

# CLUB ADEME INTERNATIONAL



TECHNOLOGIES AND SERVICES  
OF FRENCH  
ECO-COMPANIES



EXPORT  
CATALOGUE  
2018-2019



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# About — ADEME

About The French Environment and Energy Management Agency (ADEME) is a public agency under the joint authority of the Ministry of Ecology, Sustainable Development and Energy, and the Ministry for Higher Education and Research. The agency is active in the implementation of public policy in the areas of the environment, energy and sustainable development.

ADEME provides expertise and advisory services to businesses, local authorities and communities, government bodies and the public at large, to enable them to establish and consolidate their environmental action.

As part of this work the agency helps finance projects, from research to implementation, in the areas of waste management, soil conservation, energy efficiency and renewable energy, air quality and noise abatement.

[www.ademe.fr](http://www.ademe.fr)



# Edito

## *From Arnaud Leroy*



**LEROY Arnaud**  
*President of ADEME*

**W**hen I was appointed President of the Board of Administrators of the French Agency for the Environment and Energy Management (ADEME) in March 2018, I took the helm of the principal operator for the ecological transition in France with pride and conviction. This transition and action to safeguard the climate are the major challenges of this century. A new synergy must be found between forces in the public and private spheres, and Europe must spearhead this movement.

Supporting companies as they make the environmental transition is one of the core missions of ADEME. Through our new division dedicated to businesses and companies, my goal is to reinforce our action to achieve this paradigm shift, working alongside the actors in the economy. I will be particularly attentive to measures to support green innovation by the country's environmental enterprises, in France and abroad, so that French expertise will gain visibility and reach a broader audience. Our objective is to help our companies gain competitive advantage, as well as to highlight French accomplishments. For we know low-carbon technology carries opportunities for jobs and economic development.

ADEME supports development of green technology for growing environmental markets, a sector with strong export potential. As an example, since 2010 over 745 projects have received funding under the Investments for the Future programme.

Through Club ADEME International and its 140 active members ADEME has a prime network for exchange and information sharing to support the development of innovative and collaborative projects.

Whether technological, social or economic, innovative approaches must drive the transformation of our society to address the social, community, environmental and health issues that confront us. The members of Club ADEME International embody this positive dynamic. I can only congratulate them and encourage them to continue in this path!

This catalogue puts the spotlight on the diverse profiles of the environmental businesses that make up the Club; these enterprises provide proof that solutions for the transition to a low-carbon society exist, sporting the colours of France in expanding international markets.

**Enjoy your reading!**



# 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](http://www.clubinternational.ademe.fr)

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# A word from the delegate general



**Jacques MOUSSAFIR**  
*Delegate general  
of the Club ADEME  
International*

**When I was elected as General Manager of Club ADEME International (CAI) at the end of 2017, I thought that I would never had enough time to know well enough all the bright enterprises that have joined the CAI, because the variety of your businesses and innovations is impressive, as evidenced in this catalogue.**

But I soon understood that my task would be easy, because the permanent team of ADEME has been running the Club quite smoothly since many years. The essential point is that we must act to preserve our open attitude towards other countries, as the signature of the international export spirit which we share among our enterprises, whatever their dimension. So I did my best to represent our enterprises overseas, in Abu Dhabi, in Chile, and in the U.S.A. I am certain that integrating the CAI into the Enterprises Division of ADEME will only strengthen our action.

The CAI also made significant progress in its alliances. The relationships created with FIMEA, SER and the Solar Impulse Foundation, led by Bertrand PICCARD, reflect this evolution, and these contacts increase the scope of our network.

One of the findings of our participation to GCAS (Global Climate Action Summit) in San Francisco last September is that the French Enterprises working in Environment and Energy benefit from highly favorable circumstances: we are the nation of the

Paris Agreement on Climate Change and of President Macron's motto: « Let's make our planet great again ! ». Do not believe that this is unimportant for the success of our enterprises worldwide ; wherever we go, this image travels with us, it serves us, and we have to live up to that expectation. This is so striking in California, where the State proudly fights against climate change despite all the Washington tweets, and where we are especially welcome.

The digital revolution impacts all the business areas of the CAI's companies and modifies our world very quickly. For air quality, we experience a series of technological changes and breakthrough innovations: cheap micro-sensors shall be used everywhere, in our cars, in our homes, in our offices, by millions, and their data will be sent to the Cloud, where immense computers allow unprecedented precision computations, using a mix of numerical physics, big data techniques and deep learning approaches. And this is when the giants walk into the scene and when Google (just one out of many) announces that it will work on climate change and air quality in large cities.

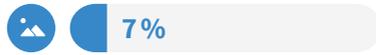
Let's work together, SMEs as well as large companies, let's build European teams and be audacious in our export actions to conquer the positions that French know-how deserves !

**Enjoy the catalogue !**



# Sectors of intervention

## Biodiversity



## Waste management



## Water infrastructure



## Renewables energies



## Air quality and odours control



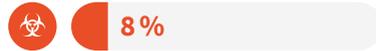
## Sustainable urban planning



## Noise and vibration



## Soil remediation



## Energy efficiency



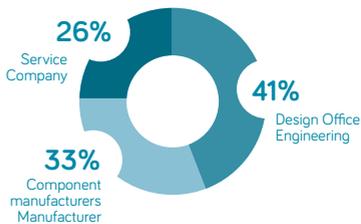
## Environmental development



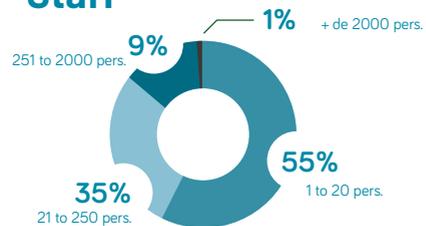
## Risks



## Services



## Staff



## 10 consortiums identifiés

Air Quality in China, Sustainable city in China, Environmental services in South East Asia, Geothermy in the Carabean sea, Renewable Energy in Haïti, Access to energy in Africa, Waste management in Africa, Waste sorting in Brazil, Environmental labelling for building in Indonesia.



# Exemplary project

## Exemplary projects



### MONITORING AND MANAGING ATMOSPHERIC EMISSIONS OF A MAJOR INDUSTRIAL GROUP IN MOROCCO

#### SECTORS OF INTERVENTION

Air quality and odours control  
Environmental development



**O**CP Group is a key player in the world market for phosphates and phosphate products. The group wants to monitor air quality above and around its chemicals plant in Safi, mines in Youssoufia, and the Jorf Lasfar industrial complex.

#### **The company's objectives are:**

- knowledge of concentrations of pollutants released to the atmosphere and odour levels, at all times;
- continuous modelling of air quality for near real-time evaluation and anticipation of atmospheric releases and their impact on site environments, workers and residents in the vicinity;
- capacity to communicate information on the impact of the group's industrial activity on the atmosphere and the environment;
- capacity to assess the sites' contribution to local pollution;
- in the event of accidental releases, capacity to furnish information for management of staff and of the incident (Jorf Lasfar only);
- capacity to draw up air quality forecasts for the sites and environs, depending on weather conditions and emission projections.

These forecasts are taken into account for on-site operations, and to modify activity if necessary to reduce the environmental impacts of the sites. Analysis and comparison of different production

scenarios are used to manage site impacts on a daily basis, and to compile daily, monthly and annual reports as required under Moroccan law.

**Post-project outcomes**  
(workforce, sales, economic and financial benefits, partnerships, etc)

**NUMTECH's collaboration with OCP Group is a prestigious customer reference in Morocco, as OCP is a leading company in this country, all business sectors considered.**

- NUMTECH's skills and know-how are recognized by OCP; NUMTECH has become a reference in air quality for the group, and can hope to work with the company again in the future.
- The economic and financial benefits of working on such a large project with an influential industrial company are substantial for a SME like NUMTECH, both in sales and in terms of experience acquired.
- In the course of our work with our Moroccan partners we have developed strong ties of trust and cooperation that open the door to future work in Morocco.



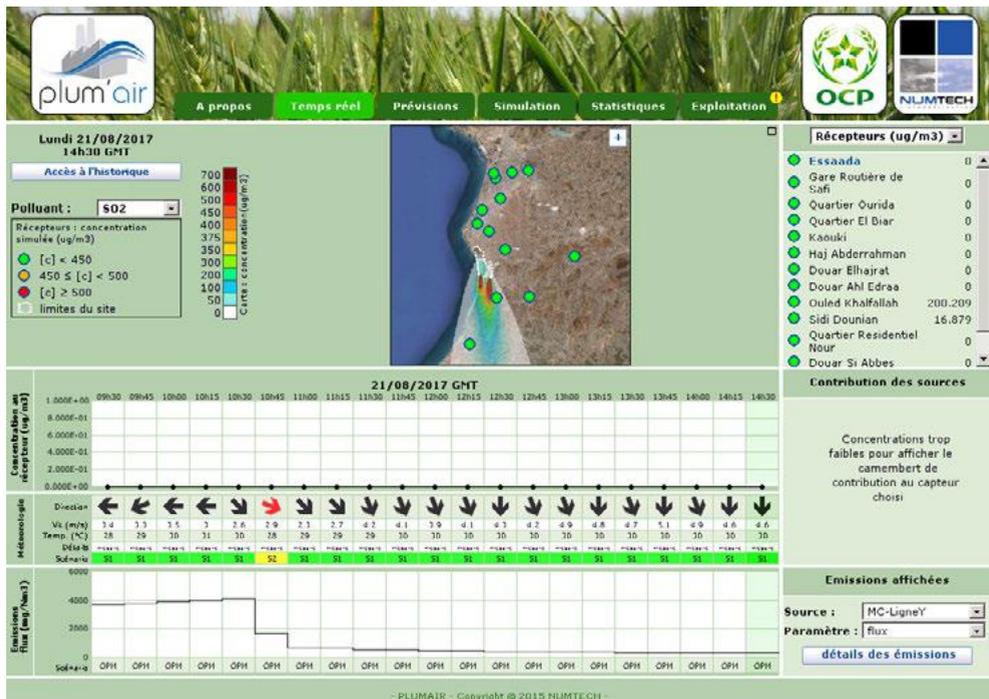
## Indicators Environmental / climate indicators

### Outcomes

- Correlation of pollutant concentrations / odours released to the atmosphere with site emissions and weather conditions;
- Material information for understanding and explaining pollution episodes and addressing any complaints from the local population;
- Regulatory responses as required by law, and historical record available at any time for ex post facto analysis if necessary;
- Anticipation of environmental impacts and ways to reduce them.



Custom Plum'Air® homepage for OCP Group



Plum'Air® software for real-time monitoring of atmospheric emissions



# Exemplary project

## Exemplary — projects



### COMPLEXE HÔTELIER SUNDY BEACH ECO RESORT.

**SECTORS OF INTERVENTION**  
Renewables energies  
Environmental development  
Energy efficiency



**C**onstruction of a hotel complex comprising 24 independent units, and service facilities, in Principe, in the São Tomé and Príncipe archipelago.

ARBONIS built the wood structures of the bungalows, floors, wood frame walls, exterior coverings, terrace decks

of tropical wood, textile awnings on stainless steel cable rigging, as well as exterior shutters and blinds of tropical wood.

We were also responsible for interior woodwork and flooring in tropical woods. For the service facilities we constructed four pontoon platforms in tropical wood, measuring respectively 6 m, 7 m (curved), 8.5 m and 9 m.



Photo credits : Didier LEFORT Architectes (DL2A) | Dário Paraíso  
Builder : HBD / Architect : Didier LEFORT Architectes (DL2A)



## EXTENSION INTERCONTINENTAL BORA BORA RESORT & THALASSO SPA

**T**he project was to extend the five-star Intercontinental Resort & Thalasso Spa that faces the main island of Bora Bora and Mount Otemanu in French Polynesia.

The Intercontinental wanted to add four suites on pilings, each with two bedrooms and private swimming pool. Work also included renovation and enlargement of the terraces and extension of the access pontoons at the ten existing villas (built by our firm 11 years ago).

The wood flooring of the suites is supported by cement pilings and girders. The wood frame exterior walls are

140 mm thick with glass wool insulation. The traditional frame structure is composed of decorative scissor trusses of solid wood.

The trusses support insulated roofing compartments of extruded polystyrene. Interior woodwork, panelling and flooring are of oak. Exterior shingles are made of larch wood and the terrace decks of tropical woods. This project was executed under a commercial partnership with the BOYER company (piles).

Preparatory work began in August 2016, when the worksite was installed, with sea platform, prefabrication workshop and temporary storage facilities. The project was delivered in November 2017.



Photo credits : Philippe GRANDOU Architecture  
Builder : TAHITI BEACHCOMBER SA / Architect : Philippe GRANDOU



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Waste management

## Activities

An online, waste market dedicated platform through which all types of registered and licenced waste collection, waste transportation, waste treatment companies can advertise their products or treatment capacity, and through which they can make reservations.

SELIGO allows:

- To geolocalise the current and predicted marginal treatment capacity available;
- To facilitate the sale of treatment capacity and the supply of recyclable waste, under the best market conditions with a minimised environmental impact;
- To optimise the use of treatment infrastructure and the management of compliance.

SELIGO.pro is operated by SELIGO Pro Ltd, registered as waste Broker Dealer under RegNo CBDU142880.

## References

SELIGO is deployed in the UK since September 2017

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**M. Thomas Paris**  
President  
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Staff:  
**3 persons**



## Activities

Audits, advice, expertise's, trainings for the management and the energy efficiency.  
Expertise in compressed air systems.

Energy efficiency  
Renewables energies  
Environmental development

## 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.

### INTERNATIONAL

ST Microelectronics Maroc, Sotek Québec, AQME Montréal Québec, Akzo-Nobel Belgique, ICEED Belgique, Armstrong Belgique.

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pascal.dumoulin@  
acenergie.fr

Staff:  
2 persons  
Turnover: 130 000 €



# ACOEM

Design office - Engineering - Equipment manufacturer -  
 Manufacturer - Service company



## Activities

ACOEM actively participates in the sustainable development of manufacturers by helping them to reduce and control their environmental impact. ACOEM offers manufacturers solutions to produce more by limiting waste, pollutants and energy consumption. ACOEM also provides to environmental actors a complete offer to control, analyze and reduce pollution.

ACOEM has been innovating for more than 45 years. The group has built its reputation thanks to its brands technological innovations: 01dB, METRAVIB, ONEPROD, ECOTECH, FIXTURLASER and MEAX. R&D accounts for more than 8% of ACOEM's turnover and its worldwide distribution network generates 70% of its sales abroad.



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Staff:  
**267 personnes**



Soils remediation  
Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

ADAMAS provides legal assistance and advice. Our clientele includes public authorities and establishments, local councils, ports, airports and major manufacturers, eco-enterprises and their representatives.

- Agreements on the sale of industrial plants ; Environmental and energy due diligence reports for mergers and acquisitions ; Risk management plans, flood risk management plans ; Classified facilities ; Agreements on contaminated brownfield remediation and redevelopment ; Contracts, concessions and PPPs in the areas of water, waste and energy ; Consultancy for eco-enterprises: business development, market monitoring with public authorities ; Agreements on decentralised cooperation ; Disputes regarding energy and the environment ; Environmental clauses in public contracts ; Certificates (energy saving, CO2) ; Taxes and fees.

ADAMAS advises investors, domestic and international energy producers and distributors and large public and private sector energy consumers. ADAMAS provides assistance in the performance of feasibility studies, optimises contracts for operational set-ups and negotiates energy performance contracts, survey and analysis contracts and energy purchasing contracts for projects in France and abroad. ADAMAS also defends clients involved in disputes, in particular before the French Energy Regulation Committee.

ADAMAS has greatly contributed to the drafting of the first and the second Energy Codes published by the legal editor Dalloz in 2014 and in 2015.

Overseas: Expertise in Chinese environmental law ; Assistance provided to energy operators and environmental expertise in Morocco ; Assistance provided to governments and public bodies (Morocco, Andorra) in the field of energy.

## References

### IN FRANCE

Assistance with and implementation of environmental procedures (advice and litigation): Construction of the Lumières stadium in Lyon (60,000 capacity) and monitoring of disputes ; Town planning operations (Greater Lyon – ZIP Salaise-Sablons high priority neighbourhood) ; Town planning certification (SERL) ; Drainage ; Management of major infrastructure (Port of Le Havre) ; Drafting and implementation of technological risk management and flood risk management plans (government and local authorities) ; Management of contaminated sites and land (for EPORA) ; Biogas/methanisation: assistance in energy development: feasibility study, set-up of supply contracts ; Heating networks: assistance for local authorities on installing heating networks ; Energy performance: assistance for local authorities on their energy performance contracts.

### INTERNATIONAL

Environmental due diligence for foreign company mergers/acquisitions in France ; Set-up of a Spanish waste management company in France ; Advice and assistance for investors on applicable environment law in China ; European legislation on handling asbestos in recycled building materials ; Assistance provided to ADEREE (Moroccan equivalent of ADEME) for energy efficiency (benchmarking of 5 countries and drafting of future Moroccan energy efficiency regulations).

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jean-marc.petit@adamas-lawfirm.com

Staff :  
**5 persons**  
Turnover : **10 M€**



# ADEQUATEC

Component manufacturers - Manufacturer -  
Design Office - Engineering



Energy efficiency  
Water  
Environmental development

## Activities

- Manufacture and marketing of a range of eco-designed screw-presses for sludge dewatering with very low energy consumption and very low operating cost: ADEQUAPRESS®
- Consulting, design and construction of dehydration workshop with high environmental value that can benefit from a certificate of energy efficiency
- ADEQUATEC is the pioneer and the only French manufacturer of screw press since 2005 with its ADEQUAPRESS® range
- The ADEQUAPRESS® range with reusable filter drums offers zero waste. Indeed, during the quinquennial maintenance of filter drums, 70% of their material (stainless steel) is reused and the remaining 30% are recycled.
- The ADEQUAPRESS® filter drums are of the Plug & Play type. Their replacement is done very quickly and without production stops
- ADEQUAPRESS® is a tool for energy efficiency and economy. The replacement of a centrifuge brings more than 200 kWh of energy saving and 50 € of saving on average on the operating cost per ton of dry matter.

70% of organic sludge in France, more than a million tons of dry matter, are dehydrated by equipment that consumes too much energy and is prohibitively expensive to operate. The rehabilitation of these WWTPs with ADEQUAPRESS® would erase more than 200 000 000 kWh per year, equivalent to the consumption of 400 000 inhabitants! The saving on operating costs representing more than 50 million euros per year, would allow each year to integrate solar panels producing 33 GWhc! As such, ADEQUAPRESS® can also be considered as a springboard for renewable energies.

In **anaerobic digestion**, the ADEQUAPRESS® can be used to thicken the raw sludge and then to dehydrate the digestate with the lowest operating cost on the market and unparalleled energy efficiency. The overall energy and economic balance of the anaerobic digestion is then significantly improved.

## References

### IN FRANCE

ADEQUATEC has a feedback of more than 10 years and more than 50 operational references with all water companies : Veolia, Suez, Saur, Industries (Sojasun, Bruggen, Adonis, Paper mill...) and municipalities (Belley (01), Bourges (18), Dijon (21),...).

### INTERNATIONAL

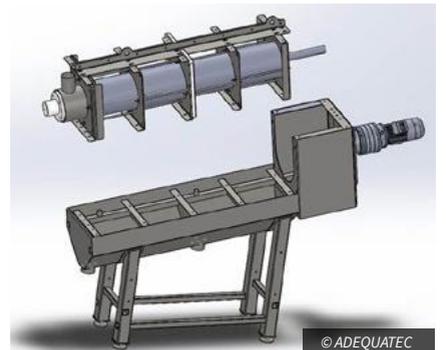
City of St Petersburg in Russia with Veolia Water, Medite Europe in Ireland.

## Certifications, labels or prizes

2010 first prize awarded by French Ministry of Ecology and ADEME (Energy Saving Agency).

See our video at:

[http://www.dailymotion.com/video/xfu81u\\_adequatec-prix-entreprises-environnement\\_tech](http://www.dailymotion.com/video/xfu81u_adequatec-prix-entreprises-environnement_tech)



### ADEQUAPRESS® offers:

- 95% energy saving
- 60% saving un running cost
- Simple, efficient: Detention rate > 95%
- High environmental value: Reusable filter drum
- Maintenance in situ without production stop

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Business Manager  
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Staff:  
5 persons  
Turnover: 1.1 M€  
International turnover: 125 000 €

# AÉMI SMART INGÉNIERIE

Design Office - Engineering



Energy efficiency  
 Environmental development  
 Renewables energies  
 Sustainable urban planning

## Activities

With a 20 years experience in technical control, energy management, automation and industrial IT, AEMI has great expertise in overall design and site assembly of control equipment for industrial processes.

Since its inception, AEMI has evolved its expertise in all areas of electrical installation, network information and modernization of industrial processes. This allowed us to provide innovative technology solutions turnkey.

AEMI is composed of complementary businesses in the conduct of projects. AEMI gained significant notoriety of the Normandy basin and is known for its capacity for innovation and adaptation to new technologies.

AEMI is present export through a group of SMEs in the Maghreb and black Africa.

### Our Products:

- MyHyperView [www.myhyperview.com](http://www.myhyperview.com)
- System information, technical SCADA, remote management, energy, monitoring, security protection, convergence of connected objects.
- CleanSuite [www.cleansuite.fr](http://www.cleansuite.fr)
- Areas Management System in controlled atmospheres.

## Certifications, labels or prizes

CSR & Sustainable Development: The AEMI group carries the values of sustainable development structures. That's why he hired from the IUMM (since May 2014) an evaluation Action LABEL RSE2014 - Corporate Social Responsibility.

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Staff:  
**20 persons**  
 Turnover: **1,5 M€**



# AKUO ENERGY

Design Office - Engineering



Renewables energies

## Activities

Akuo Energy is a private group which specializes in the development of industrial power production plants from renewable resources such as wind, sun, water and biomass.

The company is involved in all stages of the life cycle of power plants: studies, design, financing, construction and operation.

Akuo Energy is a French company of international standing, established in many locations worldwide.

Currently, Akuo Energy has offices and major projects in France and Corsica, several French overseas territories, the United States, Uruguay, Croatia, Poland, United Arab Emirates, Indonesia, Turkey, Mali, Luxembourg, Australia, Mongolia, Bulgaria, Argentina and Dominican Republic, with a flexible approach that enables the company to adapt to all local energy schemes.

Fully independent from power supply equipment manufacturers, Akuo Energy is able to select the best technological solutions depending on the resources available and specific local requirements of each particular project.

Today, Akuo Energy has more than 700 MW-worth of projects in operation, more than 600 MW under construction or in a financing underway, and an aggregate energy generation capacity of 3,500 MW that Akuo will develop and build in the next five years.

## Certifications, labels or prizes

In March, Fondation Nicolas Hulot launched a large-scale media campaign to raise the visibility of innovative climate solutions, urging web surfers to vote for the most valuable projects. The commitment to social and economic responsibility and innovative energy solutions shown during the Bardzour project (Detention Centre, Port de la Réunion) was hailed by more than 75,000 votes during this campaign, making us the overall winner with widespread media attention for our project. This is not only the first solar project in the world with storage for a power station of 9 MW (stable solar energy production for 12,000 inhabitants), it is also an unprecedented social and environmental project. The project helps prepare convicts for their return to society by teaching them market-gardening skills (thanks to 6,000 m<sup>2</sup> of PV greenhouses) as well as beekeeping, key for the preservation of the island's biodiversity.

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Communications Officer

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Staff :  
**340 persons**

Turnover: **205 M€**

# ALTEREA

Design Office - Engineering



## Activities



ALTEREA, French company specialized in energy and building engineering, and ADEN Services, leader of facility management in China (and present in all Asia and Africa), have created a Joint-venture in 2014.

Decisive in this JV, ALTEREA bring his knowledge for the development of new solutions of energy savings in Asia and Africa.

This promising partnership combines all the ingredients of success: the expertise of ALTEREA in building energy performance, the power of the sales network of ADEN Services (more than 25000 collaborators in the world) and the explosion of the request of energy saving solutions on those continents.

This JV ambition is to endow Asian and African market with an innovative and integrated offer, from initial audit, to the correct exploitation of equipments including the technical conception, the realization of the works of energy efficiency and the implementation of computer systems of energy management.

Its strength is to be able to lean on the combined skills of 250 specialists of the energy and the building of ALTEREA and 1 000 engineers and technicians of the division maintenance of ADEN Services.

Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies

## References

### IN FRANCE

- **Manufacturing facilities** : PARIS AIRPORTS GROUP (office, airports terminals,...), CEGELEC (office), GROUPAMA (office), SNCF (French National Stateowned Railway Company), KIABI (stores), ERAM (factories), IBM (factories - data center), TGV (factories), RATP (transport authority in Paris), SFR (stores),...
- **Public building/Education** : City of Paris, National Assembly, SIPPAREC (Ile-de-France), SYDEV, Pays de la Loire, City of Bordeaux, City of Pau,...
- **Residential** : Paris Habitat (Top 3 public housing in France), Property Management Company of Paris, Nantes Habitat, LNH, Partenord Habitat, Vilogia, Alliade, Mistral Habitat, Logiest, Habitation Moderne, Habitat 17, Clairsienne,...

### INTERNATIONAL

- **In China** : Air Liquide, Hermès, Cooperl, Gentherm, Freeman, Sofima, Shanghai Institute College, Fred and Farid digital Agency, Sidel, ACCOR Group, Radiall, Sandvik, Knorr-Bremse, Somfy, Grand chais de France, Bosch, Thyssen Krupp, Honeywell, Christoffe...
- **In Africa** : Prospection in Ivory Coast

## Certifications, labels or prizes

- OPQIBI and RGE qualifications
- QUALIBAT certification
- Energy retrofit Expert - PROMOTELEC certification
- CMVP certification
- CERQUAL certifications
- Insurance «Energy Performance Guarantee»
- Energy Performance Diagnostic certification and accreditation
- Citer'gie adviser
- Carbon audit accreditation / PCAET training
- Member in the Vivapolis Approach and BBKA association
- Energiesprong Charter
- Energy Performance Guaranty Charter

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Staff :  
250 persons  
Turnover: 19 M€  
International turnover: 2 M€



# ALTEREO

Design Office - Engineering




Biodiversity and landscape  
Water infrastructure  
Environmental development  
Sustainable urban planning

## Activities

Altereo is an engineering firm founded in France 30 years ago.

Its activities cover:

- Water & environmental engineering
- Consulting for Public Utility Management
- Sustainable Development of Cities & Territories
- Development of Geographic Information software (GIS)

Altereo is present on 12 sites in Metropolitan France and in Morocco, Ivory Coast, New Caledonia and Polynesia.

## Innovations

Altereo is a major player in Water Utility Performance:

- In the field of GIS with its KIS suite for water and waste water offering all the benefits of 100% web technology.
- In the field of water network strategic asset management with HpO® which exploits artificial intelligence to multiply the efficiency of investments by targeting the most critical elements of the network.

Altereo's R&D teams have also conceived decision support systems for water resource management, biodiversity and urban sprawl.

## References

### IN FRANCE

More than 5000 clients of all sizes, mainly public, have trusted Altereo for water and wastewater audits and master plans, city planning, governance consulting or Geographic Information System projects.

### INTERNATIONAL

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

## Certifications, labels or prizes

ISO 9001 - BPI France Excellence - French Tech - UN Global Compact - Vivapolis

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Staff :  
**170 persons**  
Turnover: **14 M€**  
International turnover: **1,5 M€**

# ALTERMAKER

Service Company




Environmental development

## Activities

Altermaker is at the crossroads between Sustainable Development and product design. We carry out customized IT developments and also have a software publishing activity.

Our flagship product is Ecodesign Studio: an innovative solution for the management of eco-design.

Ecodesign Studio allows to structure the approach, to integrate all the tools needed by the company, to publish relevant indicators and to capitalize on the projects. This software platform is thus the medium allowing the company to enlarge and generalize the eco-design approach by providing accesses and tools adapted to all internal and external stakeholders in the value chain (suppliers, designers, marketing, management...).

The solution developed is based on 4 complementary pillars:

- Collaborativity to facilitate the sharing of data throughout the design process and the communication of results
- Modularity allowing the company to use the necessary tools / modules according to its design process and its maturity.
- Management by the setting of dashboards, both at the product level and at the company level (including indicators linked to the last ISO 14001:2015 version).
- Capitalization of knowledge to speed up future projects within the company.

## References

Ecodesign Studio is distributed in France and internationally by consultants specialized in eco-design, innovation or more broadly in strategy and sustainable development.

The software is used by French and international companies of all sizes and all sectors involved in product design.

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Staff:  
3 persons



# ANTEA GROUP

Engineering and Consulting



Water  
Soils remediation  
Air quality and odours control  
Biodiversity and landscape  
Environmental development  
Renewables energies - Risk  
Sustainable urban planning -  
Waste management

## Activities

As an international engineering and environmental consulting firm, Antea Group specializes in full-service solutions in the fields of environment, infrastructure, urban planning and water. We combine strategic thinking and multidisciplinary perspectives with technical expertise and pragmatic action to effectively solve client challenges while delivering sustainable results for a better future.

With more than 3,100 employees in over 80 offices around the world, we have established trustworthy relationships with a wide range of customers: private companies, international industries, as well as IFIs, municipalities, local and national public authorities.

Antea Group has around 20 offices in France and 4 in French overseas departments (French West Indies, French Guyana, Reunion Island). With branches in Africa and Latin America, Antea Group has considerable experience in international projects.

## References

### IN FRANCE

Many references in mainland France and its overseas territories:

- Design and work supervision of the extension of the Seine Aval wastewater treatment plant (6,500,000 p.e., the biggest European WWTP)
- Loire Bretagne Water Agency: Management of water quality data (27 million data managed)
- Multiple geotechnical studies for the Grand Paris Express subway project.

### INTERNATIONAL

- Niger: Technical assistance to the contracting authority for the strengthening of the drinking water supply system of Niamey city (funded by French Development Agency, EIB, Finexpo, Orio)
- Guinea: Environmental and Social Impact Assessment for a 400 km 225 kV power line project
- Kenya: Improvement of the waste management in Kibera, a poor neighborhood of Nairobi (funded by World Bank).

## Certifications, labels or prizes

- In France : LNE, MASE, OPQIBI

Ranked #30 among the top 200 worldwide ranking of ENR (Engineering News-Record).

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Project manager  
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Staff:  
**840 employees**  
Turnover : **100 M€**  
International turnover: **10 M€**

# APB ENVIRONNEMENT

Component manufacturers - Manufacturer  
Service Company



Soils remediation  
Waste management  
Water infrastructure

## Activities

Even before Sustainable Development and Environmental protection became an issue deeply rooted in our society, APB Environnement had already integrated these concepts at the very core of its strategy. Founded in 1993, APB Environnement is a company specialized in treatment of different sources of organic waste. APB has already been exporting its solutions around the world since 2006 and has notably consolidated its growth through the creation of two subsidiaries : the first one in Africa named APB Environment Morocco and the second one in Asia named APB Environment Vietnam. APB assists its customers throughout the whole process of their environmental strategies by providing a wide range of business activities including and combining products, equipments and services.

APB Environment mainly sells its products through exclusive distributors at overseas territories. It has developed an innovative and global offer for various applications such as aquaculture, water bodies, hydrocarbons, hospital wastes and fermentable wastes.

## References

ACCOR group, Mc DONALD'S, SUEZ Environnement, TECHNOCENTRE RENAULT, VINCI, PARIS City Hall, LYON Metropole, FRENCH NATIONAL ASSEMBLY, LEON DE BRUXELLES, DASSAULT, LE MERIDIEN Hotel, etc...

## Certifications, labels or prizes

- Certified ISO 9001 VS 2015



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Staff:  
10 persons  
Turnover: 2 M€  
International turnover: 15%



# AQUALTER CONSTRUCTION

Component manufacturers - Manufacturer - Design Office - Engineering



## Activities

**AQUALTER Construction** capabilities is to perform turnkey contract for potable or waste water treatment plants. **AQUALTER Construction** provides detailed design, manufactures mechanical or electrical equipment and operates water treatment plants both in urban and industrial fields.

As a member of National Union of Industries of Wastewater Treatment (SYNTEAU affiliated with the UIE – national union of industries and companies of water and environment -and the National Federation of Public Works), **AQUALTER Construction** holds a Class 5 professional authorization for sewage treatment plants up to 150.000 population equivalent.

By his references (nearly 1.000), **AQUALTER Construction** is positioned as the 4th French company in the field of water treatment. Throughout its experience, **AQUALTER Construction** makes available to worldwide clients, all its skills and capabilities in the field of water treatment.

## References

### IN FRANCE

- **Construction Turnkey Contracts:** Waste Water treatment plants of Chartres (200.000 PE), Vallée de l'Auzon (47.000 PE), Sorgues (60.000 PE), Vallée du Gapeau (80.000 PE), Freyming (49.000 PE). Papeterie de Voiron et de Lancey (360 000 EqH). Potable Water Plants : Lusignan (60 m3/h), Verneuil l'étang (100 m3/h).
- **Operation and Maintenance Contracts:** Chartres metropole (55.000 subscribers), Montpellier (24.000 subscribers), L'aigle (20.000 PE), Orgeval (12.000 PE).

### INTERNATIONAL

Water treatment plant of Danone Moscow (50.000 PE), Lactalis Moscow (10.000 PE), Bongrain Pribina Czech Republic, (40.000 PE), Danone Belgium (51.000 PE).

Water infrastructure

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Staff :  
**230 persons**  
Turnover: **63 M€**  
International turnover: **3 M€**

# AQUASSAY

Design Office - Engineering - Component manufacturers -  
Manufacturer - Service Company



Energy efficiency  
Environmental development  
Risk  
Water infrastructure

## Activities

- Engineering services in water efficiency in industry: identify industrial operations, act primarily at source to consume less, produce better and reject less
- Supply of a data analysis system for installations and / or industrial sites. Solutions for data collection, storage and visualization. Advanced functions of real-time process simulation and prediction.

## References

- INDUSTRIAL GROUPS : NESTLE WATERS, SODIAAL
- INDUSTRIAL MANUFACTURERS INTEGRATORS : BWT

## Certifications, labels or prizes

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

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Staff:  
21 persons





Energy efficiency  
Environmental development

## Activities

AQYLON designs, manufactures and installs high efficiency and cost effective ORC solutions (Organic Rankine Cycle). AQYLON proposes a range of products for solutions up to 10MWe. Our concept is to adapt our ORC modules to the specific needs of the project, in order to optimize the heat and power outputs.

We are involved in two sectors:

- Energy Efficiency, to recover heat from industrial waste heat (glass, cement, incinerators,...), or from Internal Combustion Engines (biogas, diesel, HFO and gas). For this, we work at high temperatures.
- Renewable Energy, to produce power from biomass, geothermal or solar thermal sources. In this case we can work with heat sources ranging from 85°C up to whatever is required.

We can propose the ORC alone or the complete turnkey solution, including the heat exchanger on the exhaust fumes for the hot loop, and the coolers of the cold loop.

AQYLON offers two business models. Customers may invest through the usual purchasing process. For customers not willing or able to invest, we have a "ZERO CAPEX/ OPEX" option with fully financed turnkey solutions in exchange for the sale of the produced electricity. The electricity produced by our ORC is sold at a price below the grid electricity price or production costs (PPA - Power Purchase Agreement).

## References

AQYLON has participated in many projects of heat recovery. Among our customers, we have SME as well as large groups such as TOTAL, EDF, VEOLIA, Trifyl in France or OCP SONASID in Morocco.

AQYLON exhibits since 2013, a prototype of an ORC solution of 70kWe at ENSAM Paris.

- In 2014, AQYLON installed an ORC of 130kWe in Septeme, in the south of France.
- In 2017 a 100kWe ORC has been installed in Toulouse
- In 2017 Aqylon signed several projects such as for complete turn key Biomass Power Plants, and for WHR in the industry for sizes from 1Mwe up to 3MWe.

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Staff:  
**20 persons**  
Turnover: **100 000 €**

# AR ARCHITECTES

Service Company



Sustainable architecture  
 Biodiversity and landscape  
 Energy efficiency  
 Environmental development  
 Renewables energies  
 Sustainable urban planning  
 Waste management  
 Water infrastructure

## Activities

AR ARCHITECTES french company, is based in Paris and was established since 2003. It specializes in architectural design associated to new engineering technologies that reduces energy consumption and that restores natural resources in architecture and urban design.

Under the direction of Ruba ALABED founder of AR ARCHITECTES and graduate architect-designer DESA, specialized in HQE®, the company works for public and private clients.

The company has a multidisciplinary team specialized in:

- Environnemental architecture
- Biological engineering.
- Landscaping.
- Urban design.
- Computer aided design.

AR ARCHITECTES designs bioclimatic buildings using recycled materials of construction and sustainable landscaping using techniques in phytoepuration (water treatment by plants).



«Arch of Biodiversity» Eco-design of a sewage water treatment plant in Villiers-Saint-Frédéric (France)

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Staff :  
 5 persons



# AR-VAL

Component manufacturers - Manufacturer



Waste

## Activities

For more than 17 years, Ar-Val has been working 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 proposes the best technical, economic and environmental answer:

By designing scalable sorting and processing centers capable of adapting to any necessary modifications.

- Based on his feedback to optimize technical solutions.
- By developing a range of software allowing complete automation of sorting processes, real-time monitoring of performance, maintenance management, configuration of all equipment depending on the nature of the products.

Since its creation, a large number of local authorities and private operators have trusted ar-val. Thus, Ar-Val has realized sorting chains of selective collection, composting unit, proximity composting site, solid fuel recovery plant (CSR) & biomass, waste electrical and electronic equipment (WEEE) and metals, Banals Industrial Waste Center (DIB), Biological Mechanical Sorting (TMB), air treatment etc.



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© AR-VAL

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Staff:  
70 persons  
Turnover: 30 M €

# ARBONIS

Component manufacturers - Manufacturer



Biodiversity and landscape  
Environmental development  
Sustainable urban planning

## Activities

Arbonis provides expertise in wood construction design to fit your structural projects backed by a team of dedicated and experienced engineers and technicians.

Arbonis also develops a wood three-dimensional modular system (Arbo 3D) for various types of buildings, who meets the requirements of a low-energy building, by allying aestheticism, speed of execution, control of quality and safety, low environmental impact and optimized costs.

From preliminary drafts to full implementation studies, Arbonis will provide technical solutions to fit your specific project in separate contracts for works lots, macro-lots, general contractor or custom-built design.

With different plant locations throughout the country our production facilities and work services realize simple to complex realisations.

## References

- COP 21 Plenary chamber – Le Bourget (93)
- Allianz Riviera Stadium – Nice (06)
- Covered water park « Aqualagon » - Villeneuve-le-Comte (77)
- The « Cité du vin » - Bordeaux (33)
- Pool, Sports and fitness center - Rabat (Maroc)
- University Mohammed VI Amphitheater – Casablanca (Maroc)
- Oyala Stadium presidential stand - Djibloho (Guinée Equatoriale)
- Student residence – Marseille (13)
- Nelson Mandela High school - Nantes (44)
- Sheraton Lagoon Resort & Spa\*\*\*\* Hotel - Moorea (Polynésie)
- Airport terminal - Pamandzi (Mayotte)
- Buildings Heightening « Glacière-Daviel » - Paris (75)
- « Carrefour » Logistics Platform - Artenay-Poupry (28)

## Certifications, labels or prizes

- ISO 9001
- ISO 14001
- Wood Construction National Award
- National Wood Construction Award 2018 (category « Live Together ») for the student residence « Lucien Cornil » in Marseille (13)
- Ile-de-France Wood Construction Prize 2018 (National Wood Construction Award 2018) for the Covered water park « Aqualagon » in Villeneuve-le-Comte (77)



© ARBONIS



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Staff:  
**265 persons**  
Turnover: **47 M€**  
International turnover: **6 M€**





Biodiversity and landscape  
Water infrastructure

## Activities

Our company designs and manufactures nebulization equipments to optimize the hygrometry for various industrial applications and the preservation of fresh products for the food industry. For retail supermarkets, our equipments maintain the freshness of products on the shelves (fruits and vegetables, fish, cheeses, meats) and significantly improve lifetime of the food products. Our technology offers all guarantees of safety and complies with the norms in force, it is 100% natural.

Our business approach has been rewarded at the departmental, regional and national level. With 10% of turnover re-invested in R+D, we currently have 24 patents and 15 brands. R & D is a strategic focus for the company, we have 4 engineers.

## References

### INTERNATIONAL

We are present in Portugal, Spain, Italy, Germany and Australia. Europe is a major axis of development as well as North America where we have a commercial subsidiary for our businesses in US and Canada.

## Certifications, labels or prizes

- Jean-Jacques Matern 2001
- Technology and Innovation 2007
- SIPEC 2008 Award
- Classe Export 2009
- INPI innovation 2010
- ECO 2012
- Social responsibility and national collaboration 2014
- Sustainable Development 2017

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Staff:  
**100 persons**  
International turnover:  
**12,5 M€**

# ARIA TECHNOLOGIES

Design Office - Engineering - Service Company



Air quality and odours control  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management

## Activities

Consulting studies & professional training: meteorological analysis, emission inventories, simulation of the atmospheric dispersion of industrial and urban releases, evaluation of health impact, forecasting of air quality for industrial plants, urban areas or at regional scale, forest fires, climate adaptation services.

Commercial software packages:

- ARIA Impact: Air Quality impact of industrial and traffic emissions.
- ARIA Impact 3D: Air Quality impact of industrial and traffic emissions for complex sites.
- ARIA City: Air Quality impact of industrial and traffic emissions, under Arcgis interface.
- ARIA Risk: 3D Industrial Risk assessment.
- ARIA Local: CFD and small-scale dispersion modeling with obstacles.
- ARIA Indoor: Indoor air quality modelling.
- ARIA Wind: Mapping, siting and optimization of wind farms.
- ARIA Regional: Analysis and forecasting of air pollution on a regional scale.
- ARIA View: On-line air quality supervision and prevision system for the emissions of a plant or an industrial area.

ARIA Technologies exports its software and technologies in the E.U. and in several other countries: USA, Japan, Brazil, Mexico, Persian Gulf, Northern Africa,...

## References

### IN FRANCE

#### Clients:

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

#### Projects:

Aircity project, Study on the area «Vallée de Seine», Study on the area «Roussillon», SIMPAC project, urban planning

### INTERNATIONAL

#### Clients:

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

#### Projets particuliers:

Grand Casa emission inventory (Morocco), Beijing 2010 (China), Romair (Roumania), Ar do Rio (Brasil), Bamako (Mali), CONAIRE (Chile)

## Certifications, labels or prizes

- «Grand Prix Generali des Respirations 2014» for AIRCITY project
- Label of Advancity for AIRCITY project
- Three label of ADVANCITY, AXELERA and SYSTEMATIC for FAIRCITY project

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Staff:  
28 persons

Turnover: 2.8 M€  
International turnover: 1,6 M€



# ARKOLIA ÉNERGIES

Design Office - Engineering - Service Company




Energy efficiency  
Renewables energies  
Waste management

## Activities

Founded in 2009, Arkolia Energies is specialized in turnkey solutions for **solar, biogas and wind power plants**, either for its own account or for third parties.

The company is present all over the industry's value chain: **development, procurement, construction, operation and maintenance.**

Arkolia Energies took a new turn in 2011 by becoming a co-investor in power plant projects (Arkolia Solar Park).

- Arkolia Energies' strategy is:
- The increase of **R&D** investments for biogas and photovoltaic (Smart Grid)
  - The development of **large wind projects** (terrestrial and floating) and **solar power plants**
  - The **production of energy**

## References

- + 150 MWh installed
- + 350 plants
- + 600 MWh in development

## Certifications, labels or prizes

- Masters de La Lettre M - Master Human Resources (2017)
- OPQIBI - RGE
- BPI Excellence 2016
- Trophée Expobiogaz 2013
- ADEME - PIA for its biogaz technology Arkométha

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Staff :  
**49 persons**  
Turnover : **24 000 €**  
International turnover : **8 M€**

# ATOLL ENERGY

Design Office - Engineering



Energy efficiency  
Renewables energies

## Activities

Almost two-third of the energy used for electricity generation is wasted as heat. Atoll Energy solutions harness waste heat and turn it into utilities in order to save up to 35 % energy and related GHG emissions.

The company uses in-house innovations and a design methodology validated by several measurement campaigns in order to engineer and install turn-key installations: hot water and heating, air-conditioning and industrial conservation, fresh water.

Atoll Energy delivers one to three of these utilities with recycled heat; customised design ensures performances are met.

## References

### Housing - Commercial sectors:

- Technopole de l'environnement Arbois Méditerranée, Aix-en-Provence, France
- Club Méditerranée Maldives
- Seychelles Energy Commission.

### Industry:

- CEA, French Alternative Energies and Atomic Energy Commission, Cadarache, France
- Public Utilities Corporation, PUC, Seychelles

## Certifications, labels or prizes

- Talents INPI 2016

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Staff :  
5 persons



# AUTOMATIQUE & INDUSTRIE

Design Office - Engineering - Service Company



Energy efficiency

## Activities

**Energy management, supply, regulation, monitoring, support to reduce energy consumptions, for infrastructures, buildings and industries.**

**AUTOMATIQUE & INDUSTRIE** develops and integrates complete, suitable, open and sustainable solutions to get your facilities on the path to greater energy efficiency. Our end-to-end turnkey solutions are based on open architectures and can be highly customized.

**AUTOMATIQUE & INDUSTRIE** has the technical capabilities and expertise to ensure the success of your projects while guaranteeing seamless integration with your existing systems. Our solutions allow to describe the virtual circle of energy efficiency:

PREDICTION, MEASUREMENT, COMPARISONS, IDENTIFY SOURCES OF SAVING, PROPOSE IMPROVEMENTS, CONTROL RESULTS.

**AUTOMATIQUE & INDUSTRIE** works with you at every stage of the investment lifecycle from the initial feasibility study to operational maintenance. From the preliminary planning and measurement phases to compare and understand data, you can count on us at every step of the project to:

- Define your **metering plan** and its technical start up;
- **Support** you globally on the different steps of an **energy management software implementation** or a **supervision system** (building management system, energy management system, centralized technical management system), from **integration** to **users training**, considering **cyber security issues**;
- **Detect drifts** of your energy consumptions, **checkup the results obtained and make recommendations for improvements.**

## References

### IN FRANCE

- **Businesses:** Schneider, EDF, Airbus, Dassault, Vinci facilities, Safegate Thorn, Rio Tinto Alcan, Bouygues, Starwood hotel, Sermas-Industrie, Sames, Carbone Savoie, Air Liquide, Stepan Europe, Weiss, Bull, ILL, Caterpillar, Eurocopter, Copal, Montupet, NTN-SNR...
- **Airports:** Villacoublay, Paris airports, Vatry, Saint Yan, Bordeaux, Nice, Dole, Lyon, Lille, Auxerre, Pau, Polynésie, Île de la Réunion, Nouvelle-Calédonie, Cayenne, Saint Pierre & Miquelon, Martinique, Guadeloupe...

### INTERNATIONAL

- **Businesses:** ADEREE (Maroc), Al Omrane (Maroc), Rio TINTO (Cameroun), Asecna (Sénégal), EDM (Mali), Starwood (Sénégal), Colair (Roumanie), Safegate (Dubai, Australie), Schneider (Qatar), Airbus, Montupet, Dalkia (Dubai), Esight Energy (London), Montupet (Bulgarie)...
- **Airports:** Jeddah (Arabie Saoudite), Sanaa (Yémen), Zadar (Croatie), Larnaca (Chypre), Téheran (Iran), Abidjan (Côte d'Ivoire), Alep (Syrie), Manille (Philippines), Bezmer (Bulgarie), Baneasa (Roumanie), Debrecen (Hongrie), Montevideo (Uruguay), Djibouti (Djibouti), Garoua (Cameroun), Melbourne (Australie), ADCO (Emirats), Nanosny (Azerbaïdjan), Bata (Guinée Equatoriale), Libreville (Gabon), Dakar (Sénégal), Bongkot (Thaïlande), Italy (Roma)...

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Staff :  
**80 persons**  
Turnover : **6,4 M€**  
International turnover: **2 M€**

# BASE

Component manufacturers - Manufacturer



Energy efficiency  
Renewables energies

## Activities

BASE is a French SME specialised in solar energy, founded in 2009. BASE has developed Cogen'Air, the first Thermovoltaic solar panel producing electricity and heat.

The Cogen'Air solar panel produces 1000W of energy (250W of electricity and 750W thermal), to reduce buildings and industrial drying processes energy expenditure and generate photovoltaic revenue. Cogen'Air increases the value of dried materials (forage, wood, agri-food) and reduces their transportation costs (waste).

BASE carries out energy studies for companies wishing to reduce their operating costs, reduce their environmental impact and increase their

energy independence. These studies are a decision-making aid in order to efficiently and durably reduce their consumption and their carbon footprint by improving the electrical and / or thermal efficiency of their buildings / processes.

## References

BASE has several references in France for solar drying (forage, wood, waste) and for energy efficiency of buildings (electricity, heat, hot water production...). BASE has partners in Morocco and Brazil and is seeking other partnerships to increase international development.



© BASE

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Staff :  
20 persons



# BERTIN TECHNOLOGIES

Design Office - Engineering




Air quality and odours control  
Renewables energies  
Risk  
Waste management

## Activities

Bertin Energie Environnement Business Unit :

### Our business:

Innovative Solutions for the Energy, Environment, Industry and Territories sectors

### Our skills:

Consulting / Engineering and expertise / Technology development / Risk management / On-site implementation

### Our services:

#### Engineering, Consulting, & Innovation:

- Innovation and technologies consulting
- Engineering studies and expertise
- Industrialisation of innovative processes
- Technological development, prototypes and demonstrators

#### Industrial Risk Management and Reliability & Maintainability:

- Regulatory studies in accordance with environmental code (Hazard studies, operation licences,...)
- Help to decision support in relation to safety and environment
- Safety and quality insurance reports for Nuclear and Defence industries
- Reliability, Availability, Maintainability and Safety (RAMS) of major scientific projects

#### Positive-energy Islands and Territories:

- Conception of hybrid plants and local microgrids with renewable sources
- Feasibility studies and on-site projects
- Advanced Energy Management System (Enerbird<sup>®</sup>)
- Operation monitoring and guaranteed performance

#### Industrial Energy Performance:

- Energy audits of industrial processes
- Implementation of energy-saving technologies
- Monitoring and optimization of processes
- Financing & performance contracting

## References

### IN FRANCE

- Industry sector : ABENGOA, AIR LIQUIDE, ALBIOMA, ARKEMA, ARYSTA LIFE SCIENCE, BOSTIK, CEA, CGG, COMAT, CNES, CNIM, DRT, EDF, ENGIE, ESID, FIVES, LABEYRIE, L'OREAL, MICHELIN, SAUR, SCHNEIDER ELECTRIC, SOLVAY, SUEZ, TEREOS, TEMBEC, TIRU, TOTAL, UPM, VEOLIA, VINCI
- Public Authorities : ADEME, French Industry and Finance Minister, French Environment Minister
- Financial and cooperation organisation : AFD (French Development Bank)

### INTERNATIONAL

- Process Industry : Sonatrach, Sorfert, BP Exploration (Algeria), RSW (Canada).
- Public organisations : ANME (National Agency for Energy Management - Tunisia), Ministry of Environment (Algeria), Ministry of Energy (Burkina Faso), GTZ (North Africa), European Commission, MASEN (Maroc)

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Staff:  
70 persons  
Turnover: 10 M€  
International turnover: 3 M€

# BEST ENERGIES

Design Office - Engineering




Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Water infrastructure

## Activities

Energy production facilities represent significant opportunities and can be a good source of energy savings, as long as design and management project are relevant. Whatever the power plant type: cogeneration, trigeneration, biomass, methanization, solar, geothermal, etc. our teams have the expertise to lead to success.

**Best Énergies is...**  
30 projects in energy efficiency by year  
Save an average **20%**  
21 million global investment

## References

Best Energies has already conducted several international projects in particular in Russia, Belgium, New Caledonia or United Kingdom... Thanks to its subsidiaries dedicated to technical support (service activity and international expertise),

Best Energies is able to provide its experts in all areas offering opportunities.

### IN FRANCE

- Engineering for the Energy production plant (biomass and gas), gas cogeneration, district heating network : Fleury-les-Aubrais
- Engineering for the Building of a biomass cogeneration, district heating network extension : La Source
- Expertise and audit of productions and networks and support for improving the energy efficiency of the cooling network of the

### INTERNATIONAL

- Projective investigation, heating network : Kalouga, Russia
- Technical Studies for Creation of a new heating network : Island of Saint Pierre and Miquelon, North America
- Construction studies for a ORC biomass cogeneration : Maré Island, New Caledonia
- Studies for a power plant : City of Charleroi, Belgium

## Certifications, labels or prizes

- Certified ISO 9001 since 2014

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Staff:  
48 persons



# BETEN

Design Office - Engineering



## Activities

BETEN is an Eco-Company specializing in development of innovative solutions in different environmental areas:

- renewable energies (wind, solar power, biomass, biogas, mini hydro)
- energy efficiency in buildings and industrial processes
- water treatment, solid, liquid and gaseous waste treatment
- aromatic plants distillation and extraction activities
- agricultural and agri-food production organic certification

Each project, developed or realized, is subject to assessment of the most efficient and innovative solutions, compatible with Customer's specification.

BETEN's activities are carried out at more than 80% internationally, and after a period of achievements in Africa and the Middle East, then in Asia, they also have been located for more than 30 years, with a strong presence, in Eastern Europe countries and in particular, in the CIS area (Ukraine, Russia, Kazakhstan, Moldova, etc.) and in the Balkans (Croatia, Bosnia, Montenegro, etc.).

Renewables energies  
Waste management  
Water infrastructure

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com

Staff :  
**5 persons**  
Turnover : **10 M€**  
International turnover : **3 M€**

# BEYOND RATINGS

Service Company

## Beyond Ratings

*Sovereign Risk Matters*



### Activities

Beyond Ratings is an independent financial services provider dedicated to country risk and the sovereign asset class. We offer augmented credit risk assessment, ESG integration, and advanced carbon footprint/2° alignment analysis. We cover 200 countries and work with a variety of client profiles, including pension funds, insurance companies, asset managers, and infrastructure investment funds.

### References

Created in 2014, Beyond Ratings works with major financial institutions in France, the UK, and the Nordics. We are actively working to expand our presence worldwide, and are confident that our services will participate in improving the integration of climate issues into financial analysis.

### Certifications, labels or prizes

Beyond Ratings is labeled Young Innovative Company. In 2016 the work that we did for the French insurance company Garance MNRA received a prize from the French Ministry of the Environment for its innovative approach to carbon reporting.

Risk

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com

Staff:  
**10 persons**



# BIODIV WIND

Design Office - Engineering



## Activities

Biodiv-Wind designs and markets automated wildlife detection technology devices. In particular, Biodiv-Wind has developed SafeWind, a real-time video surveillance system adapted to the wind power industry and diurnal and nocturnal flying wildlife.

SafeWind effectively detects and reduces the risk of collisions of birds and bats with wind turbines. Biodiv-Wind has also developed BirdSentinel, a stand-alone video device to assess the aerial activity of flying wildlife and to anticipate the erosion of production in the event of a need to regulate wind turbines.

## References

Winner of the Investissements d'Avenir, Biodiv-Wind is now accompanying several dozens of wind projects, in development and operation, in France and Europe. In particular, Biodiv-Wind implemented the first long-term video monitoring of bats activity on a wind turbine in operation.

Biodiversity and landscape  
Environmental development  
Renewables energies  
Risk

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Staff :  
**6 persons**

Turnover: **700 000€**  
International turnover: **50 000 €**

# BLUE SOLUTIONS

Component manufacturers - Manufacturer

BlueSolutions  
Bolloré

## Activities



Energy efficiency  
Renewables energies  
Sustainable urban planning

BlueSolutions is producing and developing energy storage solutions to meet the challenges of energy transition and energy access for all.

These solutions are based on our Lithium Metal Polymer (LMP®) battery technology that stands out by their safety in use and performance whatever the ambient heat, no need of cooling systems.

BlueSolutions develops energy storage solutions from 250 kWh to several MWh, which integrate LMP® batteries, manufactured in the factories in France and Canada.

Due to control of the entire value chain such as integration of energy production sources and their conversion, the Energy Management System (EMS) and the remote supervision of the installation, Bluesolutions supports its customers by offering them modular and "Turnkey" solutions, totally suitable for their own needs, relying on the Bolloré Group throughout the world.

[www.blue-storage.com](http://www.blue-storage.com)  
[www.blue-solutions.com](http://www.blue-solutions.com)



## References

### IN FRANCE

#### Electromobility:

- Car-sharing services: Blueuly - Lyon (305 electric vehicles), Bluecub - Bordeaux (201 electric vehicles) Autolib' - Paris between 2011 and 2018 (4 000 electric vehicles),
- Public transportation: more than 200 electric buses currently operating in France and abroad

#### Stationary:

- Odet (2 MWh - Service System) / Vauresson (400 kWh - Load Shifting) / Tulle (200 kWh -Renewable integration) / Le Puy-en-Velay (90kWh - E.V charge station)

### INTERNATIONAL

#### Electromobility:

- Car-sharing services: BlueIndy - Indianapolis (282 electric vehicles), Bluetorino - Turin (95 electric vehicles), BlueLA- Los Angeles (60 electric vehicles), BlueSG - Singapour (500 electric vehicles), BlueCity - Londres (100 electric vehicles)

#### Stationary:

- More than 30 off-grid installations in operation in West Africa:
- Bluezone : 11 off-grid production units, each powered by 140 kWp of PV coupled with 360 kWh of storage
- Canal Olympia : 20 off-grid production units, built in partnership with Vivendi Group. Note that this partnership aims to develop 50 units in total.

## Certifications, labels or prizes

- Certification ISO 9001 / ISO 14001

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Staff:  
450 persons

International turnover: 10 076 M€ Groupe Bolloré





Energy efficiency  
Renewables energies  
Waste management  
Water infrastructure

## Activities

In France, C5P ([www.c5p.eu](http://www.c5p.eu)) is one of the leaders in Project Finance (infrastructures, real estate, energy, utilities). Due to a double knowledge (corporate and public finance), we know perfectly how to decode the main financial issues and struggling public bodies positions. Our scope of projects is large, between 10 million euros and 500 million euros (excl. tax.).

Since 2007, C5P has achieved a thorough knowledge in Project Finance. C5P Team have supported public bodies in big scale projects. We have closed around 800 million Euros over the last few years.

## References

C5P has been ranked three years in row (2015, 2016 and 2017) by « Revue les DECIDEURS (Stratégies/Finances/Droit) » in the category « Conseil Financiers et Modélisation Personnes Publiques » (Financial Advises and Modelling PPP & Concessions).

## Certifications, labels or prizes

In term of efficiency, we have contributed to obtain commitments already achieved:

- 17% energy efficiency for the Cité Internationale Universitaire de Paris
- Drop by 35% primary energy consumption for Région Alsace due to Energy Performance Contract
- 3000 t of CO2 non rejected and 51% energy efficiency due to a PPP contract in Public Lighting

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Staff:  
**5 persons**  
Turnover: **400 000€**  
International turnover: --

# CAP ÉNERGIE

Component manufacturers - Manufacturer



Energy efficiency  
Environmental development  
Renewables energies

## Activities

Capenergie solutions provider for energy independence since 2007 offers professional solutions for energy independence. With a carefully selected range of equipment, from production to storage, through the conversion of energy, Capenergie responds efficiently to a variety of applications. Within these applications, back up (security) network, public and industrial buildings, air and sea beaconing, advertising totems, off-grid solutions, mini-grids, charging stations for electric vehicles, etc...

Capenergie also provides specific training and assistance for the installation of the full range of photovoltaic products, Wind turbine, thermal, solar air, generator and full technical documentation on various products. Involved in various projects for the development of photovoltaic and wind turbine, Capenergie directly involved itself in the project Cémater with the aim to contribute to economic development of business in a sustainable and ethical dimension.



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Staff:  
**10 persons**  
Turnover: **3 M€**  
International turnover: **1,5 M€**

# CARBONEX

Component manufacturers - Manufacturer

CARBONEX



Energy efficiency  
Environmental development  
Renewables energies

## Activities

Wood and biomass Bio-Refineries implantation and exploitation. Products/Services:

- Carbon (Biochar, wood charcoal, bic reductor, activated carbon)
- Wood gazes
- Electricity (between 0.5 and 10 MWe)
- Heat
- Drying

Our innovative process allows to produce eco-friendly wood charcoal, renewable electricity and heat, while staying highly competitive on the market.

Our solutions offer ways to contribute to reforestation, fight against global warming, wood residue treatment and contain rural depopulation all while producing renewable energy (electricity, wood charcoal, heat, cold).

Our internal R&D team has conceived our technology with a high adaptability to local conditions around the globe. This technology is protected by patents and is a blend of cutting-edge technology, resistance, and efficiency.

We are favoring local productions for local markets with a strong sense of territorial anchoring and circular economy.

We have an international culture among our teams and we speak several languages; English, Spanish, Portuguese, German and Danish.

## Certifications, labels or prizes

- PEFC 10-31-2592
- BOIS FRANÇAIS BF0004
- ORIGINE FRANCE GARANTIE FCBA1703100
- TFT member- The Forest Trust validation of our supply chain.
- Award winner of Prix National Stars et Métiers 2013 in the Global Innovation Strategy category.
- Award winner Grand Prix des Entreprises de Croissance 2015 of the best growing company in the GREENTECH & ENERGIES sector.



© CARBONEX

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Staff:  
**49 persons**  
Turnover: **12 M€**

# CDI TECHNOLOGIES

Service Company



Energy efficiency  
Environmental development  
Sustainable urban planning  
Water infrastructure

## Activities

CDI Technologies is a design software publisher for a sustainable city. Our main business is based on the development and marketing of four software packages:

**DK.mètre and KeaPolaris:** Two design softwares of infrastructure projects, the first one requires a CAD soft : Microstation or Powerdraft (Bentley), the other is standalone ( with its own CAD). They allow from a topographic survey or a digitized plan to reconstitute a Digital Terrain Model to design VRD projects through several modules: topography, earthworks, linear projects and dry and wet networks (integrating the dimensioning of alternative techniques to sewerage networks for rainwater management).

**Hyetos:** a collaborative design platform for sizing, optimizing and visualizing integrated stormwater management

- The stakes of Hyetos are many:
- Use of 3D for the sizing of alternative techniques;
  - 3D animation and simulation of the operation of single or interconnected structures;
  - Reduction of flood risks, evaluation of the vulnerability of sites and estimation of overflows and visualization of their paths;
  - Estimation of pollution load and deposits in structures;
  - Cost reduction by optimizing the dimensioning of structures;
  - Communication tool between the different actors in planning and promoting participatory democracy around the project;
  - Reintroduction of water and plants in the city

**SaneCity:** a collaborative design platform for energy optimization of urban projects since the mass plan.

SaneCity creates on the basis of a limited number of parameters digital models containing the information necessary to the achievement of Thermal Dynamics Simulations. He is able to

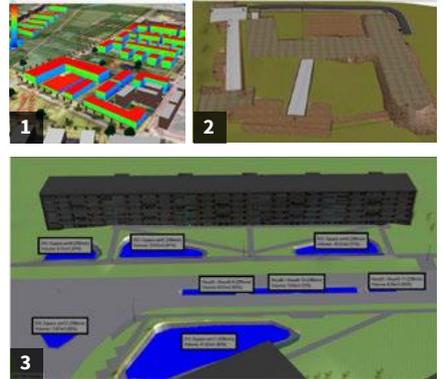
estimate from the early stages of a project

- Its carbon footprint and its gray energy ;
- The solar gains and autonomy daylighting ;
- Energy consumption and bioclimatic needs ;

In addition to these results, SaneCity provides outgoing calls for power from the various project buildings and thus enables the monotonies of hot and cold power to be determined for the design of a possible heat network.

## References

- (1) Solar intakes, EchoDistrict Bretigny sur Orge
- (2) Earthworks project, fusion of platforms
- (3) Disconnection of rainwater from Avenue Charles de Gaulle to Saint Saulve (59)



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Staff:  
7 persons





Environmental development  
Sustainable urban planning

## Activities

### Cerway and HQE™ certification

**Cerway is the international operator for HQE™ global offer outside of France.** It is a subsidiary of Certivéa and Cerqual, who respectively belongs to CSTB (Centre Scientifique et Technique du Bâtiment) and Association Qualitel.

HQE certification is intended for residential, commercial, administrative or service buildings, in all sectors of activity, whether they are under **construction, renovation** or already **in operation**, as well as urban planning operations (neighborhood, cluster, campus). The performance of a building is attested on 4 themes: **energy, environment, health, comfort.**

Cerway provides trainings and recognition for professionals (buildings and urban planning sector).

### Adaptability to each country's local conditions

Cerway designed generic Certification Schemes, which are adaptable to each country's specificities: climate, regulation, construction habits, and organisation systems. The project team sets its own objectives within the specific framework of the project and remains free to choose its **architectural and technical solutions**. Objectives are then assessed according to the Certification Scheme requirements or, if need be, by principles of equivalence.



Quarazate Noor Solar Complex certified HQE Construction level Exceptional – Awarded for HQE™ Sustainable Building – Best global performances certified – International 2018

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Staff:  
5 persons

# CFG SERVICES

Design Office - Engineering



Renewables energies

## Activities

- Geoscientific surveys;
- Drilling supervision;
- Well logging, well testing, reservoir modeling;
- Prefeasibility and feasibility studies;
- Environmental studies;
- Maintenance and operation of geothermal plant;
- Hydrochemical studies on corrosion and incrustation damages;
- Leak detection on underground pipe by helium tracing.

## References

### IN FRANCE

Studies, projects and/or maintenance contracts of twenty geothermal systems for district heating in the Paris Basin and Aquitaine. Construction and operation of two geothermal power plant units in Guadeloupe until 2012 and monitoring of the Bouillante geothermal reservoir since 2012. Project management for the preparation of the exploration program on the Reunion island. Engineering and consulting of the first geothermal triplet constructed in France (Sucy-en-Brie) and 23 new geothermal wells in the Paris region since 2008. Project management and drilling supervision of a geothermal well in Rittershoffen (Alsace). Multiyear contract for microbiology and corrosion studies for nuclear waste storage. Labège© kits sales for the prevention of biocorrosion.

### INTERNATIONAL

Maintenance of geothermal wells in Riehen (Switzerland). Engineering and construction supervision of a 20 MW geothermal power plant in Lahandong (Indonesia). Leak detection by helium tracing on the water pipe system of Amman (Jordan). Feasibility study for district heating by geothermal energy in Yanqing city (Beijing, China). Feasibility study of the 100 MW geothermal project of the Roseau Valley (Dominica, WI). Feasibility study of the 20 MW geothermal project of Masigit (West Java, Indonesia). Sales of Labège© kits for the prevention of biocorrosion (TOTAL Affiliates, Africa). Work audits for several projects in the USA (1) and Indonesia (4).

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Staff:  
30 personnes

Turnover: 5 M€  
International turnover: 200 000 €



# CHROMATOTEC GROUP

Component manufacturers - Manufacturer



Water infrastructure  
Air quality and odor control  
Risks

## Activities

For 40 years, Chromatotec®, alliance of the expertise of three companies, Chromato-Sud, airmotec, MEDOR, has been specialized in the development, manufacturing and sales of online gas analyzers by chromatography, exclusively made in France.

With Office in China and USA, the group is worldwide known for its leading-edge technology. Based on gas chromatograph principle, our analyzers are focused on VOCs / Sulfur compounds / Odor monitoring. These technologies allow continuous measurement of individual compounds at ppt/ppb/ppm concentration levels.

## References

Chromatotec has among its customers :

- Governmental agencies around the world in the field of air quality
- Air Quality networks in :
  - France and Europe (Italy)
  - USA (US EPA sites)
  - China (more than 250 analyzers installed in E.P.B.)
- Companies specialized in the fields of semiconductors (clean air rooms)
- Special Gas or Pure Gas Manufacturers
- Manufacturers and Distributors of Natural Gas (Natural Gas, LNG, LPG)

## Certifications, labels or prizes

- ISO 9001 certified company
- Certifications : mCERTS, US EPA, TÜV, GOST, chinese certifications
- Certifications : ATEX, CSA, CSA International, IECEx...



© Chromatotec Group

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Staff:  
52 persons



Energy efficiency  
Environmental development  
Risk

## Activities

### DESIGNER and SUPPLIER

Multifluid turnkey solution for a territory with modular and positive energy.

### SMARTGRID

Multi Fluids Global Offer GO-IDems® (turnkey solution) for Energy:

- Control
- Management,
- Efficiency.

### MICROGRID

Worldwide expertise of co, tri and quad generation power plants based on aero derivative turbines.

© CIAC INTERNATIONAL TECHNOLOGIES



EUROPEAN INNOVATION PARTNERSHIP

## References

### IN FRANCE

CIAC-IT is **VERTPOM**® leader of a consortium gathering:

- GAZELEC DE PÉRONNE multi-fluid distribution system operator (water, gas, heat, etc.)
- L'UNIVERSITÉ DE PICARDIE JULES VERNE
- PERONNE and SAINT QUENTIN cities in Haut de France region

### INTERNATIONAL

#### TUNISIA

Technical and economic feasibility studies for STEG (Tunisian National Electricity and Gas operator)

- 3 500 000 multi-fluid smart meters
- Overall concept Microgrid / Trigereneration for a new city

#### KINGDOM OF SAUDI ARABIA (KSA)

- **Pepsi-Cola Group (SIBCO / SIPCO)**: Studie and design of a quad - generation power station including multifluid smart metering of the global plant.

- **KAEC (King Abdullah Economic City)**: Design and technical-economic study of a global Microgrid solution including Smart Metering

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Mme Laëtitia KERGOZOU  
de la BOËSSIÈRE  
Smart grid manager  
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Staff:  
**16 persons**  
including 10 employees

SAS au capital de 3.040.503,00 €  
RCS 517 478 103 00032  
APE 7112B

©BOPI France





Environmental development

## Activities

The Interprofessional Technical Centre for Studies on Air Pollution (CITEPA) is a not-for-profit organisation (1901 French Charities Act). It identifies, analyses and distributes data and methods on atmospheric pollution – especially air emissions – and climate change. To carry out its mission for the French Environment Ministry, CITEPA produces national inventories of atmospheric pollutant and greenhouse gas emissions to meet France’s international commitments, in particular to the EU and the United Nations (UNECE). It also conducts techno-economic and forward studies and offers training courses, expert and advisory services and conducts GHG and other audits for businesses and local government authorities.

CITEPA also acts in an expert capacity for the EU and other international institutions, particularly the United Nations (UN). CITEPA has about 90 members (Research centers, industry, professional federations and unions, energy utilities, automobile manufacturers, eco-industries, consultancies and measuring laboratories). CITEPA has received ISO 9001 certification for its inventories and studies.

## References

### IN FRANCE

The French National Air Emissions Inventories and the National Air Pollutant Mitigation Program PREPA on behalf of the Environment Ministry; SECA NECA MED study together with INERIS the impact of speed on car emissions in France, for the French Agency for Environment and Energy Management (ADEME).

### INTERNATIONAL

New Caledonia’s Directorate for Industry, Mining and Energy (DIMENC); the local delegation of the French Agency for Environment and Energy Management (ADEME); to set up a geographical inventory in the Republic of Mexico ; To build the capacity of the Moroccan, Tunisian, Serbian, Croatian environment Ministries to set up a national system of GHG and air pollutant inventories ; reviewing the GHG and black carbon Colombian inventory ; to contribute to integrate air-climate and energy in China together with CRAES.

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CITEPA  
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Staff:  
30 persons

# COHIN ENVIRONNEMENT

Engineering office - Engineering



## Activities



As a designer and manufacturer of waste water treatment plant for urban and industrial sectors. COHIN ENVIRONNEMENT carries out turnkey projects

By capitalizing on a 20-year know-how, Cohin Environnement's engineers are experts in the SBR (Sequencing Batch Reactor) process. COHIN ENVIRONNEMENT, known as a leading innovative Company, has developed a fully biological treatment plant. Always in search of optimization, two patented improvements have been made to the SBR process, thus making it possible to treat wastewater in one and the same basin: UNIBIOCELL.

The development of a wide range of the WASTE WATER BOX, from the 20 'or 40' maritime container, to wood or composite materials solution, allows us to provide modular and expendable disposal to bring solutions to variations of effluents flow to treat.

COHIN ENVIRONNEMENT propose solutions integrating circular environmental technology to recovery solid and liquid waste, sludge and the reuse of treated water.

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

## Certifications, labels or prices

- Patented UNIBIOCELL purifying process
- COHIN ENVIRONNEMENT, is a member of SYNTEAU (National Union of Water Treatment Companies)
- COHIN ENVIRONNEMENT is a member of Bretagne Eco Entreprise and Aqua Valley Clusters

Environmental development  
Water infrastructure



© COHIN ENVIRONNEMENT

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### Morocco Office

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M. Sébastien COHIN  
CEO  
s.cohin@cohin-environnement.com

Staff:  
6 persons





Waste  
Environmental development

## Activities

COMERSO's activity is focused on the general waste issue.

Comerso offers digital & logistic Zero Waste solutions for companies & charities.

Comerso has a triple mission :

- turn businesses into «Zero Waste Companies» for positive financial & CSR impacts by adding value to their unsold products
- help charities into their supply & digital challenges
- evaluate social & environmental local impacts and contribute to create « Zero-Waste regions & cities »

Comerso adds value to any kind of unsold products & over-stocks (fresh or chilled food, non food products like textile, shoes ... ) and works with all kind of businesses (Retailers, Industrials, Logistic hubs etc...)

Comerso's main activities :

- promotion of unsold products (Retail : short-life unsold products promotions | Industrials : destock),
- 100% secure and turnkey charities donations (company's core-business)
- Waste recovery
- Consulting, teams & statistics management

### Comerso's positive impacts : FINANCIAL, SOCIAL, SOLIDARITY & ENVIRONMENTAL

Actually, Comerso works with more than 350 companies in France, and more than 400 certified charities, thus guaranteeing full compliance with current legislation.

## References

### IN FRANCE

- Retailers : E.Leclerc, Système U, Intermarché, Carrefour, Leader Price
- Industrials : Danone, Blédina
- Charities : Banques Alimentaires, Secours Populaire Français, Restaurants du Cœur, Epicerie Sociales et Solidaires Andes, Croix Rouge...

### Certifications, labels or prizes

- 2018 Pass French Tech Winner
- 2018 CSR SIRIUS (Institut du Commerce) award winner
- 2018 LSA Magazine CSR award winner
- 2018 LSA Magazine Supply Chain award winner
- BPI France excellence team network member
- 2017 EY Entrepreneur of the year award winner

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Managing Director & co-founder  
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Staff:  
107 people (35 employees  
+ 72 social drivers)

# DATALINK INSTRUMENTS DTLI

Component manufacturers - Manufacturer



## Activities

**DATALINK INSTRUMENTS DTLI** designs and manufactures high reliability, low maintenance and low operation cost ON-LINE WATER ANALYSIS SOLUTIONS which require no previous filtration.

We provide on-line analysers and in-situ probes which use UV-VIS and IR spectroscopy or colorimetry, dedicated to the monitoring of :

**Measured parameters:** TOC\*, COD\*, BOD\*, Nitrate, Nitrite, Ammonium ions, Hydrocarbons (PAH), Sulphide, Phosphate, Chlorophyll A, Fluorescent tracers, Chromium VI, Fomaldehyde, Heavy metals (Nickel, Zinc, Manganese, Aluminium...), Parameters of industrial process, pH, ORP, Conductivity, Temperature, Dissolved oxygen, Turbidity, TSS, Volour... etc.

\* Using SAC254 correlation

**Applications:** Drinking water, Waste water and ground water monitoring (treatment plants, alert satations), Environmental monitoring, Industrial effluents and process monitoring.

## References

### IN FRANCE

VEOLIA EAU, OTV, SAUR, LYONNAISE DES EAUX, DEGREMONT, PSA PEUGEOT CITROËN, TOTAL, COLLECTIVITES LOCALES ET MAIRIES, SYNDICATS D'EAU, SOLVAY, SYRAL, PAPETERIES DE GASCOGNE, AÉROPORT SAINT EXUPERY DE LYON- AJINOMOTO – FAPAGAU – l'Oréal Group.

### INTERNATIONAL

BASF (Germany) - Degremont (Italy) - DoNRE Can Tho (Vietnam) - Dong Bac Coal Corporation (Vietnam) - DUKAT Inc (Croatia) - GASCO Habshan (Abu Dhabi) - Hong Leong Yamaha Motor (Malaysia) - HYDRO-AGRI – NUTRITE (Canada) - INDAVER Anvers (Belgium) - INMER d.o.o. (Bosnia Herzegovina) - LEE & MAN PAPER (Vietnam) - Oman Oil Industry Supplies & Services Co. LLC (Sultanate of Oman) - PCK Refinery AG (Germany) - Qatar Fertiliser Company (Qatar) - Qatar Petroleum (Qatar) - Refinery of Gela (Italy) - Statoil Norway (Norway) - TAKREER (ABU DHABI - UAE) - TELEDANMARK Aalborg (Denmark) - XIAMEN WWTP (China).

Water infrastructure

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Staff:  
5 persons  
Turnover: 800 000 €



# ECO-TECH CERAM

Design Office - Engineering - Service Company



Energy efficiency  
Environmental development  
Renewables energies  
Waste management

## Activities

Eco-Tech Ceram (ETC.) proposes eco-efficient solutions for high-temperature (200 to 1000°C) thermal energy storage applications (waste heat recovery, concentrated solar energy, etc ).

ETC also proposes an independant service to develop new materials from industrial inorganic wastes.

ETC realize characterizations for every type of inorganic materials.

## References

### IN FRANCE

- Recycling coal fly ashes
- Recycling MIOM
- Recycling Asbestos containing wastes

## Certifications, labels or prizes

- Prize-winner of the World Innovation contest 2014
- Prize-winner of CREACC contest 2014
- Prize-winner of tremplin INNOV ECO contest 2015
- Prize-winner of the World Innovation contest 2015

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CEO  
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Staff:  
**8 persons**  
Turnover: **50 000 M€**

# ECOCINETIC EDIE

Design Office - Engineering



## Activities

**EcoCinetic develops, markets and installs small hydrokinetic turbines for rivers and estuaries off grid.**

This innovative technology allows a production of renewable electricity thanks to current energy.

The mission of the company is to contribute to sustainable development of territories while providing a cost effective and environmentally friendly energy solution.

Thanks to their small size and their modular design, pico-turbines adapt to most rivers. Installation is simple and requires no engineering. They comply with environmental regulations.

The company offers single turbine and multi-turbine modules with a power ranging from 100 W to 24 kW, according to their size and current velocity. The modules can be grouped to form large power installations.

## References

### IN FRANCE

Région Poitou Charente, Ville de Bordeaux, Communauté de Communes Souillac Rocamadour, Communauté de Communes du Pays Châtelleraudais, Compagnie d'Aménagement des Coteaux de Gascogne (CACG), Fédération des Moulins de France (FDMF), Fédération Nationale Professionnelle des Loueurs de Canoës Kayaks (FNPLCK)

### INTERNATIONAL

FASEP Congo-Brazzaville

Renewables energies

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Staff:  
**6 persons**  
 Turnover: **158 000 €**



# ECODAS

Component manufacturers - Manufacturer



Waste management

## Activities

**ECODAS** designs, manufactures and commercializes infectious medical waste treatment machines. The **ECODAS** process combines shredding and water steam sterilization in a closed and compacted system.

The final result is volume reduce by up to 80 %, un reusable and safe to be dispose of as ordinary municipal waste. Our equipment can be installed directly in hospital or in a service provider site. Having aquired international recognition in this field, **ECODAS** now diversifies its application to animal meat and food processing operations, slaughterhouses, airport airlines, seaports, and ships as well as the destruction of confidential documents. Nowadays, with 450 machines installed in more than 80 countries, **ECODAS** is the worldwide leader of infectious waste treatment. **ECODAS** range has got 6 models: T100, T150, T300, T700, T1000 and T2000.

## References

Albania, Algeria, Angola, Argentina, Azerbaijan, Bahrain, Bangladesh, Bosnia, Brazil, Bulgaria, Cameroon, Canada, China, Cyprus, Denmark, Ecuador, Egypt, Estonia, France, French Guyana, French Polynesia, Gabon, Ghana, Greece, Guadeloupe, Guinea-konakry, Honduras, Hungary, India, Indonesia, Iran, Iraq, Italy, Jamaica, Japan, Jordan, Kosovo, Kurdistan, Kuwait, Latvia, Lebanon, Libya, Lithuania, Maldives, Martinique, Mauritania, Mayotte, Mexico, Morocco, Nepal, New Caledonia, Nigeria, Palestine, Panama, Paraguay, Peru, Philippines, Poland, Rep. Tcheck, Reunion Island, Romania, Russia, Saint-Lucia, Saint-Pierre et Miquelon, Senegal, Slovakia, Spain, Sudan, Sultanate of Oman, Syria, Thailand, Tunisia, Turkey, Turkmenistan, Ukraine, UAE, United Kingdom, USA, Uruguay, Venezuela, Vietnam, Zanzibar...

## Certifications, labels or prizes

- CE
- ASME
- ISO 9001
- ISO 14001

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Staff:  
**20 persons**  
International turnover: **80 %**



Waste management

## Activities

ECOSLOPS is the cleantech that brings oil into circular economy, and the sole company proposing a sustainable solution for the treatment and valorisation of oily residues: the P2R process (Petroleum Residues Recycling). This process enables hydrocarbon residues regeneration into new fuels and light bitumen. This innovation is a world premiere designed through 5 years of R&D.

Innovation being the fuel of Ecoslops' development, our engineers are continuously working on the improvement of the process and on the design of new innovations. Ecoslops is currently developing a new solution based on the P2R process: the Mini-P2R, a mobile and containerized oil residues valorisation unit.



## References

We develop facilities in France and abroad with a project portfolio covering 5 continents.

Our first industrial unit started its operation in June 2015 in Sines (Portugal). A second unit is currently being built in Marseille (France) and the installation of a third one is planned in Antwerp (Belgium).

## Certifications, labels or prizes

- Ecoslops:
  - Award Winner of the Forbes Futur40 Prize 2018
  - Label BPI Entreprise Innovante
  - Green Award Program
- P2R:
  - Concours Mondial de l'Innovation (CMI) 2016
  - Programme Investissement d'Avenir (PIA)
  - Initiative PME 2016 – category « waste recycling and valorisation »
- Mini-P2R:
  - Award Winner of the Trophées de l'Innovation Océan 2018 – category « reducing the use of fossil fuels »
  - Award Winner of the Evolen Innovation Prize 2018

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Staff:  
50 persons  
Turnover: 6,1 M€

# ECOSUN INNOVATIONS

Engineering, construction and sales



Renewables energies

## Activities

Mobil-Watt® : the first mobile solar generator, with high capacity, fully pre-mounted and pre-cabled, coming as an equipped 20 feet container, and deployable in less than 2 hours. This innovative and patented system is one leading product within a full range of innovative solar systems, visible under : [www.ecosuninnovations.com](http://www.ecosuninnovations.com)

The continuous development of advanced and innovative solar solutions is a key factor for ECOSUN INNOVATIONS.

## References

The first references are installed and operational in Africa and Latin America.

The development in the Middle-East in ongoing.

The long term vision of ECOSUN INNOVATIONS is to be a leading worldwide player in advanced On-grid and Off-grid projects.

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**Staff:**  
**4 persons**

# EEL ENERGY

Component manufacturers - Manufacturer



Renewables energies

## Activities

Design of a tidal turbine providing energy without CO2 emission, renewable and predictable. It is a model of wind turbine with organic undulating membrane inspired by the difference of the state of the art mainly based on concepts of turbines.

## References

Our products are still in the state of technical development.

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

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Staff:  
**8 persons**



# ELUM ENERGY

Service Company



Energy efficiency  
Renewables energies

## Activities

Elum Energy is an energy & automation company providing ePowerControl technology : an Energy Management Systems (EMS) for renewable energy, storage, generators and other distributed resources. The controller is turn-key, simple to commission, compatible with major equipment brands on the market and made for complex electrical systems.

A wide variety of sites from 10KW to 10MW ranging from factories, industrial & commercial buildings, power plants or telecommunications towers can benefit from our technology : ePowerControl embedded forecasts and optimization algorithms allow better energy management to reduce site energy costs by up to 15%.

ePowerControl integrates a local & remote SCADA system allowing for site equipments secure monitoring and control to get insight anywhere on portfolio status and KPIs.

We have projects in more than 10 countries through our customers, project developers, energy companies and EPCs.

## References

Some example of reference projects:

- Factory, Tangier, Morocco (500 kW)
- Commercial building, Abidjan, Ivory Coast (200 kW)
- Mall, Abidjan, Ivory Coast (150 kW)
- Factory, Tangier, Morocco (200kW)
- Commercial building, Ouagadougou, Burkina Faso (150 kW)
- Ecole Polytechnique, Palaiseau, France (100 kW)
- University, Woldia, Ethiopia (200 kW)
- Factory Madagascar (700KW)



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Staff:  
20 people  
Intenrational turnover: 80%



Energy efficiency

## Activities

Created in 2011 in the Business Innovation Center of Montpellier Agglomeration, EnekiO designs, develops and deploys complete innovative solutions to process, to inform and remotely manage environmental energy problematic of existing industrial infrastructure and communities, this in an international strategic context.

Positioned in the energy efficiency field, EnekiO reduces energy requirements and associated pollution. Reducing public lighting consumption of 75%, pollution induced by the production of energy for operation equipment is reduced. This logic is applicable to the different proposed solutions.

## References

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

EnekiO sees itself as international company. After 7 years of existence, we have already created two subsidiaries associated with local projects in the United Arab Emirates and Senegal.

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Staff:  
**15 persons**  
Turnover: **4,2 M€ dont 2,9 M€ for export**





Energy efficiency  
Renewables energies

## Activities

ENERCOOP is the only French supplier of 100% renewable and cooperative electricity in direct contract with local producers. ENERCOOP buys renewable energy directly to its producers.

ENERCOOP's activity is focused on supplying electricity to individual customers and businesses and providing energy saving services.

ENERCOOP has close links with its European partners, in particular through the European Federation of cooperatives and citizen groups for renewable energy and energy savings (REScoop.eu). ENERCOOP is a founding member and member of the Board of REScoop.eu.

## References

- Enterprise and Environment Award of the Ministry for the Ecological and Inclusive Transition and ADEME
- Winner of the Call for French Impact projects by the Ministry for the Ecological and Inclusive Transition and the Office of the High Commissioner for Social Economy and Solidarity (ESS) and Social Innovation
- Recipient of the ESUS Label (for Solidarity Companies recognized of Social Utility)

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Mme MAELLE GUILLOU  
European & International  
Cooperation

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Staff:  
104 persons

Turnover: 37 M€



## Activities

Nous sommes une société de service en efficacité énergétique et environnemental. Nous intégrons et coordonnons l'ensemble des expertises de l'énergie pour faire diminuer la facture énergétique de nos clients ; isolation de réseaux, équilibrage de réseaux, relamping mais aussi solution photovoltaïques et valorisation énergétique des eaux usées.

Nous proposons à nos clients les technologies les plus innovantes, en signant des partenariats avec des acteurs de renommée internationale détenteur de brevets innovants.

Notre équipe à l'international aujourd'hui se limite à des travaux de représentation et de la veille technologique à Bruxelles aux Etats Unis par exemple. En nous appuyant sur nos partenaires nous envisageons de nous développer dans plusieurs pays d'Europe et aux USA.

Energy efficiency

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Chef de Projet  
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Staff:  
15 persons





Waste management  
Energy efficiency  
Renewables energies

## Activities

ENERTIME is a French cleantech company created in 2008 and located near Paris La Défense CBD and operating in the field of turbomachinery design and construction together with its applications in mini thermal powerplants such as Organic Rankine Cycles (ORCs) and Heat Pumps.

ENERTIME designs, engineers, manufactures and implements on a turnkey basis, or via the supply of key technology components, Organic Rankine Cycles (ORC) modules for distributed renewable energy production and energy efficiency applications.

ORCs work with the same thermodynamic principles/cycles used by steam power plants, but use an organic fluid instead of water to generate electricity from a heat source. ORC is a valuable alternative to steam where heat temperatures are below 300°C (572°F) for outputs up to 10MWe or more or for MWe size energy production for all temperature levels.

ORC have competitive applications in waste heat recovery, geothermal energy and for distributed biomass and solar CSP energy production. In waste heat recovery applications, ORC is the most competitive solution for emission-free electricity production even compared to nuclear energy.

ENERTIME also develops and manufactures specialized turbomachines (turbines, compressors...) for its own power systems (ORCs and Heat Pumps) or on request for system integrators.

ENERTIME develops and manufactures innovative high output high temperature heat pumps of multi MWth scale for geothermal heating applications or other heating systems optimization (agro-food industry, district heating) as well as tailo-made turbomachinery for gas expansion or compression.

Enertime is active internationally with industrial partners/agents in China, Ukraine, New Caledonia, Thailand, Indonesia and other countries in Asia or the middle East or Europe.

## References

### IN FRANCE

- City of Montpellier Utility: SERM - Biomass based CHP ORC module - 600kWe / 4,8 MW thermal 60-90°C
- SUEZ 2MWe unit operating from seasonal heat surplus from an municipal waste incineration plant.
- Sludge Incineration WHR for Lyon metropolis, for AIT-STEIN and SAUR

### INTERNATIONAL

- Baosteel Energy Shanghai, 3,2MWe module for WHR in steel plant.
- Kamyanskyi District heating Ukraine.1,6MWe 10MWthermal
- Baotou Steel China, WHR 1MWe.

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M. Gilles DAVID

PDG

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Staff:

30 persons

Turnover: 2 M€



Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

Design, manufacture and supply of continuous monitors, samplers and measuring systems for industries and the environment since 1978:

- Indoor and outdoor gas and particulate pollution monitors. Air quality surveillance networks (mobile and fixed laboratories) including DAHS and software for data analysis, broadcasting and regulatory reporting
- Solutions for industries: process optimization and continuous emission monitoring systems CEMS. Dust and Gas monitors (HCl, NH3, HF, H2S, SO2, NO, NO2, NOx, N2O, CO, CO2, CH4, THC, VOC, TRS, O2) Mercury CEMS, Dioxins, Furans & CO2 biogenic samplers, Solids and flue gas flow meters, Level control sensors, Moisture monitors, Data acquisition systems, Processing and reporting software...
- Cairpol miniature sensors for fugitive emission detection and odor measurement on industrial sites
- Engine exhaust gas monitoring systems
- Radionuclide monitoring

## References

### IN FRANCE

- Main supplier of AASQA, the national air quality monitoring network (Airparif, ATMO Sud, Madinair...)
- More than 1000 emission monitoring systems for waste to energy, cement, power generation, chemical, metal industry (Veolia, LAB, Novergie, CNIM, Total, Lafarge, Inova, EDF...)

### INTERNATIONAL

- Over 35,000 ENVEA's air quality monitors are measuring daily the pollution of major cities of the world: Mexico City, Sao Paulo, Istanbul, Lisbon, Barcelona, Seoul, Mecca, Delhi, Moscow, Paris, Budapest, Mombay, Tunis,

Dubai, Bangkok, Saint Petersburg, Bamako, Beijing, Chongqing...

- Over 25,000 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 plants...
- Engine exhaust gas monitoring systems used in test cells worldwide by manufacturers, test laboratories, research institutions, fuel producers, regulatory agencies (Pratt & Whitney, Weichai Power CO. Ltd, Deutz Engine CO Ltd, U.S. Army & NASA, Mahle Powertrain, Artic Cat, Caterpillar, Renault, SNECMA...)

## Certifications, labels or prizes

Certified “**OSEO Excellence**”, ENVEA has been awarded for export development on several occasions: Euro SME prize (Crédit Lyonnais Bank), National Oscar of Export, Gold Mercury of Export (Chamber of Commerce of Val d’Oise Yvelines), the Sustainable Development Award (MOCI, The International Trade Magazine), Best export performance of the French eco-business, Oxygen Trophee... Its development is also based on solid partnerships with Government ministries, the French Environment and Energy Management Agency (ADEME), public laboratories and research universities, regular users and customers such as national and International Air Quality Monitoring Networks, National Laboratories for Certification, Advanced Research Engine Gas Centers, Veolia, Alstom, MHI, CETREL, E.ON, Bechtel, Technip...

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www.envea.global

Mrs Pompilia SOPCO  
Group Marketing &  
Communication Manager  
info@envea.global

Staff:  
> 500 persons  
Turnover : 80.4 M€  
International turnover : 76%

# ENVIROEARTH

Design Office - Engineering



Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

### ENVIROEARTH / ENGINEERING

Support of scientific institutes, rural communities, industries & mines ... from the design to the implementation of environmental monitoring systems and in the deployment of renewable energies, especially in isolated sites.

From design to implementation, we identify technologies and equipment adapted to each application, and manage the civil works & installation on site, thus offering a global and turnkey management of the project for our clients: Organizations United Nations, NGOs, refugee camps, military camps, disaster management units, scientific institutes, rural communities, industries, hotel resorts, ...

Exemplary projects:

- Design, supply and installation of a 90kWp (offgrid) hybrid PV solar system with 912Kwh of Battery, connected to a diesel generator for the complete electrical autonomy of the UNFPA headquarters in Freetown;

- Project management of installation of an infrasound measurement station and supply and commissioning of the core of the measurement system, in the Santa Cruz Island Natural Park in Galapagos (2M € project on behalf of UN)

### LOW CARBON ENGINEERING PROJECTS

Integrated solution for the sustainable cities and responsible companies, to considerably reduce the carbon impact of development and urban projects.

- Tailored advice,
- Identification of low-carbon technologies best suited for the utilities - water, energy and environment.
- overall project management (Waste water treatment with bamboo, Solar powered intelligent waste collector, Composting unit, Battery and Electronic waste recycling).

## References

### IN FRANCE

#### - Companies:

CEA, LSCE, Paris Observatory

### INTERNATIONAL

• HARRIS Corp, TOPCON, DANISH SPACE, USGS...

Referenced with AFD, ADEME, UNESCO, UNDP, UNFPA, FAO, WB,

15 years of experience in the conduction of complex projects in the most remote corners of the planet: in Tristan Da Cunha, Cape Verde, St Helena, Madagascar, Kenya, Nigeria, Sierra Leone, Tanzania, Kerguelen Island, Greenland, Papua New Guinea, Easter Island, Kiribati ...

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M. Olivier DECHERF  
Chief Executive Officer

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Staff:  
12 persons

Turnover: 4 M€  
International turnover : 3,5 M€



Waste  
Energy efficiency  
Renewable energies

## Activities

Created in 1991 (under CSD Azur name, then CSD Ingénieurs and EODD since 2013), EODD INGENIEURS CONSEILS is a consulting and engineering company based in France and working in the fields of sustainable sites & construction, industry, waste collect & treatment and contaminated land management.

As a French leader in the storage and energy recovery from waste, EODD INGENIEURS CONSEILS supports its customers throughout the entire processes of operating industrial sites, including site research, feasibility studies, regulatory files, project management assistance, project management work, third-part consultancy, contributions to national best-practice guides, advice on operation and energy optimization, economic and fiscal, monitoring, post-exploitation monitoring, destocking, conversion of sites, research and development, conferences and publications.

## References

The company currently operates over the entire national territory (France & its overseas territories) and targets for international development through its waste and storage activities. The company recently strengthened its skills with the integration of a proficient business director with an experience in export.

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Mr François CARTAUD  
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Staff:  
104 persons



# ERM ENERGIES

Component manufacturers - Manufacturer



## Activities

ERM ENERGIES, department of ERM Automatismes dedicated to renewable energies, has a unique expertise in the design of hybrid systems autonomous or connected to the network. Photovoltaics, wind turbines, fuel cells, hydraulic turbines, tidal turbines, green generators, lead storage...

## References

R & D is fundamental at ERM. More than 10% of the turnover is devoted to the development of new products and new skills. Out of 40 employees, 12 are part of the multidisciplinary design office.

It's been about 5 years since we started working with a growing CA on this sector. In 2017, we achieved about 12% of our sales turnover and our ambitions in this area are strong.

For 3 years, ERM has been developing containerized solutions allowing access to electricity but also to education, drinking water and better food preservation

Energy efficiency  
Renewables energies

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Staff:  
40 persons  
Turnover: 8,2 M€



Renewables energies  
Waste management

## Activities

ETIA proposes equipment and turnkey process for turning waste and biomass residue into valuable product and thermal energy and electricity.

ETIA is then fully involve into production of renewable energy.

ETIA develops also solutions for off grid and on grid small and medium power plant for Africa and South East Asia from MSW and plastics residue.

All ETIA's solutions come from proprietary, patented and exclusive solution.

10% of the turnover of the company is dedicated to R&D

### Range of products :

- **BIOGREEN:** Pyrolysis process to convert biomass and waste into valuable product and energy
- **PYROGREEN:** Complete turn key solution to convert biomass residue into Biocoal, Biochar and syngas
- **PYROSLUDGE:** Complete turn key solution to convert sewage sludge, digestat or manure into biochar and energy
- **PYROPOWER:** Complete turnkey solution to convert RDF, plastics or scraps tyres into electricity

## References

ETIA's export represents 95% of its turnover in more than 35 countries.

Recently ETIA has set up BIOGREEN AFRICA, a subsidiary company to propose its solution to African market

## Certifications, labels or prizes

- ETIA is awarded «BPI EXCELLENCE» as one of the 3000 most innovative companies in France

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Staff:  
**35 persons**  
Turnover: **8,3 M€**  
International turnover : **550 000 €**

# EVC TECHNOLOGIE

Design Office - Engineering



## Activities

We support customers all across France and internationally, with respect to environmental compliance and preservation of natural environments.

- Environmental compliance development
- Industrial Risk Mitigation
- Waste Management
- Process/Waste Water Infrastructure

Mostly recognized in the areas of recycling Waste Management, Car Scrap Yards, logistics and Surface Treatment (aerospace, car parts,...) work with the same expertise and relevance in other industrial fields.

Environmental development  
Risk  
Waste management  
Water infrastructure

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Staff:  
**15 persons**



Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Renewables energies  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

### Product definition

PLUTO is a powerful MONITORING and REPORTING software product, providing first all capabilities to manage and process your data.

It suggests all connections to SQL and industrial databases. It can also log clean and accurate data from local and iot servers. It can transform raw data into analytics and generate alarms from any indicator.

Then PLUTO provides a very simple application designer tool to create fantastic templates for reporting and monitoring, without any expertise in design or in database logic.

Finally, PLUTO suggests multiple applications to generate and distribute reports by email automatically, visualize live dashboard in multiple screens, access reports and monitoring screens from a browser.

The product pricing is scalable and only based on the number of points managed by the application. There are no limitations in terms of reports, dashboards, monitoring and web connections.

PLUTO is the best cost-effective solution and the simplest product for plant and iot analytics, easy to install, easy to develop, easy to deploy and easy to access...

## References

ADP - AURIPLAST - ARKEMA - AXIMA - BONDUELLE - BORDEAUX METROPOLE - BOUVARD - CHU MONTPELLIER - COMAU - DANONE - EAUX DU PORTUGAL - ENERGIE MANAGEMENT - ENGIE - ERENA - ESSE - IDEX - INDUSTEEL - L'OREAL - LAFARGE - LVMH - MANE - McPHY - ORANGE - ORANGINA - PARIS BOURSE - PHOTOWATT - RIU HOTEL - RYIADH BANK - SDH - SEDP - RATP - SYCTOM - SYAGE - STGS - VILLE DE NANTERRE - YOPLAIT...

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Staff:  
**10 persons**

International turnover : **60% Global turnover**





Energy efficiency  
Environmental development

## Activities

**EXENCI is a consultancy providing expertise and technical assistance on energy efficiency and renewable energy projects internationally.** We mainly operate in the context of investment programs supporting all types of actors in the design and implementation of their projects regarding energy transition. In order to offer our customers a comprehensive range of services our partners are rigorously selected, those cutting-edge within their sectors, which allows us to mobilize specific expertise.

After 20 years of experience within the French Environment and Energy Management Agency (ADEME), in 2012 M Bruno CHRETIEN established EXENCI based in Angers, France. Engineer by vocation, Bruno is an internationally renowned expert on energy efficiency in industrial and tertiary sector. His experience, therefore, allows provision of following services :

- Consulting and technical support on energy efficiency in industrial, tertiary and building sectors
- Definition of public policies relevant to energy efficiency and renewable energies, and support during implementation process
- Realization/monitoring of feasibility studies and energy audits
- International project/partnerships management
- Communication on sustainable development issues
- Targeted trainings

One of the current projects engaging EXENCI is ENERGOS led by the Expertise France in the Ivory Coast. The enterprise provides technical assistance on setting up exemplary energy efficiency and energy management solutions in institutions aiming to demonstrate best practices in building renovation. Also, it has recently been engaged on the National Energy Efficiency Program of Mauritius again in collaboration with the French Agency for Development (AFD) and on trainings regarding energy efficiency in industrial sector provided by the EBRD in Morocco.

## References

- **2018 - 2019, INDIAN OCEAN (Madagascar, Mauritius and Comoros)** - Under the EU-funded COI-ENERGIES program, studies on energy efficiency potential within private sector enterprises.
- **2018-2021, IVORY COAST** - Technical assistance on a project setting up exemplary energy efficiency and energy management solutions in institutions in order to demonstrate best practices in building renovation
- **2015-present, INTERNATIONAL LEVEL** - Technical expertise representing France in an international workshop named TOPTENs (by the IPEEC) aiming to provide lists of the best practices and energy efficiency technologies in sectors such as buildings, industry and transport
- **2017, MOROCCO** - Training of energy auditors working in the industry sector: energy audits, energy efficiency measures, energy optimization systems and financial aspects
- **2017, MAURITIUS** - Updating of the mapping regarding energy savings potential in the private sector (industry and commercial) and preparation of a strategic program for future actions implementation
- **2017, EUROPEAN UNION** - Project building and writing of a proposal for the H2020 program
- **2015-2017, INDIA** - Technical expertise in building up of an Indo-French partnership in order to evaluate possibilities of investing in India's energy efficiency sector

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**M. Bruno CHRÉTIEN**  
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Staff:  
**2 persons**  
Turnover: **120 000 €**  
International turnover: **100 000 €**

# EXPLICIT

Design Office - Engineering - Service Company



## Activities

EXPLICIT is in the forefront of the global energy challenge since 1988. EXPLICIT is a pioneer company in energy conservation policy and low carbon projects. The company is a high skilled team of 20 people including engineers, economists, GIS and communication experts. EXPLICIT drives a national (four agencies) and international network on independent expertise on energy efficiency projects and environmental friendly policies covering many sectors (power generation, industry, buildings, transport and services).

Air quality and odours control  
 Energy efficiency  
 Environmental development  
 Renewables energies  
 Risk  
 Sustainable urban planning  
 Waste management

## References

Design and implementation of Green Energy and Climate action plans - Support the signatories of the Covenant of Mayors (SEAP) : Diagnosis and mapping for the Green Energy and Territorial Climate plans of Major French Cities (Nantes, Grenoble, Nice, Troyes, Mulhouse) and rural areas (Millevaches, Morvan).

Design and implementation of Energies and Climate Action Plan for Southern Cities: TA of the metropolitan authority of Bangkok for its Global Warming Action Plan (AFD). Support for 10 cities in Southeast Asia on the implementation of a Low Carbon City initiative, funded by ADEME International and the Asian Institute of Technology. Technical assistance on 'Energy Efficiency', 'Renewables Energies' and 'Bioclimatism' for the regulation of construction and renovation. Development of the thermal regulation of Guadeloupe.

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Staff:  
**19 persons**  
 Turnover: **2 M€**  
 International turnover : **10 à 15%**



# FINERGREEN

Service Company



Energy efficiency  
Renewable energy  
Energy transition  
Financing  
Fundraising

## Activities

FINERGREEN is a financial advisory company specialized in the renewable energy sector (solar, wind, hydro, biomass). Founded in 2013, the company has already realized € 800 M of transactions representing over 500 MW of assets.

With a team of 30 people, based in 4 offices through Europe (Paris), Africa (Abidjan), Asia (Singapore) and Middle East (Dubai), the company operates through 3 main segments:

- Mergers & Acquisitions: Specialist of bid management and acquisition process with both buy-side and sell-side mandates for renewable energy companies;
- Project Finance: Financial advisory with respect to the raising and structuring of equity and/or debt for renewable energy assets;
- Strategic Advisory: high value-added missions either for public or private entities (market studies, independent valuations, financial due-diligence, modelling, capacity building).

Operating on the MidCap segment (\$ 10-200 M), the company has a triple expertise:

- Financial: Project Financing, Asset M&A and Corporate M&A. The company interacts with investors all over the world;
- Legal: Negotiation and implementation of the legal documentation related to transactions in partnership with lawyers;
- Technical: Project development monitoring until the commissioning of the plants. Negotiation of contracting of plants on behalf of its customers.

FINERGREEN expects to intervene in Latin America in the medium-term.

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**M. Damien RICORDEAU**  
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Staff:  
**30 persons**  
Turnover: **4 M€**  
International turnover: **1 M€**

# FRANCK BOUTTÉ CONSULTANTS

Design Office – Sustainable Design & Engineering

**Franck Boutté Consultants**  
Conception & Ingénierie Environnementale

## Activities



Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management  
Water infrastructure

The agency Franck Boutté Consultants is a leader and authority in the fields of environmental engineering and design and sustainable development, applied to buildings, districts, towns and land. It covers a large range of disciplines and skills (bioclimatology and passive strategies, comfort, atmospheres, health, management and improvement of resources, energy, water, design and improvement of building envelopes, natural ventilation, advanced modelling and simulation, encouraging renewable energies, carbon policy and LCA, French and overseas environmental and energy certifications, energy strategies) and is involved in all stages, from materials to land.

The agency employs engineers, architects, and urban planners, often with varied backgrounds, with a total of 30 employees spread between Paris, Bordeaux and Nantes. Its holistic philosophy is based on intellectual tools, a huge range of digital tools (3D modelling, digital mock-ups and BIM, advanced energy and climate simulations, comfort, lighting, ventilation) and experimental procedures (development of methods). This allows it to address all environmental issues for both buildings and urban organisations, by proposing a significant number of innovations and by emphasising R&D.

## References

- Refurbishment of the Grand Palais, Paris / LAN, sustainable strategies, architectural and energy retrofit of the museum galleries and the central “nave”, 450 000 m3 greenhouse (building performance audit, energy dynamic simulation, HVAC design for historic heritage monument and large volumes, thermal comfort, CFD analysis)
- MESH : Morphology, Environment, Sustainability, Human comfort / ADEME Modeval-Urba 2015, Lab’Urba, SADEV94, @immaginoteca, Urban forms environmental quality assessment and optimization (R&D, computational design, artificial intelligence, performance driven design based on environmental analysis)
- Gare de Lyon-Daumesnil / RSHP, Sustainable and bioclimatic masterplanning with an emphasis on low carbon strategies (diagnostic and urban morphology optimization, understanding and practical involvement in issues of carbon footprint

- reduction, water management policies and design)
- SciencesPo 2022 / Wilmotte & Associés + Moreau Kusunoki, sustainable and passive strategies to deal with comfort (especially thermal) in respect with an historic monument, bring natural light in existing buildings, streamline resource consumption (Green assessments: HQE Bâtiment Durable 2016, BREEAM RFO 2015 and BREEAM New Construction 2016, label Effinergie +)
- 55 000 ha for the Nature / Agence TER, Redeveloping nature by way of buildings projects, make more of nature with more of population (biodiversity, strategies of valuation of the territory, transports)
- New town of Zenata / RRA, ecology of the Sout, low-tech strategy (natural urban Ventilation, morphology, blue weft, green weft, Natural Light Analysis, DTS)
- Town hall of Bordeaux / Paul Andreu Richez + Associates, Sharing of energy production (mutualisation of energy resources, production sharing with adjacent historic building)

## Certifications, labels or prizes

- (2009) Mention at the symposium PassivHuis in Brussels for a social housing building in Fréquel Fontarabie neighborhood, Paris, with LAN Architecture
- (2009) Great Prize of Architecture in Midi-Pyrénées for Gallieni High-school in Toulouse, with Claude Vasconi et Associés
- (2012) Agora Prize from Bordeaux’s Biennale for 26 apartments in Lormont for “the complexity to build them under the Aquitaine Bridge and for the beauty of the project”, with Ateliers Jean Nouvel + Habiter Autrement
- (2012) EDF Low Carbon price of the «Prospective Urban» for Residential building, nursery and shops in Paris, with Naud Consultants Architects & Lice - Fund Award for Innovation EPL / EDF for House of the Euro-Mediterranean Research and Ingémédia Institute in Toulon with ANMA-Nicolas Michelin & Associés

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Staff:  
30 persons





Energy efficiency  
Sustainable urban planning

## Activities

**Freshmile is a charging service operator for electric vehicles.**

Freshmile operates charging stations and provides a full range of associated services: remote monitoring, technical operations, customer relationship management.

**Freshmile is France's largest independent charging service operator.** Freshmile operates more than 1,500 charging points on behalf of more than 50 infrastructure owners, both public and private. Several thousand end-users have a Freshmile account. Each month, Freshmile operates several thousand charging sessions, commissions dozens of new charging points and enrolls several hundred new end-users.

As a charging service operator, Freshmile covers both roles described above: **charging point operator** (CPO) and **electric mobility service provider** (EMP or EMSP). CPO and EMP are complementary roles. Carrying out both roles together is the essential condition to provide seamless user experience.

As a **CPO**, Freshmile operates charging stations for private and public owners: cities and local councils, administrations, shops, companies, block of flats. Charging stations owners trust Freshmile with the activities pertaining to the technical operations of the charging infrastructure and to the management of access rights for end-users.

As an **EMP**, Freshmile provides end-users easy and reliable means to use the charging infrastructure, for both private and public charging stations: online account, web and mobile payment, real-time map with live status of charging points, mobile app for Android and iPhone, contactless cards and keyfobs, client relationship centre, helpdesk and hotline. Thanks to the "guest" mode, any user can charge and pay at any charging station, without even being requested to open an account.

## References

Freshmile invests heavily in R&D in order to develop software and solutions aimed at clients' future needs. R&D is entirely carried out in-house. Freshmile is backed by ADEME for its artificial intelligence project dedicated to charging stations.

With its 1,500 charging points under management, Freshmile has acquired the necessary reference and expertise to expand abroad. The first projects are commissioned in Germany late 2017.

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Staff:  
**15 persons**

# GINGER BURGEAP

Design Office - Engineering - Service Company



Soils remediation  
 Air quality and odours control  
 Energy efficiency  
 Environmental development  
 Renewables energies  
 Risk  
 Sustainable urban planning  
 Waste management  
 Water infrastructure

## Activities

BURGEAP's historic business is to monitor the quality of the natural environment. Today, in the fields of air quality and odours; soil, water table and surface water quality; sustainable energy, each of our engineers uses field and scientific knowledge to protect the environment, support the development of sustainable cities and assist environmentally-responsible companies in all of their processes.

BURGEAP's multidisciplinary team has been inventing, designing and implementing practical solutions for sustainable development for 65 years.

BURGEAP is well-recognised for its capacity to innovate. With the support of an internal Research and Development team, we aim for technical excellence in our services. By combining global expertise with local know-how, BURGEAP provides its French and international clients with exceptional experts throughout the world, in our business areas:

- Water, Energy, Urban and Local Environment
- Industrial Environment
- Nuclear Decommissioning and Conventional Deconstruction

BURGEAP is part of the engineering group GINGER. GINGER has completed over 65.000 projects in 80 countries in the fields of soil engineering, structure diagnosis, material sciences, environment and sustainable development . Its 1500 employees and associated experts generate a yearly revenue of 150 million euros. The Group's companies provide public and private clients with adapted local environmental and development solutions. GINGER companies offer comprehensive engineering services: consulting, training, project management, design, engineering, and turn-key facilities.

## References

### IN FRANCE

- 2 000 contracts per year.

### INTERNATIONAL

- 200 contracts per year.

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 burgeap@groupeginger.com

Staff:  
**317 persons**  
 Turnover: **35 M€**  
 International turnover : **5 M€**





Energy efficiency  
Environmental development  
Renewables energies  
Waste management  
Water infrastructure

## Activities

GIRUS GE is a French consulting engineering company, specialised in Building and Civil Infrastructure, Water, Waste and Environment. Through more than 25 years of experience, the company has built up a reputation as one of the major actors in our disciplines. GIRUS GE offers multi-discipline consulting engineering services covering all phases of a project from the earliest pre-investment and feasibility studies, through planning and design, tendering and construction supervision, to project implementation, operations and maintenance. GIRUS GE is certified to the International Standard ISO 9001 and obtained certification to the International Environmental Management System Standard ISO 14000. GIRUS GE is implanted in Morocco.

## References

### IN FRANCE

- Vienne Hospital: Installation of a cogeneration plant.
- Extension of the capacity of the wastewater treatment plant from the entire Grenoble urban area.
- Supervision of works contract implementation, assistance to the owner with acceptance procedures. Montpellier organic waste recovery centre (170,000 tonnes of residual waste per year, 33,000 tonnes of organic waste per year).

### INTERNATIONAL

- China: design review and advisory mission related to feasibility and detailed studies on solid waste and wastewater management
- Congo Brazza: Pointe Noire port authority integrated solid waste management plan.
- Algeria: Industrial and hospital waste integrated management plan for the Algiers Wilaya
- Maroc: Engineering and supervision works for the wastewater sludge treatment of Marrakech city.

## Certifications, labels or prizes

- OPQIBI certification
- ISO 9001, ISO 14001, ILO-OSH 2001 certifications

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M. Nicolas **ALMODOVAR**  
International development  
Manager

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Staff:  
**200 persons**

Turnover: **15 M€**  
International turnover: **500 000 €**

# GREEN CREATIVE

Component manufacturers - Manufacturer



## Activities

Created in 2010, Green Creative is an industrial French company that designs and manufactures a new generation of equipment for improved waste recovery. Its strong growth derives from paying great attention to the needs of its users in the field and from perfect fluency in the industry's professions.

FLEXIDRY is an innovative depackaging machine that can extract an organic substrate of superior quality. It is ideal for the agri-foodstuffs, supermarket (superstores) and restaurant industries that sort and recover their production, unsold and leftover food waste. By properly separating the contents from their packaging, the purity of the organic fraction meets the needs of biogas, compost and animal feed manufacturers.

## References

Exporting is a key element for the development of GREEN CREATIVE and for our products.

We have more than 15 references of FLEXIDRY in France, Swiss and Poland. They have been positioned in various area and are always used for the depacking of bio waste : methanation, compost, animal food, and waste management companies.

Waste management

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CEO  
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Staff :  
24 persons  
Turnover : 2 ME  
International turnover : 600 000€



# GREEN RESEARCH

Component manufacturers - Manufacturer



Renewables energies

## Activities

**Wanted:** Identify new energy sources, imagine innovative technologies to reveal and extract. By investing heavily in research (patents), researchers and engineers, we suggest innovative and material solutions in industrial processes.

**Unrecoverable?** Our industrial processes make it possible to valorize the energy capital present in the ligneous part of the waste of the territory. It goes through several processes (depollution, drying, recovery) designed for optimal use. We accompany our customers to design the process adapted to the specificities of their territory.

**Energy:** The recovery of wood waste can also be done through the production of electricity (ENEDIS reinjection) by cogeneration under contracts supported by the Energy Regulation Commission. Green Research has won several of these files and is surrounded by renowned industrial partners to put them in place.

**King Pellet ...** A biofuel pellet resulting from the transformation of green waste, standardized NF444 for polyfuel boilers. A specific formulation based on noble woods can lead to producing DIN +, EN + or NF type pellets.

**Consumption?** For the collective boiler industry, agrofuel will help to feed the Territorial Objective Contracts of large social landlords locally. Large industrial boilers are in demand of alternative fuels allowing the passage to ENR.

«Ecologize» Our processes are part of a circularization of the economy, on a territorial scale. The use of agrofuel boosts green, CO2-neutral energy from a raw material collected locally.

**Benefit from:** Green Research expertise, its skills from R&D, a partner who accompanies you step by step. Realization of studies, sizing of processes, preliminary diagnostics, regulatory compliance are all topics to be addressed.

**Anticipate:** Your compliance with directives and environmental standards promoted at the national, European and international levels, as part of the energy transition. Take a step ahead!

## References

GREEN RESEARCH have installed several energy recovery in France and collaborates internationally with Morocco and Tunisia. We propose a similar ecosystem by adapting it to the needs of territories and waste (tomatoes, olive pomace ...). We are working on many projects to restore an ecological image and sustainable from an environmental point of view. Many actions are underway on the topics of local waste recovery to produce energy from crop residues.

## Certifications, labels or prizes

- EIP (Entreprise Innovante des Pôles de Compétitivité)
- Statut JEI (Jeune Entreprise Innovante)
- FCPI (Fonds Commun de Placement Innovation)
- Lauréat BPI
- Lauréat NOVATECH
- Lauréat EDF Pulse
- Lauréat COP22
- Lauréat INNOVATER
- Trophée de la transition énergétique 2018 – Energies renouvelables (Usine Nouvelle)

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Staff:  
15 persons  
Turnover: 2,2 M€



Energy efficiency  
Renewables energies

## Activities

GreenYellow is an energy transition accelerator. This energy expert provides to its customers, companies and local authorities, in France and abroad, a range of innovative and adapted solutions with enabling them to produce, control their consumption, save energy and reduce their energy consumption.

GreenYellow is one of the rare energy players to have expertise on all the components of an energy bill: both in production of decentralized energy (in particular photovoltaic), guaranteed reduction of consumption (energy efficiency) and energy services (purchasing energy, managing consumption and advising on energy strategy).

In 10 years, GreenYellow has become the leader in solar photovoltaic self-consumption in France, the leading producer of solar photovoltaic energy in the Indian Ocean region and the leading player in energy efficiency in Colombia and Brazil.

The 250 GreenYellow employees are located in 8 countries (France, Brazil, Colombia, Thailand, Indian Ocean and Africa).

## References

- 180 million euros savings on the energy bill of its customers
- 2.274.000.000 kWh of saving achieved
- 140 tons of CO<sub>2</sub> avoided
- More than 150 solar plants (construction, operation)
- 190 Mwc installed capacity
- 1 000 000 m<sup>2</sup> photovoltaic plants developed
- 1500 EPC (40% out of France)
- More than 600 sites certified ISO 50.001

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et Communication  
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Staff:  
>250 persons



# GROUPE COMPTE-R

Component manufacturers - Manufacturer



Renewables energies

## Activities

French industrial company and pioneer of the use of renewable energies, Compte.R designs and manufactures a full range of wood and biomass thermal generators. Born 120 years ago in Auvergne (France) the company is now a major international group in the field of renewable energies such as wood and biomass, and is recognized as a leader in its sector of activity. Physically present in several countries in Europe and North America, the group shines on the 5 continent, thanks to the mobility of its teams.

The 6 group subsidiaries have developed areas of expertise to meet in an effective way the expectations of its clients. Groupe Compte.R and its team have developed their expertise in hot water, steam, thermal fluids and overheated air. The changing needs is driving innovation within the group. Through its R & D office, the group offers boilers even more efficient.

The group's strength is forged through the continued development of the use of various agro fuels. With the laboratory « Plateforme Avenir », the group is able to validate the performance of fuels and boilers.

Nowdays the group offers much more than a boiler. Its originality is linked to its wide range of personnalized from the designing to the end of life of the boiler. All along these steps, you will have only one single contact in the company. 450 people accompany industry, authorities and the services sector with their projects.

With over 2200 biomass and wood boilers installed in the world, the group Compte.R continues its development linked closely with its DNA: environment, local footprint and innovation.

## References

### IN FRANCE

- More than 1800 Compte.R Boilers are installed in France which include :

Limoges Hospital, Limagrain, Papeterie banque de France, Auray aquatic centre, Ikea, BEL plant, Pierre Fabre, Yves Rocher, L'Oreal, Herta, University of Bordeaux, Heinz greenhouse crops, Chambéry Bissy heating network, Toulouse-Pupan Hospital, Roanne Cherve High School.

### INTERNATIONAL

- Groupe Compte.R has more than 2200 installations in the world with for example : London Olympic park, Excel greenhouse crops in Quebec, Cargotec in Poland, italiana Pellets in Italy, Gand University in Belgium, Matleries Soufflet plant in Ukraine, SIC CACAOS in Ivory Coast.

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Staff:  
**450 persons**  
 Turnover: **40 M€**  
 International turnover: **1,5 M€**

# GUARD INDUSTRIE SAS

Component manufacturers - Manufacturer



Sustainable urban planning

## Activities

Founded in 1989, Guard Industrie has revolutionised the Building Industry by developing a comprehensive range of innovative and complementary products designed to protect, treat, decorate and clean the complete spectrum of building materials (concrete, natural stone, brick, wood...).

Today, Guard Industrie is operates across the world through a network of subsidiaries (China, UK, Italy and Russia) and distributors in over 40 countries. Its success has been recognised having recently been awarded the -Ambition Prize organized by the Economic newspaper la Tribune and the Palatine Bank. Since its formation, Guard Industrie has continued investing in Research and Development so that the business remains at the cutting edge of technology and introducing more innovative and environment-friendly products. Guard Industrie manufactures ecological and biodegradable products. Thanks to its ecological commitment, Guard Industrie's protection range of products was awarded the « Ecoproduct » prize by the Chamber of Commerce of the Seine Saint Denis Region and the ADEME.

## References

### IN FRANCE

- RATP Head Office (Thiais) - Notre Dame de Paris - Le Pont Neuf (Paris), Marseillaise tower (Marseille).

### INTERNATIONAL

- Marie Elisabeth Lüders Haus (Berlin) - Paul Lobe Haus (Berlin) - Moscow's university, Tian An Men square (Beijing) - Qatar National Museum.



26 custom-made shades for the tower Marseillaise by Jean Nouvel © Jérôme Cabanel

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CEO  
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Staff:  
**60 persons**  
Turnover: **12 M€**  
International turnover : **6 M€**



# H 2P SYSTEMS

Component manufacturers - Manufacturer



Energy efficiency  
Renewables energies

## Activities

H2P technology is based on a unique patented thermodynamic open cycle using ambient air as working fluid. Thanks to a heat exchanger and a hot air machine, H2P engine converts thermal energy from the conventional engine's exhaust gases into additional mechanical power. Fuel consumption drops by 5% to 10%.

## References

H2P have hired talented and passionate engineers continually focus to improve H2P engine performances and efficiency.

We have agreed in the past years several R&D partnerships with international firms like VOLVO TRUCK, VALEO and AGCO.

We are currently developing H2P brand internationally by the participation to international Engines trade show, conferences etc.

## Certifications, labels or prizes

- Winner of European program «Horizon 2020 for innovative SMEs

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Président  
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Staff:  
10 persons

# HACE

Component manufacturers - Manufacturer



## Activities

HACE brings to the market a disruptive energy production solution, using the immense potential of wave energy.

HACE develops a design / sale activity of wave systems.

Our unique patented technology uses the principle of multiple oscillating water columns

- Works almost all the time, with a wide spectrum of waves.
- Designed to be lightweight and reduce operating costs through simple maintenance.

The energy we produce is almost non-intermittent.

It is clean, renewable and competitive.

## References

- Desalination (Tergys partnership), sites and isolated communities
- Oil & Gas, Power producers, Energy-intensive industries,
- Armed forces, NGOs...

Renewables energies

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Staff:  
3 persons



# HANTSCH

Component manufacturers - Manufacturer



Waste management

## Activities

HANTSCH is a complete supplier of installation and equipment for the treatment of waste and biomass recovery.

This is the heart of our business. We are market leader in the composting and wood energy recovery markets for which our engineering department has been designing installations and products for more than 20 years.

## References

We realized 15 installations of composting and diverse bio wastes in the Eastern Europe for 6 years and are active also in North Africa. The international development is a priority for the company that we concretize by of partnership agreements or the creation of subsidiary ( PL).



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Staff:  
**40 persons**  
 Turnover : **26 M€**



## Activities

HARY G intervient dans les domaines de l'eau chaude solaire et de l'énergie renouvelable appelé EnR en proposant des chauffe-eaux solaires et des climatiseurs Pac Air/Air. HARY G possède le double label RGE QualiSol et QualiPac permettant à leurs produits d'être éligibles aux CEE (Certificats d'économies d'énergies).

Le parc automobile de HARY G est composé de 30% de voitures électriques. Ces véhicules utilisent une énergie propre, étant rechargés à

partir d'une centrale photovoltaïque. Cela en fait donc des véhicules 100% solaires.

HARY G met en place un site d'économie partagée mondial 100% «Partner» permettant aux citoyens vivants dans des pays et zones à faible pouvoir d'achat d'accéder à des marchés importants.

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Staff:  
**21 persons**



# I CARE & CONSULT

Design Office - Engineering - Service Company



Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management

## Activities

I Care & Consult, the leading independent consulting and innovation company for environmental transition, assists companies, investors and public organizations in the success of their “environmental transition”. Thanks to our eight poles of expertise, we can propose innovative solutions for a wide range of environmental issues. Our goal is to help clients turn their “large environmental footprints” into “strong environmental productivity”.

I Care & Consult’s expertise is organized into eight main practices:

4 thematic areas of expertise :

- **Energy and Climate:** Energy efficiency, renewables & smart grids, fuel poverty, climate change adaptation, financing
- **Air quality & Health:** indoor air quality, outdoor air quality, health and socio-economic approach
- **Nature and living systems:** biodiversity, water, sustainable agriculture, sustainable food production
- **Circular economy:** developing the circular economy, industrial and territorial ecology, prevention and recovery of waste, functional economy

4 levels of intervention :

- **Sustainable territories:** environmental planning, territorial observation, environmental assessment, implementation of territorial projects
- **Sustainable cities:** sustainable urban planning, sustainable development, sustainable construction, sustainable transport
- **Sustainable organization:** CSR and stakeholder consultation, sustainable procurement, marketing and sustainable consumption, finance & the environment
- **Sustainable products:** life cycle analysis, ecodesign

## References

### IN FRANCE

- Air, Climate and energy master plan for territories: ADEME, Metropolis, various regions...
- Climate and socio-economic impact assessment of the Territorial Air, Climate and Energy Plans: ADEME, GIP Bretagne...
- Integration of environmental issues into urban development projects: Etablissement public du Plateau de Saclay, RATP, EPAURIF...
- Renewables and smart grids: ADEME, GRDF, Enerplan
- Environmental and socio-economic studies on the agricultural sector: ADEME
- Reduction of food waste: ADEME, Stade de France...
- Biodiversity footprinting
- Assessment of environmental impacts and definition of investment strategies including environmental issues: pension funds, banks, asset managers, insurance companies...

### INTERNATIONAL

- Carbon accounting methodologies: ADEME, ANME (Tunisia), ADEREE (Morocco)...
- Air, Climate and energy planning for territories: AFD, GIZ (Sfax), CES MED, C40...
- Technical assistance to improve the environmental performance of companies: AFD
- Financing of projects with a climate co-benefit: Latin American Development Bank

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Mr **Benoît BULLIOT**  
International manager  
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Staff:  
**35 persons**

Turnover : **2,8 M€**  
International turnover : **400 000 €**



Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning

## Activities

As an independent consulting and engineering firm, IED has been involved in the provision of sustainable energy services since its creation in 1988. This involvement extends from the study phase right through the construction and commissioning of infrastructures such as distribution networks and renewable energy production plants.

Sustainable development has always been at the core of IED approach. IED is careful to provide technical solutions that are environmental friendly and adapted to the needs of the beneficiaries, whilst also ensures that the services provided locally are appropriate from a social and economic point of view.

Its expertise is grounded in local realities, thanks to a continuous presence in over forty countries through subsidiaries, project management offices, and partners and to the active participation in international networks.

IED works for private investors and for clients in the public sector (power utilities, ministries, rural electrification agencies), and for international financial institutions.

Since 2011, IED INVEST has been developing, financing and operating renewable energy generation units. The last project was commissioned in 2018, in Sra Em, Cambodia. It is a 1MW gasification plant, that is connected to the grid and daily supplied with 36 tons of wood and agricultural residues.

## References

### IN FRANCE

- ADEME - AFD - FFEM (French GEF) - MAE (Ministère des Affaires Etrangères).

### INTERNATIONAL

- The European Commission - The World Bank - UNDP – United Nations Development Programme - GEF – Global Environment Facility - Other bilateral cooperation agencies such as DANIDA, GIZ. Private sector investors and developers - Private clients - Local authorities - municipalities, regions,...



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Managing Director  
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Staff:  
**119 persons**  
Turnover: **5,4 M€**  
International turnover : **5,4 M€**



# IFFEN Certification

Service Company



## Activities

- Certification
- Training

Efficacité énergétique  
 Energies renouvelables  
 Gestion environnementale  
 Qualité de l'air et limitation  
 des odeurs  
 Risques

## References

Starting from an innovative approach and a constant desire to optimize new processes in training, IFFEN currently developing solar air conditioners and water production systems to meet global écoenvironnementales dialectical.

## Certifications, labels or prizes

- Eco acteurs du Val de Marne

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**M. Abdoul BENAMER**  
 Directeur

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Staff:  
**5 persons**

Turnover : **493 000 €**

# INDDIGO

Design Office - Engineering



Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management

## Activities

Inddigo is a sustainable development consultancy and engineering firm.

For 30 years, Inddigo has been working with the public and private sectors in implementing a sustainable approach for their projects, from strategy and development to project execution, and on all scales from large territories to local public facilities.

Our expertise in waste management, energy and climate, construction, mobility, sea transport and biodiversity can meet the needs for projects regarding :

- **circular economy:** reduction and repurposing of waste and energy
- **strategic and spatial planning:** master plans and economic development
- **urban development and construction:** ecodistricts, sustainable and smart cities, passive and energy-plus buildings
- **urban systems engineering:** waste and energy management, transportation, local transport plans, intermodal transfer hubs, bicycle transportation planning
- **transport:** port development, waterway, sea and rail transport.

Inddigo is an innovative and independent company with firm beliefs, bringing together 200 team members in locations all over the country. With Inddigo, innovation is one of the foundations of the company, and can be seen through the services and products, the working methods and practices, and the organization and governance.

## References

### IN FRANCE

1000 missions per year in France for over 700 clients. Some recent exemplary projects : ADEME – French Agency for Environment and Energy Management (circular economy and urban planning), Occitanie region (Regional plan for sustainable development), Paris Batignolles Aménagement (ecodistrict), ANRU – National Urban Renewal Agency (sustainable cities and renovation), I3F (energy management), City of Paris (organic waste and bicycle planning), Grenoble Alpes Métropole (mobility and waste management), Île-de-France Mobilités (intermodal passenger transport hubs), L’Oreal (transport plans), Port of Le Havre (biomass cogeneration)...

### INTERNATIONAL

- “Industrial ecology and symbiosis” Action Plan – GIZ (Maroc)
- Energy audit of the SITEM site in Zriba (Tunisia)
- Domestic waste management Master Plan for Sao Paulo (Brazil)
- Reduction of plastic pollution in Champasak Province (Laos)
- Organization of waste removal and processing in Cap-Haïtien (Haiti)
- Development master plan for the Dakhlet Nouadhibou Region (Mauritania)
- Vazhaikularam ecodistrict in Pondichery (India)
- Update of the Port of Pointe-Noire master plan (Congo)

## Certifications labels, or prizes

- ISO standards 9001 and 14001
- OPQIBI (French Engineering Qualification Body) certificates

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M. Bruno LHOSTE  
Président  
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Staff:  
200 persons

Turnover: 15,5 M€  
International turnover : 0,51 M€





Soils remediation  
Air quality and odours control  
Environmental development  
Renewables energies  
Waste management

## Activities

INERIS' expertise is based on an experimental approach, modelling, and knowledge of the world of industry and of the regulatory framework. INERIS works in partnership with industry to ensure that industrial innovations are clean and safe.

A part of the activity refers to accidental risks. Another part aims at assessing impacts of pollutants and chemical substances and the clean technology. R & D is at the origin of products and services, in particular in the air quality (forecast, monitoring...) in which INERIS is a European leader. The institute is also active in the field of water and wastes.

Solutions customized to your needs:

**Analysis, monitoring, process safety:** substances, mixtures, materials and products, air quality, waste, polluted sites and lands, surface and underground water, stability of ground, cavities, slopes and underground storage facilities, metrology.

**Test facilities laboratories, large scale, on site:** chemical processes, substances, products and materials, safety, structural resistance, safety equipment and materials, toxicology and ecotoxicology, pollution management, fire, dispersion and explosion.

**Studies, assessments, technical and project support, audits:** risk assessment, mitigation and control, regulatory studies, pollution treatment, land Use Planning, disaster contingency plan/emergency plan, accident analysis/learning from experience, project-management assistance, auditing.

**Training:** control of risks, explosive atmosphere (ATEX), lightning, functional safety, substances, health and environment, industrial pollutant emissions, polluted sites and soils, health and safety, environment management.

**Certification:** explosive atmosphere (ATEX, Hazardous locations), EC Certification – Explosives and pyrotechnical articles, approvals and authorisations for use, transport of dangerous goods, functional safety - SIL and Quali-SIL, lightning protection, ecotechnologies, battery safety, nanotechnologies.

**Second opinion, in depth review:** for the whole or part of your safety report and environmental impact studies.

## Certifications, labels or prizes

INERIS is present on the international scene with ATEX certifications. The Institute develops for several years, in France and abroad, forecast and sizing tools for air quality survey networks (Chile, Senegal, Tunisia and China).

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Staff:  
**850 persons**  
Turnover: **18 M€**  
International turnover: **2,85 M€**



Energy efficiency  
Renewables energies

## Activities

INES is the reference center in France, and one of the first in Europe, dedicated to research, innovation and training on solar energy. Initiated by the General Council of Savoie and the Rhône-Alpes Region, INES has 450 employees on a site of 22,000 m<sup>2</sup> of laboratories, offices and training rooms, equipped with the best equipment. INES is also developing a rich ecosystem of more than 200 business partners, small et big companies.

### Key figures :

22 000 m<sup>2</sup> of laboratories, offices and training rooms  
15000 trainees  
400 researchers  
200 industrial partners  
85 patents  
15 laboratories

### L'INES is organized around two platforms :

**Research and innovation platform :** aims to research and develop technologies for solar energy, electricity storage, solar mobility and energy efficiency of buildings. It is made of several laboratories, whose teams come from CEA , Savoie Mont Blanc University and CNRS. It works closely with the industry. It is at the heart of a French and international network.

**Training and Evaluation platform :** close to the Research and Innovation Platform, it aims to support the development of new technologies in the field of solar and energy performance of buildings and to contribute to the development of this sector through four missions :

- Professional training and training of trainers
- Observatory: monitoring and evaluation of installations
- Support of innovative project
- Digital resource center

INES is developing on-site and in-situ training programs, in France or abroad, on the topics of solar energy and the energy performance of buildings. Each year, 1000 professionals are trained by recognized international experts through short or long courses, tailor-made training, trainer training and distance learning.

Evaluation of installations in real conditions is the second condition of a massive and sustainable development of solar technologies because it is necessary to ensure the users an optimal performance of their installations. This feedback is crucial to enrich training courses but also for the information of professionals. Since 2006, an information service fed by the analysis of feedback from solar installations is in place. It allows INES to advise professionals through the monitoring of good practices with technical notes, specialized software and educational tools and to support them if necessary in project management assistance..

## References

Since 2012, Training & Evaluation Platform has carried out numerous projects all over the world with a strong presence in the Mediterranean Basin and in Sub-Saharan Africa. Our partners include major groups such as VINCI, EDF ... but also institutional bodies such as MASEN, AMEE, ANME, ministries, and electrification companies: EDM, SONABEL, ADER ...

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Staff:  
**30 persons**  
Turnover: **2 M€**  
International turnover : **35% of the activity**



# KRAKEN SUBSEA

Design Office - Engineering



Renewables energies

## Activities

Kraken Subsea Solutions is an engineering consultancy group specialised in marine renewable energies. Our team is made up of specialist engineers having an expert knowledge of the MRE market.

Based on our strong expertise accumulated throughout numerous projects (fixed and floating offshore Wind, tidal, wave energy) since 2012 and because of our innovation DNA, our experts are always focusing on developing innovative solutions for our clients allowing to overcome the specific difficulties inherent to offshore renewable projects. The result of this is a constant effort of R&D aiming at developing new methodologies resulting in a reduction of installation and operation cost.

## References

Since 2012 Kraken Subsea Solution has carried out numerous project out of France: Scotland, England, South Korea, Netherlands. The Company is continuously looking to develop its activity on new markets.

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Honoré  
75008 Paris  
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Staff:  
**4 persons**

# LAB S.A.

Design Office - Engineering - Component manufacturers  
Manufacturer



Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies  
Waste management

## Activities

Engineering and turnkey contractor.  
«Turnkey» installations for flue gas cleaning for the following applications:

- Waste-to-Energy incineration,
- Power plants,
- Biomass plants,
- Industrial boilers,
- Diesel engines and marine industry,
- Industries (chemical, cement, glass, refinery)

The systems can remove all pollutants such as acid gas, heavy metals, dust, dioxin / furan to comply with the most stringent environmental regulations and to recover maximum heat from the flue gases.

Incineration bottom ash treatment plants for the recovery of precious metals.

## References

More than 350 lines in operation.

## Certifications, labels or prizes

- ISO 9001
- ISO 14001
- OHSAS 18001
- MASE



Argo, Roskilde Danemark

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CS 60410  
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**M. David BOYER**  
Sales Director  
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Staff:  
**100 persons**  
Turnover: **70 M€**  
International turnover: **80%**



# LANCEY

Component manufacturers - Manufacturer



Energy efficiency

## Activities

Lancey Energy Storage designs and produces Lancey, the first smart electric heater equipped with a battery and a native energy management system (EMS). By fine tuning heating to user's needs and storing cheap off peak electricity to power the radiator during peak periods, it is up to 50% cheaper to run than other electric space heaters. Furthermore, it is beneficial to the environment. Thanks to its battery that charges during off peak hours to power the radiator during peak hours, Lancey heater almost never consumes electricity during peak demand, when its production releases more CO2. When a rooftop photovoltaic installation is installed, the EMS and battery of Lancey heaters enable to maximize its auto-consumption rate. Furthermore, Lancey heater's battery can be used to provide flexibility services to the electricity network, that are increasingly needed with the development of renewable energies.

## References

For the moment we have no export track record since all our sales have been done in France. It is yet a development axis for 2018/19, which is the reason why we joined the Club Ademe International.

## Certifications, labels or prizes

Lancey Energy Storage has received several awards for its innovation :

- Innotrophée start-up 2016 awarded by Simon Associés,
- 1st prize of the Pollutec Innovation Showcase 2016,
- EDF Pulse Award "Smart Energy" Auvergne Rhône Alpes 2016,
- 1st prize of the Rotary trophies 2016, • Paul-Louis Merlin Award 2017
- Finalist of the Smart Home Award by Fnac Darty and Engie

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M. Raphaël MEYER  
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r.meyer@lancey.fr

Staff:  
10 persons  
Turnover: 500 000 €



L'ingénierie  
acoustique et vibratoire  
depuis 1975



Noise and vibration

## Activities

Founded in 1975, LASA is a leading engineering firm in the field of acoustics and vibrations. Our competences are in particular :

- Building acoustics for theatres, concert halls, TV or recording studios, offices buildings, shopping centers, sports venues and leisure resorts, luxury hotels, hospitals, schools, high environmental quality constructions...
- Environmental acoustics : noise and vibrations measurements sessions and studies of land and air transportation facilities, 3D modelling, static and dynamic noise maps, noise reduction solution design, environmental noise impact studies...
- Acoustics in the industry : noise management around industrial sites, noise maps, noise reduction design for workers protection, environmental noise impact studies...

Our measuring instruments and prediction softwares fleet is large, always up to date, and allows our consultants to provide efficient and costs effective acoustic engineering for industries, architects, real estate investors, territorial communities, construction companies, administrations,...

## References

### IN FRANCE

- Cultural and Congress Center of Montrouge: Contemporary art Museum of the Val de Marne, Car design center Peugeot SA VELIZY, 5000 seats sports and music venue - BREST...
- Lot of offices buildings (PB6 tower La Defense – Headquarters of EDF, Technopole BOUYGUES TELECOM, extension FRANCE TV, Hospitals, LYON Airport extension (T3)...

### INTERNATIONAL

- Environmental noise and vibration impact of the New CASABLANCA Tramway.
- DUBAI Twin towers (two 200 m high offices and hotel towers), Home Office LONDON, ABU DHABI International Airport extension, NEW DOHA International Airport...

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Responsable Sud Est  
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tochon@lasa.fr

Staff:  
**29 persons**  
Turnover : **2,5 M€**  
International turnover : **5 à 20 %**



# LEOSPHERE

Component manufacturers - Manufacturer



## Activities

LEOSPHERE is a world leader in atmospheric remote observations by LIDAR (laser radar). The company develops, sells and services a range of turnkey autonomous and networkable remote-sensing instruments allowing real-time key meteorological and atmospheric measurements such as wind, turbulence, boundary layer height, clouds and aerosols (ash, haze, dust, sand).

More than 700 LEOSPHERE LIDARs are being used throughout the world onshore and offshore by meteorological offices, airports, the aviation industry, wind farm developers and operators, defence, port installations and research institutes.

Air quality and odours control

## References

### IN FRANCE

- CNRS, CEA, Eurocontrol, Ministère de la recherche, ADEME, ONERA, Météo France, L'université du Littoral Côte d'Opale, EDF EN, RATP.

### INTERNATIONAL

- European Space Agency (ESA), Chinese Academy of Sciences (China), National Institute for Environmental Studies (Japon), KNMI, University of Reading (UK), University of Virginia (USA), NASA (USA), Siemens Wind Power (Denemark), Vestas (Denemark), Acciona Energia (Spain), Dong Energy (Denemark), Padoma Ltd (USA), Everpower renewable (USA), Met Office (UK), Beijing Meteorological Bureau (China), Deutsche Windguard (Germany), 3E (Belgium), 2EN (Greece), CRES (Greece).

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Phone : +(33) 1 81 87 05 00  
www.leosphere.com/

Sales  
Phone : +(33) 1 81 87 05 00  
info@leosphere.com

Staff:  
**100 persons**  
International turnover: **20 M€**



## Activities

We design and assemble solar street lights that are inherently efficient from an environmental point of view. Labeled by our Capénergies competitiveness cluster and by the Ministry of the Environment, of which ADEME was on the jury. R & D is our priority.

## References

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

Energy efficiency  
Renewables energies  
Sustainable urban planning

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Staff:  
**5 persons**



# MASCARA RENEWABLE WATER

≡ SOMMAIRE

Component manufacturers - Manufacturer - Design Office -  
Engineering



Energy efficiency  
Water infrastructure

## Activities

Mascara Renewable Water developed the world's first reverse osmosis desalination technology coupled with photovoltaic solar energy, without battery, supplying everyone, everywhere, with drinking water at a competitive price, without CO<sub>2</sub> emissions.

Mascara Renewable Water is the only company proposing seawater desalination units with 100% solar energy. Our technology is patented and our engineers consistently innovate to develop new solutions to offer access to fresh water sources to the most remote populations.



**OS MOSUN® 13 SW**, starting production in June 2017 on Bora-Bora Island

## References

OS MOSUN® has proven its high efficiency and competitiveness as part of the MAS DAR's Renewable Energy Desalination Program in Abu Dhabi. The specific power consumption of this unit of 2.5kWh/m<sup>3</sup> for water at 35g/L, which is 15% lower than the most advanced desalination technologies. These performances lead to the implementation of one seawater plant on Bora Bora Island in the Pacific by the water utility company SUEZ, one seawater OS MOSUN® in Rodrigues' Island in the Indian Ocean, and the implementation of brackish water units in remote areas of Mozambique.

More projects are under process for the South Pacific and the Indian Ocean.

Our program only plans installations abroad.



**SOLAR PLANT** : The OS MOSUN® 13 SW unit requires a connection to a 66kWp solar plant.

20 avenue Gustave Eiffel  
Bâtiment B16  
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www.mascara-nt.fr

**M. Marc VERGNET**  
Président  
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s.malgouyres@  
mascara-nt.fr

Staff:  
**15 persons**  
Turnover : **700 000 €**  
International turnover: **700 000 €**

# MÉZAGRI

Component manufacturers - Manufacturer



Soils remediation  
Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

Mézagri is a production and engineering company which develop and sell micro-organisms selections, composed by bacteria and fungi, stem from plant compost, for agricultural and horticulture market, which have the following properties:

- Improving the soil quality especially its physical properties (texture, structure, increase in soil water holding capacity), chemical properties (humus formation, clay-humic complex improvement, increase in soil CEC) and biological properties (increase in micro-organisms biodiversity),
- Water quality preservation by reducing the nitrogen and phosphorus leaching, that causes the surface and groundwater eutrophication,
- Reduction of soil salinity,
- Atmospheric nitrogen and CO2 fixation by symbiotic bacteria, and autotrophic microorganisms respectively, increasing the soil nitrogen and carbon stock,
- Improving plant nutrition (water and nutrients), through mycorrhizae and bacteria symbiosis with roots, allowing to reduce water and fertilizer application
- Reduction of chemical treatment application, due to stronger plants that are more resistant to plant diseases,
- Composting and valorization of organic matter and effluents into humus for: slurry, manure, waste water treatment sludge, fish farms sludge, methanization digestate,
- Improving the air quality by limiting the nitrogen and CO2 volatilization during organic matter storage, allowing to reduce the bad smells.

Among the products created by the Marcel Mezy technologies®, the Bactériosol® and Bactériolit®, which are organic soil amendment certified conform to the NFU 44-051 and the US National Organic Program, are sold by the SOBAC and MEZAMONDE Company.

## References

- Grassland: Better crop yields, increase in nutritive values and soil quality - Agra-Ost Research Center, Belgium 2001-2016
- Water field irrigation decreased by 33%
- Nitrate leaching decreased by 30% and humic acids X2 - EuropSols
- Soil salinity decreased by 40%, soil organic matter x2, leaves and roots development x2 and mycorrhizae x2 - Marrakech University, Morocco 2006
- Compost: dry matter losses decreased by 50 %, and nitrogen fixing x2 - AgroParisTech 2010
- Manure: dry matter losses decreased by 40% and improvement of manures quality for field valorization - INRA - France - 2002
- Methanization: methane production X 3 - Biocritt
- Ammoniac losses decreased by 82 % in the farm's building air and 39 % more organic nitrogen stored in manure, available for the crops: French Institute for Poultry Farming - 2007.
- Carbon balance: 2.3 times less carbon used for the production than with nitrogen fertilizers - AgroParisTech Grignon 2006

## Certifications, labels or prizes

Organic soil amendments certified conform to the NFU 44-051 and the US National Organic Program.

Gold INEL 2013: Officially recognized by the French Environment and Agriculture Ministries as a technology to transform farm wastes into standardized soil improvers.

Occitanie Area Favorite 2016 Price of the PME Trophy Bougeons-Nous of RMC

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Managing Director  
Phone : +(33) 5 65 47 93 80  
Fax : +(33) 5 65 47 93 81  
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Staff:  
42 persons  
Turnover: 7 M€  
International turnover: 500 000 €



# MIRSENSE

Component manufacturers - Manufacturer



Air quality and odor control

## Activities

MultiSense is the world's smallest QCL-based gas analyzer. Each module fits in the palm of a hand and can measure two molecules, down to sub-ppm levels in less than one second. Applications are for stack emission monitoring, air quality or industrial process. The multiSense combines two technological patented bricks: infrared quantum cascade lasers (QCL) and a photoacoustics cell. The great advantage of QCL lasers is that they shoot in the mid-infrared, the fingerprint region where molecules are highly detectable. MultiSense is more robust and compact than multi-pass cells, requires no maintenance and has less cross-interference than traditional NDIR techniques. Interface is done through Modbus communication protocol or through a friendly user software for the lab-version demo kit. The modules are customized depending on the client's needs for OEM integration. If required, MirSense can also manufacture just the QCL lasers for OEM integration.

## References

### IN FRANCE

- Industrial R&D labs
- Scientific university R&D labs
- Factory for process control
- Automotive companies
- Manufacturer of gas analyzers
- Manufacturer of lasers

### INTERNATIONAL

- Fabriquant de baies d'analyse de gaz
- Laboratoires de recherche scientifiques universitaires



© MIRSENSE

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**CEO**  
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[mirsense.com](http://mirsense.com)

**Staff:**  
**20 persons**  
 Turnover : **600 000 €**  
 International turnover: **>50% du CA**

# MISSION INTERNATIONALE

Service Company



Environmental development

## Activities

Mission International supports you at every step of your internationalization process towards French-speaking countries or zones, gateways to the international scene.

### Strategy

- International acceleration plan
- Exploratory market assessment mission
- Study of growth opportunities

### Establishment

- Legal and financial support
- Partner search
- Subsidiary creation

### Development

- Turnover development
- Coordination with selected partners
- Strategic monitoring and lobbying

A unique and experienced local contact who advises, coordinates and executes the whole process of internationalization of your company.

You benefit from the credibility of our network of qualified experts, stakeholders and high-level partners from the private and public sectors (business leaders, doctors, engineers, researchers, experienced professionals, colleges, economic groups, etc...).

### Meetings - Events

For more than 10 years with its partners, Mission Internationale offers conferences, business delegations and the « Rencontres d’Affaires Francophones » (Francophone Business Meeting) [www.rencontres-affaires-francophones.com](http://www.rencontres-affaires-francophones.com), the annual francophone business meeting in France bringing together business leaders multi-sectors of activity, private partners, French and Francophone institutional organizations.

## References

Airbus, Airbus Helicopters, Deverymare, Intespace, Latécoère, Leroy Automation, Orpi, Safra, Solvéo Energie, Total, Vinci ... and many other SMEs, SMIs, ETIs into individual accompaniment as well as organizing and conducting conferences on international trade-related topics.

8, Esplanade Compans  
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Staff:  
50 persons



# MODULO BÉTON

Engineering office - Engineering - Equipment manufacturer -  
Manufacturer



## Activities

MODULO BÉTON leader in designing and building modular waste recycling and collection platforms. In 2004, Modulo Béton in France patented a first solution, enabling our clients to get in operation, in a few weeks only, a waste recycling and collection platform (HWRC). Since then, we developed the concept in many ways, including environmental advisory. Modulo Béton has been created in France in 2004 and is a specialist in designing and installing modular concrete buildings. Its division dedicated to Environment, Modulo Béton Environment creates innovative, modular and circular

environmental waste recycling infrastructures, all around the world. Thanks to the flexible construction method, waste collection sites are built in a way that can be adapted, removed, moved and reused over time. Depending on the changing environmental and legislative requirements. With maximum space utilization under the platform and minimal (capital) costs. Efficient and effective. The future is modular, the future is circular.



© MODULO BÉTON

Waste

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Staff:  
5 persons

# MORPHOSIS

Service Company



Waste management

## Activities

Morphosis is one of the leaders in the extraction and the refining of rare and precious metals mainly originating from various electrical and electronic pieces of equipment in Europe. Our trade is to turn your wastes, production scrap or out of order equipment into reusable raw material (Metal purity of 99,99% for the manufacture of new products or equipment.

Our corporate culture is focused on innovation, listening to our customers, the excellence of our work and the quality of our customer relationship.

Morphosis organized its structure to be able to meet its commitments, as well as its partners', customers' and suppliers' requirements. Morphosis built a lot of partnerships in Africa. We are working with Sonatel in a few countries in Africa on the E-waste recycling. We have also collaborated with Orange business Services in more than 170 countries all around the world. Morphosis can organise all the step of ewaste recycling from the collection to the metal refining.



© Morphosis

Droits réservés Olivier Roche /2015

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Directeur Général  
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Staff:  
50 persons



# MYJOLEBOX

Component manufacturers - Manufacturer

MYJOLEBOX

JOIN US FOR A FANTASTIC ENERGY STORY



Energy efficiency  
Renewables energies  
Sustainable urban planning

## Activities

MyJouleBox develops innovative software and hardware solutions to access solar electricity through leasing.

Our solution allows to West African populations to access solar energy at a lower cost through a real investment.

Our solutions allows to sell solar systems from 50 Wp to 25 kWp in AC and DC power.

Research and Development is our priority with more than 50% of our expenses dedicated to the development of our innovative and non-existent solutions.

Our systems are used in more than 6 African countries.



© Myjoulebox

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Staff:  
2 persons

# NAVAL ENERGIES

Component manufacturers - Manufacturer



Renewables energies  
Water infrastructure

## Activities

Naval Energies is a world actor in Marine Renewable Energies (MRE). Present throughout the product life cycle, Naval Energies controls the entire value chain, from design to manufacturing, installation, connection and maintenance, using the energy of the oceans coming from tidal currents, wind and from the temperature difference between hot surface water and cold deep water. The development of Naval Energies is today structured around three marine renewable energy technologies: tidal turbines, floating wind turbines and Ocean Thermal Energy Conversion.

## References

As innovation is a key element in this new technology sector, the company's development is supported by R&D investments. Naval Energies' expertise is based in particular on the historical know-how of Naval Group, a specialist in the production of complex systems for the marine environment. This multiple know-how fosters business development opportunities in a fast-growing global market.

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[naval-group.com](http://naval-group.com)

Staff:  
**220 persons**





Water infrastructure  
Sustainable urbanism

## Activities

Nke group is a manufacturer of real time electronics instruments to measure water quality parameters at surface and deep.

A sister subsidiary design and manufacture wireless sensors in Lora and Sigfox technologies for smart building and cities .

35 engineers are involved in R & D.

## References

NKE INSTRUMENTATION export 52 % of his product in China, India, Japan...



© NKE



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M. Jean-Claude  
LE BLEIS  
CEO  
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Staff:  
86 persons

# NUMTECH

Design Office - Engineering



Air quality and odours control  
Risk

## Activities

NUMTECH offers customized solutions for:

- the modelling of atmospheric releases emitted by industrial facilities,
- the management of odour issues,
- the assessment of the impact of transportation infrastructure projects,
- the modelling of the influence of urban development projects on users' climate comfort,
- air quality management in cities or in proximity of industries thanks to monitoring, forecasting and decision-support tools,
- the modelling of air quality in facilities or in the public establishments,
- health risk assessment and interpretation of the state of the environment,
- the providing of indicators for the protection of people's health in their daily journeys and activities.

With more than 18 years of experience in air quality, meteorology and health, NUMTECH stands out as a leader in the management of air quality protection issues in both urban and industrial environments, and now exports its know-how abroad (Morocco, United Arab Emirates, Romania, etc.).

## References

### IN FRANCE

- industrial companies: TOTAL, AREVA, E.D.F, SUEZ, MICHELIN, TECHNIP, SOLVAY, VEOLIA, ALBIOMA...
- public and private consulting engineering offices: DEKRA, APAVE, BURGEAP, CEREMA, EGIS, ARCADIS...
- air quality monitoring agencies: AIR BREIZH, AIR PAYS DE LA LOIRE, ATMOSF'AIR BOURGOGNE FRANCHE-COMTÉ, ATMO OCCITANIE, ATMO NOUVELLE-AQUITAINE, AIRPARIF, ATMO GRAND EST, ATMO AUVERGNE-RHÔNE-ALPES, AtmoSud, Direction de la Météorologie Nationale (Morocco), INAMET (Angola), ANPE (Tunisia), CITET-Tunisie, EPSS of Dubai Municipality...
- public bodies and agencies: HCSP (High Public Health Committee), ANSES (French Agency for Food, Environmental and Occupational Health & Safety), DRJSCS (Regional Directorate of Youth, Sports and Social Cohesion), ARS (Regional Health Agency), INERIS (French National Institute for Environmental Technology and Hazards), Santé publique France...
- research bodies: public as C.E.A., ADEME, CNRS-INSU or private as CReS (TOTAL) for example.

### INTERNATIONAL

- EDF, SUEZ ENVIRONNEMENT GROUP, TOTAL, MICHELIN, TECHNIP, CITET, NATIONAL METEOROLOGY AND GEOPHYSICS INSTITUTE (INAMET-ANGOLA), LPEE, DUBAI MUNICIPALITY, Moroccan National Directorate of Meteorology (DMN), OCP GROUP...

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Staff:  
15 persons  
Turnover : 1,1 M€  
International turnover : 107 000 €



# ODYSSEE ENVIRONNEMENT

Industrial water treatment - Engineering



## Activities

ODYSSEE Environnement

Our profession : Hydroethicist

ODYSSEE Environnement meets the requirements of every modern industrial hydraulic installation thanks to multiple innovative and environmentally friendly solutions. Our trade is born from transdisciplinarity and sharing of knowledge. Hydroethics is the choice, the RIGHT CHOICE for installations.

## References

### IN FRANCE

- ENGIE, DALKIA, RENAULT, PEUGEOT, Agri-food sector / Chemistry / cosmetic / heavy industry / Tertiary sector / Collective housing

### INTERNATIONAL

- distribution network in Europe, Africa, United States, Canada and Mexico.

JOIN OUR POLYAMINES TEAM

ANTIOXIDANT, PROTECTIVE, SAFE

## Water systems also have their anti-aging care

[www.odyssee-environnement.fr](http://www.odyssee-environnement.fr)

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**Deputy Director General**  
Phone : + (33) 6 75 20 22 99  
[j.mougel@odymail.fr](mailto:j.mougel@odymail.fr)

**Staff:**  
**60 persons**  
Annual sales turnover : **10 M€**  
Export turnover : **800 000 €**

# OPTIMISE

Design Office - Engineering - Service Company



Energy efficiency

## Activities

OPTIMISE is a research office dedicated to developing individual solutions for industries' problems in terms of thermal processes, their optimisation and development. OPTIMISE identifies the sources of improvement and develops adapted solutions.

Challenges: Improve productivity, Improve product quality and the reliability of the equipment. Reduce energy costs and the maintenance bills; reduce polluting emissions.

Market: OPTIMISE offers its expertise to all types of industries, whether small or large, private or public, in France or abroad: power suppliers, iron and steel industries, aluminium, biomass industries, quarries, research departments...

Expertise:

- Thermal and energy audits (plants, workshop or process); optimisation of the processes.
- Studies on combustion, thermal transfers, fluid mechanics, burners and special combustion.
- R&D, experimental studies; 3D simulation and modelling, computational simulation on fluid mechanics and thermal transfers.

## References

### IN FRANCE

- EDF (CIPN de Marseille, CPT de Dunkerque, Richemont) - ALCAN RTA LRF (Saint Jean de Maurienne) - AUBERT et DUVAL Pamiers) - ONERA (Modane) - DALKIA (EES Ebange, Dunkerque) - ASCOMETAL (Fos sur Mer) - INDUSTRIEL France (Le Creusot, Chateaufneuf) - UGINE (Imphy, Ugine) - Saint Gobain (Pont a Mousson) - ARCELORMITTAL (Florange, Dunkerque, Fos sur Mer - ALCAN RTA (Issoire, Neuf-Brisach) - SITA MOS (Mably, Cusset, Satolas, Donzère) - SAMIN (Chanac, Tacon) - SIMAT (Rodez) - CARMEUSE (Verfeuil, Orthez) - SIBELCO (Montgru).-CLEIA

### INTERNATIONAL

- INDUSTRIEL (Belgium) - ARCELORMITTAL (Luxembourg, Bosnie) - KIMMCO (Kuwait).-EU-ROPEM (Belgium).- Rio Tinto Alcan (Canada)

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Management Studies  
and Research Developments

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Staff:  
5 persons

Turnover : 265 000€  
International turnover : 180 000 €



# ORAXYS Private Equity

Service Company



Soils remediation  
Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Noise and vibration  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

### CAPITAL FOR SUSTAINABLE IMPACT

ORAXYS is one of the first EUROPEAN PRIVATE EQUITY firms specialized in growth capital investments for companies that market products or services with a positive impact in terms of:

- ENVIRONMENT: CO2 management – Reduction of toxic elements – Biodegradability
- ENERGY: Renewable – Energy efficiency – Reserves, storage and conservation
- PUBLIC HEALTH: Protection of populations – Prevention of virus, bacteria and pollutions

### PARTNER TO ACCELERATE GROWTH

SHAREHOLDER WITH A STRONG ADDED VALUE, mostly with a minority stake, ORAXYS invests in equity or quasi-equity with investment amounts per company ranging from EUR 3 to 20 million.

### ADDED-VALUE FROM SEASONED LEADERS

THE STRATEGIC PARTNERS of ORAXYS are former Managing Directors of European industrial groups (Chemistry, Materials, Food, etc). They are recognized experts in their industry and financially committed. They are involved in twin-teams with the Private Equity Partners to share business experiences and broad international networks : Europe, North America, Middle East, South-East Asia, India, China.

## References

### IN FRANCE

- OSEO

### INTERNATIONAL

- Ministry of Environment in Switzerland, SenterNovem in The Netherlands, Ministry of Economy in Luxembourg, Ministry of Research in Belgium.



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Staff:  
5 persons

# PARTNERING ROBOTICS

Component manufacturers - Manufacturer



Air quality and odours control

## Activitie

Diya One X is a mobile and autonomous robot who take care of people in indoor environments: offices, hospitals, shopping centers, airports, train station, etc. Because indoor air quality is 10 more polluted than outside, Diya One X collects and analyses indoor air quality and purify it by cleaning 99,95% of its pollutants. This solution embeds CAMFIL filters (HEPA technology) and this is validated scientifically by the CSTB, a French and independent organization in air quality. Also, Diya One collects mobile data about physical parameters of well-being (temperature, humidity, sounds and luminosity lever and air quality). With this unique datas, square meter by square meter, we are creating innovative services to act on the parameters: indoor maps to detects pollutants, noises, etc. / energy efficiency / visualize this datas on screen on open spaces, etc.

## References

Galeries Lafayette, Banque de France, Société Générale, etc.

## Certifications, labels or prizes

- «CE» Marking



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Staff:  
40 persons



# PELLENC ST

Component manufacturers - Manufacturer



Waste management

## Activities

Pellenc ST designs, produces and sells optical sorting equipment for waste treatment and the recycling industries. Our technology sorts and recovers materials from various waste sectors including, selective collection, municipal solid waste, industrial, electronics, automotive and construction waste. Infrared spectrometry, visible spectrometry, x-ray transmission and inductive sensing are the embedded technologies used to sort the materials and our technology can be found in operation in more than 40 countries around the world.

Based on proprietary R&D and «Made in France» manufacturing, Pellenc ST offers equipment that is robust and easy-to-use. The company develops methods and quality control processes. Pellenc ST is certified ISO 14001, ISO 18001 and ISO 9001. The Mistral+ machines for CE and UL/CSA Full Package version are now certified by TÜV Rheinland, the leading international body for certification of safety and quality for products, services and management systems.

With over 1 500 machines installed worldwide, the Pellenc ST network benefits from local team specially dedicated to the customers satisfaction. Our sales and customers teams support their partners with specific expertise to optimize their sorting line. Our hotline responds 24/7 and our service engineers travel worldwide to guarantee the highest level of performance and availability.

## References

Pellenc ST has installed machines in more than 40 countries.

### IN FRANCE

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

### INTERNATIONAL

- **UK:** Shanks – Veolia – Viridor - Impetus – Suez – Cory- New Earth Solutions
- **Italy:** Ecotecnica- Akron - Ambiente - Nappi
- **Spain:** Salto Del Negro – Urbaser – Ecoparc - Banales
- **Japan:** Re-Pallett - FPCO - TKS
- **Brazil:** Ecourbis – Loga
- **Mexico:** Petstar
- **Turkey:** Cevre PET – Apeks
- **Poland:** Veolia Jaroszow -WodKan Biala Podlaska
- **Canada:** Via – Gaudreau
- **USA:** Titus – Wellman Recycling – CPR - Clear Path Recycling



© Pellenc ST

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Staff:  
150 persons

Turnover : 30 M€  
International turnover: 20 M€

# POWERTECH SYSTEMS

Design Office - Engineering -  
Component manufacturers - Manufacturer



Energy efficiency  
Renewables energies  
Sustainable urban planning

## Activities

PowerTech Systems offers Lithium-Ion storage solutions. We design and market a range of power batteries (> 1KW) covering the widest range of 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 necessary to satisfy our customers. Our aim is to develop and distribute high-performance and environmentally friendly products, unlike old-generation batteries (Lead, Nickel, etc.), which, despite their low performance, are extremely harmful to the planet and difficult to recycle.

## References

DUCASSE Sur Seine, ALSTOM transport, Airbus helicopters, IRSTEA, Powidian, SPIE, SITES, Naïo Technologies, LIBERVIT, SFMNI, INRIA (Institut National de Recherche en Informatique et en Automatique), REXEL, Groupe SUEZ, CEA (Commissariat à l'Énergie Atomique et aux Énergies Alternatives)...

## Certifications, labels or prizes

- Young Innovative Comany (YIC)
- Lithium Ion storage systems Certified by Bureau Veritas Marine & OffShore
- Products certified : ROHS, UN38.3, CE

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Staff:  
8 persons

# POWIDIAN

Component manufacturers - Manufacturer  
Design Office - Engineering



Renewables energies

## Activities

PowidDian is a start-up spin-off Airbus Defence & Space.

After an Airbus 4 years / 10 M€ R&D programs, mastering disruptive and patented technologies, we design smart autonomous green energy stations, from 100 W to 500 kW, stationary or mobile, using all type of renewable energies and implementing, with a lot of software intelligence, an innovative storage (Li-ion batteries and/or hydrogen).

Designed for isolated sites or equipment, critical infrastructures or eco-buildings, our energy stations provide, anytime, anywhere, a reliable and non-polluting power.

In two years, PowidDian, awarded by the COP 21 trophy, has already prestigious customers as EDF (French national utility and one of the biggest in the world), the National Park of La Vanoise (Alps), The French Directorate General of Armaments, the French military police, the French Air Force, Galéo Promotion (real-estate promoter, positive energy buildings).

## References

### IN FRANCE

- RENESTA: European program for the development of a smart autonomous green energy station.
- Autonomous green energy station of the Palet refuge, National Park of La Vanoise (French Alps).
- Energy solution for the “Convoy Protection” System of Airbus Defence & Space.
- Energy solution for autonomous advanced military weather stations for MOSS (subsidiary of Thales and Airbus Defence & Space).
- Autonomous green energy station for the village of Mafate, La Réunion island, for EDF utility
- Energy systems for french military police telecoms relays.
- Autonomous green energy station for an energy positive office building.

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Staff:  
**16 persons**  
Turnover : **400 000€**  
International turnover: **250 000€**

# R&O DÉPOLLUTION

Component manufacturers - Manufacturer



Water infrastructure

## Activities

For more than 30 years, R&O Dépollution has been designing high quality equipment dedicated to the treatment of domestic and industrial waste waters.

The expertise of R&O Dépollution is based on the design, manufacture and the implementation of electromechanical waste water equipment.

R&O Dépollution is the inventor of patented grease removal turbines AEROFLO®, leading on this market and has more than 12 000 references in France and worldwide.

R&O Dépollution offers a wide range of waste water equipment, from pre-treatment to biological phase and sludge treatment, such as:

- Degreasing turbines AEROFLO® ;
- Solar dryer systems soleReO and aerobic digestors Thermaer;
- Hydraulic and spiral press (screenings press and compactor);
- Rotating screens with internal or external feeding, automatic vertical screens;
- Sand classifier and screw conveyor;
- Dissolved air flotation unit FLOTTAFLO® and dynamic aerated grease removal system.

## References

### IN FRANCE

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

### INTERNATIONAL

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

## Certifications, labels or prizes

- ISO 9001-2008

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Staff:  
8 persons  
Turnover : 3,5 M€  
International turnover : 950 000 €



# SAFRA

Renovation - Manufacturer



Energy efficiency  
Environmental development  
Sustainable urban planning

## Activities

SAFRA specializes in public transport equipment, around 2 activities: renovation and manufacturing. The Renovation activity offers equipping, fitting out, and heavy maintenance services for urban transport vehicles (buses, tramways, subways and rail cars). The Manufacturing activity manufactures and sells a range of urban buses, the Businova, available in 3 sizes (9.5m, 10.5m and 12m) and in 4 engines (rechargeable electric hybrid, full electric with slow or fast charging system, and hydrogen).

## References

With more than 60 years of experience in the public transport sector, and more than 180 customers who trust them, the Public Transport Equipment department and the Manufacturer department carry out more than 120,000 production hours each year. The SAFRA teams are capable of carrying out all types of contracts, from project management studies to complete realization.

## Certifications, labels or prizes

- Certificated in ISO 9001 version 2015

SAFRA received in 2014 the innovation prize in the Energy/ environment category at the European Mobility Exhibition, and in June 2017, the « Grand prix des bonnes nouvelles du territoire » in the « entreprise marchande » category, by MMA Fondation Entrepreneurs.



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Staff:  
230 persons  
Turnover : 23 M€

# SAGE ENGINEERING

Design Office - Engineering



Waste

## Activities

Sage Engineering is a consulting company specialised in project management and consulting to all public institutions, and local authorities in France and abroad.

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

Sage Engineering operates in several areas:

- waste management : pre-collection, collection, recovery of materials, recycling, organic recovery, energy recovery, preparation and combustion of RDF, landfill,
- energy management by optimising the energy recovery of the different processes (connection to urban and industrial heating networks, fatal heat recovery processes...),
- water management.

SAGE ENGINEERING is continuously developing its knowledge and its know-how, thanks to a performing technological watch and by responding to its clients' concerns.

Innovation and research are at the core of its activities, enabling to perfectly adjust its answers to its clients' issues, and answering to the following objectives:

- To offer a long term cooperation to support public institutions in realising their main environmental projects,
- To understand the projects of its customers in their entirety, in order to provide perfectly tailored solutions,
- To share its creativity, based on constantly updated knowledge, skills and feedback.

## References

Leading company in local authorities consulting for French environmental issues, SAGE ENGINEERING is more and more developing its activities abroad, exporting its methods and its know-how to local authorities and in collaboration with local partner and representative companies.

Its wish: developing with its futures international clients long term partnerships on waste and energy management.

MAIN INTERNATIONAL REFERENCES:

- Waste disposal site rehabilitation study – Duran (Ecuador)
- Waste treatment technologies study – Beiruth (Lebanon)
- Waste management masterplan – Guayaquil (Ecuador)
- Feasibility study for a waste recovery plant – Sandiara (Senegal)
- Waste management masterplan – Tshwane (South Africa)

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Leader  
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Staff:  
18 persons



# SERVITHEN

Component manufacturers - Manufacturer -  
Design Office - Engineering



## Activities

SERVITHEN, an engineering company that acts in the thermal and environmental fields, has been created in 1986. Initially focalized in the audit, expertise and revamping of existing installations, SERVITHEN has extended its services in the supply of complete lines of waste incineration together with gas treatment and purification units, which include: furnaces, venturi scrubbers, cooling tower, neutralization towers, wet electrostatic precipitator and dry gas treatment equipments such as cyclones and bag filters.

SERVITHEN is able to solve an environmental problem such as the reduction of pollutant

content in a flue gas prior to its dispersion in the atmosphere.

SERVITHEN is involved in: Household and industrial wastes incineration processes, Sludge incineration processes, Thermal treatment of gaseous and liquid residues, Heat recovery processes, Gas treatment and purification prior to rejection in the atmosphere, Activation of charcoal and regeneration of activated carbon.

Air quality and odours control

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Staff:  
**6 persons**

Turnover: **17 M€**  
International turnover: **400 000 €**

# SOBAC

Component manufacturers - Manufacturer



Soils remediation  
Air quality and odours control  
Biodiversity and landscape  
Energy efficiency  
Environmental development  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

SOBAC produces and commercializes an innovating process based on microorganisms. It aims for the quality of soils, water and air, for agriculture, gardens and green areas, methanization; reduction of Green House Gases;

- Soil regeneration, autonomy of production, soil quality, humus production, soil fertility and structure improvements, erosion prevention, biodiversity development in wild and cultivated lands, improved farm gross margin
- Water quality: biological process for protection of water resources and sludge treatments
- Waste management: compost and biogas production
- Recycling of organic matter and production of standardized organic soil improvers
- Air quality and smells control
- Innovating process with microorganisms
- Sustainable urban planning: ecological management of green spaces

## References

- + 14 % profit margin and autonomy in farms – Pr Mazoyer – Agro Paris tech
- - 82 % NH3 losses through gaz emanation inside farm buildings and + 39 % organic nitrogen available in the manure for the crops - French Institute of Poultry Farming (ITAVI)
- - 30 % nitrate leaching and x 2 humic acids – EuropSols
- -Composts: - 50 % losses of dry matter, improved fertilizing values ( x 2 N), less atmosphere contamination – Grignon Agro Paris Tech
- x 3 Methane production – Biocritt

- Improvement of soil fertility, yields, nutritive values and use of N- Agra Ost Research Center, Belgium
- Fewer nitrates in potatoes tubers and improved yields – Oldenburg Agriculture Chamber, Germany
- Poor Soils: Improvement of soil structure and vegetable quality – fewer nitrates and diseases – CIFACITA –Cartagena University, Spain
- - 40 % soil salinity, x 2 organic matter, x 2 roots and leaves development and x 2 mycorrhiza – Marrakech University, Morocco
- + 14.8 % carbon and + 9.4 % nitrogen retained in the soil, Purpan Engineers School

## Certifications, labels or prizes

- Sustainable Development award 2015
- “Inel d’or” 2013: officially recognized by the French Environment and Agriculture Ministries as a technology which transforms farm wastes into standardized soil improvers
- 1st National Green Business award 2013
- 1st Sustainable development award 2012
- 1st Eco product Golden trophy 2009 (J Group – French Environment Ministry
- Certified ISO 9001 and ISO 14001
- Product suitable for Organic Agriculture according to EU and NOP-USA standards
- NF U44-051 compost production

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**Staff:**  
**130 persons**  
**Turnover : 31 M€**  
**International turnover: 2,035 M€**



# SOLVÉO ÉNERGIE

Design Office - Engineering - Service Company



Energy efficiency  
Renewables energies

## Activities

Solvéo Énergie, green electricity producer, develops, constructs and operates wind and solar renewable energy plants.

Solvéo Énergie develops projects in France and abroad.

Solvéo Énergie has a design office carrying out the engineering, including the Energy Management System when needed, and integrating all technical, administrative, regulatory and financial constraints.

Solvéo Énergie structures the financing and then executes the works.

Solvéo Énergie provides the maintenance and the supervision during the operating phase.

## References

### IN FRANCE

- 49MW of power plants in operation.
- 52MW of photovoltaic projects under development.
- 202MW of wind projects in development.
- Multi-source energy projects completed or in progress.

### INTERNATIONAL

- Projects of photovoltaic power plants and wind farms in development mainly in Guinea and in Morocco.
- Multi-source energy projects completed or in progress.
- Office in Morocco, in Casablanca.

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Mr  
Welcome  
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Staff:  
30 persons  
Turnover : 6,5 M€

# SORELEC

Design Office - Engineering -  
Component manufacturers - Manufacturer



## Activities

All the solar photovoltaic applications and in particular:

- Production of electricity grid connected.
- Electrification of isolated site.
- Lighting and road signs.
- Lighting, bus shed and advertising board.

## References

### IN FRANCE

- SPIE, COMPAGNIE GÉNÉRALE D'ÉLECTRICITÉ (CGED), COMPTOIR ELECTRIQUE FRANCAIS (CEF), COMPTOIR DU SUD OUEST (CSO), DÉFENSE NATIONALE, FORCLUM, DIRECTION DEPARTEMENTALE DE L'EQUIPEMENT, Various Municipalities, SNEF COTE D'AZUR, SYNDICAT DES EAUX, CITEOS, JC DECAUX, VEOLIA EAU, INEO, PROGELEC etc...

### INTERNATIONAL

- MSF SUPPLY (BELGIQUE), ABED ONG (BENIN), AFRIQUE SOLAIRE FORMATION (MALI, SENEGAL), LIBYE etc...

Renewables energies

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Staff:  
**4 persons**  
Turnover : **602 624 €**  
International turnover: **23 319 €**



# SUNCNIM

Component manufacturers - Manufacturer



Renewables energies

## Activities

SUNCNIM aims to develop, build and operate solar steam generator based on Fresnel technology for enhanced oil recovery (EOR) and industry.

In the coming years, SUNCNIM aspires to inter-nationally develop the CSP to become a major participant in this new production of renewable energy.

Longtime actor in the Concentrated Solar Power field, in 1982, CNIM, to which SUNCNIM depends at 55%, designed and manufactured the molten slats boiler for the Themis solar power station in the Pyrénées-Orientales in France.

In 2009, CNIM developed another technology in direct steam generation and inaugurated on July, 26th 2010 a concentrating solar pilot (to scale) with Fresnel technology on its La Seyne-sur-Mer site. The pilot is the first industrial pilot in Concentrated Solar Power technology which is operational on French soil.

Having won the French government solar contract at the end of July 2012, SUNCNIM is building and will operate for a period of twenty years a thermodynamic concentration power plant at Llo in the Pyrénées-Orientales. This CSP plant (9 MWe) will use SUNCNIM's «Fresnel mirror» technology.

## References

### IN FRANCE

- Themis solar boiler (tower)
- CSP pilot in La-Seyne-sur-Mer (Fresnel)
- eLLO - CSP plant at Llo (Fresnel) 9MWe + 4 hours storage

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Staff:  
**40 persons**

# SUNNA DESIGN

Component manufacturers - Manufacturer -  
Design Office - Engineering



Energy efficiency  
Renewables energies  
Sustainable urban planning

## Activities

Sunna designs and sells innovative LED solar lighting solutions, dedicated to public lighting. This young and innovative business started originally its activity in India in 2010. Its head office is currently located in Bordeaux, France.

Sunna's solutions address two main markets:

- Rural electrification, by developing solar streetlighting products for public spaces with little to no access to electricity;
- Energy efficiency in public streetlighting.

In this aim, Sunna's street lights are innovative and reliable: lighting service is guaranteed, thanks to lighting and energy management systems. Besides streetlights are sustainable, with a 10 years lifetime thanks to the NiMH batteries very heat resistant.

Sunna helps manage all aspects of a lighting project: photometric analysis (in respect of the international standards), light planning, custom sizing and programming, financial studies...

In order to optimize each of the system sub-elements (LED, photovoltaics, electrochemicals...) and the entire system itself, Sunna is at the forefront of an important effort into research and development in collaboration with well-known partners.

## References

### INTERNATIONAL

- Qualified by Schneider Electric;
- Zaatari Syrian Refugee Camp Lighting in Jordan with Électriciens Sans Frontières;
- Rural electrification and public lighting in India, Senegal, Cameroon, Nigeria, Morocco, Egypt,...

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Staff:  
**20 persons**  
International turnover: **95 %**

# SUNVIE SA

Design Office - Engineering - Service Company



Renewables energies

## Activities

SUNVIE SA is a solar project development company specialized on large projects targeted at industrial or commercial enterprises and local communities. We focus on integrating all necessary competencies needed to properly deliver solar projects, both thermal and photovoltaic projects, from the planning phase to the end financing.

Our services:

- Solar project advice;
- Project management;
- Turn key system (cf our Car park solution “Ombrières de parking photovoltaïques”);
- Solar plant project developer for our own account or for third party investors.

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pierre.morane@sunvie.eu

Staff:  
**5 persons**

# SUSTAIN'AIR

Integrator



Air quality and odours control  
Energy efficiency

## Activities

Sustain'air offers a very innovative HVAC system which allows very significant energy savings (up to -60%), unrivaled air quality (100% new air) and contributes also to the energy transition using renewable energy sources (solar thermal, urban heating network, waste heat...). Sustain'air has published an international patent in 2015. Our system is composed by a double-flow Air Handling Unit plus a bespoke regulation algorithm.

## References

We have several units in operation on different sites among which Les Ateliers de l'Opéra de Nice, but also an aquatic center in Villé (East of France). Limited export experience, but the potential is great because payback and return of our system are proportionally better where electricity costs are higher than in France. So, there is potential in numerous countries like Italy, Germany, Switzerland for example.

## Certifications, labels or prizes

Sustain'air won a call for project of Ministry of Ecology, Sustainable Development, and Energy during COP21: «Future of air-conditioning» managed by ADEME. Won also «SME Initiatives» of Projets d'Investissement d'Avenir (PIA). And it is a member of Sustainable Building competitiveness cluster "Fibres-Energivie" in Strasbourg. It signed a Research collaboration agreement with Nice Sophia Antipolis University lab.

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www.sustainair.fr

**Thierry LAMOUCHE**  
CEO and Founder

**Geoffroy GERMANO**  
General Manager

Phone: +(33) 7 82 09 42 66  
germano.geoffroy@  
sustainair.fr

Staff:  
6 persons





## Activities

SZLEPER HENRY AVOCATS law firm focuses on Intellectual Property Law (patent, trademark, design, copyright), unfair competition and Information Technology Law (data protection, software...).

Me HENRY intervenes for global companies as well as for SMEs in consulting (IP strategy, contracts, technologies transfers, consortium etc.) and litigation

Me HENRY is one of the most active lawyers in France in the field of intellectual property rights (IPR) related to green technologies.



## References

### IN FRANCE

Guillaume HENRY is the author of several publications on IPRs related to green technologies:

- « Green technologies and intellectual property: patents, trademarks, ecolabels », 2013, with the support of the ADEME.
- « Sustainable development and intellectual property. Access to technologies in developing countries », INPI (French Patent office), 2015.

### INTERNATIONAL

Guillaume HENRY benefits a worldwide network of colleagues in intellectual property.

Guillaume HENRY has been chair of the international committee 'GreenTech and Intellectual Property' of the AIPPI (Association for Protection of the Intellectual Property).

He participated to COP 21, COP 22 and COP 23.

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www.szleper-henry.com

Me Guillaume HENRY  
Advocate  
Phone : +(33) 1 56 88 28 28  
Fax : +(33) 1 56 88 28 29  
g.henry@szleper-henry.com

Staff:  
5 persons  
Turnover: 1 M€

# TAMI INDUSTRIES

Component manufacturers - Manufacturer



Water infrastructure

## Activities

**TAMI Industries** manufactures ceramic membranes used for molecular separation in liquids (microfiltration, ultrafiltration and fine ultrafiltration). The main interest of these membranes in addition to their long life span they resist to high temperature (steam sterilisable), extreme pH, solvents, oxydants and almost all other chemicals. They have a long life time. Furthermore TAMI Industries ceramic membranes offer furthermore a filtration surface area unsurpassed by any competitor. Due to these characteristics, ceramic crossflow membranes are used in different markets:

The use of membranes in environmental applications is becoming more common because it allows, in many cases, to reject effluent meeting the norms and recycle process water whilst eliminating their pollutant loads

It is possible, for example, through innovative processes developed by TAMI, to recycle the cleaning water of flexographic printing or degreasing baths for metal parts, direct to nature, to treat landfill leachates, effluents from industry, etc. ...

## References

More than 900 customers over the world

## Certifications, labels or prizes

- ISO 9001:2015



© Tami Industries

**Z.A Les Laurons CS 65**  
**26111 Nyons**  
**France**  
 Phone : +(33) 4 75 26 47 69  
 Fax : +(33) 4 75 26 47 87  
[www.tami-industries.com](http://www.tami-industries.com)

**Sales and Marketing departments**  
 Phone : +(33) 4 75 26 47 69  
 Fax : +(33) 4 75 26 47 87  
[tami-info@tami-industries.com](mailto:tami-info@tami-industries.com)  
 com

**Staff:**  
**15 persons**  
 International turnover: **90% overseas**



# TECHNISIM CONSULTANTS

Air quality



Air quality and odours control  
Noise and vibration  
Renewables energies  
Risk  
Sustainable urban planning  
Waste management

## Activities

TechniSim Consultants is specialized in the following fields:

- Modelling : Chronic and accidental atmospheric dispersions, (2D and 3D),
- Health risk assessment (inhalation, ingestion,...) studies for road and highway projects: initial state, Air Quality Index,
- Risk Assessment. Hazard studies: implementation of risk analysis in industrial facilities, preliminary risk analysis, bowtie, probabilistic approach, QRA.
- In situ measurements of gaseous pollutants and particulate matter (PM10 and PM2.5 –autonomous and connected micro laser sensor - IOT, ...) in ambient air.
- Odour studies – Olfactometry
- Light pollution (in situ measures and modelling)
- ATEX study, Environmental acoustic study (industry, roads): in situ measures and noise map modelling. Study of regulatory thermal flux.
- Calculation of explosion scenarios, regulatory safety zone determination – BLEVE, UVCE, “Boil Over”, ...
- Toxic gas dispersion in case of accidental emanation (leak and loss of containment) of fire products.
- Determination of visibility loss.
- Sustainable development - Greenhouse gases emission assessment according to ADEME’s “Bilan Carbone®” methodology.
- Thermal and aeraulic modelling using Computational fluid dynamics (CFD)

[www.technisim.fr](http://www.technisim.fr)

## References

### IN FRANCE

Alpes Controles, Alpes Ingé, ANTEA, ASCONIT consultants, BERU TDA SAS, Brezillon, Cap Environnement, Cap Terre, CCI Drôme, CG 01, CG 51, CG06, Artelia, Dassault Aviation, DDE 54 / DDE 89, DREAL, Direct Energie, DGAC, Dispagri, EADS Apsys, EDF, ENTPE, EPAD, Faurecia, Ginger, Global Engineering, Hines, ICO Environnement, IDTP, INSA, Iris Conseil, Katoen Natie, Hines, Redman, Nexity, Altarea Cogedim, BPD Marignan, Ogic, Kaufman & Broad, KTT-IMA, La SNET, Municipality of Solaize, Mareva Filtration, Ministry of Defence, Plastival, Pöyry SAS, PSI Isosta, SAE Alsetex, SCE, SEPOC - Cabinet Merlin, Sepur, Semardel, Setec, SEVIA – SRRHU, SNPE,UCBL Lyon 1, Veolia,Vinci, Nice Cote d’Azur, Town of Paris, Marseille, Belfort, Vesoul, Cabries, Saran, Buchelay, Courbevoise,...

### INTERNATIONAL

La PAIX refinery (Ivory Coast), Mayotte Airport, Tunisia



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Director  
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Staff:  
**6 persons**  
International turnover : **30 %**

# TECHNO BAM

Design Office - Engineering - Service Company

QISTA  
Libérez-vous des moustiques



## Activities

TECHNO BAM a développée un produit de démoustification efficace qui n'utilise aucun produit toxique pour l'homme et son environnement.

TECHNO BAM a un haut degré d'innovation comme l'attestent les deux awards remportés en 2018 au CES de Las Vegas. La R&D tient une place primordiale dans leur activité. Cela leur

permet d'être, encore aujourd'hui, leader du marché.

TECHNO BAM collabore avec certaines collectivités publiques étrangères au Canada et en Espagne. Ils souhaitent continuer leur expansion vers l'international.

Sustainable urbanism



[www.qista.eu](http://www.qista.eu)

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Domaine du Petit Arbois  
13100 Aix-en-Provence  
France  
Phone : +(33) 4 84 47 02 80  
[www.qista.eu](http://www.qista.eu)

Co-fondateur  
Phone : +(33) 4 84 47 02 80  
[contact@qista.eu](mailto:contact@qista.eu)

Staff:  
8 persons



# TEQOYA

Component manufacturers - Manufacturer



Air quality and odours control

## Activities

Clean air is integral to our lives and should be available to all. However air pollution is one of the biggest challenges facing modern societies and is detrimentally impacting our lives, health and communities.

In 2014, TEQOYA embarked on a mission to provide clean air while respecting the environment. Our breakthrough innovation relies on air ionization and is based on patented technology developed through 15 years of research.

TEQOYA ionizers are 100% ozone free and respectful to the environment, performing continuous air purification silently. Our products are built to last – durable and sleek, they fit in seamlessly anywhere. TEQOYA is designed and manufactured in France using the highest quality components.

TEQOYA, introduced at CES 2015 in Las Vegas, winning at the French Touch 2016 Conference in New York, winner of Scientipôle Initiative and French Tech Tour China of Business France, offers air purifiers for homes, offices and cars.

Let TEQOYA help you live better by taking care of the air you breathe.

## References

[www.teqoya.com/tests/](http://www.teqoya.com/tests/)

## Certifications, labels or prizes

Winner of:

- French Touch Conference 2016 New York
- Scientipôle Initiative
- French Tech Tour China 2016 of Business France

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**M. Pierre GUITTON**  
President and CTO  
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Staff:  
**10 persons**

# TERAO

Design Office - Engineering



## Activities

TERAO is a French company providing consultancy services for green buildings. It can either work directly with the building owner or work as part of the design team. Its projects cover either new construction or renovation for all types of sectors: housing, offices, museums, sports facilities, health facilities, factories, retail, etc... TERAO masters the main green certification schemes: HQE, BREEAM, LEED, 3-stars (China). TERAO can work in 6 languages: French, English, Spanish, Portuguese, Arabic, Chinese. It has offices in Paris, Lyon, Shanghai and Bogota. TERAO is a founding member of UMO, a consortium of engineering companies covering all types of expertise for green cities.

## References

### IN FRANCE

Fondation Louis Vuitton, Offices of Dassault Systèmes, Offices of MANUTAN, Zénith de Limoges, Renovation of Carreau du Temple in Paris, Logistics Building of LR Services, Lycée François 1er in Fontainebleau, Sustainable urban planning in Poitiers, etc.

### INTERNATIONAL

Energy efficiency and sustainable development program in Chinese construction (1999-2008): Project Manager 1999-2004, scientific advisor 2005 - 2008. In charge of technical studies for the financing of thermal rehabilitation programs in existing buildings, in the province of Hubei (China). Olympic center at Hangzhou with Arep, BIC factory in Nantong with SIP, etc.

Energy efficiency  
Renewables energies  
Sustainable urban planning

10 cité de Trévis

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M. Michel RAOUST

Gérant

Phone : +(33) 1 42 46 06 63

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Staff:

30 persons

Turnover : 2,2 M€

International turnover: 30%



# TISSEYRE+ASSOCIÉS

Design Office - Engineering - Service Company

Tisseyre + Associés  
INGENIERIE ACOUSTIQUE



Bruit et vibration

## Activities

Tisseyre+Associés propose an international acoustical engineering and consultancy service based on their references in large projects.

- Adequacy of an acoustic design adapted to the architect's design
- Optimised prescriptions: materials and works
- Guarantee of results in conformity with the objectives
- Development and thus control of innovative materials: design and application of custom-made acoustical architectural solutions
- Assistance to industrialists and test laboratories for the certification of products
- Assistance to engineering and design departments through an on line acoustic calculation centre.

## References

### IN FRANCE

- Neuilly-sur-Seine: Theatre and music school.
- Le Havre: Congress Hall Docks Cafe, complete technical assistance to owner.
- Bordeaux ZAC belvedere: re-composition of urban soundscape.
- Monaco : Hospital Princess Grace.

### INTERNATIONAL

- China: Acoustic design of the Guotai Cultural centre in Chongqing, Ying Kou concert hall and traditional Chinese Opera House with music school in Beijing.
- Saudi Arabia: Conference centre in Jeddah, acoustic and electro-acoustics design, hotels and multipurpose halls in the city of Mecca, acoustic design.
- Morocco: Development of the acoustical technical specifications for the large projects (regulations). Five stars Rotana Hotel in Rabat, Parliament Rabat Acoustics and Multimedia, Dance and Music School Rabat.

## Certifications, labels or prizes

- OPQIBI Qualifications

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Staff:  
7 persons  
Turnover : 625 000 €  
International turnover : 145 000 €

# TMW SA

Component manufacturers - Manufacturer



## Activities

A French company with international scope and dedicated to pure water production, TMW has developed a proprietary innovative and low cost technology for seawater and industrial wastewater, MHD – Multistage Humidification-Dehumidification.

Backed by a group of individual investors and a team of 10 people, the company has invested almost 5 million euros to develop this technology.

TMW now offer three sets of equipments for sale : Ecostill™ for industrial wastewater evaporation, Aquastill™ for sea & brackish water desalination, and TET plastic plate heat exchangers for corrosive fluids.

## References

### IN FRANCE

- Alfa Laval, CANON, ORTEC, Spi Aero, Tanneries Rougy, TMN, TMC, Veolia..

### INTERNATIONAL

- MICROBAC (UK), ALMIT (UK), AORASOLAR (Sp), NGL (CH).

Waste management  
Water infrastructure

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tmw-technologies.com

Staff:  
20 persons  
Turnover : 500 000€  
International turnover: 100 000 €



# TRIDENT SERVICE

Design Office - Engineering



Environmental development  
Waste management

## Activities

Waste management plan. Audit conforming to regulation, works on sites to reach standards, ISO14001. Audit of waste collection systems, waste collection optimization (bins, trucks and turns). Audit of waste treatment facilities process optimisation. Project management « turn key contracts » for conception, realization of waste treatment plants: MUnicipal Recycling Facilities, commercial and demolition waste sorting plants, composting centers, Residue Derived Fuel preparation, Cement kiln incin ration, hospital wastes, hazardous wastes polluted soils and sediments. Waste trading and waste broking.

Our company is managed by old waste treatment site managers. We have the field experience of all kind waste (municipal and commercial wastes, collection and treatment). We always care about optimizing economical aspects and sustainable development in ours proposals

## References

### IN FRANCE

Study for ADEME about the adaptability of MURFS, Project management of the experimentation of extension of plastic sorting instructions for Eco-Emballages (French eco-organism in charge of the management of household packaging waste). Development of innovative tool : conception of a spray can piercer for waste sorting facilities for Eco-Emballages, Feasability studies for modernization of waste sorting facilities (Smictom d'Alsace centrale, Sircob, Sytradem) Technical and financial audit of waste sorting facilities (Sigidurs, Semardel).

### INTERNATIONAL

Waste analysis and design of MBT with RDF production (financial and economical analysis, application form and cost analysis for European Commission) for Sofia city (Bulgaria). Waste management plan for improvement of waste valorization in Tunisia. Preparation of the documents for the European tender to operate a landfill and two transfer stations associated in Northern Cyprus.

Creation of a regional centre of waste recovery and waste treatment in Donestk city (Ukraine).

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**M. Philippe LE GAL**  
Managing Director  
Phone : +(33) 9 70 59 01 01  
philippe.legal@tridentservice.com

Staff:  
**9 persons**

Turnover : **1,4 M€**  
International turnover : **700 000 €**

# URBASOLAR

Design Office - Engineering - Component manufacturers -  
Manufacturer - Service Company



## Activities

Urbasolar is an independent French group majority held by its managing founders, the #1 French photovoltaic pure player, whose goal is to contribute significantly to the battle against climate change through the massive development of photovoltaic technology. To this end, our group has adopted a growth strategy based on research and innovation, associated with the development of a strong industrial sector, and offers works that respond to the highest demands for quality, according to internationally recognized standards. This daily engagement allows us to offer, as of now, a kWh that is competitive and efficient in numerous regions around the world.

## References

### IN FRANCE

- AIRBUS - Groupe LA POSTE - SNCF - CARREFOUR- LIDL - CEMOI - KP1 - BOUYGUES

### INTERNATIONAL

- RAVATE - BUT - CONFORAMA - ONAS - KENYATTA UNIVERSITY

Renewables energies

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Staff:  
105 persons  
Turnover : 74.2 M€  
International turnover: 12 500 K€



# VALTERRA INTERNATIONAL CONSULTING

Design Office - Engineering - Service Company



Soils remediation  
Waste management  
Water infrastructure

## Activities

Subsidiary of VALTERRA ENVIRONNEMENT, French group (70 employees - 12 million CA), independent leader in the treatment and recovery of organic materials, VALTERRA INTERNATIONAL CONSULTING develops internationally its consulting, design, project management and commercial representation of the water and environment professions.

VALTERRA INTERNATIONAL CONSULTING provides companies wishing to develop in emerging markets technical support and commercial and governmental authorities of the countries concerned a complete engineering services, from the technical definition to the assistance to project management until the search for international financing.

VALTERRA INTERNATIONAL CONSULTING designs and develops more particularly urban and agro-industrial effluent treatment solutions such as the WATA SANITATION SYSTEM which enables public operators in emerging countries to improve the management of waste materials. VALTERRA INTERNATIONAL CONSULTING also distributes the KAPTA system developed by VEOLIA-NEROXIS designed for the monitoring of drinking water networks.



© VALTERRA INTERNATIONAL CONSULTING

## References

### INTERNATIONAL

Cameroon, Djibouti, Ethiopia, Benin, Togo, Mali, Algeria, Morocco, Qatar, Niger ...

- 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
- Audit mission in Morocco of composting platforms
- Audit of sewage treatment plants and sanitation in the Republic of Djibouti
- Installation of a waste material dump center at DJIBOUTI
- Design and construction of autonomous wastewater treatment plants (exclusive WATA SANITATION SYSTEM) in East Africa and West Africa

VALTERRA INTERNATIONAL CONSULTING is a member of the African Water Association and the French Investors Council in Africa.



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CEO  
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vic@valterra.fr

Staff:  
70 persons  
Turnover : 12 M€  
International turnover : 1 M€

# VERGNET GROUPE

Renewables energies - Water infrastructure



Renewables energies  
Water infrastructure

## Activities

Reliable Renewables : Wind, Solar, Hybrid and PV solutions

## References

VERGNET is a global renewable energy solutions company with over 25 years' experience in delivering high-performing, reliable and affordable clean energy turnkey projects worldwide.

With significant experience in completing hybrid projects in areas of isolated grids, VERGNET's patented and reliable hybrid solution, Hybrid Wizard™, maximises, in real time, renewable energy penetration, in any combination of wind, photovoltaic solar and battery storage, for new or existing diesel systems.

VERGNET helps plan complete renewable energy project – from the early development stages to securing financial solutions, ensuring to get the most from the investment in the long term.

The Group installed over 900 wind turbines worldwide, completed 365 MW projects (wind and solar) and developed a range of unique hybrid energy solutions. It is operating in over 40 countries and employs 166 people.

PHOTALIA, VERGNET's subsidiary, developed practical solutions to meet vital needs in water and energy of remote communities. It is specialised in photovoltaic solutions for solar pumping systems, electrochlorination, off-grid and hybrid power solutions for commercial and industrial applications.

## Certifications, labels or prizes

- ISO 9001:2008 Certificate
- WWEA (World Wind Energy Award)

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Export Sales Department  
Phone : +(33) 2 38 52 39 70  
Fax : +(33) 2 38 52 35 83  
export@vergnet.fr

Staff:  
166 persons

Turnover : 30 M€  
International turnover: 28,5 M€



# VISSMANN FAULQUEMONT

Component manufacturers - Manufacturer




Renewables energies

## Activities

VISSMANN Faulquemont factory (80 000 m<sup>2</sup> of production area) is the second industrial site of Viessmann Group which has 28 (1.9 billion turnover in 2011, 10 600 employees in the world).

The factory was created in 1972 and over the time became the competence center for water heating and solar thermal. Today, VISSMANN Faulquemont is not only the most experienced but also the biggest solar thermal manufacturer in France.

VISSMANN Faulquemont also means 550 employees (900 in total in France with the sales company).

The site has its own R&D center including test facilities for products performance and quality.

Since 2011, VISSMANN Faulquemont directly exports to South America, Africa and in overseas territories.

An engineer, technical front and back office, is based in Chile supporting the customers in all America Latina.

## References

VISSMANN Faulquemont has many references in solar thermal in the world: Germany, France, Poland, Turkey, USA, UAE, also ...

An installation was done in Mexico where two penitentiary centers were built by the Government and private companies. Viessmann has sold for these two prisons 2500 m<sup>2</sup> of solar flat collectors and 210 DHW cylinders of 1000 liters.

The installation of 20 solar systems was realized for a hotel in the Atacama Desert in Chile. Schools and medical centers are also equipped with Viessmann solar thermal products.

Installation for multi family dwellings was done in Morocco (500 apartments) and several projects are under construction in Kenya.

In La Reunion and Martinique/Guadeloupe, more than 4000 m<sup>2</sup> were sold and are in progress.

Production of Domestic Hot Water, from solar thermal energy, for some of the buildings of the Olympic village for Tokyo 2020

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Staff:  
**550 persons**  
 International turnover: **90%**

# WAGA ENERGY

Manufacturer



## Activities



Air quality and odours control  
Renewables energies  
Waste management

Waga Energy upgrades landfill gas into biomethane compliant with grid injection requirements. The result of a decade of research and development, its breakthrough technology, called WAGABOX<sup>®</sup>, makes it possible to produce biomethane from landfill gas. More than 90% of the methane contained in the landfill gas is delivered to the grid and the energy yields are three times those of burning gas to generate electricity.

WAGABOX<sup>®</sup> provides clean, local and renewable energy that substitutes to fossil natural gas for applications such as heating or transportation.

Waga Energy builds, owns and operates the WAGABOX<sup>®</sup> units under contracts with landfill owners. Six Wagabox<sup>®</sup> units will be operational by the end of 2018 with several others under construction. By the end of 2018, the WAGABOX<sup>®</sup> will offer a total capacity over 100 GWh per year.

## References

- **WAGABOX<sup>®</sup> 1**  
The first Wagabox<sup>®</sup> was commissioned on Feb. 14<sup>th</sup> 2017 in Saint-Florentin (Burgundy, France) on a landfill site operated by Coved (a subsidiary of Paprec Group). It produces renewable gas for about 3,000 households and avoids 4,000 tons of CO<sub>2</sub> emissions per year.
- **WAGABOX<sup>®</sup> 2**  
The second Wagabox<sup>®</sup> started on June 28<sup>th</sup>, 2017 in Saint-Maximin (north of Paris, France) on a landfill site operated by Suez. Wagabox<sup>®</sup> 2 provides renewable gas for about 3,000 households, avoiding 4,000 tons of CO<sub>2</sub> emissions per year.
- **WAGABOX<sup>®</sup> 3**  
The third Wagabox<sup>®</sup> is in Pavie (Gers, south western of France), on a landfill site operated by local authorities through a government agency called Trigone. Wagabox<sup>®</sup> 3 provides renewable gas for about 2,000 household, saving more 2,600 tons of CO<sub>2</sub> per year.

- **WAGABOX<sup>®</sup> 4**  
Wagabox<sup>®</sup> 4 started on November 6<sup>th</sup> 2018 in Saint-Palais (central of France), on a landfill site operated by Veolia. It provides renewable gas for about 3,000 households and avoids 4,000 tons of CO<sub>2</sub> emissions per year.
- **WAGABOX<sup>®</sup> 5**  
Wagabox<sup>®</sup> 5 started on November 13<sup>th</sup> 2018 in Gueltas (western of France), on a landfill site operated by Suez. It provides renewable gas for about 3,000 households and avoids 4,000 tons of CO<sub>2</sub> emissions per year.
- **WAGABOX<sup>®</sup> 6**  
Wagabox<sup>®</sup> 6 is under construction in Chevilly (central France), on a landfill site operated by Suez. It will be commissioned by December 2018.

## Certificats, labels or prizes

- “Invest in the Future” (the French government’s economic stimulus program)
- 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 Award
- 2016 Startup of the Year for the Auvergne-Rhône-Alpes region (EY/L’Express)



WAGABOX 2 (©WAGA ENERGY)

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waga-energy.com/

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Communication manager  
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waga-energy.com

Staff:  
20 persons





Air quality and odours control  
Energy efficiency  
Environmental development  
Renewables energies  
Sustainable urban planning  
Waste management  
Water infrastructure

## Activities

WeCo are the first eco-innovative autonomous flushing toilets. All the excrements are recycled on site into treated water for flushing and energy. We are developing the eco toilets of the future with a strong R&D and eco-design focus. We co-develop with Alstom a plug and play system, a cartridge for wasted water treatment in the train toilets and other public toilets.

More than 550 million m<sup>3</sup> of treated water are wasted each year in France in the flushes and an estimate of 29.1 trillion m<sup>3</sup> in the world. The only alternatives to save the water wasted in the usual seweraged toilets, are dry or chemical toilets.

Our technology converts urine and flush into treated water by electrochemical treatment: in a short period of time all the bacteria are killed and that clean and treated water is produced, which will be reused for flushing or for other uses (cleaning, watering ...). All the excrements are recycled on site: the faecal sludge is recycled into energy or compost. The toilets are non seweraged and autonomous. The energy is provided by the solar panels and batteries.

Our clients are: sustainable cities, touristic places, train or boats manufacturers, building sites, removable constructions, events agencies, toilets renters, emerging countries without sewerage, private companies, real estate promoters, architects, plants. Eventually we develop domestic wastewater treatment systems for individuals, private and domestic uses (houses).

We are partnering with the major engineering schools (CALTECH, ESPCI) and research centers for our R&D. We are members of several NGOs: Climate KIC, World Alliance, France Water Team, Institute of Sustainable City, ADEME international club, Construction21...

We have been awarded by the Bill & Melinda Gates Foundation and Chinese National Tourism Agency - Award for ecological and design toilets (2016), ADEME PEXE - eco-innovative company in water saving (2017), Construction 21 - Sustainable infrastructure (2018).

We are AFNOR and ISO experts for sanitation.

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Staff:  
10 persons

# XERIUS

Component manufacturers - Manufacturer



## Activities

Xerius has over 17 years' experience in radiofrequency engineering having worked in the military, aerospace and industrial fields. Xerius has developed more than 170 electronic products since its starts in 1999.

XeriusTracking provides equipments to track various species starting at 0.25 grams. Thanks to its expertise, Xerius rapidly became a leader in this domain.

In 2016, Xerius starts to create a specific department dedicated to wildlife monitoring : XeriusTracking.

Biodiversity and landscape  
Environmental development

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Staff:  
5 persons



# XXL ATELIER - CIVITA

Service Company



Sustainable urban planning

## Activities

With a group of 20 professionals based in Paris, Lyon and Saint-Etienne, our team not only masters functional and operational town planning activities as well as the building of private and public projects, but also all the necessary skills related to environment and sustainable philosophy.

Every project brings together a team of men and women full of experience in bringing creative ideas to the table. They are committed to presenting sensible, functional answers that take into account the history of a site while also ensuring harmony with the environment. Shared enthusiasm for each project encourages a true architectural ambition based on a pragmatic comprehension of tailor-made projects for both owners and investors. For the past 7 years, all our projects have designed using 3D models up to the tender consultation phase. We are a leader in designing logistics platforms using Building Information Modeling with Archicad and Revit.

Fabien Jallon earned his certificate in specialized sustainable architecture, town planning and building in 2006 after two years of training with ADEME and the Rhone-Alpes Ordre des Architectes. This certificate is a real help to clients who are interested in implementing sustainable projects. Furthermore, the ISO 9001:2008 certificate offers principal investors an additional warranty of quality.

## References

Renault Trucks, Établissements Vacher, Almet, La SNCF, Le groupe Total, Atémi pour Bayer Healthcare et Easydis, Le groupe Zannier, CCR, Groupe Casino, GSE, Loire Habitat, Métropole Habitat, Capital Evolutif Management, Alliade, Foncière Logement, Néolia, Maisons de Pays, Lotir Rhône-Alpes, L'HELIOS SA, La SAIRP, SCP Vallet, Diagram Informatique, l'Opac du Rhône, Bourg Habitat, le Grand Lyon, la SERL, La SEDL, Le Conseil général de la Loire, Le Conseil général de l'Isère, la Ville d'Evian, La Ville de Saint-Etienne, La Ville de Saint-Just Saint-Rambert, La Région Rhône-Alpes, La Ville de Gex, La Mairie de St-Paul-en-Cornillon, La Ville du Chambon Feugerolles, La mairie de Châteauneuf, La Communauté d'agglomération Forez-Sud, La Ville de Vénissieux, la Ville de Rive de Gier.

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Staff:  
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Turnover: **2 M€**

# YELE CONSULTING

Service Company



Biodiversity  
Environmental development

## Activities

Yélé Consulting is a French consulting company founded in 2010, dedicated to the Energy & Utilities sectors (E&U).

With the best academic backgrounds and extensive experience in energy, the 55 consultants of Yélé Consulting are advising their clients in several sectors of the E&U ecosystems: renewable energies integration, energy efficiency, Smart Grids and Smart Cities, energy market, performance analysis and electric mobility.

The consultants of Yélé Consulting are involved in all phases of a project, such as strategy definition, analysis of business requirements, realization and experimentation, feedback analysis and projects deployment.

Yélé is an active member of Think Smartgrids, the professional association which aims to promote French Smart Grids solutions around the World. Yélé is responsible for developing the activities of Think Smartgrids in Africa.

Yélé Consulting has a recognized expertise and experience in power grid systems, and more precisely in the following activities:

- Centralised and distributed energy systems
- Modernisation of grid planning and operation tools.
- Data management and analytics related to energy (Big Data infrastructures, Data Science, Blockchain),
- Transformation of information systems and telecommunication (SCADA, CMMS, GIS, IoT, cybersecurity),
- Deployment of Electric Vehicle charging stations; electricity storage systems, demand response solutions for the electrical grid.
- Implementation of new energy services and business models.

Yélé assists its public-sector clients, Distribution System Operators (DSO) and Transmission System Operators (TSO), in their transformation and innovation projects related to Smart Grids, energy and digital transition.

Thanks to its subsidiary in Mali and a large representatives and partners network in West Africa, Yélé has a very good knowledge of the African energy environment and could mobilize local expertise.

## References

We have worked on several projects for major utilities such as feasibility studies for Smart Grids projects, electrical studies, technical and managerial advising, and operational support for electrification projects with on-grid and off-grid. Yélé also provides recommendations about energy policy to major political and institutional stakeholders in the region (e.g. Mali, Senegal, Tunisia, Burkina Faso, and Ivory Coast).

- Yélé is currently developing two projects:
- Rural electrification in Mali in partnership with the High Council of the Collectivities
  - Connected Smart Micro Grid for identified peri-urban areas (industrials, activities).

Yélé assisted the French Atomic Energy and Alternative Energy Commission (CEA) and the STEG for the Definition of a Roadmap for Smart Grid development in Tunisia.

Yélé's activities for the French Smart Grids professional association also lead it to get involved in the structuration and implementation of Smart Grids projects in Asia (Indonesia and Philippines up to date).

In addition, Yélé Consulting provides pro-bono assistance to major NGOs working in the energy and sustainable development sectors. Its consultants assist for instance ESF (Electricians Without Borders) and Blue Energy on projects in Laos, Ivory Coast and Burkina Faso.

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Staff:  
**50 persons**  
Turnover : **5 M€**









## About ADEME

### CLUB ADEME INTERNATIONAL

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.

# CLUB ADEME INTERNATIONAL



[www.clubinternational.ademe.fr](http://www.clubinternational.ademe.fr)



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