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Club ADEME international

Technologies and services
of french eco-companies

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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 for an Ecological Transition and the Ministry for Higher Education, Research and Innovation.

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Edito

From the president



Arnaud LEROY
Président of ADEME

Dear members,

We have lived through a year 2020 marked by an unprecedented health crisis which has affected entire areas of our economy but, I am convinced, the "France Relance" Plan – The French Recovery Plan - offers us a unique opportunity to accelerate the ecological transition, just like the Ademe-BPI merger to build together solutions adapted to the needs of the transition, this common challenge.

The ecological transition is indeed at the heart of our strategies to end the crisis and France Relance with 30 billions dedicated more particularly to the energy renovation of buildings, the decarbonization of industry, the development of daily mobility, the biodiversity and agricultural transition. As we know, this is the best lever for creating the conditions for more sustainable and inclusive growth.

As such, ADEME will be fully mobilized and has been given additional resources to better support start-ups, SMEs and mid-cap companies:

- Doubling the circular economy fund to € 360 million to encourage recycling, reuse (particularly of plastics) and sorting, recovery and reduction of waste, particularly bio-waste;
- A "hydrogen" envelope of € 125 million to support "H2 mobility and industry" territorial ecosystems, in support of the national hydrogen strategy;
- Support for VSEs / SMEs in the energy and ecological transition with nearly € 100

million for ecodesign, sustainable tourism or engineering aid;

- € 1.2 billion for the decarbonisation of industry, with a specific effort on the electrification of processes and carbon-free heat.

ADEME will also be called upon to support innovation in key markets in green technologies through the Future Investments Program 4, endowed with 3.4 billion, in the following sectors:

- hydrogen,
- recycling and reincorporation of recycled materials,
- bio-based products and biofuels,
- agro-equipment for ecological transition.

In short, supporting companies in their ecological transition remains at the heart of ADEME's missions with increased resources and a renewed service offer, notably thanks to our service platform «AGIR pour la transition».

In these uncertain times, the ecological transition remains our compass and we are more than ever committed alongside companies, with the Club ADEME International, to bring out innovative solutions that tomorrow can be deployed in high-growth international markets.

With this new catalog, I invite you to discover the diversity of the profiles of the Club's eco-companies which are the very proof that the low-carbon transition is within our reach.

Happy reading everyone!

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
- A growth of 20 % of the export turn over in 2017

MORE INFORMATION :

www.clubinternational.ademe.fr



A word from

The delegate general

Pierre M. TERRIER
Delegate general
of the Club ADEME international



Choosing Eco-innovation for a desirable future ...

Dear Club members,

The new edition of our 2021 catalog is now in your hands!

Its design and production of which by our teams, due to the health context, use to be a real challenge.

It is destined to become a singular object, see a «collector» because, not only does it not succeed the 2019 edition chronologically, but it is the last - not least - to be published in paper format.

Our next editions will be entirely digital, thus translating into action our desire to participate in the Resource economy.

Health situation we are going through – now way to ignore the subject - has slowed down the course of time for many of us and has forced us to question our working methods, our growth prospects, our relationships within our companies and even on the meaning of our actions.

It made us realize that we have become «part of an entire world» and that the Pangolin effect, born on the other side of the planet, could shake the edifice of our projects and our lives.

This structural fragility of our globalized system urges us to review the models on which we had built an ideal future where the race for progress could have no limit except that of our imagination.

This is undoubtedly the case with our relationship to innovation, innovation which

is one of the common denominators of the members of our Club.

We can have invested ourselves in innovation with an apparently laudable idea and goal which is to put it first at the service of performance ... With the ambition to be a pioneer in a field, to be at the point of service or to place our company in a dynamic of constant progress.

But it now appears that this race after “improbable stars” shows its limits and that innovation can also participate, according to the analysis of JAMES and FUSLER * in the triumph of «the individual « mainly focused on the valorization of his identity and the irrepressible satisfaction of his needs.

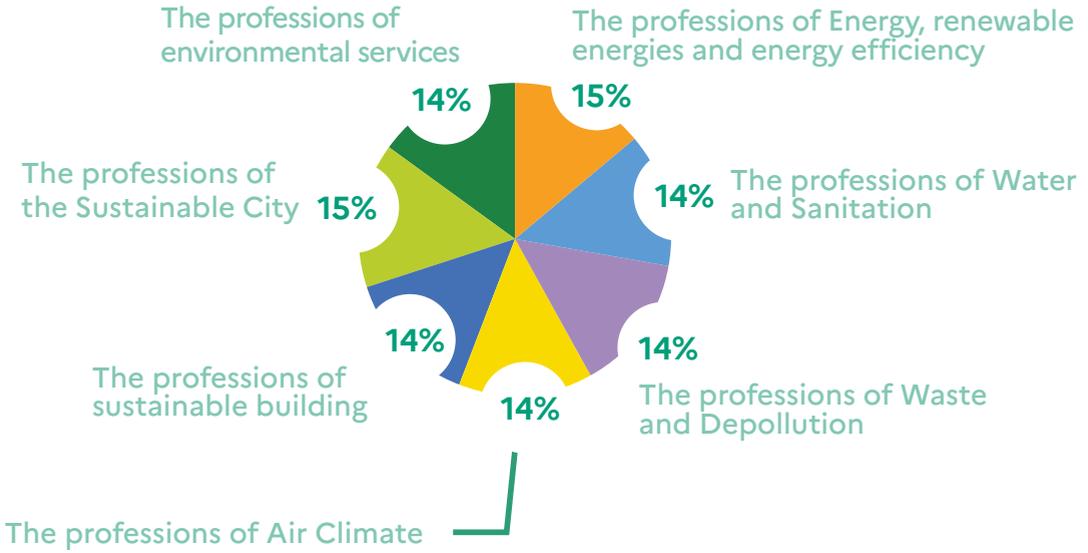
What if events today invited us to consider innovation as a priority actor in changing behavior and organizations and as a means of making us evolve towards new ways of acting, producing or even consuming? To make us, our employees, our clients and partners “cooperative individuals” who feel more in touch with the Society?

The year 2021 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.

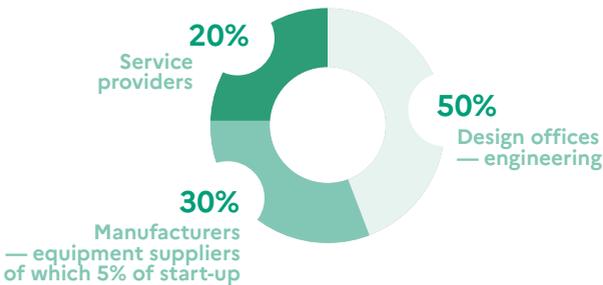
Do not hesitate to talk about us around you and invite companies in your networks to join us!

**Enjoy the reading,
Best regards**

Creation of a College of trades in the spring of 2021



Distribution by activities 2020



22 new memberships since 2020

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.

Djibouti

An innovative collaboration!

Interview with Pierre Bellagambi for QISTA by TECHNO BAM and Pierre Terrier for BIG WATA SOLUTIONS, October 19th, 2020.

Gentlemen, when was your professional meeting?

Pierre Terrier : It dates from the end of 2019. It is also under the leadership of Club ADEME International that we both attended the presentation of a call for sustainable city projects in Africa at the Africa France Summit. The Club had prepared us to present our companies and a combination of circumstances brought about our meeting. Pierre Bellagambi from QISTA was presenting his company's expertise in setting up bollards in built-up areas and being a kind of mosquito trap. There in my chair, I received an SMS from my Djiboutian client telling me about a very important rainfall event and the resulting mosquito infestation.

Is it raining in Djibouti, isn't that common?

Pierre Terrier : Imagine that this city is more and more hit by significant rainy episodes.

This is a new phenomenon and is the result of climate transformation. However, this city of almost 950,000 inhabitants is not prepared and has no reflex or suitable infrastructure. Following these rainy episodes, the tiger mosquito appeared in numbers.

But who is your client on site in Djibouti?

Pierre Terrier : I am a specialist in wastewater treatment with BIG WATA SOLUTIONS, it is precisely the local public water treatment officer who sends me this message. He asked me about a solution to fight against the ravages linked to mosquito bites; chikungunya, dengue, yellow fever, malaria.

How quickly did you put your two offers together?

Pierre Bellagambi : I immediately offered 4 of my terminals to be placed around the containerized solution from BIG WATA SOLUTIONS and the combination of our two offers completely met Djibouti's demand.

We were innovative technically but also systemically.

But hasn't Djibouti eradicated malaria in recent years?

Pierre Bellagambi : It would have been great but since 2014 when the city had almost reached its goal, the infestations have returned with force. With these rains,

Anopheles stephensi, which is a species of mosquito that evolves very well in the city, has developed rapidly. From year to year, the health situation can deteriorate seriously. Even the army had seen an upsurge in infections among its troops. A female can lay 200 eggs over a period of 48 hours.

The phenomenon is explosive when it starts.





Are new technological solutions of this type so obvious for contractors to understand?

Pierre Terrier : I have been working in Djibouti for years and even installed my first containerized solution for wastewater treatment there. The reactivity to this QISTA solution combined with mine was immediate and even the Minister wanted to have a regular report on the mosquito capture. The most complicated thing in our business is having to explain the disruptive nature of our solutions because calls for tenders are not able to formalize them.

Do you mean that you anticipate or that you exceed the practices?

Pierre Bellagambi : Regarding mosquito control, it is common to see stakeholders requesting the application of products such as

Deltamethrin (adulticide) or Bti (larvicide), which has an impact on the biodiversity of local environments. To go beyond the practices, there is necessarily a time for explanation.

Pierre Terrier : In my job I work on containerized solutions but often certain design offices recommend civil engineering to set up concrete basins. However, these practices, or the culture of expressing demands, is changing very rapidly in Africa. This is an imitation market. If the solution works here, other neighboring countries come to watch for inspiration.

But what is the key to accelerating this awareness?

Pierre Bellagambi : The example without question. The experience we have just launched in the city of Kaolack in Senegal is significant.

The ministers of the country were present, the embassies, television and radio too. In 6 months we will have this reference from Djibouti which will amplify the reputation but also change mentalities. On another side of business in Africa, it is necessary to be able to offer solutions with very low operating costs.

Pierre Terrier : Absolutely, a weak OPEX is a key driver of the decision. I add that these achievements when cleverly combined provide another angle to deal with problems. For example, I work with my company on the processing of sugar cane or fruit food chains. These companies have serious problems with employees who get sick from being bitten all day. This is, I believe, the strength of Club ADEME International companies in being able to transform the approach to solutions by enriching each other.

Which countries can you develop towards with these references?

Pierre Terrier : We are going to have a beneficial showcase effect on Chad with which we have a good level of dialogue.

But it is also throughout East Africa and primarily Ethiopia, a large country of 100 million inhabitants which is itself a gateway to the countries of the Arabian Peninsula. QUISTA and BIG WATA SOLUTIONS can respond to requests separately but also by adding our financing networks, our expertise with a global or corporatist approach in the field. We are thus strengthening our businesses on solutions for the environment and climate preservation.

Well done and thank you to both of you.

Interview conducted by Mathieu Calles for Club ADEME International.

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1 people

TURNOVER

International turnover :
30 M€

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



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Manufacturer - Maker, Research department - Engineering, Service company

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Biochemical processes
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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:

- 2021 Most Innovative in Water Treatment Solutions – Corporate Live
- 2021 Award project «Mer & Littoral Occitanie»
- 2020 Award for the most innovative wa
- 2020 Award for the most innovative water treatment research and design firm in France for the year 2020
- 2020 Pollutec Innovation award international
- 2020 SmartPort Challenge Marseille winner for the construction of the port of the future and energy recovery from wastewater!
- 2020 Selection of innovative solutions for a sustainable port
- 2020 Product selection and innovative company BioBarrier MarineMBR – Euromaritime SEAnnovation!
- 2019 Innovation Award Coup de Coeur, BioBarrier Marine MBR Salon Nautic Paris!
- 2019 Prize for the best project of the year 2019, for the treatment and reuse of wine effluents at the Castello di Amorosa estate!
- 2019 Award for Best Social Media Program awarded by BioMicrobics!

A company with great potential, definitely in the era of time.

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- l'assainissement
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Activities

ACTIV HOME is the exclusive distributor of wood-straw building modules produced in short industrial circuits using the patented ECOSTRAUV® process. This constructive wood-straw module is used both as a framework and as insulation for walls, partitions or high or low floors.

Our modules used in walls are load-bearing up to R+2 (2 floors). Beyond R+2 our modules can be used as envelopes and floors to be laid on steel frame type structures. The low weight of our modules (about 100 kg/m²) would allow this type of construction.

The purpose of our activity is to sell the process to mesh the territory in France and abroad. But to accompany our customers builders, architects or promoters and convince them of the interest of our process, we can produce the modules ourselves for the first realizations (manufacture, delivery and assembly of the modules on site with our ten-year guarantee).

Today, straw construction tends to develop rapidly. It is governed by professional rules controlled by the RFCP (French Straw Construction Network) and approved by the AQC (Construction Quality Agency)



Architecture
Environmental approach of
urbanism
Sustainable urban planning



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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

Pitch des 20 ans du Club ADEME International

Certifications, labels or prize

IN FRANCE

40 operational references since 2005 with Veolia, Suez, Saur, industrial companies (Sojasun, Bruggen, Adonis, Pappaterie...), local authorities (Belley (01), Bourges, Greater Dijon) and internationally (Russia, Ireland...).

INTERNATIONALLY

City of SAINT PETERSBURG in Russia with VEOLIA WATER, Medite Europe in Ireland.



Combating greenhouse gases technology - Energy efficiency - Regulations - Audit - Consultancy - Studies and Engineering - Sewage treatment plant - Sewage, industrial, cleansing and dredging sludge - Utilization and waste disposal - Wastewater



AKUO ENERGY

Research department - Engineering, Service company

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STAFF

180 people

Activities

AKUO ENERGY is a private group specialized in the implementation of electricity production units from renewable resources: wind, solar, hydraulic, biogas, biomass, marine energies. Our intervention extends throughout the life cycle of power plants: studies, design, financing, construction and operation.

Of French origin, AKUO ENERGY has, by vocation and ambition, an international dimension, as shown by the variety of its locations. Present in mainland France, the French overseas departments, Poland, Croatia, Bulgaria, Turkey, the United States, Morocco, Indonesia, Mali and Uruguay, Akuo Energy adapts its know-how to the specific local energy needs.

Independent of the manufacturers of power generation equipment, Akuo Energy selects the best technological solutions according to the resources to be exploited and the problems specific to each site. Today, AKUO ENERGY has nearly 200 MW of projects in operation, more than 400 MW already financed, and an overall production capacity target of 3,000 MW within 5 years.

Certifications, labels or prize

The Bardzour project (Port Detention Centre, Reunion Island), was the 2015 winner of the My Positive Impact campaign of the Nicolas Hulot Foundation.

The project combines renewable energy (over 8000 teq CO2 avoided per annum) and responsible agriculture.

Coupled with an innovative storage system, the photovoltaic plant (9 MW, supplying 12,000 inhabitants per year, commissioned in 2014) is associated with a plan to reintegrate prisoners through sustainable market gardening, beekeeping and the planting of an arboretum with more than 1,000 plants, including 50 endemic tree species.

The NEMO (New Energies for Martinique and Overseas) project, the first marine thermal power plant (Bellefontaine, Martinique) was a winner of the NER 300 innovation financing scheme. This plant, which is scheduled to come on stream in the summer of 2019, is a world first with strong commercial potential for export.



Regulations - Audit
Consultancy
Studies and Engineering



ALTEREO

Research department - Engineering

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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 an independent engineering and consultancy firm, winner of the French Engineering Grand Prize and labelled Greentech Innovation. We assist our clients in the sectors of Water, Environment, Cities and Territories and Geographic Information Systems.

At Altereo, our engineering services are focused as much on eradicating leaks in drinking water networks as on optimising the electricity consumption of water utilities, using 3 levers:

- reducing the duration of leaks (where to look for them first)
- reducing the number of leaks (which pipes and service connections to replace for maximum efficiency)
- reducing the flow of leakage (by reducing the pressure)

Our R&D now provides us with:

- HpO®, our artificial intelligence which identifies the network components with the highest failure risks so as to implement Responsible Asset Management
- Kilowater®, our tool that simultaneously reduces the flow of leakage and identifies local electricity generation opportunities
- KIS® our GIS dedicated to water network management, including HpO® collect which provides a daily link with field agents

We offer our customers the opportunity to benefit from our unique technologies and know-how to ensure the efficiency of their water distribution infrastructures and to succeed in their ecological and energy transition.

References

IN FRANCE

For more than 30 years, 5000 clients of all sizes, mostly public, have trusted Altereo for engineering, urban planning, consulting and IT projects.

INTERNATIONALLY

PPWSA, Phnom Penh, Cambodia – LYDEC, Casablanca, Morocco – ONAS, Tunisia – Algérienne des Eaux, Algeria – SODEC/ CIE, Ivory Coast – Yamoussoukro Province, Ivory Coast – CAMWATER, Cameroon – Zou Province, Benin – Santo Antão, Cabo Verde – KHAWASSCO, Nha Trang, Vietnam – RADEEF, Fez, Morocco – EWA, Bahrain – Régie des Eaux de Saint Marc, Haiti – Société Tchadienne des Eaux – Tchad – Namwater, Namibia – NWSC, Kampala, Uganda – GWCL, Ghana.

Certifications, labels or prize

Patent for the HpO® technology – National Grand Prize for Engineering (France) 2019 – Greentech Innovation – BPI France Excellence – French Tech – UN Global Compact – Vivapolis.



ALYCE

Service company

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50 people

Activities

ALYCE is the specialist of mobility measurement. Since 2000, ALYCE offers a complete service of traffic data collection, in any environment to its clients. High technology tools have been developed to collect, analyze and to picture traffic flows easily. Traffic counts, passengers surveys, active travel measurement, travel time...ALYCE can provide permanent or punctual data, delivered through a datavisualisation platform. Those insights help to set tomorrow's transport policies.

PRODUCTS

- OBSERVER by ALYCE : Real Time Traffic & Environment Observatory for Smart Cities
- MyGIS : the Mobility Data Hub + Dataviz Platform
- H2S : Innovative Household Survey Mobile App

SOLUTIONS

- AI & Video-based traffic analysis software
- Smart Sensors, drones, radars, tubes
- Traffic & passengers surveys
- Big Datas applied to mobility
- Datavisualisation platform

References

ALYCE achieves about 15% of its turnover from exports, in support of design offices & engineering studies made in France. International missions mainly take place in Africa (i.e around 20 French-speaking, English-speaking and Arabic-speaking countries).



Environmental approach
of urbanism
Mobility and urban
transport



ANTEA GROUP

Research department - Engineering

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STAFF

940 people

TURNOVER

International turnover :
10 M€



Biogas - Biological treatment
Composting fermentation
Collection, transport and
treatment of cleansing
sludges - Controlled landfill
Environmental approach of
urbanism - Environmental
Regulations - Geothermal
energy - Industrial risks
Logistics, Collection,
Transport - Regulations
Audit - Consultancy
Studies and Engineering
Seepage water in landfill /
leachates - Sites remediation
decontamination works
Waste centres - Wind power

Activities

Antea Group is an international environmental engineering and consulting company with nearly 3,500 employees in 15 countries including Belgium, Colombia, France, the Netherlands and the USA.

In France, Antea Group combines engineering techniques with earth, water and environmental sciences to ensure the success of its clients' public and private development and infrastructure projects. Antea Group has around twenty offices in France and four offices in the French overseas departments (Guadeloupe, Martinique, French Guiana and Reunion Island). In addition, with a network of around ten offices in Africa, Antea Group has acquired considerable experience in projects in Africa and more generally internationally.

Antea Group is the only player capable of offering a multi-skilled approach to the entire range of environmental engineering issues. Antea Group offers services ranging from consulting and expertise, to design project management, auditing and environmental data management.
Activity: 5,000 customers. Private 70%, Public 30%.

References

IN FRANCE

Numerous references in mainland France and overseas:

AMO sustainable development and innovative energy solutions for the ZAC Presqu'île Scientifique de Grenoble ;
Soil decontamination of Renault's Trapeze and Ile Seguin sites in Boulogne-Billancourt; Project management of the "La Tuilerie" ecocenter, including an ISDND with a capacity of 80,000 m³/year.

ON THE INTERNATIONAL SCENE

Route study and impact assessment of a 330 kV line between Côte d'Ivoire and Ghana (EIB loan) ;
Russia – Detailed environmental assessment of a car plant on behalf of Renault ;
Chad – "Water and Services" project in the outlying districts of N'Djaména (AFD Financing)

Certifications, labels or prize

Antea Group is an innovative company: Grand Prix National de l'Ingénierie in 2010 for the Mont Saint-Michel hydraulic installations, "Crédit Impôt-Recherche" approval since 2007.



APB ENVIRONNEMENT

Manufacturer - Maker, Service company

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STAFF

10 people

TURNOVER

International turnover :
15 %



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, McDonald's, Eurodisney, La Poste, Ciments LAFARGE, Dassault, RENAULT, National Assembly, Le MERIDIEN, VEOLIA Propreté, VINCI, Paris City Hall...

INTERNATIONALLY

ACCOR Group, SHELL, Vietnamese Ministry of Health, Red Cross, Nestlé...

Certifications, labels or prize

CERTIFICATION

In the process of ISO certification (ISO 9001: 2008).

AWARDS

- 1st prize for "International Sales Performance" at the Île-de-France regional competition awarded by the DCF (Dirigeants Commercial de France) in 2013.
- 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.



APIX ANALYTICS

Manufacturer - Maker, Service company

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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



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
Aubevoye wastewater treatment plant
Water treatment plant Asnières sur Oise
Saint Michel wastewater treatment plant Chef in Guadeloupe
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



AR-VAL

Manufacturer - Maker, Service company

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STAFF

50 people

Activities

For more than 20 years, Ar-Val has worked every day to meet the challenge of a cleaner world, by optimizing the management of household and industrial waste through the design and implementation of waste sorting and treatment processes.

Ar-Val uses quality materials and is vigilant about the energy consumption of its equipment.

Ar-Val innovates and offers the best technical and economic response, by designing flexible and scalable sorting and treatment centers, capable of adapting to any possible changes in the composition of the waste. Through the range of its sorting, recycling and recovery business expertise and its full range of turnkey solutions, Ar-Val meets the expectations and requirements of its customers.

References

Since its creation in 2000, Ar-Val has grown steadily to become a key player of the sustainable economy in France and internationally. With nearly 90 references of sorting and waste treatment centers, Ar-Val is able to design and carry out processes for:

Selective collection, Sorting on raw household waste, Composting, Methanization, DIB (Ordinary industrial waste), Air treatment, CSR (Solid Recovered Fuel), WEEE (Waste Electrical and Electronic Equipment).

Ar-Val is also present in Europe (Belgium, Poland), in the French overseas departments and territories (in Guyana, and Martinique), but also in the Indian Ocean (in Reunion), in the South Pacific (in New Caledonia) and in the Arabian Peninsula (in Saudi Arabia).

AR-VAL has also developed an innovative solution to respond appropriately to the problem of waste management in developing countries. The VAL'BOX concept is modular and autonomous, it is deployed in all areas, including crisis theaters (war zones) or post-crisis. It is a mobile unit which can also be used for business continuity in the event of work on an existing unit.



Collection, transport and treatment of cleansing sludges - Regulations - Audit Consultancy - Studies and Engineering - Treatment and sorting



ARECO

Manufacturer - Maker

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STAFF

83 people

Activities

Created in 1998, ARECO is a French Food Tech, specialising in the performance of fresh food departments, in the service of the fight against food waste, the promotion of better eating and the preservation of the environment.

ARECO belongs to the ARFITEC Group, the world leader in humidification technologies and liquid diffusion solutions through its misting and nebulisation systems.

ARECO offers tailor-made products and services to actively participate in the development of the consumption of fresh produce: nebulisation, Fresh Herbs module, cooling plates, remote maintenance... The company designs, manufactures, markets, installs and ensures the maintenance of all its products.

Present on fresh departments (fruit and vegetables, seafood, butchery, cheese), ARECO solutions allow food retailers to better promote and improve the management of fresh departments: attractiveness, freshness, better preservation of products throughout the day.

We are constantly innovating in the design and installation of tailor-made products and services to offer our customers personalised solutions. 10% of the company's turnover is devoted to Research and Development. Through the LIDIT brand, we sell a range of solutions to improve the performance of spaces for industry, food industry and laboratories. Our nebulisation system improves the production and manufacturing process in cheese and wine cellars. Over the last ten years we have also developed a solution for the disinfection of clean rooms in pharmaceutical laboratories.

References

Our solutions are present in Germany, Belgium, Spain, Italy, Russia, Switzerland and Portugal. More than 4,500 stores worldwide have chosen our solutions to manage and increase the value of their fresh produce departments.

In addition, we have a subsidiary in the United States and a subsidiary in Australia to manage our activities in North America and Oceania.

Certifications, labels or prize

- CSR approach since 2011
- Afnor Professional Equality Label obtained in 2016 and renewed in 2019
- 24 patents
- UL and CSA Standards
- Compliance of our machines with the DEEE and RoHS directives
- Economic Development and Employment Awards – 2018
- COTE Invent' sustainable development trophy – 2017
- National CSR Trophy – 2015
- PACA CSR Trophy for SMEs – 2014
- CSR Trophy 06 for SMEs – 2014
- Nice Matin Innovation Prize – 2012
- INPI Innovative Development Trophy – 2010
- Export Class Trophy for international dynamism – 2009
- SIPEC Innovation Trophy – 2018
- Sales representative performance trophy – 2007
- Jean-Jacques Matern Trophy for promising development – 2001



Corporate social responsibility
Eco-design and clean technologies - Mechanical-physical processes
Protection of the biodiversity - Water filtering in tap - point of use



ARIA TECHNOLOGIES

Research department - Engineering, Service company

ADDRESS

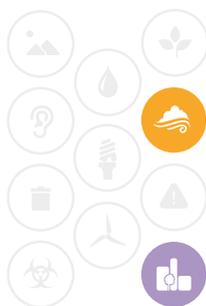
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STAFF

30 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, US-DOD

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) , SOPRAR (Salvador de Bahia, Brazil), Lagos urban project (Nigeria), NECC Saudi Arabia National System

Certifications, labels or prize

Grand prix Generali des Respirations 2014 for the AIRCITY project

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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 (aerobic 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

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STAFF

100 people



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.



AZIMIO

Service company

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STAFF

2 people

Activities

Azimio Field Consulting is a consulting and field research firm whose objective is to assist organizations with high social and environmental impact in their establishment or the development of projects in emerging countries. Our missions aim to provide these organisations with a clear vision of local dynamics in order to adapt their model and increase their environmental impact tenfold thanks to a good understanding of local issues and needs.

In order to best support our partners, we have developed a field survey methodology derived from social sciences, allowing us to understand local ecosystems as precisely as possible, in order to build relevant and sustainable projects. In our opinion, taking into account the specificities of a territory (political, economic, ecological, cultural) is essential for the implementation of sustainable projects – with a high environmental and social impact.

References

We only work on international projects alongside French companies. We have carried out field consultancy missions in Mozambique, Kenya, Tanzania, Morocco, India and have upcoming projects in West Africa.



Carbon Balance - Cleaning
Corporate social
responsibility
Environmental approach of
urbanism - Environmental
Regulations - Industrial
ecology - Mobility and urban
transport - Regulations
Audit - Consultancy
Studies and Engineering
Regulations - Waste centres



AZOLA

Manufacturer - Maker, Research department - Engineering,
Service company

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STAFF

4 people

Activities

A simple and efficient process! 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



BERTIN MEDICAL WASTE

Manufacturer - Maker

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STAFF

15 people

Activities

Bertin Medical Waste, a brand of the Bertin Technologies group, develops compact and innovative solutions for the on-site treatment of bio-medical waste at risk of infection. BERTIN MEDICAL WASTE is leader of medical waste onsite management solution with an range of Equipment STERILWAVE 100 (20kg/h) / STERILWAVE 250 (50 kg/h) / STERILWAVE 440(80kg/h) to convert any Biohazardous waste into municipal waste. Our products are the subject of various patents. R&D is strategic for BERTIN which is considered as a SRC (Contract research company). 98% of BERTIN MEDICAL WASTE's turnover is exported. Selling our products internationally has been our axis of development since the creation of BERTIN MEDICAL WASTE.

For more information : www.sterilwave.com

References

We have installed more than 350 equipment in different hospitals in different countries (Europe, Asia ; Middle East, Africa , America, China ...)

Example of Project : ADB & WB National project in Cambodia

Following an international call for tenders organized by the Asian Development Bank (ADB) and World Bank,

- In 2019 ,Bertin won the contract for the supply and the installation of 27 Sterilwave SW100, supply of 27 building in hospitals and training services across Cambodia (Project completed in September 2020)
- In 2020 , BERTIN won similar contract for 27 SW100, building , training services
- the orders will be delivered between 2020 and Q1/2021

Sterilwave is approved and recommended by numerous international institution and organizations (e.g. World Health Organization, ADB, the UN and the Red Cross) as an efficient system meeting all environmental requirement without any liquid effluent rejection and environmental impact.

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



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





BEST ENERGIES

Research department - Engineering

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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

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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

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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

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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

Manufacturer - Maker

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STAFF

450 people

TURNOVER

International turnover :
10 076 M€ Groupe Bolloré

Activities**World's N°1 Player in All-Solid-State Batteries**

Blue Solutions is the company that brings together all the Bolloré Group's energy storage activities. Blue Solutions develops and produces batteries based on its own unique Lithium Metal Polymer (LMP®) technology. After more than 20 years of R & D and building on its expertise in ultrafine papers, plastics, films, and capacitors the Group has developed full solid-state cells and batteries. These batteries are able to satisfy the demands of a number of markets and to respond to the two main challenges of the energy transition: the development of clean transport and the smart management of energy.

A pioneer in solid state batteries, Blue Solutions is the only player able to roll out this proven technology on a large scale thanks to its market's feedback of almost 10 years.

References**More than 200 MWh in operation worldwide**

- **Mini-grids for off-grid commercial and industrial sites:** sizing, integration, supply, installation and maintenance of hybrid power plants (solar/diesel + storage) to 17 performance venues in Africa
- **Mini-grids dedicated to the well-being of local population:** sizing, integration, supply, installation and maintenance of hybrid power plants (solar/diesel + storage) to 9 BlueZones in 4 African countries. Each mini-grid is composed of training center, sports facilities, conference room, star-up incubators, etc.
- Integrated battery energy storage solution (storage + conversion + software) for the super calculator at the University of Abidjan
- Off-grid mini-grid for the worker camp of an industrial site in Sierra Leone

Our products and solutions are under installation in one of the biggest storage plants in France (30 kWh – Ringo project). We are also present in the electromobility market in Daimler electric buses or our Bluebus line.

Certifications, labels or prize**ISO 14001 standard**

BLUE SOLUTIONS IS COMMITTED TO LIMITING ITS CARBON FOOTPRINT IN THE PRODUCTION PROCESS. All production plants in France and Canada are covered by a common environmental management system based on the ISO 14001 standard.

Efficient Solution Label – Solar Impulse Foundation

BlueSolutions received the prestigious Efficient Solution Label from the Solar Impulse Foundation for its solid technology, unique in the world, the LMP® battery (Lithium Metal Polymer). This label distinguishes 1000 innovative solutions having a positive impact on our planet. Thank you to the entire Foundation team and their independent experts for taking the time to analyze us in depth and recognize us as one of the # 1000solutions.

EES Award 2019

BlueSolutions had the great honor of receiving the EES Award 2019 at the EES -Intersolar fair in Munich.

AIFA Award 2018 and 2019

BlueSolutions won two awards at the 2nd and 3rd editions of the African Investment Forum Award – AIFA (African Investment Forum Award) in Paris.



Energy efficiency - Mobility
and urban transport
Renewables energies
Sustainable urban planning



BUYCO

Service company

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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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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

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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 beacons, 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

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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



CERWAY

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.

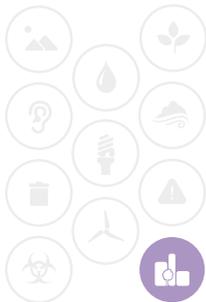
HQE is a certification, which attests to the success of a voluntary approach to obtaining a sustainable building or territory within the principles of sustainable development. This approach is applicable anywhere in the world, regardless of the local regulatory, cultural or climate context.

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





CHROMATOTEC GROUP

Manufacturer - Maker, Research department - Engineering

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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, SEMPRO, 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 ou prix

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



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



CIAC INTERNATIONAL TECHNOLOGIES

Research department - Engineering, Service company

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STAFF

11 people

Activities

SMARTGRID :

Packaged solution for Energy Management (EM), Energy Efficiency, and network supervision.
Development of innovative tools based on IA for the energy transition.

MICROGRID

Recognized expertise in studies and installations for co-generation, sorting and quad-generation with aeroderivative turbines.

References

Coordinator of VERTPOM® -Genuine Energy of the Positive and Modular Territory : Multifluid and modular solution for a "Positive Energy Territory" through a set of digital tools, including simulators and algorithms based on artificial intelligence for Energy Efficiency via VERTOPEN®.

VERTPOM-BANK® decision support tool ensures an optimized energy balance in the territory through its predictive management of all available data: climatic, societal and energy.

A GLOBAL OFFER for a positive energy territory



ARTIFICIAL INTELLIGENCE

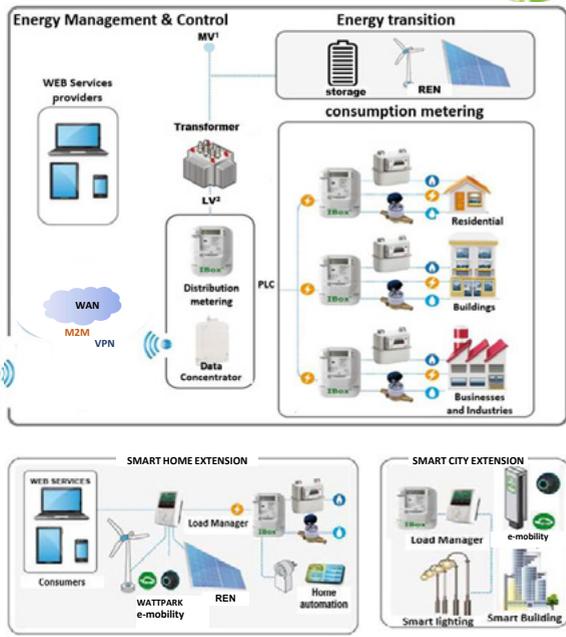


iDems Internet Data Energy Management Services



CYBERSECURED DATA
Private Cloud Data Center
Outsourced Backup

Operator IS interfaces:
billing, accounting, CRM, GIS ...



1 - Medium voltage distribution
2 - Low voltage distribution



Combating greenhouse gases - Energy efficiency
Industrial ecology - IT and software



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 ou prix

- 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

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STAFF

10 people

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 ou prix

- 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.



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



COOL ROOF

Research department - Engineering, Service company

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Activities

GLOBAL WARMING – The vicious circle of active cooling solutions and urban heat island effect

Break the vicious circle of active cooling solutions

One of the consequences of the global warming is the increase of heat waves. In order to maintain a comfortable living environment investment in active solutions such as ventilation and air conditioning are exploding. According to The International Energy Agency energy demands to refresh buildings has more than tripled since 1990. The increase in refrigerant gases is harmful to the climate and contribute to the global warming: the more we cool buildings, the more we heat the planet.

Coolroofing is one of the passive solutions likely to break this circle. It consists of using paints with specific radiative properties that avoid solar heat to be absorbed by roofs and thus reduce the effect of urban heat island.

Urban heat island effect

In the majority of cities, the increase in temperature peaks linked to climate change are also exacerbated by the urban heat island effect: the envelopes of buildings absorb solar flux, store energy to turn it inside, but also outside. The concentration of buildings creates a significant difference between city and countryside.

COOL ROOF FRANCE – A social enterprise committed to local economic development and social inclusion

Cool Roof France was founded in 2015 with the objective to create and popularize passive solutions to protect buildings from high heat in a low-tech, multicultural and social justice logic thanks to a sustainable economic model.

The company is also involved in international organizations such as the Cool Coalition and Global Alliance for Buildings and Construction.

Since last year, Cool Roof France has been present thanks to **social finance** in **Senegal**:

- Market reasearch (**EU- InnoWide**) to advance market knowledge, bio-based procurement and transfer
- A demonstration projet (**USA-MCRC**) to paint and instrumented 17 buildings of a neighborhood. A network of “coolroofers” has been created.
- Spreading of the solution (**French Government-FASEP**). Collaboration of the agency in charge of managing public buildings in Senegal (AGPBE). The objective is to cover 15,000m² of public building roofs.

Why using white paint?

The °CoolRoof coating offers a reflective protection that reflects 95% of the solar radiation. This limits the absorption of heat by the buildings and thus will keep them naturally cooler.

This will reduce air conditioning consumption, limiting greenhouse gas emissions. The coating will also provide protection for the existing membrane, extending its life. In addition, the solution will boost photovoltaic efficiency by reducing the heat generated by the solar panel and increasing the amount of capturable solar energy.

Références

- 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 ou prix

Cool Roof France is now positioned on the leading edge of innovative products for coolroofing in Europe and obtained several awards for this :

- Laureate “Greentech Verte” 2018
- Innovative EcoEnterprise 2018
- Best innovative Enterprise Award of “Victoires de la Bretagne 2018”



Energy efficiency
Environmental approach of
urbanism

datalink instruments  d.t.li.

DATALINK INSTRUMENTS DTLI

Manufacturer - Maker

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4 people

Activities

DATALINK INSTRUMENTS DTLI develops and manufactures systems and solutions for the continuous analysis of industrial water, drinking water, surface water, waste water or process water.

We supply continuous analysers and in-situ probes using UV-VIS and IR spectroscopy or colorimetry dedicated to the measurement of the following parameters:

Measured parameters :

TOC*, COD*, BOD*, Nitrates, Nitrites, Ammonium ions, Hydrocarbons (PAH), Sulfides, Phosphates, Chlorophyll A, Fluorescent tracers, Chromium VI, Formaldehyde, Heavy metals (Nickel, Zinc, Iron, Aluminium...), pH, Redox, Conductivity, Temperature, Dissolved oxygen, Turbidity, TSS, Colour... etc.

* Correlation measurement SAC254

Applications :

Drinking water production plants, warning stations, treatment plants, industrial effluent control, industrial processes.

References

IN FRANCE

VEOLIA EAU, OTV, SAUR, LYONNAISE DES EAUX, DEGREMONT, PSA PEUGEOT CITROËN, TOTAL, LOCAL AUTHORITIES AND TOWN HALLS, WATER SYNDICATES, DIREN, SOLVAY, SYRAL, GASCONY PAPER MILLS, SAINT EXUPERY DE LYON AIRPORT.

ON THE INTERNATIONAL SCENE

DEGREMONT (Italy), AKZO NOBEL (Holland), CORNWALL COUNTY COUNCIL (UK), THAMES WATER (UK), HYDRO AGRI – NUTIRTE (Canada), Environmental Agency (China), INDAVER (Belgium), COCA-COLA (Poland), COCA-COLA (Colombia), PUNCAK NIAGA (Malaysia), MEKOROT (Israel), HAIFA Chemicals (Israel), Paz (Israel), Takreer (UAE).



Sewage treatment plant
Wastewater



ECO ADAPT

Research department - Engineering, Service company

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STAFF

15 people

Activities

Eco-Adapt offers 2 solutions:

- Energy supervision launched in 2016 to support industrial and tertiary players in their emerging energy certification initiatives (HQE, BREEAM, ISO 50001)
- Predictive maintenance to avoid unscheduled shutdowns of wind turbines, water pumps, etc.

References

Energy bills for the Renault plant in Slovenia are broken down into several activities. Energy management is particularly complex for paint booths, which require a lot of equipment and different energy sources: compressed air, hot air for drying, and air filtration. using fans to keep the atmosphere free of dust. All these activities are closely linked and depend on the number of vehicles treated.

The maintenance manager at the Montreuil hospital has received energy saving targets from general management. Multiple energy uses coexist within its activity: uses linked to the building (lighting, HVAC), linked to medical equipment (scanners, operating rooms, etc.) and to the residence (kitchen, cleaning, etc.).

The Nancy student residence is undergoing major renovations. The management wishes to take the opportunity to set up an energy saving program in order to comply with the thermal regulations in force (RT 2012).

Certifications, labels or prize

Power-Adapt: 1st multi-feeder, wireless measuring unit with qualimetry functions.
Predict-Adapt: covers all types of AC motor failure (incl. Mechanical load) Eco-Adapt, JEl benefiting from the CIR, brings together a majority of engineers and young doctors and is preparing to protect several innovations with patents.



Eco-management - Energy efficiency - Management of fluids and networks
Regulations - Audit
Consultancy - Studies and Engineering - Wind power



ECO-TECH CERAM

Manufacturer - Maker, Research department - Engineering

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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

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

FACILITIES

- Installation of an Eco-Stock® on the plant of Céramiques & Développement in Meymac, Corrèze
- 1:1 scale demonstrators at our Rivesaltes site combining Power To Heat + Eco-Stock

STUDIES

- Energy revamping of a ceramics factory
- Waste heat recovery from an electric melting furnace
- Waste heat recovery from a batch natural gas furnace
- Waste heat recovery emitted by radiation from hot metal products
- High temperature characterization of thermal storage materials

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 Innovator Award Winner



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, Canada, Cameroon, China, Côte d'Ivoire, Cyprus, Denmark, Ecuador, Egypt, Estonia, France, Gabon, Ghana, Greece, Guadeloupe, Guyana, Honduras, Hong Kong, Hungary, Reunion Island, India, Indonesia, Iran, Iraq, Italy, Jamaica, Japan, Jordan, Kosovo, Kuwait, Spain, United Arab Emirates, Kurdistan, Latvia, Lebanon, Lithuania, Libya, Maldives, Mauritania, Mayotte, Mexico, Morocco, Nepal, Nigeria, New Caledonia, Oman, Palestine, Panama, Paraguay, Peru, Philippines, Poland, French Polynesia, Romania, United Kingdom, Russia, Saint Lucia, Saint Pierre and Miquelon, Senegal, Slovakia, South of Korea, Sudan, Syria, Thailand, Tunisia, Turkmenistan, Turkey, Ukraine, Uruguay, USA, Venezuela, Vietnam...

Certifications, labels or prize

- EC
ASME
ISO 9001 – ISO 14001
- 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



ECOGÉLEC

Manufacturer - Maker, Research department - Engineering

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2 people

Activities

Specialist in domestic and photovoltaic panels for the building.

Today, by promoting a short R&D circuit, the company is working on a concept of an energy box allowing, with a single interface, to manage all the flows of a home. An ultra-connected team to follow which has resolutely chosen to enter into the convergence of intelligent housing: energy management, heating, lighting, security and all applications of wired but controlled home automation wireless from your smartphone or any wireless remote control, such as a tablet.



Energy efficiency
Photovoltaic solar



ECOMESURE

Manufacturer - Maker

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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

Activities

ECOMESURE is an innovative French company specialized in providing instruments and connected systems that monitor environmental data.

Building on our history as a trusted name in the distribution, integration and maintenance of scientific instruments throughout France, in 2014 we began designing, manufacturing and selling smart environmental monitoring systems to customers in FRANCE and around the world.

Ecomesure provides many solutions:

- Gas and particulate samplers and analyzers,
- Integrated solutions, from the measurement to data processing,
- Smart systems, micro sensors for indoor and outdoor air quality monitoring,
- Web services for remote data management and analysis solutions,
- High value-added services that include installation, commissioning, training, maintenance, customer services and engineering.

Ecomesure currently invests more than 10% of our sales into R&D and hold a major international patent on a secure data communication and management architecture (INPI patent No. 1552497).

The company has a growth of 14% over last year (2019) and makes approximately 30% of its turnover outside of France. Ecomesure have already managed the implementation of more than 200 projects for connected systems in more than 20 countries around the globe, particularly in North America, Asia, Africa, and Europe. ECOMESURE has a diversified customer base made up of industrial companies, research laboratories, public services, local communities, engineering companies, control providers of quality, health, safety, and environment.

Ecomesure's solutions are marketed directly or through distributors, integrators, service firms and sales representatives.

References

FRENCH MARKET

Airparif, Atmo Auvergne Rhône Alpes, Bouygues, Apave, Dekra, Enexco, SNCF, RATP, Vinci, Sanofi, Air Liquide, EDF, TOTAL, Bureau Véritas, Terideal, Michelin, the city of Lyon, Veolia, CEA, LSCE, Saint Gobain, Sagem, Orano, Ineris, Engie, G-ON, Ispira (...)

GLOBAL GROUP

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

Certifications, labels or prize

CERTIFICATIONS

ISO 9001 -certified, Ecomesure makes 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.

Ecomesure is certified CE, FCC and FSA. 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

LABELS OR PRIZE

- InvestNest Label (Bpifrance), 2016
- Hope, Comfort and Health Award (NOBATEK/INEF4), 2018
- LCSQA campaign, 2018
- Silver Trophy, innovation category, Pollutec Maroc, 2019
- Micro-sensors Challenge, 2018, 2019, 2020.



ECOSLOPS

Technical solutions and service provider

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STAFF

57 personnes

TURNOVER

International turnover:
5,75 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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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



EEL ENERGY

Manufacturer - Maker

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STAFF

8 people

Activities

Eel Energy is a dynamic company that aims to disrupt the nascent tidal electricity sector, thanks to breakthrough **biomimetic technology**. After two decades of research, the company has successfully developed and tested a new means of harnessing tidal energy: the EEL®.

The EEL® has many advantages:

- **Clean, renewable, and low-impact energy:** the technology produces emission and pollutant-free electricity, without causing harm to wildlife or noise and visual pollution
- **A predictable and reliable energy source:** the tides and river flows are highly regular movements that occur both during day and night, allowing for continuous power generation, thus avoiding the shortcomings of other renewable energy sources
- **Greater operation range than traditional bladed hydro-turbines:** due to an unparalleled lower start-up velocity of 0.5m/S and adaptation to flow variation and direction
- **Greater efficiency than traditional bladed turbines:** the membrane system is not subject to the limitations of Betz' Law, and more machines can be placed in the same surface than comparable turbines.

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

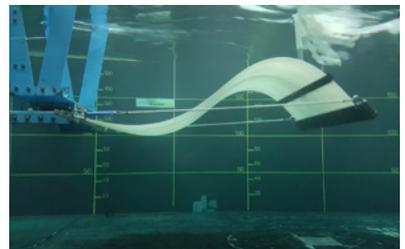


photo credit EEL-Energy



ELUM ENERGY

Manufacturer - Maker

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28 people

Activities

Elum Energy is an energy and automation company that provides cost-effective monitoring and control solutions for hybrid energy systems. These solutions can be adapted to a wide range of applications.

Elum Energy provides solutions for all situations, from hybrid applications to industrial and telecom applications.

Our customers are EPCs and independent energy producers. They install hybrid solar systems with energy storage and/or generators for industrial, commercial, and tertiary buildings and cities and mines.

References

- Mall – Cape Town, South Africa (999 kWp)
- Phosphate Mine – Benguerir, Morocco (submetering)
- Mall – South Africa (360 kWp)
- Hotel resort – Bahamas, Archipelpe Exuma (74kWp)
- Public school – Pakistan (100kWp)
- Roland Garros Airport – Reunion Island
- Supervision of sites distributed on different French overseas departments and territories – Guadeloupe, Martinique, Mayotte, Guyana, Reunion Island
- Supermarket with charging stations for electric vehicles – Guadeloupe
- Solar power plant – Atalaya, Peru (500 kWp)
- Solar power plant – Tamatave, Madagascar (2MWp)
- Utility scale Solar / BESS / Genset plant - Foubouni, Comoros (4 MWp)



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



ENEKIO

Manufacturer - Maker

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STAFF

15 people

Activities

Created in 2011 within the Business Innovation Center of Montpellier Agglomeration, EnekiO designs, develops and deploys complete innovative solutions to remotely address, inform and manage the environmental energy issues of existing local authorities and industries, in a strategic international context. Positioned in the field of energy efficiency, EnekiO reduces energy needs and associated pollution. By reducing the consumption of public lighting by 75%, the pollution induced by the production of the energy necessary for the operation of the equipment is reduced by the same amount. This logic is applicable to the different solutions proposed.

References

The two founding partners, Claude Thouvenin and Franck Lesueur, benefit from 20 years of experience in the export business with companies such as Eiffage and Thales. Their knowledge of Africa and the Middle East has led the company to integrate the international dimension right from the research and development phase. The solutions developed therefore take into account the technical problems present in most parts of the world.

EnekiO sees itself as an international company. After four years of existence, we have already created two subsidiaries associated with the realization of local projects in the United Arab Emirates and Senegal.



Energy efficiency
Regulations - Audit
Consultancy - Studies
and Engineering



ENERGIES DEMAIN

Research department - Engineering

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STAFF

26 people

Activities

We are a consultancy firm specialising in the operational implementation of public policies to reduce energy consumption and combat climate change. Specifically, we support territorial energy observatories, carry out territorial and strategic studies, develop planning, monitoring and impact assessment tools for climate policies. But we also assist local authorities with the energy renovation of housing, to create relevant and effective offers that include information and support for households and condominiums, appropriate financing, as well as the development of the professional sector. Finally, we propose "health-promoting" project approaches and cross-environment/quality of life approaches.

References

Research and development is one of the company's core activities. It occupies almost half of the workforce. Our vision of R&D is first of all to innovate in service with our customers before moving on to a stage of product introduction / industrialization. We therefore have innovative solutions that are most often co-constructed with our customers.



Life cycle analysis,
auditing and diagnostics
Mobility and urban
transport - Photovoltaic
solar - Regulations - Audit
Consultancy - Studies and
Engineering - Regulations
Thermal solar

enerlis ENERLIS

Efficacité Énergétique & Environnementale

Research department - Engineering, Service company

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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

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STAFF

35 people



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 CRBs 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 / 4.8MWh
2. 2MWe SUEZ ORC – Caen
3. AIT – SAUR – GRAND LYON ORC 700kW – 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).



Manufacturer - Maker, Research department - Engineering

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STAFF

45 people

TURNOVER

International turnover:
3 000 K€

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

smart energies

Research department - Engineering

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STAFF

65 people

Activities

Entech smart energies was created in 2016 and today employs 55 people. It specialises in the storage and conversion of electrical energy in France and abroad.

Entech smart energies develops, builds and commissions facilities such as :

- On-Grid / Off-Grid services: energy conversion and storage systems that enable grid balancing or electrification of isolated sites.
- Photovoltaic power plants on the ground, on roofs, in shaded areas, etc.
- Prototyping systems: complex conversion chains based on innovative technologies such as tidal turbines, new battery technologies, etc.
- Entech smart energies has its own in-house design office (electrical and mechanical engineering, industrial IT, project managers, R&D) but also assembles and tests systems in a 4000 m² building based in Quimper in Brittany.

The company has strong values such as innovation in order to create cutting-edge technologies for the energy transition, performance that commits the company to delivering exceptional results to its customers, and caring for its employees and partners.

With strong experience and numerous references in energy storage and conversion solutions, Entech smart energies multidisciplinary teams offer their skills to help industry leaders achieve their sustainable development goals.



Eco-management - Energy efficiency - Photovoltaic solar - Regulations - Audit Consultancy



ENVEA

Manufacturer

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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 ministrations 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, Hanoï, Paris, Mexico, Lisbon, Barcelona, Moscow, Budapest, Mumbay, Tunis, Dubai, Bangkok, Bamako, Chongqing...
- Over 30 000 industrials 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.), ENVEA also relies on solid partnerships: Ministries, ADEME, public and university research laboratories, final users, customers and partners worldwide.



ENVIROEARTH

Research department - Engineering

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STAFF

15 people



Analysis - Measurement
Monitoring - Carbon Balance
Clean Development
Mechanisms - Combating
greenhouse gases
Combating greenhouse
gases technology
Corporate social
responsibility - Energy
efficiency - Environmental
Regulations - Implementing
territorial sustainable
development policies
Photovoltaic solar
Regulations - Audit
Consultancy - Studies and
Engineering

Activities

Enviroearth is an international player, founded in 2001 in France, which designs, procures and builds scientific stations and hybrid solar energy systems.

Based close to Aix-en-Provence (South-East of France), and ISO 9001 certified, Enviroearth is owned by two reputed European groups: RAG-Stiftung Beteiligungsgesellschaft SE (Germany) which invests in companies whose products and services are playing a significant role in global changes, and Envirogroup Holding (France) which supports development of company providing low carbon engineering solutions and services.

The turnover (4 M€ in 2020) is 90% realized abroad in remote and developing countries, with a large experience in Africa, South America and remote islands.

Since many years, Enviroearth has extensive experience in remote environmental monitoring facilities and solar plants worldwide. We design and engineer projects, manage sites preparation, purchase equipment and insure the logistic, Civil-Works and installation; train future operators and ensure after sales-services and maintenance contracts.

Enviroearth also offers sustainable city integrated solution to measure and mitigate urban project development carbon impact.

Enviroearth works with national and international organizations such as Governments, UN agencies, Developments Aid institutions, corporates and many local partners worldwide.

References

IN FRANCE

- **Companies:** Companies: CEA, LSCE, Paris Observatory, Lyon & Basel Airports, Assystem, Gerflor, Systra, SNC Lavalin, TNT Express, Bodycote, Campbell Soup, Lyreco France, April Assurances, SPIE Batignolles, Toupargel, MSSA...

- **Territories:** Northern Region, Rhône-Alpes, PACA, Ile de France, Picardy, Normandy, Franche Comté, Languedoc-Roussillon, Lorraine, DREAL PACA and Rhône-Alpes, Centre, Champagne Ardennes, Aquitaine, Cities of Grenoble, Chamonix, Arles, Côte d'Azur Habitat, Habitat Marseille Provence...

ON THE INTERNATIONAL SCENE

- States of Minas Gerais and Rio Grande do Sul (Brazil), Mohammed VI Foundation and City of Casablanca (Morocco), Cities of Da Nang (Vietnam), Ulan Bator (Mongolia); Companies: UTE Fluminense (EDF) & CMPC (Brazil), CIPREL (Ivory Coast) NCMS(UAE), Exelis (USA)
- Conducting projects in isolated sites in Tristan Da Cunha, Cape Verde, St-Helena, Easter Island, Kiribati Madagascar, Chile, Kenya, Papua New Guinea, Easter Island...
- Donors: AFD, ADEME, UNESCO, UN, World Bank...

Certifications, labels or prize





EXAKOM

Service company

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STAFF

10 people

TURNOVER

International turnover:
40%

Activities

PRODUCT DESCRIPTION

PLUTO is a software package for MONITORING and REPORTING industrial and tertiary data, simple and fully configurable. Its communication module allows the aggregation and transformation of all data into valuable information and performance indicators (PEI). It also integrates an alarm module capable of detecting malfunctions or overconsumption in real time to notify users directly. On the application side, PLUTO allows you to generate reports in automatic mode, to make diagnostics and monitor data in real time, to create ecoboards with awareness screens and to visualize everything from your smartphone, PC or tablet.

References

AMAZON – ARIANE GROUP – ADB SAFEGATE
ARCELOR – AURIPLAST – ARKEMA – AXIMA
BONDUELLE – BORDEAUX Métropole –
BORGES OIL – CATERPILAR – CHOCOLAT
BARRY CALLEBAUT – CHOCOLAT BOUVARD
CHU Montpellier – CIO Lausanne – CITY
of St LOUIS – COMAU – DANONE – EAUX
du PORTUGAL – ENERGIE MANAGEMENT-
ENGIE – ESSE – EVIAN – INDUSTRIEL – L'OREAL
– LAFARGE – LVMH – MANE – Mc PHY –
MUNTERS – NGE – ORANGE DATA CENTER
– ORANGINA – PARIS BOURSE – PHOTOWATT
– RYIADH BANK – SAFRAN SDH – SOBRAGA
GABON – SYCTOM SYAGE – STGS – VILLE
de NANTERRE – WIENERBERGER YOPLAIT ...



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



EXENCI

Service company

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STAFF

3 people

TURNOVER

International turnover:
100 000€



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

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 issues 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 pf 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



FONTO DE VIVO®
HUMANA SOLVO

FONTO DE VIVO

Manufacturer - Maker

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STAFF

5 people

Activities

Half of the world's population now drinks water that is dangerous or of dubious quality, and humanitarian actors lack effective and sustainable solutions.

Fonto de vivo works alongside NGOs, foundations and humanitarian actors to make access to drinking water a universal reality.

References

Designed in collaboration with major French NGOs, ORISA® purifiers filter all surface water from biological contamination by simple manual pumping.

In daily use, they guarantee drinking water for a family for years thanks to an innovative and patented permanent maintenance system.

Certifications, labels or prize

- Winner of the Coup de Coeur Challenge International "Precious Water" Prize from the Famae Foundation in Vivatech (2019)
- WAI by BNP Paribas "Coup de coeur" prize for the 10000 startups for Changing the world (2020) competition
- Winner Coup de Coeur Award Corporate Acceleration Go Up Contest (2019)
- Innovation and Commitment Award of the "Feeding Tomorrow" competition (2020)
- «Solar Impulse Efficient Solutions» label by Solar Impulse Foundation (April 2021)



Automatic taps
Wastewater - Water filtering
in tap - point of use

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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 Autremont



FREECOLD

Manufacturer - Maker

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STAFF

5 people

Activities

An innovative green-tech company, FREECOLD designs and manufactures in France solutions for direct solar cooling

- Coolers, freezers and air-conditioners perfectly suited for sunny areas
- Powered from either direct sun (without battery), or solar batteries, or by hybridising sun and grid, but the photovoltaic power supply always first
- A design resulting of a major R&D program, for hard environments and operating conditions
- A patented technology to guarantee quality cooling for up to 4 days without sun
- Suitable for many uses
 - residential
 - food-processing: fish, market gardening, preservation of crops, dairy sector...
 - commercial: catering, distribution and sales of foodstuffs, including outdoor markets ...
 - medical and veterinary: refrigeration of vaccines and drugs ...
 - tourism: camping, caravanning, recreation areas, marinas

A simple and easily adjustable operation

We design and manufacture our solar cooling systems with proven and particularly energy-efficient components.

We deliver our solutions complete, pre-loaded in refrigerant, pre-wired, protected by multiple security devices, including their photovoltaic power supply, solar panels and power electronics. Everything is done to make their installation and commissioning easy, even by non-specialists.

FREECOLD is present in more than 30 countries through a network of distributors to respond as closely as possible to essential refrigeration needs for health and economic development.

Certifications, labels or prize

- Trophée de l'Innovation technique, ESSEC Alumni
- Prix du développement industriel, Business Club UTC
- Lauréat Investissements d'Avenir ADEME

Sun energy to produce cold

Every day, the Sun sends several dozen times the energy consumed by Man in a year. This fact allows us to benefit from a free and almost unlimited energy, we just have to empower it!

This energy is particularly abundant in Africa, where 30 to 40% of crops are lost before sale due to a lack of quick access to refrigeration and where the demand for refrigeration for the economic development is increasing sharply. FREECOLD innovations applied to cold rooms, milk tanks, refrigerators and air-conditioners perfectly meet these needs!



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



GEOLITH

Research department - Engineering

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STAFF

8 people

Activities

GEOLITH offers processes for extracting lithium from saline solutions such as salars, geothermal energy, oil, battery recycling. Performance validated in the laboratory and confirmed on industrial pilots:

- up to 95% lithium extraction
- very high purity

References

An industrial geothermal pilot in operation in Alsace and another in progress for the Chilean salars.



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 !

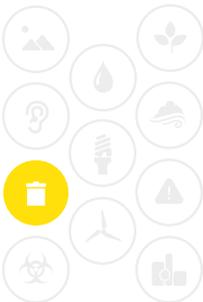
References

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



GREEN TECHNOLOGIE

Research department - Engineering, Service company

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CONTACT

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frantz.ebader@
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STAFF

20 people



Combating greenhouse gases - Combating greenhouse gases technology - Corporate social responsibility - Eco-design - Eco-design and clean technologies
Eco-management - Energy efficiency - Environmental development - Environmental Regulations
Implementing territorial sustainable development policies - Photovoltaic solar - Regulations - Audit - Consultancy - Studies and Engineering - Regulations
Renewables energies - Significant sustainable development indicators
Small-scale hydroelectric energy - Thermal solar

Activities

Startup founded in 2013, Green Technologie provides companies, communities and individuals with energy transition solutions adapted to island territories. We have designed an innovative and systematic method that ensures a significant reduction of costs on your energy bills as well as an optimisation of your investments. We operate on the territories of Martinique, Guadeloupe, French Guiana and more widely in the Caribbean zone.

References

Several international references specialising in isolated territories (ZNI type territories).

Subsidiary in Saint Lucia.

Certifications, labels or prize

- Several innovation awards in 2015 and 2016
- In 2019 AAP PIA 3 winner for the EZ DRIVE project
- Winner Green firm of the year by OECS



GREENCELL

Manufacturer - Maker

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www.greencell.tech

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STAFF

40 people



Biochemical processes
Biological treatment /
Composting fermentation
Eco-design - Eco-design and
clean technologies - Eco-
materials, Eco-design and
Eco-products, Alternative
raw materials - Fermenter,
Digester, Methanizer
Methane generation
Seepage water in landfill
leachates - Sewage,
industrial, cleansing and
dredging sludge - Soils
remediation - VOC
Wastewater

Activities

GREENCELL relies on its industrial fermentation tools (solid and liquid fermentation), its R&D laboratory and its technical-commercial team. The bacteria, yeasts and filamentous fungi cultivated by GREENCELL are mainly intended for the following markets:

Food industry with cheese and wine ripening and flavouring flores.

Agronomy with 10 biofertilizing products, all with marketing authorization, adapted to different crops: field crops, industrial crops, market gardening, vineyards, arboriculture, green spaces and lawns... In parallel, GREENCELL offers natural solutions for livestock farming (treatment of litter, manure and slurry).

Environment with specific microbial cocktail to eliminate the organic matter present in the different matrices:

- **Water:** improved technical and economic performance of sewage treatment plants (increasing purifying efficiency and reducing operating costs). These cocktails are intended for urban, agricultural and industrial areas.
- **Soil:** improve the performance of soil remediation in situ or on a platform by adding exogenous microorganisms.
- **Methanization:** secure and improve the performance of methanizers.

Health and Well-being with the production of probiotic strains and the production of active ingredients of microorganisms for the well-being of the skin. GREENCELL carries out advanced research on the properties

of microbiotes.

Certifications, labels or prize

- AFAQ ISO 22000: Food safety
- GMP Certified (Good Manufacturing Practice): certification from the French National Agency for the Safety of Medicines and Health Products (Certificate number: 17MPP100HF01).
- HACCP (Hazard Analysis Critical Control Point) tool used internationally to ensure the safety of food products.



GROUPE COMPTE-R

Manufacturer - Maker

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jerome.maillet@
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STAFF

450 people

TURNOVER

International turnover:
7 M€

Activities

French industrial company and pioneer 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 and North America, the group has a mobile team that covers all 5 continents.

The group's 3 subsidiaries and 2 representative offices have developed centers of expertise that enable them to respond effectively to the expectations of their customers. The teams of COMPTE.R Group offer to their clients their expertise in hot water, steam, thermal fluids 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 "Plateforme Avenir" 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's manufacturer. 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.

IN FRANCE

More than 2,000 installations in France have been branded COMPTE.R with, among others: Limoges University Hospital, Limagrain, Papeterie Arjowiggins, the aquatic center of Auray, Ikea, BEL Dairy, Pierre Fabre, Yves Rocher, Argan L'Oreal, Herta, University of Bordeaux, Serre Heinz, Chambéry Bissy heating network, Corga, Dijon district heating, Candia, Soufflet.

EXPORT

The group has more than 1,000 boilers in the world with among others: Olympic Park in London, Greenhouse Excel in Quebec, Cargotec in Poland, Italiana Pellets in Italy, Ghent University in Belgium, Malthouse Soufflet in Ukraine, SIC CACAOS in Ivory Coast, L'Oréal Burgos in Spain.



Biomass
Wood energy

References



H2P
Heat to Power engines

H2P SYSTEMS

Manufacturer - Maker

ADDRESS

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www.h2psystems.com

CONTACT

Mrw. Frederic THEVENOD
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f.thevenod@
h2psystems.com

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

ADDRESS

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www.haffner-energy.com

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STAFF

23 people

Activities

Haffner Energy is a company that develops and manages turnkey renewable energy solutions for manufacturers and communities. Specializing in the recycling of biomass into carbon-free energy, its HYNOCA® process, protected by 14 patent families, is a unique innovation today for producing 100% renewable and affordable hydrogen. Our objective: to make the energy transition an opportunity for the competitiveness of our customers, for the local economy of the territories, and to preserve the environment. On the strength of these values which respond in every way to the challenges of tomorrow, Haffner Energy is supported by multiple partners. Among these, we find, for example, BPI France, Euréfi, Kouros, or even R-GDS, which placed its trust in the HYNOCA® solution for its first installation in Strasbourg.

Certifications, labels or prize

Award: Hydrogen and the HYNOCA® solution process dedicated to the Pollutec 2020 trade fair.



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



HANTSCH

Research department - Engineering

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STAFF

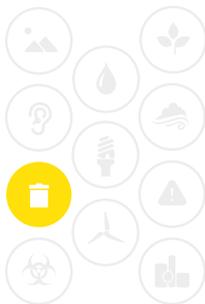
40 people

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 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



HELIA TEC

Research department - Engineering, Service company

ADDRESS

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CONTACT

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jp.lecoz@heliatec.com

STAFF

350 people

Activities

Our Group is an international engineering and consulting group. Created in 2001 in the South Region by our President Mr. Gabriel BALDASSARI. Our Group has around 350 employees and a turnover of around € 28 million.

Our group specializes in technical assistance in petrochemicals, chemicals, nuclear, construction, wind and renewable energies. The professionalism of our Group as well as the diversity of our partnerships have allowed us for 20 years to be present in a wide spectrum of activity in France, Europe and the rest of the world.

Certifications, labels or prize

HELIA TEC SAS, HELIA TEC Formation and EENI have been MASE certified throughout our adventure.

HELIA TEC Formation is GIPHISE, Asbestos, Quality, AIPR, PRAP, SST certified. EENI is CEFRI E, OCR, Radon N 1A Expertise certified.



- ATEX - Combating greenhouse gases
- technology - Corporate social responsibility - Energy efficiency - Environmental development
- Environmental Regulations
- Industrial ecology - Industrial risks
- Natural risks - Personal protective equipment
- Prevention of industrial risks - Regulations - Audit
- Consultancy - Studies and Engineering - Regulations
- Risk - Soils remediation
- Technical Centres - Training in preventing industrial risks
- Training or awareness



IED

Research department - Engineering

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www.ied-sa.fr

CONTACT

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business@ied-sa.fr

STAFF

27 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.

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.



INDDIGO

Research department - Engineering

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STAFF

226 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

- Programme d'action « Ecologie Industrielle et Symbiose Industrielle » – GIZ (Maroc)
- Etude audit énergétique SITEM site de Zriba (Tunisie)
- Schéma directeur de gestion des déchets ménagers de Sao Paulo (Brésil)
- Réduction pollution plastique dans la province de Champassak (Laos)
- Organisation de la collecte et du traitement des déchets à Cap Haïtien (Haïti)
- Schéma stratégique de développement de la baie de Nouadhibou (Mauritanie)
- Eco-quartier de Vazhaikularam-Pondichery (Inde)
- Actualisation du plan directeur du port de Pointe Noire (Congo)

Certifications, labels or prize

ISO 9001 and ISO 14001 2015 standards

OPQIBI Qualifications



INERIS

Research department - Engineering

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CONTACT

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STAFF

850 people

TURNOVER

International turnover:
2,85 M€



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

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).



INES

Service company

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ines-solaire.org

STAFF

25 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



IP3 CONCEPT

Manufacturer - Maker

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www.ip3-concept.com

CONTACT

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nicolas.salah@ip3-group.com

STAFF

2 people

Activities

Ip3 Concept, daughter company of Ip3 Group, rents and sells compact machines (called Ipcubemaker) allowing the manufacture on customer site, to measure, on demand, of resistant and ecological cardboard pallets.

The IpcubeMaker is a breakthrough innovation at the global level. Protected by two patents (on the machine kinematics and on the Ipcube cardboard block resistant to 600kg load), our innovation finds no competitor in the world. Our innovation lies between the TRL 8 and 9: machine sold on an initial market.

References

Our company wishes to develop its international commercial activity to reach more large users (more than 100,000 pallets per year) for whom the Ipcube solution is the most interesting. The first IpcubeMaker machine was sold in Algeria and we have contacts abroad, but we would like to further structure our approach and launch a real international mission.



Combating greenhouse gases technology
Eco-design and clean technologies - Eco-materials, Eco-design and Eco-products, Alternative raw materials - Energy efficiency
Energy extraction from waste - Industrial ecology
Recycling and exploiting materials



IXARYS

Manufacturer - Maker

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STAFF

19 people

Activities

IXARYS SOLUTIONS is 35 years of experience working with cooperative cellars and wine estates. A suite of wine-growing software specially designed to ensure full control of production traceability, up to the overall management of the wine-growing operation. This software is also effective on the traceability of vineyard plots and leads to HVE / BIO certification. It allows better use of phytosanitary products. The company has invested heavily in new modules of the Tracing software.



Prevention of natural risks - Protection of the biodiversity - Training or awareness



LAB

Manufacturer - Maker, Research department - Engineering

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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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kkang@
leviathan-dynamics.com

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:

- 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).
- 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



LMS WORLD WATER TREATMENT

Manufacturer - Maker

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www.lms-water.com

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STAFF

30 people

Activities

MORE THAN 20 YEARS OF EXPERIENCE

Created in 1988, LMS World Water Treatment started its activity by manufacturing **drinking water treatment units** to meet the needs of populations facing humanitarian emergencies. The robustness and reliability of its systems quickly earned it an international reputation.

Today, LMS supplies water treatment plants for municipalities, living bases, remote sites, as well as process water treatment units for industrial companies using a wide range of technologies.

References

WORLDWIDE REFERENCE

Working with both government agencies and NGOs (Unicef, Usaid, Red Cross and Red Crescent, ICRC, Action Contre la Faim, Médecins Sans Frontières...), LMS World Water Treatment has rapidly become a global reference in the field of water treatment in emergency situations. The company is today one of the main suppliers of emergency water treatment units throughout the world. Its units have been deployed in **more than 35 countries**.



Biochemical processes
Mechanical-physical processes - Membrane plant
Rainwater management unit
Sewage treatment plant
Training or awareness
Wastewater - Water filtering in tap - point of use
Water saver



LUMI IN

Manufacturer - Maker

ADDRESS

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STAFF

11 people

Activities

LUMI'IN designs, assembles and distributes autonomous, hybrid and interconnected solar lighting systems.

As a pioneer in the solar street lighting market, LUMI'IN offers real alternatives to conventional luminaires by providing cleaner, cheaper to use and smarter streetlights.

Thanks to its experiences in the solar industry, LUMI'IN can also propose innovative solar solutions for new uses:

Solar autonomous cameras, solar air conditioner, smart sensors, Electrical Vehicules chargers, etc.

References

More than 10 000 solar systems installed worldwide:

Airport of Paris, Airforce bases, Big civil and energy companies, Governments: France, US embassy, French Islands (Corsica, French Polynesia, Reunion, Caraibes, etc), Qatar, Marocco, Ivory Coast, Benin, Uganda, Tchad, etc.

Certifications, labels or prize

- 2019: Climate Change Innovator Award CES Las Vegas 2019
- 2020: Label of the Solar Impulse Foundation, among the 1000 solutions against Climate Change
- 2021: International presence with a commercial office in the French Embassy in México



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



MASCARA

Manufacturer - Maker

ADDRESS

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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 600 m3, and up to 5 000 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

ADDRESS

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www.technologies-marcel-
mezy.com.

CONTACT

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STAFF

70 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 company specialising in the manufacture of a natural soil fertilisation process consisting of a consortium of micro-organisms called Technologies Marcel Mezy (TMM). A true ecosystem made up of thousands of species of micro-organisms (bacteria, fungi, archaea, etc.) selected and developed on plant composts, it responds to numerous environmental issues encountered by farmers, individuals, companies and communities.

For 40 years, MEZAGRI has been producing and distributing via two sister companies, SOBAC and MEZAMONDE, this solution that respects both human being and the environment (which replaces chemical fertilisers while keeping a yield at least equivalent). Leads to many environmental problems.

References

- Improvement of soil quality and its physical properties (texture, structure, increase in useful reserves), chemical properties (creation of humus, improvement of the clay-humus complex, increase in CEC) and biological properties (increase in the biodiversity of microorganisms).
- Storage of atmospheric carbon in soils and fixation of nitrogen in soils in organic form.
- Reduction of ammonia emissions and greenhouse gases in the field and in organic matter.
- Preservation of water resources by reducing irrigation by 30%.
- Preservation of the quality of water masses by not using chemical fertilisers and limiting phytosanitary treatments (no or less leaching).

- Valorisation of livestock effluents and all types of organic matter.
- Reduction in the use of phytosanitary treatments thanks to microorganisms acting in the protection of crops (preventive and curative roles).
- Soil decontamination (persistent pesticides, hydrocarbons, PCBs, etc.).
- Reduction of soil salinity.
- Farming on sandy soils.

Certifications, labels or prize

- Production of NFU 44-051 standardised organic soil improvers, usable in organic farming according to the EC regulation N°834/2007 on organic farming and according to the NOP (US National Organic Program).
- INEL d'or 2013 and official recognition by the DREAL - Ministries of the Environment and Agriculture - as a technology for transforming livestock manure into standardised organic amendments.
- «Coup de Coeur» award in 2016 for the Occitanie region in the RMC SME «Bougeons-Nous» awards.
- Member of the «4 for 1000» Initiative.
- Presentation of Marcel MEZY Technologies at the COP21, 22 and 23.
- Obtaining the Solar Impulse label in 2020 by the Bertrand Picard Foundation.



MICR'EAU

Research department - Engineering, Service company

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CONTACT

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STAFF

5 people in chile
8 people in France

TURNOVER

International turnover :
800 Ke

Activities

The Migr'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.



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





MICROBIA ENVIRONNEMENT

Research department - Engineering, Service company

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com

STAFF

8 people



Biochemical processes
Chemical-physical processes
Environmental Regulations
Life cycle analysis,
auditing and diagnostics
Mechanical-physical
processes - Protection of the
biodiversity - Regulations
Audit - Consultancy - Studies
and Engineering
Regulations - Audit -
Consultancy - Studies and
Engineering - Training or
awareness - Training or
awareness - Utilization and
waste disposal

Activities

The proliferations of certain aquatic microorganisms are known to cause harmful effects on ecosystems with dramatic consequences for human activities related to the uses of water, whether they are recreational (e.g., bathing, fishing) or essential (e.g., drinking water, aquaculture).

Potential induced oxygen depletion, loss of biodiversity, changes of trophic networks, production of toxins strongly impact the functioning of a wide variety of freshwater and marine ecosystems, and constitute serious threats for ecological preservation, public health and economy.

In a world facing recurrent microbiological risks, Microbia Environnement strives to develop and market a cutting-edge eco-technology providing a fast, specific and sensitive method for the detection of targeted microorganisms and the anticipation of such proliferation events.

After 7 years of R&D in molecular engineering, the company finally made possible to track these organisms using RNA-based biosensors, a powerful proxy of their actual metabolic activity and growing capacity, and this in near real-time. This innovative and unique tool has been designed to match with the needs of high-throughput and cost-effective capacities which are essential for the development of future early warning systems. This, obviously for the benefit of :

- **Managers of the water resource, water suppliers,**
- **professionals of the aquaculture industry sector,**
- **health authorities,**
- **and institutions responsible for environmental preservation.**

Indeed, these water-field players are struggling every year with the anticipation of risks associated with seasonal harmful algal blooms, as problematic proliferations of microalgae and cyanobacteria are usually named. With a double expertise in molecular biology and microbial ecology, Microbia Environnement brings then concrete perspectives for managing in a proactive manner the aquatic environment, notably regarding the safety and health of water users.

By today, the offer is based on 2 models: 1) a follow-up services program where the final user simply sends water samples to the Microbia Environnement laboratory for analysis, and 2) the commercial Kit C.A.R.L.A (for, Cell Activity RNA based eLisa Assay) which includes the biosensors on a microplate format together with all the chemicals reagents needed to perform the assay, making possible to any other water quality laboratories to use the technology in autonomy for their own end users/customers.

References

The potential targets are academic/public laboratories, water agencies, private accredited laboratories and water suppliers on the international scene.

Certifications, labels or prizes

Microbia Environnement was rewarded for its innovation and performance by 7 prizes within the last four years.

With the support of the Aqua-Valley cluster, the company have defended its technology at the Pollutec Innovation Awards 2020 and received the Alfred Sauvy prize in 2017.

Recently, we have been engaged in the program of Environmental Technology Verification and created a partnership with Phytocontrol, one of the most influential laboratory in Europe.



MISSION INTERNATIONALE

Service company

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STAFF

10 people

Activities

Since its creation in 2006, International Mission founded by David KASSAR, has offered consulting and support services across the entire process of an international or export establishment. SME-SMI and Midcaps can thus benefit from global support, both strategically and operationally. Because of its history and the career of its President David Kassar, Mission Internationale has in-depth expertise worldwide, especially in French-speaking countries, in particular Canada.

In a desire to strengthen the impact of its action, to help a greater number of companies to go international and to increase the business development of independent consultants, International Mission launched in 2020 a marketplace www.mission-internationale.com

This online platform connects a community of international experts with business company leaders wishing to expand their activities beyond their borders or having plans for international expansion.

International Mission, as a trusted third party, offers visibility all over the world to international experts, the opportunity to showcase their skills and expertise to international contractors. It also offers experts the opportunity to speed up their prospecting process, to take charge of all

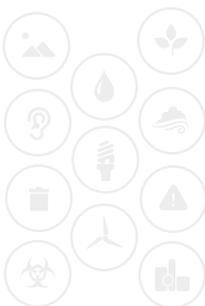
administrative, legal and financial aspects and to become part of an international community of international specialist talents. As far as companies are concerned, they can be sure of being able to identify, on the marketplace, a qualified and certified expert to benefit from quality international support. They also benefit from a secure environment and access to additional services through third-party suppliers (payment guarantee, wage portage, translation, international mobility, office space).

MEETINGS – EVENTS

For more than 10 years, with its partners, International Mission has offered conferences, business delegations as well as the "Rencontres d'Affaires Francophones", the annual French-speaking business meeting in France, bringing together multi-sector business leaders, private partners, French and international french-speaking institutional organizations.

References

Airbus, Airbus Helicopters, Deverymare, Intespace, Latécoère, Leroy Automation, Orpi, Safra, Solvéo Energie, Total, Vinci... and many other SMEs, SMIs, ETIs in individualized support as well as the organization and animation of conferences on topics related to international trade.



Regulations - Audit
Consultancy - Studies
and Engineering



MORPHOSIS

Service company

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STAFF

50 people

Activities

Our business is to treat waste electrical and electronic equipment (WEEE).

Morphosis the first trader of WEEE in France.

Our desire is to constantly improve the extraction of precious metals, by searching the best solutions on the market.

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.



Recycling and exploiting
materials - Thermal
treatment - Treatment
and sorting



MY JOULE BOX

Manufacturer - Maker

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STAFF

20 people

Activities

Our company provides access to quality solar energy to replace fossil fuels at no extra cost.

Our solutions allow a smooth ecological transition for the customer.

We attach a crucial place to R&D with more than 50% of our expenses dedicated to the development of our innovative and non-existing solutions.

We have 5 years of experience exporting to Africa and all of our solutions are designed for export to this continent



Energy efficiency
Regulations - Audit
Consultancy - Studies and
Engineering - Regulations



NALDEO TECHNOLOGIES & INDUSTRIES

Consulting - Engineering - Realisation

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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

We have supported our customers towards **technological excellence** and **environmental exemplarity** for more than 60 years. Our historical positioning as a technological solutions designer has been extended and completed by an engineering, expertise and consulting offer. We evaluate, design and implement innovative turnkey solutions. We rely on the complementarity of our 80 engineers and experts to support **industries** and **territories** in their **energy transition**.

Present on all dimensions of innovation in industry, we bring together skills in strategic consulting, process engineering, industrial risk management, operational safety of complex systems, energy performance and digital tools. Our clients thus benefit from **independent and objective support**, from **strategic thinking to the implementation of innovative solutions**.

We support a bold vision of industrial facilities that will minimize their impact and dependence on their environment, through a range of solutions from **energy efficiency** and process flexibility to the transition to **local and renewable energy**.

OUR FIELDS OF ACTIVITY

- Innovation engineering, technological consulting and growth acceleration
- Design and production of industrial pilots and prototypes, supply of equipment
- Energy: Energy efficiency (process optimization, energy consumption reduction), RE, cooling and heating networks, architecture of decentralized energy systems, modeling, turnkey projects
- Supply and service: energy audits, ISO 50001 support, Enerbird energy management system, diag eco-flux, ACT
- Environment : Operating Authorization Request File, Water Law File, Knowledge Report, Impact Studies, regulatory audits
- Industrial risk management: risk analyses, hazard studies, environmental impact studies, third-party expertise, process safety and security, system reliability

References

IN FRANCE

- Industrial sectors (Oil & Gas, Chemicals, Paper, Cement, Food Processing, etc.): ABENGOA, ARKEMA, ARYSTA LIFE SCIENCE, DRT, EDF, GDF SUEZ, LABEYRIE, L'OREAL, MICHELIN, SOLVAY, TEMBEC, TIRU, TOTAL, UPM, VEOLIA, etc.
- Institutional: ADEME, Ministry of Industry and Finance, Ministry of the Environment.
- Multilateral organisations: AFD (French Development Agency)
- Numerous growth companies, VSEs, SMEs/ETIs

IN OTHER COUNTRIES

- Process Industries: Sonatrach, Sorfert, BP Exploration (Algeria), RSW (Canada), Groupe Chimique Tunisien.
- Institutional: ANME (Agence Nationale de Maîtrise de l'Énergie – Tunisia), Algerian Ministry of the Environment, GTZ (North Africa), Ministry of Energy, Mines and Quarries (Burkina Faso), European Commission, MASEN, (Morocco), SKAO (SKA Organization) and SARAO (South African Radio Astronomy Observatory), Ninh Thuan solar power plant (Vietnam), Masdar (Abu Dhabi)

Certifications, labels or prize

- OPQIBI 1717 qualified for energy audits in the process industry, entitled to use the Bilan Carbone because participation in the ADEME training course on the quantification of greenhouse gas emissions.
- certified ISO 9001 : 2008 / ISO 140001 : 2004 / ISO 18001 : 2007
- certified MASE/UIC N° SO 2014-015 for the following activities: Design Engineering, Project Management, Project Management Assistance, Technical Assistance, Consulting and Expertise, Energy and Process Audits, Industrial Risk Management activities.



NEREUS

Manufacturer - Maker, Research department - Engineering

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STAFF

50 people

Activities

NEREUS develops, designs, builds and commissions industrial equipment capable of extracting drinking quality water from complex effluents (e.g. slurry), while using very little energy.



Chemical-physical processes
Eco-design - Exploitation
and elimination - Industrial
ecology - Membrane plant
Rainwater management unit
Recycling and exploiting
materials - Regulations Audit
Consultancy - Studies and
Engineering - Seepage water
in landfill / leachates
Sewage treatment plant
Sewage, industrial, cleansing
and dredging sludge
Treatment and sorting
Wastewater - Water re-use
and saving



NKE WATTECO

Manufacturer - Maker

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STAFF

27 people (Lorient)
5 people (Toulon)

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.



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



NUMTECH

Research department - Engineering

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STAFF

15 people

TURNOVER

International turnover :
260 Ke

Activities

NUMTECH offers customized solutions for :

- modelling of the dispersion of atmospheric emissions from industrial installations,
- the management of "odour" problems,
- assessing the impact of transport infrastructure projects,
- modelling the influence of urban development projects on the climatic comfort for users,
- air quality management in cities or near industries through monitoring, forecasting and decision support tools,
- air quality modeling in operating buildings or ERPs,
- health risk assessment and interpretation of environmental conditions,
- the provision of indicators for the protection of property and populations against meteorological hazards (current or future as a result of climate change), including flood risk management.

With an experience of more than 20 years in air quality, meteorology and health, NUMTECH is a leader in the management of air quality protection issues in urban areas and industrial proximity, and is now exporting its know-how abroad (Morocco, United Arab Emirates, Romania, Tunisia, Senegal, Chile).



Gas and fumes

Gas Pollutants - Indoor air quality - IT and software
Odorous compounds
Particles - Regulations
Audit - Consultancy - Studies and Engineering - Training or awareness - VOC

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.



ODYSSEE ENVIRONNEMENT

Research department - Engineering

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STAFF

72 people



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

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*



ORAXYS

Service company

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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

Please look at our website: <https://oraxys.com/>

In France, we partnered in Orege (listed on Euronext), in Les Comptoirs de la Bio (sold to Les Mousquetaires, France), in Leosphere (sold to Vaisala, Finland), etc

In Europe: we partnered in Aremis Group (sold to the management), in Lasea (sold to the management), etc.



Environmental development



OVIVE

Manufacturer - Maker, Research department

Engineering, Service company

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CONTACT

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STAFF

130 people

Activities

Ovive supplies and operates leachate and industrial effluent treatment units, biogas treatment units and waste recovery units. The company is in constant innovation (investment in bio-methane, hydrogen production, optimization of processes to reduce energy reduction). OVIVE started exporting in 2019 and aims to achieve more than 25% of its turnover from exports by 2025. THE turnover from export in 2020 and around 10% The company is structured and reorganize itself to adapt these resources to new export constraints. OVIVE also recruited a sales director in 2019 to support international development.



Biochemical processes
Chemical-physical processes
Fermenter, Digester,
Methanizer - Membrane
plant - Regulations - Audit
Consultancy - Studies and
Engineering - Seepage
water in landfill / leachates
Sewage, industrial, cleansing
and dredging sludge - Waste
management - Wastewater
Water infrastructure



PELLENC ST

Manufacturer - Maker

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STAFF

220 people

TURNOVER

50 M€ (35 M€ international)

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.

Références

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 Jaroszow -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»



Recycling and exploiting materials - Treatment and sorting



POLY TO POLY

Manufacturer - Maker, Service company

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STAFF

12 people

Activities

Polytopoly.com support plastics manufacturers in integrating recycled plastics in their production.

Poly to poly specialises in the research, characterisation and supply of plastic waste and recycled polymers. We support the actors of the plastics industry in the procurement and optimisation of material flows (from waste to ready-to-use resin) thanks to digital solution.

Poly to poly provides access to a complete range of recycled polymers and guarantees a quality supply, chosen according to the constraints of the various applications.

The vocation of Poly to poly is to promote a responsible use of plastic from its production by offering the support of specialists and a unique and reliable digital tool where plastics manufacturers can efficiently source all the types of recycled plastics they need.

In addition, Poly to poly contributes in reducing carbon footprint for numerous plastics manufacturers.



Energy extraction
from waste - Logistics,
Collection, Transport
Mechanic treatment
Recycling and exploiting
materials - Thermal
treatment - Treatment
and sorting - Waste
centres



POWERTECH SYSTEMS

Manufacturer - Maker

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CONTACT

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STAFF

12 people

TURNOVER

International turnover:
2 M€

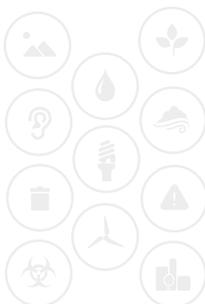
Activities

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.



PowerUp

Manage & extend batteries life

POWERUP

Service company

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CONTACT

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STAFF

15 people

Activities

Founded in 2017, PowerUp has developed a breakthrough technology based on more than ten years of research by CEA-LITEN (innovation laboratory for new energy technologies), as well as on a total of 7 patents.

Our solutions aim to optimise the performance and lifetime of lithium-ion batteries in order to enhance the reliability and competitiveness of future energy storage systems. We developed the MAP (Measure, Act, Predict) technology, focused on preserving batteries throughout their lifetimes, irrespective of their use and environment :

- Measure: diagnose and measure the real state of health of batteries, thereby guaranteeing their autonomy,
- Act: increase the lifetime of batteries by up to 100%, via dynamic charging based on the battery's health, environment and use.
- Predict: predict the lifetime of batteries according to usage scenarios, enabling them to be replaced at the right time.

Our solution is currently aimed at all manufacturers and operators who use batteries under power-cycle conditions or for backup power applications. Following trials with major groups such as SNCF Réseau, EDF, Schneider Electric and Crédit Agricole Nord Midi-Pyrénées, we will commence production in 2021.

At the end of the 2020 year, we completed a new round of funding from Supernova Invest (our historic investor), business angels, and the EDF Group. It will allow us to fulfill our growth in France and Europe by recruiting 25 new employees within the next two years and to play a part in the energy and ecological transition by adapting our technology to renewable energy storage applications.



Energy efficiency



POWIDIAN

Manufacturer - Maker, Research department - Engineering

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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).

Références

- 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 ou prix

- 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

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CONTACT

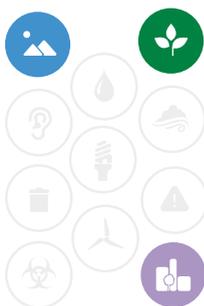
Mr. Pierre BELLAGAMBI
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Activities

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

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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 40 employees, a main agency with a design office, after-sales service management and a R&D service in Moissac; a warehouse in Montauban (82, France) and an agency in La Réole (33, France). It is positioned as a benchmark in terms of industrial refrigeration in Midi-Pyrénées and in South of France.



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



R&O DEPOLLUTION

Manufacturer - Maker

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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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STAFF

150 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
- Auxerre – 5 hydrogen bus

Coming soon: 5 hydrogen buses for HYPOR (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 Trophee 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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CONTACT

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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



SARETCO

Manufacturer - Maker

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STAFF

12 people

Activities

Specialising in the supply of spare parts for waste-to-energy plants since 1985, and which has many years of experience in the use of special alloys and superalloys resistant to corrosion, oxidation and abrasion at high temperatures.

We bring to the market a technology that saves energy by giving higher strength to the grids for incineration and biomass furnaces. This resistance has the advantage of reducing maintenance costs.



Combating greenhouse gases technology - Energy efficiency - Energy extraction from waste Exploitation and elimination Mechanic treatment Recycling and exploiting materials - Thermal treatment - Training or awareness - Treatment and sorting - Waste centres



SD-EAU

Research department - Engineering, Service company

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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.



SETEC ENERGIE ENVIRONNEMENT

Research department - Engineering, Service company

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STAFF

64 people



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

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 occasional locations for international projects, the setec group has permanent locations abroad:
Middle East: Saudi Arabia,
North Africa: Morocco, Tunisia, Egypt, Libya:
Saudi Arabia,
Europe: Germany, Hungary, Greece, Monaco, United Kingdom, Switzerland Russia
Americas: Brazil, Canada, Colombia, Panama,
Africa: Congo, Ivory Coast, Gabon, Mauritius, Senegal.

Setec énergie environnement is currently deployed on projects such as:

- Sharjah in the United Arab Emirates regarding to the construction of a 30 MW waste-to-energy plant with a process for the recovery of solid waste from landfills
- Abidjan in the Ivory Coast regarding to the study of the master plan for the management of solid waste in Abidjan
- Kribi in Cameroon, regarding to environmental studies and the development of preservation plans for the Autonomous Port

Our experience of the international context, our international network and our expertise constantly enriched by ambitious projects push us to impose ourselves as leaders in our fields beyond our borders.



SIMPLICITI

Engineering, Service company - Research department

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STAFF

115 employees

Activities

OUR MISSION

With technology, make the citizen actor of greener, more connected and more efficient cities.

For more than 25 years, Simpliciti has been diversified its offer with ever more innovative and efficient solutions.

We support cities and companies to monitor and optimize waste collection activities, goods transportation, and public transportation.

In this context, we provide solutions to municipalities such as Lyon Métropole, Casablanca, Bordeaux, Brussels, Cannes, and companies (Keolis, Veolia, Pizzorno, Averda, etc.).

Everywhere, we deliver our solutions by integrating new functionalities but also by associating local partners for more local service.

Simpliciti provides the digital platform GEORED for managing waste collections as well as the associated equipment on collection vehicles. This solution allows the traceability of services, the optimization of waste flow management as well as the optimization of collection tours.

Our innovation capacity combined with our expertise allows us to offer customized and avant-garde solutions for sustainable cities.

The combination of SIMPLICITI products and custom-made support services are the ingredients of successful digitalization projects realized with many customers in France, Belgium, overseas territories and Africa.

References

- Bordeaux Métropole
- Grand Lyon Métropole
- STIB Brussels
- Casablanca, Tanger, Marrakech
- Cotonou district area
- Nouméa, Fort-de-France...

Locations in France: Avignon, Aix-en-Provence, Bordeaux, Montpellier, Sophia-Antipolis

Office in Morocco: Sabatier Géolocalisation, 33 Avenue Hassan Saghir - 20000 Casablanca
Tel: +212 522 447 243



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, using Marcel MEZY Technologies, elaborated by MEZAGRI. Water and Air Soil Quality, Agriculture, Gardens and Green Spaces, Micro-organisms, Biogaz production, Composting;

- 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

- Solar Impulse Label: efficient and profitable solutions against climate change and to protect the environment - January 2020
- 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

128 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



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



SOLVEO ENERGIE

Manufacturer - Maker

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STAFF

55 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



Energy efficiency
Photovoltaic solar
Regulations - Audit
Consultancy - Studies and
Engineering - Wind power



STEPSOL

Manufacturer - Maker

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STAFF

6 people

Activities

AN IDEA AND A VISION

STEPSol is a Simplified Joint-Stock Company created in 2016 in Corsica.

It develops an innovating solution of pumped hydraulic storage, coupled with photovoltaic cells, in order to produce renewable and low-carbon electricity night and day.

The team prides itself on pursuing durable and responsible projects, considering the specifics of each territory: sun radiance, real estate, topography, electricity-grid constraints...

This technology blends water and sun energy in the local environment.

It is the will of the company to deploy simple and robust solutions for energy access, while enhancing natural resources and integrating local labor and industrial skills.

References

SIGNIFICANT PROGRESS

From 2017 to 2020, STEPSol has led a Research&Development program, in partnership with CEA Liten, INP Grenoble and the University of Corsica. A first device was set up in Ajaccio.

In 2020, STEPSol answered a call for tenders from the French Commission of Energy Regulation (CRE) with a plant consisting of 250 kWp of PV panels and 125 kW of Hydraulic Battery.

STEPSol also pursues international projects, more precisely in Colombia. It concerns the electrification of an off grid indigenous community in the Cauca region.



Energy efficiency
Photovoltaic solar - Small-
scale hydroelectric energy



SUN'R

Service company

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STAFF

70 people

Activities

Developer and investor in photovoltaic power plants and inventor of dynamic agrivoltaics. 3 divisions Sun'Agri, Sun'Power and Volterres. Our mission is to lead energy renovation in a fast and total positive way.

References

Subsidiary in Morocco with an important development.

Certifications, labels or prize

- Winner SITEVI innovation AWARDS 2019



Environmental development
Photovoltaic solar
Prevention of natural risks - Protection of the biodiversity - Water saver



SUNNA DESIGN

Manufacturer - Maker

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STAFF

40 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.



Energy efficiency
Environmental approach
of urbanism - Photovoltaic
solar - Regulations - Audit
Consultancy - Studies and
Engineering - Regulations



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



SUSTAIN'AIR

Manufacturer - Maker

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STAFF

6 people

Activities

Sustain'air markets a very innovative Heating Ventilation Air Conditioning system which allows very important energy savings (up to -80%), an incomparable indoor air quality (100% new air), while contributing to the energy transition by using an RE heat source (solar thermal, district heating network,...). Sustain'air has relied on R&D since 2010 and has published a European Patent in 2015. The company has been awarded several calls for projects by Ademe, some of which are underway (Renewclim, DEC CO2).

References

Limited export experience. The potential is great because the higher the cost of electricity compared to France, the greater the interest in our system. There is therefore potential in many countries, such as Italy, Germany, Switzerland and Luxembourg.



Energy efficiency
Indoor air quality

Service company

ADDRESS

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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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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



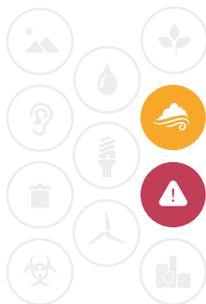
Membrane plant

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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, 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, Diastрата SAS, Even Conseil, SYSTRA, TerriDev, Oteis, Compagnie de Phalsbourg, Grand Lyon La Métropole, Grand Paris Aménagement, La Fab, Tramcités, 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



TECHNOLOGIES DE FRANCE

Manufacturer - Maker, Research department - Engineering,
Service company

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STAFF

7 people

Activities

The OSIRX A (A for Analysis) is a spectrometer with a large analysis surface. TDF designing and manufacturing everything itself, it can adapt the equipment (camera, source, etc.) and the software to any specific customer need.

TDF has designed the world's best blood bag irradiator that overcomes all the shortcomings of current devices. Building on its versatility and creativity, the company is currently working on new features such as irradiation control via spectral imaging.

References

Quality partners: CERN, Airbus, ecosystem, EIT, Systematic, Optitec ...

Certifications, labels or prize

TDF is the FASEP laureate with its OSIRX project! This year, FASEP organized a competition on the theme of the circular economy and waste recovery. Objective: to promote French green innovation by allowing a foreign public entity to benefit from a technological demonstrator designed and manufactured in France. TDF therefore proposed to install an OSIRX machine near Tunis in a collection center of ANGED (National Waste Management Agency), to train local staff, to optimize its technology and to help ANGED to maximize its D3E. Thanks to its relevance and originality, OSIRX was selected by the jury (made up of the Ministry of Finance, the Ministry of Ecological and Inclusive Transition, the Ministry of Foreign Affairs and AFD) to be one of the 20 winning projects. The Minister of Finance will announce it tomorrow at the Pollutec trade fair. TDF particularly thanks the Club ADEME International for its advice and for their support the members of its monitoring club: ecosystem, Derichebourg and SOVAMEP.



Exploitation and elimination
Recycling and exploiting
materials - Treatment and
sorting - Waste management



TEQOYA

Manufacturer - Maker

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STAFF

10 people

Activities

Take care of yourself and your loved ones by purifying the air you breathe. Air pollution, because it is dangerous, is one of the most important challenges that societies will face in the years to come.

In 2015, the entire TEQOYA team committed to cleaning the air while respecting the environment. Our innovations are based on eletrofiltration and air ionization, a patented technology developed and improved over 15 years, very powerful and very safe, without ozone emission.

These unique technologies in the world recreate the conditions of negative-ion production that exist in the purest areas of the earth. These negative ions act as natural cleansers and, by purifying the air, are beneficial to our health.

TEQOYA ionizers are 100% ozone-free and without consumables, environmentally friendly and offer continuous air purification, all in total silence. Designed and manufactured in France with the highest quality components, TEQOYA air purifiers are made to last.

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: eco-friendly and user-friendly, without consumables.



Analysis - Measurement
Monitoring - Indoor
air quality - Particles
Regulations - Audit
Consultancy - Studies and
Engineering



TERAO

Research department - Engineering

ADRESSE

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STAFF

45 people

TURNOVER

International turnover:
1 070 k€

Activities

TERAO is an engineering and consultancy firm specialising in environmental approaches applied to the construction sector. TERAQ provides 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.

TERAO works on the scale of buildings throughout their life cycle as well as on the scale of eco-neighbourhoods and sustainable cities.

TERAO is familiar with the main environmental certification standards and labels: HQE, BREEAM, LEED, 3-stars (China), WELL, E+/C-, Effnergie, BBQA, BEPOS... The company has extensive expertise in the energy performance of buildings, guaranteeing energy results and thermal and electrical smartgrids.

TERAO 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..

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 Divonneles-Bains, IGH "IBox" in Paris Gare de Lyon: heavy renovation for Gecina. ...

TERAO has more than 700 projects to its credit, of which a hundred or so are active in 2020.

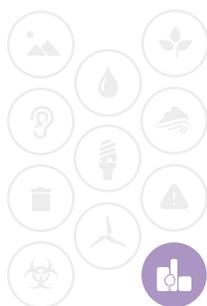
A L'INTERNATIONAL

- 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

TERAO benefits in particular from the following professional qualifications:

- 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 BBQA (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



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



TERGYS

Manufacturer - Maker

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STAFF

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

SMICVAL storm water recycling units, TOTAL R&D project, Morocco Desalination unit, West Africa drinking water an agriculture drying project.



Membrane plant
Photovoltaic solar - Water
filtering in tap - point of use
Wind power



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.

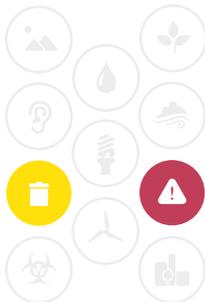
References

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.



Waste from care activities
that pose a risk of infection

ADDRESS

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STAFF

6 people

TURNOVER

International turnover:
120 000€

Activities

Tisseyre+Associés offers you an international acoustic engineering consultancy service based on its references of major projects.

- The adequacy of a tailor-made acoustic design adapted to the architect's conceptions
- Optimization of its specifications: materials and structures
- Guaranteed results in line with objectives
- The development and therefore the mastery of innovative materials: design and application of tailor-made acoustic architectural solutions
- Its assistance to industrialists and testing laboratories for product certification
- Its assistance to design offices through an acoustic computing centre service

References

IN FRANCE

- Neuilly-sur-Seine: cultural centre Sablons and music conservatory.
- Le Havre: Congress Hall Docks café, AMO Complète.
- Labège: 3rd subway line. Recomposition of urban soundscapes.
- Monaco: Princess Grace Hospital Center.

INTERNATIONALLY

- China: Guotai Chongqing Cultural Centre, Ying Kou Concert Hall, Traditional Chinese Opera Hall and Beijing School of Music; acoustic design.
- Saudi Arabia: Jeddah Congress Centre, Hotels and Multipurpose Halls Mecca; acoustic and electro-acoustic design.
- Morocco: Elaboration of acoustic technical clauses for major projects (regulations). Hotel Rotana 5* Rabat, Parliament Rabat acoustic and multimedia, Conservatory of Music and Dance Rabat.

Certifications, labels or prize

OPQIBI qualification on all the acoustic headings.



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



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.

IN FRANCE

Alfa Laval, Canon, CEA, Solairgies, SPAMA, TMC, TMN, Veolia..

ON THE INTERNATIONAL SCENE

ALMIT (UK), AORASOLAR (Sp), NGL (CH)



Références

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 & Agroefficient Industry".
- The Pollutec Innovation Awards



Exploitation and elimination
Recycling and exploiting
materials - Thermal
treatment - Utilization and
waste disposal - Wastewater

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STAFF

11 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.



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 CESCO 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



WAGA ENERGY

Manufacturer - Maker, Research department - Engineering

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STAFF

65 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 (Baudelet 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.





WINBIN

Manufacturer - Maker, Service company

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STAFF

1 people

Activities

WinBin is a reward system for the sorting gesture. It allows to increase the sorting of packaging and bio-waste in quantity and quality.

Our solution: a mobile application with which you accumulate points for each sorting gesture and get eco-responsible rewards. But also a container connected to the application that can be installed in city centres or shopping centres to create sorting areas.



Recycling and exploiting materials - Training or awareness - Treatment and sorting - Waste management



WITTI

Manufacturer - Maker

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STAFF

10 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.

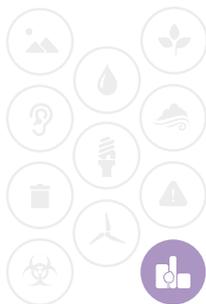
References

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, Alliage, 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

90 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).

A L'INTERNATIONAL, NOUS RÉALISONS :

- 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.).



RÉPUBLIQUE
FRANÇAISE

Liberté
Égalité
Fraternité



Club ADEME international

Technologies and services
of french eco-companies

Export catalogue 2020 | 2021

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 over one hundred innovative French companies that are present in the world sustainable development market.

Piloted by ADEME, this network of environmental business accompanies its members as they develop innovative international projects and partnerships dedicated to protecting the environment and mastering energy consumption.

Club ADEME International, in liaison with ADEME and public bodies, offers many practical services: business intelligence and information products, support for innovation—that members develop their international activity.

« The year 2021 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



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