

Manufacturer - Maker

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STAFF

17 personnes

TURNOVER

International turnover:
15 000 € HT

Activities

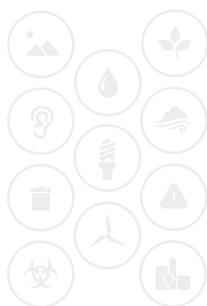
Manufacturer of innovative eco-designed pouches and environmentally friendly ranges. our company is strongly committed to a CSR and innovation approach.

Certifications, labels or price

Winner of the CSR Trophies of Bourgogne Franche Comté in 2018; EIP label (Innovative Business of Poles) in 2019; Ademe's AAP EETE laureate in 2021.

References

Eco-innovation (eco-recycled materials since 2019) and frugal innovation are our major areas of development. Two patents were filed in 2019 and 2020.



Corporate social
responsibility - Eco-design -
Environmental Regulations
- Recycling and exploiting
materials - Industrial ecology
- Life cycle analysis, auditing
and diagnostics



SIMPLICITI

Engineering, Service company - Research department

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STAFF

115 employees

Activities

Environmental intelligence

With regard to the environment, the user, the operator and the communities face divergent issues which all find their basis in a profound transformation of the socio-economic model.

Governmental authorities around the world have become aware of the environmental issues linked to the production, collection and processing of waste. Turning waste into a resource is the primary objective of the circular economy. From this desire to recover waste results in particular the development of the incentive fee, the multiplication of collection methods (Door to Door, Voluntary Contribution Points, Ecosites, etc.) and the emergence of collaborative applications.

This revolution requires a metamorphosis in the management of waste collection. In this new model, each stage of collection generates value. The optimization of routes leads to cost control. Appropriate management of human and material resources requires planning your collections. Your desire to increase your customer satisfaction legitimizes a strengthening of your relationship with users and citizens.

Our answer

Simpliciti uses connected objects and field data to respond to these business issues. Simpliciti thus enables intelligent management of the entire process of waste management and recovery, cleaning and winter maintenance.

References

Colmar Agglomeration

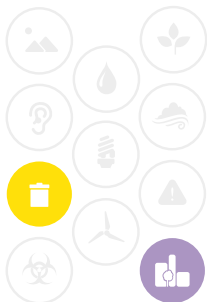
Clermont Auvergne Metropolis

Bordeaux Metropolis

Greater Lyon

Has an Office in Morocco in Casablanca whose address is:

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Audit - Consulting
Engineering Studies
Logistics, Waste Collection,
Fleet Management, Mobility
IoT - Smart city - Artificial
intelligence - Efficiency
Optimization



SOBAC

Manufacturer - Maker

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CONTACT

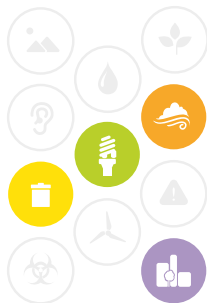
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STAFF

120 people

TUROVER

International turnover:
3 000 000€



Biochemical processes
Biogas - Biological
treatment / Composting
fermentation - Biomass
Carbon Balance - Clean
Development Mechanisms
CO2 collection and storage
Coastal and marine
environment - Collection,
transport and treatment
of cleansing sludges -
Combating greenhouse
gases - Combating
greenhouse gases
technology - Earthmoving
and stabilization techniques
Eco-design - Eco-design and
clean technologies - Eco-
management

Activities

Production, marketing, research and expertise company. Water and Air Soil Quality, Agriculture, Gardens and Green Spaces, Micro-organisms, Methanisation;

- Soil regeneration, Autonomy of production, Soil quality, Humus production, Improvement of soil fertility and structure, Fight against erosion, Development of biodiversity in meadows and cultivated plots, Improvement of the global profitability of farms;
- Water quality: Biological process for the protection of the resource and sludge treatment;
- Waste: composting and methanisation; Recycling of organic matter: production of standardised organic amendments; Air quality and odour control: innovative process using micro-organisms;
- Sustainable urban planning: ecological management of green spaces;
- Innovation.

References

- +14% margin and farm autonomy -Pr Mazoyer-AgroParisTech
- - 82% of ammonia losses (odours) in livestock buildings and an increase in manure of 39% of the organic nitrogen available for crops -ITAVI-Institut Technique de l'Aviculture
- - 30% of nitrogen leaching and humic acids x2 -EuropeSoils
- Composts: -50 % of dry matter losses, better fertilising value (x2N fixed) and less air pollution-Grignon-AgroParisTech
- x3 Methane Production -Biocritt
- Improvement of nutrient quality, yields and soils - Agronomic Research Centre Agra-Ost-Belgium

- Less nitrates in the tubers + higher yield -potatoes -Chambre d'agriculture Oldenburg-Germany
- Poor soil: Improved soil and vegetable quality - less nitrates and diseases -CIFACITA-Univ. Cartagena-Spain
- - 40% soil salinity, x2 organic matter, x2 leaves and roots, x2 mycorrhizae -Univ. Marrakech.
- + 14.8 % carbon and + 9.4 % nitrogen stored in soils, Purpan Engineering School

Certifications, labels or prize

- Sustainable Development Award 2015
- Golden INEL 2013 for our official recognition by the DREAL -Ministries of Environment and Agriculture- as a technology for transforming livestock effluents into standardized organic amendments.
- 1st National Green Business Award 2013
- 2012 Sustainable Development Grand Prize
- Grand Trophée d'Or 2009 de l'Eco-Produit, awarded by a jury of sustainable development specialists brought together by Groupe J in collaboration with the French Ministry of Ecology.
- ISO 9001 and ISO 14001 certified
- Products for use in organic farming
- Production of NF U44-051 standard composts



SOC

Manufacturer - Maker, Service company

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STAFF

146 people

Activities

SOC is a company specializing in the construction and maintenance of dedicated public hygiene infrastructure and related works. With nearly 50 years of existence, our company is at the service of many local and regional authorities, operators as well as manufacturers, developers and developers, in mainland France, in overseas departments and territories and abroad. We have both the skills in laying pipes and in installing hydraulic and electromechanical equipment that allow us to intervene in all stages of the water cycle. To build, rehabilitate, maintain or operate the facilities.

Aware of climate change, pressures on the entire water cycle to come. We support communities in the face of these challenges by investing in innovative solutions allowing better efficiency of networks in terms of energy, environment and health. In this, we want to be a player in the ecological transition by offering energy recovery processes in pressurized water networks or heat recovery from wastewater.

References

We have been working regularly for projects, particularly on the African continent for the past ten years. Ivory Coast – Djibouti – Morocco



Geothermal energy -
Environmental approach
of urbanism - Management
of fluids and networks -
Rainwater management unit
- Small-scale hydroelectric
energy - Sewage treatment
plant - Training or awareness
- Wastewater - Water saver



SOLAR CLOTH SYSTEM

Research department - Engineering , Manufacturer - Maker

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STAFF

6 people

TURNOVER

International turnover:
25 000€

Activities

Solar Cloth System has developed an innovative process, qualified as a technological breakthrough. It is the integration of thin photovoltaic layers to a textile support.

Derived from years of designing highly technical racing sails, the company's know-how consists of a transverse application to two existing technologies: structured technical textiles and CIGS-type photovoltaic thin films.

With 17.6% efficiency, the flexible and rollable modules of Solar Cloth have a power comparable to those of the traditional rigid silicon panels used on the roof, without however having the disadvantages because they do not contain glass.

References

Solar Cloth is referenced by Renault-Volvo Trucks as a standard factory-fitted supplier for both brands. But also at Huttobia, Richel-Toutabri, and Vitabri

The Solar Cloth solution concerns four main industrial markets: mobility, agricultural greenhouses, the outdoors, housing. Boating and racing are of course present in his daily life, as in particular for Jean Le Cam during the last Vendée Globe.

After two years of research and development, we are pleased to officially announce that the Renault-Volvo Trucks group has listed Solar Cloth as a standard supplier in its factories.

The innovations developed, as a source of on-board electricity, meet a need very often expressed by hauliers and customers of the Renault-Volvo Trucks brands (second largest group in the world). Vehicle-integrated photovoltaics (VIPV) are part of the response to the need for sustainable mobility.

Solar Cloth is proud to participate in the design and industrial manufacture of these new concepts. In two years, it has been able to remove the main technical obstacles and thus contribute to the effective introduction of VIPV in the field of road and maritime transport (see 2 photos below).

Photo below: Renault T25 and the SolarCloth 3D photovoltaic module

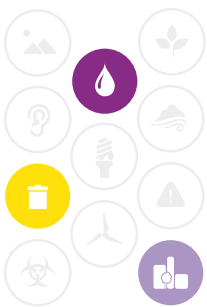


Certifications, labels or prize

Innovation is supported by several patents issued and numerous awards, including that of ADEME in 2019 (Innovation & Growth), and i-Nov 2020 (Prime Minister's Service).

In May 2021, Solar Cloth won the France Relance government plan.

Solar Cloth is supported by the BPI (2017) and by Région Sud Investissement (2019). Solar Cloth works with IM2NP, IPVF and INRAE, among others. And also CAPENERGIE, ADEME, and TECHTERA



Architecture - Electric vehicles - Energy efficiency - Environmental development - Energy efficiency - Photovoltaic solar - Renewables energies - Mobility and urban transport - Eco-design and clean technologies - Thermal solar - Environmental and social Investments



SOLVEO ENERGIE

Manufacturer - Maker

ADDRESS

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STAFF

190 people

Activities

Solveo Energie, a producer of green electricity, develops, builds and operates wind and solar renewable energy plants.

Solveo Energie develops projects in France and abroad.

Solveo Energie has a design office that carries out the engineering and integrates all technical, administrative, regulatory and financial constraints from the outset.

Solveo Energie structures the financing and then carries out the works.

Solveo Energie provides maintenance and supervision during the operating phase.

References

IN FRANCE

- 70MW completed (PV plant or Wind Farm)
- 30MW in construction
- 760MW in development

ON THE INTERNATIONAL SCENE

- Projects under development in Romania, Guinea and Morocco
- Fasep Innvation Verte in Morocco



Energy efficiency
Photovoltaic solar
Regulations - Audit
Consultancy - Studies and
Engineering - Wind power



STEPSOL

Manufacturer - Maker

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STAFF

6 people

Activities

Our team devotes all its efforts to studying, designing, building and operating systems for the production and storage of carbon-free electricity from renewable energies in dimensions that are acceptable for the environment and on a societal level. Also, we take into account local specificities, in terms of space, water management, fragility of the local electricity network, in order to offer a harmonious integration of our systems. We are committed to developing sustainable projects that go beyond the simple production of clean electricity, and create additional benefits for the populations that host them.

References

A 1st solar micro-STEP operational on the Paglia Orba platform in Ajaccio
The Paglia Orba platform, developed by the University of Corsica, CNRS and CEA-LITEN, brings together a wide range of consumers (offices, electric vehicles, housing), various technologies for producing and storing electricity from renewable energy sources and makes it possible to simulate and control micro-grids, whether or not they are connected to the Corsican regional grid.

Our first "hydraulic battery" was built at the heart of this innovative platform. This is an opportunity for us to study the integration of our system into various micro-grids and to test its performance. This installation allows our technical team to test its optimization work and to obtain an expertise on the real performances and dynamics of our battery coupled with solar energy.



Energy efficiency
Photovoltaic solar - Small-scale hydroelectric energy



SUNNA DESIGN

Manufacturer - Maker

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CONTACT

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STAFF

45 people

Activities

Sunna designs, manufactures and markets innovative LED and solar powered street lighting solutions.

Sunna focuses on two different issues:

- Favouring the development of emerging countries, by equipping isolated or non-electrified areas with efficient and economical public lighting;
- Addressing the challenges of over-consumption and pollution associated with public lighting, and enabling communities to make significant energy and financial savings.

To achieve this, Sunna's solar street lamps are innovative and reliable: the lighting service is guaranteed thanks to an energy and lighting management program. The street lamps are also durable, with a maintenance-free 10-year life span, possible thanks to the use of NiMH batteries – highly resistant to heat.

Thanks to its design office, Sunna adopts a project approach, with upstream advice and support: lighting study, layout study, compliance with standards governing public lighting, etc.

References

INTERNATIONALLY

Rural electrification and public lighting with our iSSL autonomous solar street lamps in many countries: India, Senegal, Cameroon, Nigeria, Morocco, Egypt, ... ;

Referenced by Schneider Electric.



Environmental approach of urbanism - Energy efficiency
- Regulations - Audit - Consultancy - Studies and Engineering - Photovoltaic solar - Regulations - Audit - Consultancy - Studies and Engineering - Regulations - Audit - Consultancy - Studies and Engineering



SUNVIE

Research department - Engineering, Service company

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STAFF

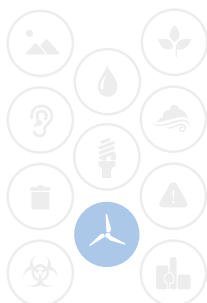
5 people

Activities

SUNVIE SA is a development company for solar projects oriented towards a clientele of companies or local authorities. Our approach is that of an integrator allowing us to offer all the skills necessary for the successful implementation of projects, whether thermal or photovoltaic, and this from the very conception of the projects to their financing.

Our method of intervention varies according to the project and the needs of our customers and can take one of the following forms:

- Project management assistance;
- Project management;
- Turnkey" service, notably on one of the solutions we have developed (see Photovoltaic parking shades);
- Development of photovoltaic power plants for our own account and for third parties.



Regulations - Audit
Consultancy - Studies and
Engineering

SZLEPER-HENRY AVOCATS

Service company

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CONTACT

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STAFF

6 people

Activities

Guillaume HENRY is a partner of the law firm SZLEPER HENRY AVOCATS, specialized in intellectual property law.

Fields of practice:

- patents,
- trademark and design
- unfair competition,
- new technologies (software, applications, RGPD, domain names, etc.).

Services :

- consulting (consultations, audits, protection strategy)
- management of brand portfolios in France and around the world
- litigation

Clients: from small and medium sized companies to international groups

Assets :

- reasonable fees
- reactivity
- global network

Guillaume HENRY is one of the most active lawyers in the field of industrial property applied to green technologies.

References

Guillaume HENRY is the author of several books on industrial property applied to green technologies:

"Technologies vertes et propriété industrielle: brevets, marques, écolabels", 2013, with the support of ADEME.

"Sustainable development and intellectual property: access to technologies in developing countries", 2015, INPI (Institut National pour la Propriété Industrielle).

INTERNATIONALLY

Me HENRY has a network of colleagues specialized in industrial property all over the world.

Mr HENRY chairs the 'GreenTech and Intellectual Property' commission of the AIPPI (Association for the Protection of Intellectual Property).

Mr HENRY participated in COP 21, COP 22 and COP 23.

Certifications, labels or prize

Guillaume HENRY's study on intellectual property rights and green technologies received in 2010 the first international prize of the AIPPI (Association for the Protection of Intellectual Property).

Guillaume HENRY is president of the Association pour l'Analyse Ecologique du Droit (AED).



Air quality and odours control - Biodiversity and landscape - Energy efficiency - Environmental development - Noise and vibration - Renewables energies - Risk - Soils remediation - Sustainable urban planning - Waste management - Water infrastructure



TAMI INDUSTRIES

Manufacturer - Maker

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CONTACT

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STAFF

15 people

Activities

TAMI Industries is a manufacturer of ceramic membranes used for the separation of molecules in liquid phase. (Microfiltration, ultrafiltration and fine ultrafiltration). Tubular shaped ceramic membranes offer more stable chemical and thermal characteristics and a longer lifetime (about 3 to 4 times) than organic membranes. TAMI Industries' membranes offer larger filtration surfaces than competing membranes.

The use of the proposed processes in environmental applications is more and more frequent because it allows, in many cases, to discharge effluents respecting the imposed standards, and to recycle baths or process water while eliminating their polluting loads.

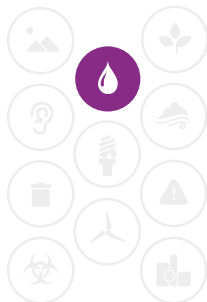
It is for example possible, thanks to original processes developed by TAMI Industries, to recycle cleaning water from flexographic printing units or degreasing baths for metal parts, to discharge fairing water into the natural environment, to treat landfill leachates, industrial effluents, etc...

References

More than 900 customers worldwide.

Certifications, labels or prize

ISO 9001 – 2015



Membrane plant



TANY

Research department - Engineering

ADDRESS

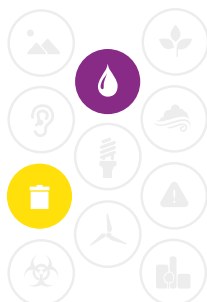
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STAFF

3 personnes



Biological treatment /
Composting fermentation
- Cleaning - Controlled
landfill - Energy extraction
from waste - Exploitation
and elimination - Logistics,
Collection, Transport
- Mechanic treatment -
Methane generation - Waste
management - Recycling
and exploiting materials
- Regulations - Audit -
Consultancy - Studies and
Engineering - Seepage
water in landfill / leachates
- Thermal treatment -
Tipping, dumping - Training
or awareness - Treatment
and sorting - Waste centres
- Waste from care activities
that pose a risk of infection

Activities

TANY is a consulting and engineering company
in waste management and recovery.

We are involved in all phases of a waste
management project:

- Territorial strategic studies of waste
management
- Feasibility studies of waste recovery solutions
- Assistance to project management for
the implementation of projects
- Supply and implementation of innovative
and local solutions
- Monitoring of operating contract and
installation performance

References

Waste treatment union, communities,
national waste management agency :
Mayotte, Reunion, Senegal, France

NGO: Benin

Certifications, labels or prize

- E-RSE label: obtaining in progress,
promoted by the CCI of Val de Marne 2023
- Tany is a company with a mission.
- Member of the Club Entreprises Engagées
et Solidaires du Val de Marne coordinated
by the prefecture since 2022
- Holder of the OPQIBI qualification
certificate: 0806 Study of waste
management, 2103 Engineering of
common waste treatment system,
2104 Engineering of complex waste
treatment system



TECHNISIM CONSULTANTS

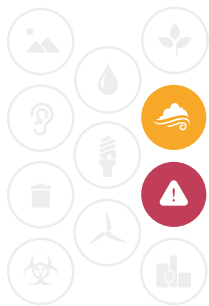
Research department - Engineering, Service company

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Analysis - Measurement
Monitoring - ATEX - Design
offices for modelling of
atmospheric dispersion
Gas and fumes - Gas
Pollutants - Indoor air quality
Industrial risks - IT and
software - IT and software
Odorous compounds
Particles - Prevention of
industrial risks - Regulations
Audit - Consultancy - Studies
and Engineering - Training or
awareness - VOC

Activities

TechniSim Consultants is a consulting firm specialized in the following fields:

- Air quality – Chronic and accidental atmospheric dispersions (2D and 3D)
- QHRA – Quantitative Health Risk Assessment (inhalation, ingestion,...)
- Realization of the “air and health” component of road projects, ports, stations, ZAC, developments, quarries, ...
- ESD – Carrying out hazard studies: PRA, bow tie, probabilistic approach, QRA, ...
- In-situ measurements of gaseous pollutants and dust (PM10 and 2.5, autonomous and communicating laser microsensors, DIEM plates,...) in ambient air and in the context of indoor air quality (IAQ) studies.
- Odour study – olfactometry (in situ measurements, modelling and compensatory measures)
- Study of light pollution (in situ measurements and modelling)
- ATEX study
- Environmental Acoustics Study (ICPE, roads): in situ measurements and noise map modelling
- Calculation of regulatory heat flows and dimensioning of compensatory measures (firewall, ...)
- Calculation of explosion scenarios – BLEVE, UVCE, “Boil Over”...
- Dispersion of toxic gases in the event of accidental emanation (leakage and loss of containment) or products resulting from a fire,
- Sustainable development – evaluation of greenhouse gas (GHG) emissions according to the Bilan Carbone® methodology of the ADEME (French Environment and Energy Management Agency).
- Thermo-aerodynamic study in fluid mechanics (CFD)

References

IN FRANCE

Alpes Contrôles, Alpes Ingé, ANTEA, Brezillon, Cap Environnement, Cap Terre, CCI Drôme, CG 51, Artelia, RATP Habitat, Dassault Aviation, DDT 54 / DDT 89, DRIEE, DRIEA, Ministère de l'Intérieur, DREAL, CG 06,

Direct Énergie, Direction Générale de l'Aviation Civile, EADS Apsys, Conseil Départemental de la Gironde, EDF, ENTPE, Conseil Départemental des Pyrénées-Atlantiques, Paris La Défense, Faurecia, Conseil Départemental des Yvelines, Ginger, Verdi, ICO Environnement, IDTP, INSA, Iris Conseil, TPFI, Segic Ingénierie, ERA, Artifex, LinkCity, Conseil Départemental de l'Essonne, IDE Environnement, Katoen Natie, EON, Mairie de Solaize, Mareva Filtration, Ministère des Armées, Plastival, PS Isosta, Alsetex, SCE, Médiaterre, Somival Ingénierie, Conseil Départemental de l'Ain, SEPOC Cabinet Merlin, SECI Groupe Valentin, Conseil Départemental du Val de Marne, SEVIA SRRHU, SNPE - Nexter, Conseil Départemental du Pas-de-Calais, UCBL Lyon 1, Veolia, Ville de Paris, Vinci, Métropole Nice Côte d'Azur, Conseil Départemental du Tarn, Ecorce ICPE Conseil, CU Marseille Provence Métropole, CU Caen La Mer, Kaufman & Broad, Hines, SPL Pays de Grasse Développement, Unibail Rodamco Westfield, Altarea Cogedim, Nexity, SNCF, RFF, SMTC de Belfort, UrbaConseil, Escota, ASF, EPA Paris Saclay, CU Lille Métropole, DRIEA IDF, DIR Atlantique, Sicoval, Conseil Départemental du Haut-Rhin, Conseil Départemental du Val d'Oise, SPL Noisy-Le-Grand, Sefri-Cime, OPPIDEA, Ville de Paris, Ville de Saint-Dizier, Ville de Vesoul, Ville de Cabries, Ville de Buchelay, Arcadis, Diagobat, Diastatra SAS, Even Conseil, SYSTRA, TerriDev, Oteis, Compagnie de Phalsbourg, Grand Lyon La Métropole, Grand Paris Aménagement, La Fab, Trancités, Ville de Courbevoie, Redman, SCI Berger, Pitch Promotion, Ogic, Nord le Département, Nexiville 2, Métropole Rouen Normandie, Citallios, Cogedim Grands Projets, Capelli Paris, Carrefour Property, CAVEM, Alios Développement, Amiens Métropole, B & C New Edge, Mairie de Quint-Fonsegrives, Mairie de Saran, Conseil Départemental de la Drôme, ...

ON THE INTERNATIONAL SCENE

Peace Refinery and various projects (Ivory Coast – BNEDT), Mayotte Airport (DGAC), EAM (Tunisia), EcoSite - Saint Martin.

Certifications, labels or prize

Carbon Footprint



TEQOYA

Manufacturer - Maker

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STAFF

10 people

Activities

TEQOYA is a French company created in 2015 which designs and develops a range of air purifiers which required 15 years of R&D and several years of in-vivo tests. TEQOYA's innovations are based on several technologies using air ionization and electrofiltration, very powerful and very safe, without ozone emission.

These unique technologies in the world are inspired by a natural process of particle removal by negative ions. These negative ions act as natural cleansers and, by purifying the air, are beneficial to our health while respecting nature and the comfort of people.

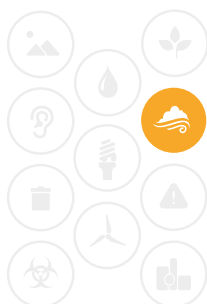
Our air purifiers are 100% ozone-free and effective against polluting particles of all size, the most dangerous included. TEQOYA air purifiers are designed and manufactured in France, performing eco-friendly air purification:

filterless, energy-saving, silent.

TEQOYA assigns a central place to R&D and works with several laboratories for the development and experimental qualification of its devices.

TEQOYA also has its own design office and co-develops with construction industry breakthrough innovations for indoor air quality.

Our development axes focus on increasing the number of applications of its technologies, compatible with TEQOYA's positioning: respect for the environment and great comfort of use, without consumables.



Analysis - Measurement
- Monitoring - Indoor
air quality - Particles
- Regulations - Audit -
Consultancy - Studies and
Engineering



TERAO

Research department - Engineering

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CONTACT

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STAFF

55 people

TURNOVER

International turnover:
1500 k€

Activities

TERAO is an engineering and consultancy firm specialising in environmental approaches applied to the construction sector. TERAQ provides project management assistance and project management assistance for all new construction or renovation projects in a wide range of sectors: offices, housing, schools, hospitals, public and cultural facilities, industrial buildings, sports facilities and infrastructures.

TERAQ works on the scale of buildings throughout their life cycle as well as on the scale of eco-neighbourhoods and sustainable cities.

TERAQ is familiar with the main environmental certification standards and labels: HQE, BREEAM, LEED, 3-stars (China), WELL, E+/C-, Effinergie, BBCA, BEPOS... The company has extensive expertise in the energy performance of buildings, guaranteeing energy results and thermal and electrical smartgrids.

TERAQ can work in 7 languages (French, English, German, Spanish, Portuguese, Arabic, Chinese), and is a founding member of the UMO group, which offers all types of expertise for sustainable cities. TERAQ has offices in Paris, Lyon, Shanghai and Bogota.

INTERNATIONALLY

- Terao has an office in Shanghai since 2008 and an office in Bogota since 2014.
- Project Manager of the Energy Efficiency in Construction Programme in China (1999-2004), Scientific Advisor of the Energy Efficiency and Sustainable Development in Construction Programme in China (2005-2008).
- Coordination of technical studies for the establishment of financial mechanisms for the thermal rehabilitation of existing buildings in Hubei Province (China). Coordination of technical studies for the establishment of a line of credit to finance energy-efficient housing in Thailand.
- Olympic Hall in Hangzhou (China) with AREP.
- BIC plant in Nantong with SIP.
- LEED certification of 7 metro stations in Dubai with AREP as part of the work for the 2020 World Expo.
- Support in the structuring of an energy efficiency program in the building sector led by AFD, FFEM and ADEME (world scale).
- FASEP for energy audits of public buildings in Columbia.

Certifications, labels or prize

TERAQ benefits in particular from the following professional qualifications :

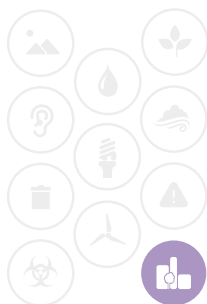
- HQE Buildings referent and auditor in France and abroad.
- BREEAM Assessor and BREEAM In Use Assessor
- LEED AP, LEED CMVP (Performance Measurement and Verification) and LEED CBCP (Commissioning of Buildings)
- WELL AP
- Référent Label BBCA (Bâtiment Bas Carbone) / Energie Carbone
- Bilan Carbone: ADEME training
- OPQIBI, Qualifications with RGE :
- Regulatory thermal study "single-family house
- -Regulatory thermal study "collective residential and/or tertiary building".
- -Energy audit of buildings (tertiary and/or collective dwellings)
- -Industrial Energy Audit

References

IN FRANCE

Louis Vuitton Foundation for Creation, LVMH Arts-Talents-Heritage Museum, Dassault Systèmes Head Office, Manutan Head Office, Limoges Zenith, Renovation of the Carreau du Temple in Paris, Vélux Chine Head Office, EcoQuartier Issy Coeur de Ville (100,000 m²) in Issy Les Moulineaux with thermal and electrical smartgrid, AMO Quartier durable pour Urbanera in Divonne-les-Bains, IGH "IBox" in Paris Gare de Lyon: heavy renovation for Gecina. ..

TERAQ has more than 700 projects to its credit, of which a hundred or so will be active in 2022.



Carbon Balance -
Environmental approach
of urbanism - Regulations
- Audit - Consultancy -
Studies and Engineering
- Regulations - Audit -
Consultancy - Studies and
Engineering



TERGYS

Manufacturer - Maker

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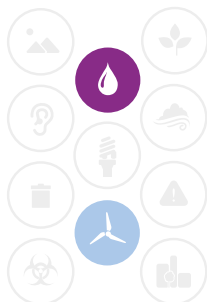
4 people

Activities

TERGYS is the result of a common will to provide innovative and sustainable solutions to meet the environmental and societal challenges of our planet. The company offers ambitious combinations around solutions for drinking water, desalination, recycling water and energy supply based on renewable energies.

References

Fasep for African cities and TERGYS Baby for autonomous seawater desalination solutions.



Photovoltaic solar -
Membrane plant - Wind
power - Water filtering in tap
- point of use



TESALYS

Manufacturer - Maker, Service company

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STAFF

20 people

Activities

Our equipment is designed to treat infectious waste produced by healthcare, analysis and research establishments directly on the production site. Our shredding and sterilization pre-treatment technology is a direct alternative to incineration, significantly reducing the volume and weight of waste. The costs and risks associated with the storage, transportation and disposal of your hazardous waste are thus limited. On-site treatment allows a significant reduction of the carbon footprint.

References

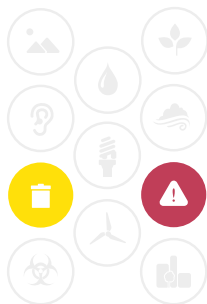
We export 98% of our turnover, we have more than 400 machines installed in 62 countries in the five continents. We have a network of authorized distributors spanning 90 countries and our multilingual sales and technical teams travel regularly to support our distributors and customers around the world.

Already distributed in Western Europe, Eastern Europe, North Africa, Central Africa, Middle East, Central Asia, South East Asia, Central America and South America. Our international distribution network is constantly expanding in order to eventually cover the entire market.

Certifications, labels or prize

Tesalys IHCW treatment systems were the first to miniaturize the crushing and sterilization process allowing waste treatment as close as possible to the place of production. R&D is in Tesalys' DNA, we have 6 patents on technology and 20% of our workforce is dedicated to research and development.

We have been certified ISO 9001 in 2021, guaranteeing the quality of our products, our services and our internal processes.



Waste from care activities
that pose a risk of infection

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STAFF

6 people

TURNOVER

International turnover:
155 000€



Modelling, measurement
and monitoring noise
zones and acoustic
environments - Noise and
vibration - Regulations
Audit - Consultancy - Studies
and Engineering - Sound
nuisances - Training or
awareness - Vibrations

Activities

Tisseyre + Associés is an international design office in acoustic and vibration engineering. Since 1980, we have developed cutting-edge expertise in the vibroacoustic field with a choice in favor of Research & Development. Thanks to our methodological, software, and service innovations, we have provided acoustic solutions in many fields for more than 40 years.

Our approach is based on the observation that acoustics is structuring for all operations in the construction sector. Far from proposing maximalist solutions for protection against nuisances and very engaging on the architectural and urban level, we develop integrated vibroacoustic solutions that are sized to the specific needs of the projects. Each project being different in terms of requirements, constraints, and issues, we develop a tailor-made culture by favoring uses and functions.

We propose :

- A tailor-made acoustic design in line with the architect or urban planner's designs
- Optimization of our prescriptions, both in terms of materials and structures
- A guarantee of results in line with objectives
- A development and, therefore, a mastery of innovative materials: from the design to the application of tailor-made acoustic architectural solutions
- Assistance to industrialists and test laboratories for product certification
- Assistance in designing offices through an acoustic calculation center service

References
IN FRANCE

- Trinity Tour, Paris La Défense
- Colisée, Tremblay-en-France
- The Lyon Perrache exchange center, Lyon
- ENOVA, Labège : aerial subway
- Princess Grace Hospital Center, Monaco principality

INTERNATIONALLY
In China :

- Guotai Chongqing Cultural Centre,
- YingKou Concert Hall
- ShangHai Concert Hall
- Traditional Chinese Opera Hall and Beijing School of Music: acoustic design
- Airport noise management: Shanghai – state of the art of international airports

In Morocco :

- Leïla Mezian Foundation, Casablanca
- The National Higher Institute of Music and Choreographic Arts, Rabat
- Academy of the Kingdom of Morocco, Rabat, Hall 500 and TV studio
- Hospital Center IBN Sina, Rabat
- O Tower, Rabat

In Middle East :

- King Abdulaziz center for knowledge and world culture, Dhahran
- Beirut Concert Hall
- Jabal Omar district, Mecca
- Congress Palace in Djeddah and Riyadh

Certifications, labels or prize

OPQIBI qualification on all the acoustic headings.



TMW

Manufacturer - Maker

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STAFF

20 people

TURNOVER

International scene:
180 000€

Activities

TMW, a French manufacturer with an international vocation, has developed the patented MHD (multi-stage humidification-dehumidification) technology, an innovative and robust process of evaporation and concentration at atmospheric pressure.

The Ecostill™ range applied to industrial effluents offers a very competitive energy recovery treatment solution, particularly for applications in surface treatment and metallurgy, water + dissolved hydrocarbons, membrane treatment concentrates, used acids, effluents loaded with metals and salts, nitrates and nitrites, etc.

Backed by a group of individual investors and with a team of 20 people and references in the fields of application, TMW has invested nearly €10 million to develop its technology and today markets three ranges of equipment, Ecostill™ for industrial effluent treatment, Aquastill™ for seawater desalination and TET plastic plate heat exchangers for corrosive fluids.

Références

IN FRANCE

Alfa Laval, Canon, CEA, Solairgies, SPAMA, TMC, TMN, Veolia..

ON THE INTERNATIONAL SCENE

ALMIT (UK), AORASOLAR (Sp), NGL (CH)



Regulations - Audit
Consultancy - Studies and
Engineering - Regulations
Audit - Consultancy - Studies
and Engineering - Seepage
water in landfill / leachates
Wastewater - Water re-use
and saving



TOOPI ORGANICS

Manufacturer - Maker, Service company

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STAFF

21 people

Activities

The Toopi Organics project was born in February 2019 following a meeting between 3 contractor including the two co-founders Michael ROES and Pierre HUGUIER.

Toopi Organics recycles, transforms and valorizes human urine into products for agriculture and industry.

TOOPI Organics is at the origin of a patented process that uses human urine to grow bacteria with strong agronomic interest. The Toopi solution starts by collecting urine through various existing or non-existing means (mobile or fixed urinal installations), transforming the urine using a patented (low-tech) process that hygienizes and depollutes the urine, and finally valorizing the urine by creating a fertilizer that is much cheaper and as effective as a mineral fertilizer.

References

Toopi Organics works in collaboration with various companies in three areas:

- Urine collection
- R&D
- The marketing of the product

For urine collection, the partners are medical analysis laboratories (Exalab Group), dry toilet rental companies (WC Loc, Enygea etc...), and establishments open to the public (secondary schools, high schools, primary schools). Other actors are interested in urine collection, such as petrol station managers, builders of new buildings, etc...

For the R&D pole, Toopi Organics works in collaboration with technical testing centres (Chambers of Agriculture), research institutes and agronomic experimentation centres (INRAE).

As far as the marketing of Toopi products is concerned, we are expecting a marketing authorisation (AMM) for the end of 2021. Toopi has already established close ties with several major distribution players such as mineral fertiliser wholesalers and a purchasing centre grouping together agricultural cooperatives.

Certifications, labels or prize

The TOOPI Organics project is labeled "Green Tech Verte" by the Ministry of Ecological Transition, by Initiative France as "Remarkable Initiative", "Hydreos" by the competitiveness cluster of the water sector and the "Seal Of Excellence" by the European Commission.

Toopi Organics has won a dozen competitions since its creation:

- The "Moovjee" prize
- The Agenda Trophy 21
- The Aviva Factory
- AgTech Summer Camp
- The "baby" prize at the Blue Ocean Awards
- The Fundtruck
- Innovaday
- The Food Challenge Creadev
- The i-Nov Innovation Contest "Wave 5" in the category "Agriculture & Agroeconomical Industry".
- The Pollutec Innovation Awards



Exploitation and elimination
Recycling and exploiting
materials - Thermal
treatment - Utilization and
waste disposal - Wastewater



TRIDENT SERVICE

Research department - Engineering

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CONTACT

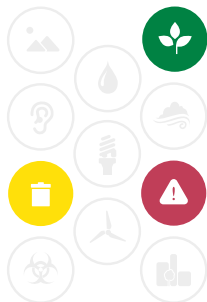
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STAFF

7 people

TURNOVER

International turnover:
100 000€



ATEX - Biological treatment / Composting fermentation - Clean Development Mechanisms Collection, transport and treatment of cleansing sludges - Controlled landfill - Corporate social responsibility - Eco-design and clean technologies Eco-materials, Eco-design and Eco-products Alternative raw materials Energy extraction from waste - Environmental and social Investments Environmental Regulations Industrial ecology

Activities

Waste disposal plan.

Regulatory audits, site upgrading. Support for ISO 14001 certification. Collection audits, optimisation of routes, choice of appropriate equipment. Audits of treatment/recycling units. Improvement and optimisation of the process. Project management: sizing studies, authorization files, design, construction and commissioning of waste treatment units: final waste storage centres, sorting and recycling centres, composting centres, manufacture of substitute fuel, mechanical-biological separation units, methanisation, incineration in cement works, hospital waste, special waste, treatment of polluted soil and sediment, "turnkey" projects. Regulatory audits, site upgrading. Support for ISO 14001 certification. Collection audits, optimization of routes, choice of appropriate equipment. Treatment and recycling channels. (Wood, automobile shredder residue...). Waste brokerage and trading.

Our company is managed by former operators. It is characterized by :

- Control of all stages of waste management: collection, disposal and recycling processes, community and business waste.
- A constant concern for the best mix of economic performance and sustainable development for the solutions chosen.

Serving local authorities and environmental companies

References

IN FRANCE

Design and construction of the SITA sorting centre for selective collections in Limeil Brevannes (Paris region). Industrial Innovation Prize 2001 for the sorting process. Design and construction of a sorting centre for OIW and demolition waste, demolition wood recovery centre in Gennevilliers (Paris region). Optimisation of waste collection rounds in the Reims region (DECTRA).

INTERNATIONALLY

Design and construction of three landfills (Ryman, Szprotawa, Tomaszow) and a composting centre in Poland, on behalf of SITA Polska. Unit for converting special waste into fuel for the cement plant RADOM Lafarge Poland. Reorganization of the waste collection and treatment service. Medium-term treatment solutions for the waste department of the Emirate of Sharjah United Arab Emirates, on behalf of VEOLIA.



URBS

Research department - Engineering

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STAFF

9 people

Activités

Specialized in the development of digital tools and the processing of geographical data, U.R.B.S. is positioned as a facilitator and accelerator of energy, solidarity and digital transition of territories, particularly in the building and housing segments.

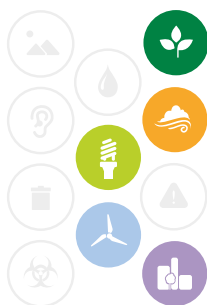
An innovative company from the National School of Mines of Saint-Étienne and recognized at the national level, our expertise is based on patented technologies based on high-level research. From this alliance between public and private entities was born a natural synergy driven by joint investments in research and development, and driving force in the improvement of knowledge, the reliability of geographic data and innovation.

Références

Paris 13th (Data City By NUMA), Paris 18th and 19th with the Chapelle-S urban innovation district (Urban lab – Paris&Co), Clermont Ferrand Métropole (metropolitan habitat observatory)...

Certifications, labels ou prix

Winner of the 6th IGNFab (Energy & Climate) call for projects (IGNfab is the IGN accelerator and is part of the network of Green Tech incubators, an initiative of the Ministry of Ecological Transition)...



Air quality and odours
control - Energy efficiency -
Environmental development
- Environmental approach
of urbanism - Regulations
Sustainable urban planning
- Regulations - Audit -
Consultancy - Studies and
Engineering



VISSMANN FAULQUEMONT

Manufacturer - Maker

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STAFF

550 people

Activities

The VISSMANN Faulquemont plant (80,000 m² production area) is the second largest industrial site of the Viessmann Group, which has 28 plants (turnover of 1.9 billion in 2011, 10,600 employees worldwide).

Since 1972, when the Viessmann manufacturing site was created in France, the plant has become a centre of expertise for the hot water storage tank and solar thermal activity.

Today, VISSMANN Faulquemont is not only the most experienced in its field but is also the leading French manufacturer of solar thermal systems.

VISSMANN Faulquemont also has 550 employees (900 in total in France with the sales company).

The site has its own R&D centre, including quality and performance testing facilities for the products.

Since 2011, VISSMANN Faulquemont has been exporting directly to South America, Africa and French overseas departments and territories. A VIE, providing technical support for all Latin American customers, has been stationed in Chile since 2012.

References

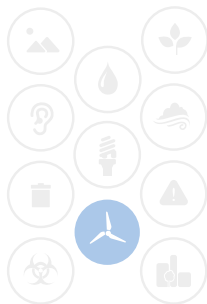
VISSMANN Faulquemont has numerous references in solar thermal in the world: Germany, France, Poland, Turkey, USA, Arab Emirates...

2 penitentiary centres built by the Government and private companies in Mexico have been equipped: 2500 m² of flat plate collectors and 210 1,000-litre tanks.

The installation of 20 solar systems was carried out for a hotel located in the Atacama Desert in Chile as well as colleges and medical units.

In Morocco, 480 CESCI have been installed and several projects are being delivered to Kenya.

As for the French overseas departments, more than 4000 m² have been marketed and are in operation.



Thermal solar



WAF DIRECT (AIR&ME)

Manufacturer - Maker , Service company

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STAFF

8 people

Activities

If the environmental problems related to air pollution are nowadays known by everyone, it is not the same for the problems related to indoor air pollution. The latter are still unknown to the general public and often underestimated. The progressive awareness of air quality issues has become collective in recent months, and the issue of air treatment is now a real public health objective. air&me has always been at the forefront of these societal and environmental developments, which is why we have been marketing air purifiers, dehumidifiers, humidifiers, fans, connected sensors, heaters and essential oil diffusers for over 15 years.

air&me is first and foremost an appliance brand that invests in R&D and innovation to offer exceptional, connected products with the best quality/price ratio. We are both manufacturer and distributor of our own brand, and exclusive importer in France of the brands Stadler Form, Blueair and Airthings, whose products are at the forefront, of the latest generation and not doomed to programmed obsolescence.

Our products and those of our partners are partly made from recycled materials. Their packaging is designed to contain as little plastic as possible and a maximum of recycled and recyclable cardboard. Our essential oil synergies contain a major part of organic essential oils.

In addition, we offer a repair service for our products, which allows us, whenever possible, to repair them and increase their durability.

CSR is now an integral part of our approach and our commitments. We make every effort to apply these principles to everything from new product development to the day-to-day running of the company.

To learn more about indoor air quality, please visit our blog: <https://www.airandme.fr/blog/>

References

Today, we sell our products in major retailers such as FNAC-Darty, Leroy Merlin, Boulanger, etc.; on the web via our own website and marketplaces, as well as internationally, via a network of resellers. Among all our references, our best-sellers are

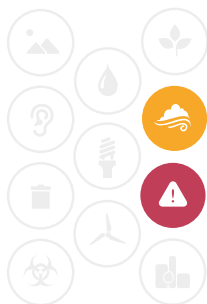
- LENDOU, a connected and customizable HEPA 13 air purifier. It has different interchangeable fabric prefilters, a set of high and low feet, 2 USB ports, and an optional induction charging tray.
- ROHAN, a connected compressor dehumidifier with a dehumidification capacity of up to 50L/day.
- ORAIN, a small dehumidifier, ideal for small spaces, and with a quality-price ratio unmatched on the market.
- AIRAIN, a USB desk fan, with soft blades, safe for children.
- SOLNAN, a humidifier with a top-fill system and integrated hygostat.

We regularly develop new innovative products, which is the case at the moment:

- we are working on an evaporative humidifier.
- we are working on a connected ceiling air purifier, for companies, professionals and communities. We have filed a patent on this subject.

Certifications, labels or prize

- 2009: Oxygen Awards: special jury prize for its "innovative technologies for improving indoor air quality"
- 2010: Silver Palm of E-commerce, by the Chamber of Commerce and Industry of Paris



Air quality and odours
control - Analysis -
Measurement - Monitoring
- Gas and fumes - Gas
Pollutants - Indoor air quality
- Odorous compounds
- Particles - Training or
awareness - VOC



WAGA ENERGY

Manufacturer - Maker, Research department - Engineering

ADDRESS

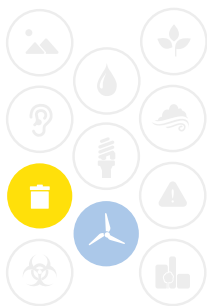
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STAFF

55 people



Biogas - Combating
greenhouse gases
Combating greenhouse
gases technology
Controlled landfill - Energy
extraction from waste
Regulations - Audit
Consultancy - Studies and
Engineering

Activities

LANDFILL GAS UPGRADING INTO GRID COMPLIANT RENEWABLE NATURAL GAS

Waga Energy upgrades landfill gas into grid-compliant biomethane (also called Renewable Natural Gas or RNG). Thanks to the WAGABOX® technology, which combines membrane filtration and cryogenic distillation, Waga Energy recovers the methane produced spontaneously by the breakdown of organic matter contained in the waste to inject it directly into the gas grid.

Most of waste ends up in landfills. Once landfilled, the organic materials they contain degrade and produce a gas containing a high proportion of methane, mixed with carbon dioxide, air (oxygen and nitrogen) and various pollutants. This biogas is very difficult to valorize because of the presence of air and its highly variable and unpredictable nature.

The result of ten years of R&D, the WAGABOX® technology combines membrane filtration and cryogenic distillation to separate the methane from the other components of the landfill gas. It provides high-quality biomethane that is injected directly into the gas grid. WAGABOX® units are fully automated purification units: they operate 24 hours a day, 7 days a week and are remotely controlled by a supervision device.

Waga Energy deploys this solution worldwide through a dedicated business model: Waga Energy purchases landfill gas from landfill site operators, finances the construction of the WAGABOX® units and their connection to the gas network, and generates income by selling biomethane to energy utilities.

The first WAGABOX® unit was commissioned in France in February 2017 thanks to a grant from Ademe as part of the French government's economic stimulus program PIA. Four years later, ten WAGABOX® units are in operation in France. They supply 35,000 households and avoid the emission of 45,000 tons of CO₂eq per year into the atmosphere by substituting biomethane for fossil natural gas.

References

- Saint-Florentin landfill (Paprec-Coved)
- Saint-Maximin landfill (Suez)
- Pavie landfill (Trigone)
- Saint-Palais landfill (Veolia)
- Gueltas landfill (Suez)
- Chevilly landfill (Suez)
- Kermat landfill (City of Lorient)
- Les-Ventes-de-Bourse landfill (Suez)
- Liéoux landfill (Sivom de Saint-Gaudens)
- Blaringhem landfill (Baudalet Environnement)

Certifications, labels or prize

- An innovation grant under the French government's economic stimulus program PIA (Programme d'Investissements d'Avenir)
- First Prize in the 2016 Fighting Climate Change Awards (French energy agency ADEME and the French Ministry of the Ecology, Sustainable Development, and Energy).
- Pollutec 2016 Innovation Awards
- 2016 Start-up of the Year for the Auvergne-Rhône-Alpes region (EY/L'Express)
- Runner-up in the European Business Awards for the Environment (EBAE) 2018
- WAGABOX® is one the 1000 Solutions to protect the environment certified by the Solar Impulse Foundation.





WITTI

Manufacturer - Maker

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STAFF

7 people

Activities

Witti has chosen to place itself at the heart of this evolution by dedicating its activity to innovation and the development of digital services for the management of urban and industrial infrastructures. Initially offering intelligent lighting solutions, Witti aims to expand into new markets both in France and abroad. By placing innovation and digital technology at the heart of its activity, Witti wishes to remain a benchmark player by offering public authorities and private sector players new connected technological tools to help them carry out their missions more efficiently.

References

FASEP in progress for a project in Tunisia.



Energy efficiency



XXL ATELIER CIVITA

Service company

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STAFF

20 people

Activities

Based in Paris, Lyon and Saint-Étienne, our team of 20 people masters both functional and operational urban planning, the construction of public or private buildings, but also skills related to the environment and the philosophy of sustainable development.

Each project brings together a team of men and women with a wealth of experience and ideas. They are committed to presenting sensible, functional answers, in line with the environment, the history of the place and out of fashion. The enthusiasm of each and every one of them allows a real architectural and societal ambition based on a pragmatic understanding of the projects they want to "tailor" for users and investors. All our projects for the last 7 years have been in 3D models up to DCE (leader in BIM design for logistics platform projects) using Archicad and Revit.

The superior certification of specialization in sustainable development and environmental quality in land use planning, urbanism, architecture and construction was obtained by Fabien Jallon in October 2006 after two years of training with ADEME and the Rhône-Alpes Order of Architects. This certification offers project owners real assistance in the implementation of projects contributing to sustainable development. The ISO 9001:2008 certification obtained in December 2009 offers clients an additional guarantee of quality.

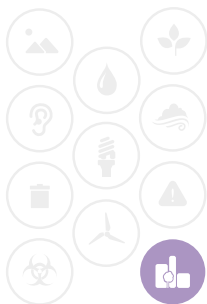
References

Renault Trucks, Établissements Vacher, Almet, La SNCF, The Total Group, Atémi for Bayer Healthcare and Easydis, The Zannier Group, CCR, Groupe Casino, GSE, Loire Habitat, Métropole Habitat, Capital Evolutif Management, Alliade, Foncière Logement, Néolia, Maisons de Pays, Lotir Rhône-Alpes, L'HELIOS SA, La SAIRP, SCP Vallet, Diagram Informatique, l'Opac du Rhône, Bourg Habitat, le Grand Lyon, The SERL, The SEDL, The Loire Departmental Council, The Isère Departmental Council,

The City of Evian, The City of Saint-Etienne, The City of Saint-Just Saint-Rambert, The Rhône-Alpes Region, The City of Gex, The Town Hall of St-Paul-en-Cornillon, The City of Chambon Feugerolles, The Town Hall of Châteauneuf, The Forez-Sud Agglomeration Community, The City of Vénissieux, The City of Rive de Gier.

Certifications, labels or prize

- Certification ISO 9001: 2015 XXL Workshop-Civita
- ArtUrbain Prize for Civita
- 2006 Heritage Ribbon Award Winner for XXL Atelier
- Winner 2009 of the national consultation REHA (Requalification of high energy performance collective housing) of the Research and Experimentation Programme on Energy in Buildings launched by the Ministry of Ecology, Sustainable Development and Town and Country Planning for XXL Atelier-Civita
- Finalist for the Trophées Bati-Actu construction 2016, Trophée Architecture des Maires du Rhône 2016 for the Espace Copamo, a multiservice cluster for the Communauté de Communes du Pays Mornantais (Community of Municipalities of the Mornantais region).



Architecture - Environmental
approach of urbanism

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STAFF

80 people



Clean Development
Mechanisms - Electric
vehicles - Energy
efficiency - Environmental
approach of urbanism -
Environmental development
Environmental Regulations
Implementing territorial
sustainable development
policies - IT and software
Mobility and urban
transport - Photovoltaic
solar - Regulations - Audit
Renewables energies -
Sustainable urban planning
Wind power

Activities

Created in 2010, Yélé Consulting is a consulting and engineering firm in operational strategy in the field of energy transition. For Yélé, the success of the energy transition lies in the intelligent integration of digital technologies and in the operational efficiency of organizations.

With more than 80 employees, Yélé is the independent leader of "Smart Energies" in France.

Because of its "vertical" positioning in the consulting sector, Yélé supports its customers, large groups and regional players, throughout the entire consulting value chain: strategic studies, business and IT project management assistance and change management.

Yélé also has a strong commitment towards Africa, concretized by a local presence in several West African countries.

Our projects in this area are related to training, project management assistance in the modernization and digitalization of electricity companies, access to energy through "off grids" or "on grids" projects.

References**IN FRANCE**

we support our clients, energy companies (e.g. EDF, ENEDIS, RTE, GRDF etc.), industrialists and local authorities, in their technical innovation projects as well as in their Research & Development and demonstrator programs (Smart Grids & Smart Cities in particular).

INTERNATIONALLY, WE CARRY OUT :

- Training: more than 250 people have been trained in our various training courses in Energy and Sustainable Development. We work in particular with network operators, government institutions and companies on their skills enhancement programmes.
- Consulting and engineering: we have accompanied several energy players, in particular network managers and rural electrification operators, in their major development and transformation projects (Smart Grids roadmap, feasibility studies, operational support, etc.).

Club ADEME international

Technologies and services
of french eco-companies

Export catalogue 2023

A pole of excellence for international promotion of French expertise in eco-technologies.

Founded in 1997 at the initiative of ADEME and sponsored by the French government ministries for Ecology, Industry and Foreign Trade, Club ADEME International brings together nearly 140 innovative French companies that are present in the world sustainable development market.

Piloted by ADEME, this network of environmental businesses accompanies its members as they develop innovative international projects and partnerships dedicated to protecting the environment and managing energy consumption.

Club ADEME International, in liaison with ADEME and public bodies, offers many practical services, business intelligence and market information in order to support the international development of its members.

« The year 2023 will be a pivotal year for our Club with an ambitious program, new meetings and new communication initiatives, dictated by the sole concern of supporting you in promoting your actions internationally. »

— Pierre M. TERRIER
Delegate general
of the Club ADEME international



www.clubinternational.ademe.fr/en/



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