



Co-funded
by the COSME programme
of the European Union



AEWEN

Africa Europe Water Energy Network

Project under GA number 101035935

D1.2: Directory of EU SMEs 15/01/2022

Deliverable's leader(s): TWEED

Participants of the deliverable:





INDEX PER TARGET SECTORS AND TARGET COUNTRIES

p	Company Name	Water	Energy	Domestic use	Industry	Agriculture	Health	Education	Local authorities ¹	Tourism	Other(s) ²	Morocco	Senegal	Tunisia
1	ABN ENGINEERING & CONSULTING		✓		✓	✓	✓					✓	✓	✓
2	APB ENERGY	✓	✓	✓	✓	✓	✓		✓	✓			✓	
3	AQUASSAY	✓			✓				✓			✓	✓	✓
4	BENOO	✓	✓		✓	✓			✓				✓	✓
5	BGEO	✓							✓		✓	✓	✓	✓
6	BLUEPHAGE	✓			✓				✓					
7	CREATECH SOLUTIONS SL	✓			✓				✓			✓		
8	DEFCON8	✓	✓	✓			✓	✓	✓	✓		✓		
9	DELPPOWER		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	E4SMA SRL	✓	✓		✓				✓			✓		✓
11	ECO-SISTEMS WATERMAKERS SL	✓		✓	✓	✓			✓	✓	✓	✓		✓
12	ECOBIOQUAL SRL	✓	✓		✓	✓			✓			✓		✓
13	ECOMACCHINE SRL	✓			✓				✓			✓		✓
14	ELIOSYS	✓	✓		✓				✓			✓	✓	✓

1- Municipalities / Local authorities

2- Tourism, well-being and leisure





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15	ENERGTRADE	✓	✓	✓	✓	✓						✓	✓	✓
16	ENERGY POOL DEVELOPMENT		✓		✓				✓		✓			✓
17	ENERSOL	✓	✓	✓	✓	✓			✓				✓	
18	EUTECTIC SYSTEM SRL	✓	✓		✓				✓			✓		✓
19	EVOCELLS	✓	✓	✓	✓				✓			✓	✓	✓
20	EXTRIS SRL	✓										✓		✓
21	FERPLANT SRL		✓		✓		✓		✓			✓		✓
22	GREENFISH	✓	✓		✓				✓			✓	✓	✓
23	GREENPLUG ENGINEERING	✓	✓		✓				✓		✓	✓	✓	
24	GROUPE ER2I	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
25	HELIOSLITE		✓		✓	✓			✓		✓	✓	✓	✓
26	HYDRAO	✓	✓	✓	✓				✓	✓		✓		✓
27	HYDROO PUMP INDUSTRIES, SL	✓		✓	✓				✓			✓		✓
28	HYDROSCAN	✓	✓		✓				✓			✓		✓

1. Municipalities / Local authorities
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		Water	Energy											
29	IDRORICERCHE SRL	✓			✓				✓		✓	✓	✓	✓
30	IED CONSULT		✓						✓		✓	✓	✓	✓
31	INOVAYA	✓			✓		✓		✓				✓	
32	INSENSUS PROJECT SRL	✓	✓		✓	✓			✓			✓	✓	✓
33	IRIDRA SRL	✓		✓	✓	✓			✓	✓		✓	✓	✓
34	IRIS SRL	✓	✓		✓				✓			✓	✓	✓
35	JANSON LAW FIRM	✓	✓		✓				✓			✓	✓	✓
36	JLA HYDRO		✓	✓	✓			✓	✓					
37	KEIKEN ENGINEERING	✓	✓						✓	✓		✓		✓
38	KING DIAMOND SLU	✓			✓	✓	✓		✓	✓		✓		
39	LAGAZEL		✓					✓	✓	✓			✓	
40	LUCISUN		✓		✓				✓			✓	✓	✓
41	MEC SRL		✓		✓				✓			✓		
42	MITIS SA		✓		✓				✓			✓	✓	✓

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43	NEPSEN (FORMERLY TRANSÉNERGIE)		✓		✓	✓			✓		✓	✓	✓	✓
44	ODIT-E		✓		✓				✓				✓	
45	PANECO AMBIENTE SRL	✓		✓	✓	✓			✓			✓	✓	✓
46	POD ONE – DHBC	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓
47	REGIS MOTORS		✓		✓							✓	✓	✓
48	RUTTEN NEW ENERGY SYSTEM		✓		✓	✓	✓	✓	✓	✓			✓	
49	SASSO SRL	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓
50	SAVE INNOVATIONS	✓	✓		✓				✓			✓	✓	✓
51	SEA MARCONI TECHNOLOGIES		✓		✓				✓					
52	SEACOOPT STP	✓	✓			✓		✓	✓			✓	✓	
53	SEED-ENERGY		✓		✓				✓		✓	✓		✓
54	SHER INGÉNIEURS-CONSEILS SA	✓	✓		✓								✓	
55	SIGMADAF CLARIFIERS SL	✓	✓		✓							✓		✓

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56	SOTRAD WATER	✓	✓	✓	✓	✓	✓		✓				✓		
57	SURTEC	✓	✓		✓	✓	✓	✓	✓				✓		
58	TUCAI	✓		✓		✓			✓			✓	✓	✓	
59	UNEX APARELLAJE ELECTRICO, SL WATER, ENVIRONMENT AND BUSINESS FOR DEVELOPMENT, SL	✓	✓		✓				✓			✓		✓	
60	BUSINESS FOR DEVELOPMENT, SL	✓	✓		✓	✓	✓	✓	✓	✓		✓		✓	
61	WATEROLOGIES SL	✓	✓	✓	✓				✓	✓		✓	✓	✓	
62	WAVE FOR ENERGY SRL	✓	✓		✓				✓	✓	✓	✓	✓	✓	
63	WELL PUMPS	✓	✓	✓	✓				✓				✓		

1. Municipalities / Local authorities
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ABN Engineering & Consulting
 Roche-La-Molière • France
www.abnec.com

Skills, services, products, technologies

ABN Engineering & Consulting is specialised in industrial freezing, clean rooms and energy saving. It offers solutions to provide cold room and tunnel, clean rooms with natural fluids solutions and energy saving. The company also has an offgrid cold room for farmers without easy access to energy.

Company's expertise goes from engineering to maintenance, including conception, installation, training, etc.

7 AFFORDABLE AND CLEAN ENERGY



ABN Engineering & Consulting provides industrial freezing and clean room solutions that are economical in energy consumption. It is specialised in improving energy consumption of existing installations. The solar cooler enables cold storage in areas without easy access to a reliable energy power.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
- ✓ Training & Certification
- ✓ Education
- ✓ Promotion & Awareness



Preservation of Water Resources
 Water Catchment
 Water Treatment
 Water Quality Control
 Water Adduction/Transport
 Water Distribution
 Water Storage
 Wastewater Collection
 Wastewater Treatment
 Water Desalination
 Hardware - Smart metering
 Software - Digitalisation - Data
 Other(s)



Solar - PV
 Solar - Thermal
 CSP (Concentrated Solar Power)
 Off-shore Wind
 On-shore Wind
 Hydropower
 Combined Heat & Power
 Geothermal
 Biomass - Biofuel
 Micro-grids
 Hydrogen
 Energy Storage
 ✓ Energy Efficiency
 Hardware - Smart Metering
 Software - Digitalisation - Data
 Other(s)

PROJECTS IN AFRICA:
 Morocco, Tunisia, Algeria, Lybia, Ivory Coast, Senegal, Togo, Cameroon



APB ENERGY
 Charvonnex • France
www.apb-energy.fr

Skills, services, products, technologies

APB Energy provides solar offgrid systems and solar pumping systems since 2007. Systems are sized and adapted to each project according to needs. Technical support and training can also be provided. The company is active in Africa with several hundred systems commissioned and operating.



Solar pumping, system sizing, solar pumping project management



Rural electrification, offgrid solar system design and supply, project management

R&D – R&I

- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- ✓ Distribution & Installation
- Marketing

Operations & Maintenance

- Dismantling & Recycling
- Training & Certification
- Education
- Promotion & Awareness



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- ✓ Solar - PV
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- Hydropower
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- Biomass - Biofuel
- ✓ Micro-grids
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- Other(s)



PROJECTS IN AFRICA:
 Benin, Burkina Faso, Ivory Coast, Congo Republic, DRC, Mali, Niger, Togo, Mauritania, Madagascar, Comoros



AQUASSAY
 Le Palais-sur-Vienne • France
aquassay.com

Skills, services, products, technologies

Expert Cabinet in Hydric Efficiency for industry.



Hydric Efficiency Diagnostics, Water Performance Management Tool (e-Water Efficiency).

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing

- Operations & Maintenance
- Dismantling & Recycling
- ✓ Training & Certification
- Education
- Promotion & Awareness



- ✓ Preservation of Water Resources
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- Other(s)

PROJECTS IN AFRICA:
 Algeria, Tunisia



Benoo
Bordeaux • France
benoo.africa

Skills, services, products, technologies

Benoo is a company specialised in off-grid solar projects. It's "raison d'être" : Empower African businesses in the context of climate change.

Benoo offers a standardized approach to address productive use projects based on 3 digital tools :

- Insight : Automated analysis of final customers needs
- Foresight : Predictive analysis of energy consumption
- Opps : Productive use equipment lease and management



Benoo develops a project in Tunisia where water and energy production are combined to create a business place for local entrepreneurs. We called the concept "connected oasis"



In the energy field it offers digital tools to accelerate the project development, the technical sizing and the management of productive units based on off-grid energy and efficient equipments.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- Marketing
- Operations & Maintenance
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PROJECTS IN AFRICA:
Ghana, Togo, Burkina Faso, Senegal, Tunisia



BGEO
 GRANOLLRES • Spain
www.bgeo.es

Skills, services, products, technologies

BGEO is a knowledge-driven company. They are core developers of Giswater software as well as the co-founders of Giswater Association (www.giswater.org). Using Open Source technology among others, our vision is to help water utilities sharing knowledge to improve their efficiency and resilience

6 CLEAN WATER AND SANITATION



Experts and core developers of Giswater software (www.giswater.org). Giswater is the world's leading open source GIS & WATER MODELING TOOLS solution for water utilities. More than 8 million people are served by utilities using Giswater in America, Africa and Europe. The best value for money solution to help water utilities to improve their efficiency and resilience, with the added incentive that it provides a true knowledge transfer for end users.

R&D – R&I

- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing

Operations & Maintenance

Dismantling & Recycling

- ✓ Training & Certification
- Education
- Promotion & Awareness



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PROJECTS IN AFRICA:
 South Africa



Bluephage
 el Prat de Llobregat • Spain
www.bluephage.com

Skills, services, products, technologies

Bluephage is a company that commercialises kits for analysis of viral indicators in water.

6 CLEAN WATER AND SANITATION



They control microbiological quality of water



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
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PROJECTS IN AFRICA:
 South Africa



Creattech Solutions SL
 Vic • Spain
www.creattech360.com

Skills, services, products, technologies

Creattech360° built an amazing team combining both process and IT engineers, having deployed their Intelligent Control Platform in more than 150 sites in more than 20 countries. Their solution helps the wastewater treatment operators to optimize the plants and reduce the current O&M costs.



Createch has developed its own Intelligent Control Platform to provide their customers a holistic solution to optimize the WWTPs Control. Their solution improves the stability and reliability of the processes, increases process performance and reduces significantly the O&M costs, such aeration power and chemical dosing. Over and beyond the Platform customizable Process Intelligence Tools to support strategic decision as we as day-to-day operations.

R&D – R&I

Studies - Design - Consultancy

Funding

✓ Manufacturing & Production

✓ Distribution & Installation

Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

Education

Promotion & Awareness



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PROJECTS IN AFRICA:



DEFCON8

Defcon8

Barcelona • Spain
www.defcon8.com



R&D – R&I

Studies - Design - Consultancy

Funding

- ✓ Manufacturing & Production
- Distribution & Installation
- Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

- ✓ Education
- ✓ Promotion & Awareness

Skills, services, products, technologies

Defcon8 is a water technology company committed to solving critical water challenges with technological innovation. We are creating a more sustainable world by enabling our customers to optimise water usage.

Smart Cities need smart water. Acc. to UN water demand will outstrip its availability by 4 % in 23 . Apart from aerators, flow limiters, eco taps,... which are necessary there is around a 18% unleashed potential savings in water usage by changing our behavior.



Defcon8 foster savings in buildings by raising awareness . They provide real time feedback and gamification to users when and where water is being used. 5-18% savings are achieved through behaviour changes in our daily habits.



Their smart water flow monitor has been installed in hotels, offices, hospitals, households. About half of the water saved is warm, hence the energy & CO2 savings associated. A typical household of 2p could save 9m3 of water, 240kwh and 0,11T CO2 / yr.



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PROJECTS IN AFRICA:



Delpower
Thimister-Clermont • Belgium
delpower.be

Skills, services, products, technologies

Delpower offers software development for energy audit and energy efficiency advisory.

Easee allows to create energy balance and simulate investments for energy efficiency and renewables. It helps companies build multisite energy management, and obtain a better visibility on their action plan and follow up of the situation. easee could help african countries acquire the expertise related to the construction of energy reduction strategies and plan the energy transition.

7 AFFORDABLE AND CLEAN ENERGY



easee.energy is an energy and CO2 audit software which helps companies build efficient and optimized action plan to reduce CO2 emissions



- ✓ R&D – R&I
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PROJECTS IN AFRICA:



E4SMA |

E4SMA Srl
 Torino • Italy
www.e4sma.com

Skills, services, products, technologies

E4SMA provides services in the area of energy planning, policy, environment, and develop energy, environmental and economic models. E4SMA delivers analyses to support energy decision makers on climate policies, energy security, technology perspectives, impacts of climate change on the energy system, etc.

Scenario based integrated analysis of energy and water



Scenario based integrated analysis of energy technology assessment

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
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- Manufacturing & Production
- Distribution & Installation
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- Operations & Maintenance
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PROJECTS IN AFRICA:

Ethiopia, Morocco



**ECO-SISTEMS
WATERMAKERS SL**
Sabadell / Barcelona • Spain
www.eco-sistems.com

Skills, services, products, technologies

Eco-Sistems Watermakers designs, develops and manufactures watermakers known for their energy-saving seawater desalination systems.

The company's innovative design, development and production centre in Sabadell (Barcelona) collaborates regularly with the Polytechnic University of Catalonia. Eco-Sistems Watermakers opens up its ground-breaking analysis and testing laboratories to the University, as well as the contributing the know-how of its experts in fluid mechanics. Eco-sistems Watermakers is advanced technology and quality Service guaranteed.

The EFFICIENT T-2000 and 4000 watermakers feature the most advanced technology on the market and can make any sort of saltwater drinkable: from that extracted directly from the sea to that from saline phreatic layers.

They are fully autonomous devices, portable or fixed depending on the model, that can produce 2,000 or 4,000 litres of drinking water per hour; perfect for small business, industrial, agricultural or domestic use.

The main feature of the EFFICIENT series is its patented energy-recovery system, which considerably reduces the power needed, using up to 80% less than the rest of the devices available on the market.



R&D – R&I

Studies - Design - Consultancy

Funding

- ✓ Manufacturing & Production
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- Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

Education

Promotion & Awareness



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PROJECTS IN AFRICA: South Africa



ECOBIOQUAL SRL
 Torino • Italy
www.ecobioqual.it

Skills, services, products, technologies

ecoBIOQUAL is a consultant society working in the field of ecotoxicology, mutagenesis and applied biology, referring to environment, human health and quality of both products and industrial activities. It's a highly specialised society co-works with scientific research centres and University.



ecoBIOQUAL is a highly specialized society that propose a new approach relating to environment quality and occupational exposure, using biological assays (ecotoxicity and mutagenicity assays) developed in a laboratory following standards methods both national, and international (OCSE, ASTM, USEPA, Environment Canada).The approach proposed integrate biological science with other environmental sciences, providing a wide range of bioassays on microorganisms, animal organisms and plants to evaluate human activities impact on freshwater and seawater quality, groundwaters, drinking waters, wastewaters. Biological test can are also used for the evaluation of wastewater treatment plants efficiency.



ecoBIOQUAL offers its professional knowhow in the renewable energy sector such as the production of energy from the anaerobic digestion of urban wastes and wastes derived from different processes (sludges, animal manure, wastes from food industry).

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- Education
- Promotion & Awareness

- ✓ Preservation of Water Resources
- Water Catchment
- Water Treatment
- ✓ Water Quality Control
- Water Adduction/Transport
- Water Distribution
- Water Storage
- Wastewater Collection
- Wastewater Treatment
- Water Desalination
- Hardware - Smart metering
- Software - Digitalisation - Data
- Other(s)

- Solar - PV
- Solar - Thermal
- CSP (Concentrated Solar Power)
- Off-shore Wind
- On-shore Wind
- Hydropower
- Combined Heat & Power
- Geothermal
- ✓ Biomass - Biofuel
- Micro-grids
- Hydrogen
- Energy Storage
- Energy Efficiency
- Hardware - Smart Metering
- Software - Digitalisation - Data
- Other(s)

PROJECTS IN AFRICA:



Ecomacchine Srl
 Grugliasco - Turin • Italy
www.ecomacchine.it



Skills, services, products, technologies

Ecomacchine has been the first manufacturer in Italy to design and make the whole range of machines employed for waste or primary water treatment plants. It works now as qualified as supplier of both public water treatment and private companies, including some petrochemical World leading companies.

Ecomacchine works not only in design and manufacturing but also supporting its clients in equipment sizing and with after sales services.



- Preservation of Water Resources
- Water Catchment
- ✓ Water Treatment
- Water Quality Control
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- Other(s)



Design, construction and sales of water and wastewater treatment equipment.

PROJECTS IN AFRICA:
 Tunisia, Algeria, Egypt



ELIOSYS

ELIOSYS

Liège • Belgium
www.eliosys.eu

Skills, services, products, technologies

ELIOSYS, with a ISO 17025 accredited testing laboratory and an engineering services, is a SME specialized in renewable energy technology and system.

The company offers support for all renewable energy projects from user requirements definition to interpretation of the results or recommendations.

Eliosys also provides expertise in energy efficiency and renewable energy-based systems to offer project leaders (architects, companies or public authorities) a complete service.

6 CLEAN WATER AND SANITATION



ELIOSYS offers technical support with their experts in photovoltaics, solar thermal, hybrid (PVT), heat pumps and micro wind turbines. These renewable technologies can generate power for the cleaning water systems.

7 AFFORDABLE AND CLEAN ENERGY



They also offer technical acceptance during or after the technical works. Eliosys regularly carries out SAT (site acceptance test) and FAT (factory acceptance test) for renewable energy projet. The engineering services can design and follow energy solutions and the ELIOSYS lab can validate all these solutions to any climat.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing
- ✓ Operations & Maintenance
- Dismantling & Recycling
- ✓ Training & Certification
- ✓ Education
- ✓ Promotion & Awareness



- Preservation of Water Resources
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- ✓ Hardware - Smart metering
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PROJECTS IN AFRICA:
 Senegal, Egypt, Tunisia, Morocco



EnerTrade
 Strambino • Italy
www.enertrade.com

Skills, services, products, technologies

EnerTrade is an Italian company, with over fifty years of experience in the energy sector behind it. EnerTrade is specialized in B2B trading of products to produce energy: solar panels, hydro and wind turbines, generators, batteries.



EnerTrade has been producing hydroelectricity for 3 generations and we sell hydroelectric turbines all over the world.



B2B trading of products to produce energy: solar panels, hydro and wind turbines, generators, batteries.

R&D – R&I

Studies - Design - Consultancy

Funding

Manufacturing & Production

✓ Distribution & Installation

Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

Education

Promotion & Awareness



- Preservation of Water Resources
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PROJECTS IN AFRICA:
 Kenya, Ivory Coast



Energy Pool Development
 Le Bourget-du-Lac-Cedex •
 France
www.energy-pool.eu



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
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- Manufacturing & Production
- Distribution & Installation
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Skills, services, products, technologies

At the centre of the smart grid revolution, Energy Pool manages and optimises the energy consumption of complex systems (industrial sites, distributed generation, renewable energy, storage asset, etc.) for a smarter and more sustainable energy management.



HV Network Flexibility monetization and operations, Decarbonization of industrial processes, Energy Management System - Software.



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PROJECTS IN AFRICA:



ENERSOL
Battice • Belgium
www.enersol.be

Skills, services, products, technologies

Enersol is active in solar, windturbines, storage solutions and charging solutions as well as HVAC for B2B and B2C applications.

From a few kWp to several MWp stations, fully scalable, fully customizable. Integrators/EPC who cover the design, construction and maintenance of all their projects.

6 CLEAN WATER AND SANITATION



Water pumps coupled with solar/windturbines and storage solutions

7 AFFORDABLE AND CLEAN ENERGY



Services and products in windturbines, solar stations, storage and charging stations



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
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PROJECTS IN AFRICA:
Burkina Fasso, Mozambique, DRC, Senegal, Mali, Nigeria, Sudan



Eutectic System S.r.l.
 Dovadola - FC • Italy
www.esfrigo.it

Skills, services, products, technologies

Eutectic System is an Italian company specialized in cool and frozen solutions using eutectic technology for storage and distribution of perishable goods. Its technologies and services are easy to use, they entail no fuel consumption and allow flexibility in order to save energy.



Water production through condensation of the umidity of the air and ECA techology for sanitisation of water (Acqua di rugiada station).



Production of condensing unit and eutectic devices with P.C.M. Phase Change Materials and storage of latent energy for the conservation of pherishable goods thermal conditionings of buildings.



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PROJECTS IN AFRICA: Algeria



EVOCELLS
Baillonville • Belgium
www.evocells.be

Skills, services, products, technologies

Evocells is the largest Belgian producer of solar photovoltaic panels.

The company's products are quality driven by a cautious selection of component and its own manufacturing recipe. 100% of the modules are double tested by flashing and electroluminescence.

On top of the manufacturing, EVOCELLS can provide a service of engineering, installation and maintenance of solar plant. The complete package from the manufacturer to the installation gives to the customer the best and longest warranties on the market.



Understanding of the link between water distribution and energy production.



Photovoltaic energy, Photovoltaic panel production with high Belgian Quality, Photovoltaic expertise, Battery storage, Energy production and engineering according to customer needs.



- R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
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- ✓ Distribution & Installation
- Marketing

- Operations & Maintenance
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PROJECTS IN AFRICA: Morocco, Madagascar



EXTRIS srl
 Colverde (CO) • Italy
www.extris.com

Skills, services, products, technologies

EXTRIS is an Italian manufacturer of technical fabrics used for the production of screen printing stretched frames or to produce high precision and fine micrometer filters. The company consists of a weaving department with highly sophisticated looms and a fabrication department where high-tech machines are used.

Application areas of EXTRIS filters range from water and food filters, to automotive sector filters as well as filtration for the chemical industry. EXTRIS is also capable of producing non-standard fabrics to help solve specific filtration problems.



Extris supplies filters for irrigation or for drinking water.



- | | |
|--------------------------------|--------------------------|
| R&D – R&I | Operations & Maintenance |
| Studies - Design - Consultancy | Dismantling & Recycling |
| Funding | Training & Certification |
| ✓ Manufacturing & Production | Education |
| Distribution & Installation | Promotion & Awareness |
| Marketing | |



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PROJECTS IN AFRICA:
 Tunisia, Morocco, Egypt



Ferplant srl
 Torino • Italy
www.ferplant.it

Skills, services, products, technologies

Ferplant is specialized in the design and construction of plants for the production of energy from renewable and similar sources such as the organic fraction of solid urban waste.

7 AFFORDABLE AND CLEAN ENERGY



Design and construction of plants for the production of energy from renewable and similar sources such as the organic fraction of solid urban waste.



- R&D – R&I
- Studies - Design - Consultancy
- Funding
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- Marketing
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PROJECTS IN AFRICA: Morocco



Greenfish
Brussels • Belgium
www.greenfish.be

Skills, services, products, technologies

Greenfish has developed a 360° approach to accelerate sustainable transformation and reach climate neutrality.

They support their customers in defining sustainability ambitions, assessing footprint and engineering innovative solutions to make products and services competitive and sustainable.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
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6 CLEAN WATER AND SANITATION



Consulting services

7 AFFORDABLE AND CLEAN ENERGY



PROJECTS IN AFRICA:



GREENPLUG
ENGINEERING

GreenPlug Engineering
Ixelles • Belgium
www.greenplug.eu

Skills, services, products, technologies

GreenPlug Engineering offers engineering & consultancy services in renewable energy (Hydropower, Wind, Solar, Storage)

They mainly work on small and medium plants (0,1 - 20MW) and have a strong international and African experience.

6 CLEAN WATER AND SANITATION



GreenPlug engineering studies run-of-the-river and reservoir hydropower projects in compliance with the highest environmental standards. Know-how in the turbinning of networks' waters: irrigation, waste- or drinking water.

7 AFFORDABLE AND CLEAN ENERGY



Energy resource Assessment, Feasibility study & Design, Owner's Engineer and Construction management, Technical due diligence.



R&D – R&I

- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing

Operations & Maintenance

- Dismantling & Recycling
- ✓ Training & Certification
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- Promotion & Awareness



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PROJECTS IN AFRICA:

Currently working in Kenya, DR Congo, Rwanda, Madagascar. Past experience in Burundi, Cameroon, Chad, Djibouti, Mali, Morocco, Mozambique, Niger, Rwanda, Senegal, Tanzania.



GROUPE ER2i
 Saint-Ismier • France
 www.er2i.eu

Skills, services, products, technologies

Group ER2i is a major player in the real estate sector.

7 AFFORDABLE AND CLEAN ENERGY



IDEC ENERGY



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Manufacturing & Production
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
- ✓ Funding
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PROJECTS IN AFRICA:



HeliosLite

Le Bourget-du-Lac • France
helioslite.com

Skills, services, products, technologies

HeliosLite is a "technological challenger" in the field of photovoltaic structures (e.g. trackers and floating PV) with patented and field proven products to lower the cost of energy and open new markets notably off-grid and self-consumption applications.



HeliosLite is an equipment provider combining a patented mechanical structure with electronic control, monitoring and smart phone O&M application for ground mounted, PV power plants from 5kWp (one tracker) to 1MWp (200 trackers). HeliosLite works for developers of energy production & storage solutions.



R&D – R&I

Studies - Design - Consultancy

Funding

- ✓ Manufacturing & Production
- Distribution & Installation
- Marketing

Operations & Maintenance

Dismantling & Recycling

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- Preservation of Water Resources
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PROJECTS IN AFRICA:
 South Africa, Senegal, Morocco



HYDRAO
SMART SHOWER FOR SMART SAVINGS

HYDRAO
Grenoble • France
pro.hydrao.com

Skills, services, products, technologies

HYDRAO offers smart solution for water preservation. The solutions raise consumers awareness and encourage them to adopt an eco-responsible behaviour. It also offers a set of innovative and easy-to-use products & services to help individuals and companies to take action on their water consumption.

6 CLEAN WATER AND SANITATION



HYDRAO Smart Shower allows to reduce water consumption thanks to the Nudge pedagogy and an economic flow. Its solution also allows to monitor water consumption in the shower. HYDRAO Meter allows to follow water consumption in real time to know it better and to be able to quickly detect abnormal consumption (leaks, etc.)

7 AFFORDABLE AND CLEAN ENERGY



HYDRAO Showers reduce hot water consumption in the shower. This means that less energy is needed to heat the water.

All the technologies work without batteries thanks to a micro-turbine. HYDRAO shower heads save up to 7 % of hot water. This means both water and energy savings. They also save up to 3 times more CO2 than they emit during their manufacture.



- ✓ R&D – R&I
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PROJECTS IN AFRICA:



hydroo®

HYDROO PUMP INDUSTRIES, S.L.
 PALOL DE R. (Girona) • Spain
www.hydroo.com

Skills, services, products, technologies

Hydroo manufactures a wide range of pumping solutions for the most demanding applications. They design efficient pumps in connection with our own RD&I Excellence Centre. Hydroo also provides engineering services for hydraulic systems and equipment. Their Tests Centres sized up to 1000 m³/h, 40 bar and 160 kW provide performance warranty to 100% of our production.

6 CLEAN WATER AND SANITATION



Pumping solutions for building services, industry, irrigation and industrial process. Customers find out the highest performance in booster sets and pressurization, fire-fighting sets, underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations.



- ✓ R&D – R&I
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PROJECTS IN AFRICA:

Agadir (Morocco) WWTP pump units, RO plants in Egypt and Tunis. Drinking water projects in Kenya and irrigation projects in Uganda, among the regular supplies and distribution in several countries.



Hydroscan
Gembloux • Belgium
www.hydroscan.eu

Skills, services, products, technologies

Hydroscan is a world-leading expert in holistic, integrated solutions for more sustainable and cost-effective water management. They are in first instance water engineers that deliver preventive warning for water impacts and smart urban water solutions.

Their smart water management solutions in these 3 key markets are :

- Hydro portal & LeakRedux[®] Real-time leakage warning system and operational leakage reduction management
- RioScan[®] Integrated 3D measuring technology , structural failure forecasting and 3D visualisation (cloud)
- Flood4Cast[®] real-time forecasting on urban floods and operational disaster management

6 CLEAN WATER AND SANITATION



Hydroscan offers smart water solutions in 3 markets: Drinking water management, Sewer management, Urban flood management. Their target groups are the Public (Water Utilities, Regions, provinces, Cities, Ministries/Governments, Regulators, Industry, Emergency services) and the Private sector (Banks & Funds, International consultancy groups, Insurances).

7 AFFORDABLE AND CLEAN ENERGY



The products and services offered in the water sector (Hydraulic modeling, detection of leaks to reduce NRW, real time modeling,...) will help utilities and water infrastructures managers to better manage and optimize their infrastructures with a reduction of energy consumption.

- ✓ R&D – R&I
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6 CLEAN WATER AND SANITATION

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PROJECTS IN AFRICA:

Morocco



Idroricerche S.r.l.
 Chiusa di Pesio • Italy
www.idroricerche.com

Skills, services, products, technologies

Idroricerche is active in the research, planning and implementation of customized and turnkey solutions for the efficient and ecological use of water in the Food&Beverage industry, especially mineral water, brewery, wine, dairy and water for drinking purposes.

Idroricerche offers tailor-made ecological applications for the improvement of production processes, based on integrated water cycle: incoming water, process water at the points of use, service water, waste water and removal of incoming water.

Its microfiltration systems are useful in food & beverage. Idroricerche also works in hydrogeological research for water extraction.

6 CLEAN WATER AND SANITATION



Hydrogeological research (non-invasive studies), intake works (springs and wells), piping storage and plant distribution, all kind of water treatment (reverse-osmosis, microfiltration, ultrafiltration, softening, chlorine dosage, activated carbon systems...), automation for managing plants, springs, wells, plants sanitizing, CIP systems, enzymatic washing, water saving systems, dynamic filtration plants for cheese firming water, brine filtration plants.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
- ✓ Training & Certification
- ✓ Education
- ✓ Promotion & Awareness



- ✓ Preservation of Water Resources
- ✓ Water Catchment
- ✓ Water Treatment
- ✓ Water Quality Control
- ✓ Water Adduction/Transport
- ✓ Water Distribution
- ✓ Water Storage
- ✓ Wastewater Collection
- ✓ Wastewater Treatment
- ✓ Water Desalination
- ✓ Hardware - Smart metering
- ✓ Software - Digitalisation - Data
- Other(s)



- Solar - PV
- Solar - Thermal
- CSP (Concentrated Solar Power)
- Off-shore Wind
- On-shore Wind
- Hydropower
- Combined Heat & Power
- Geothermal
- Biomass - Biofuel
- Micro-grids
- Hydrogen
- Energy Storage
- Energy Efficiency
- Hardware - Smart Metering
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- Other(s)

PROJECTS IN AFRICA:



IED Consult
 Francheville • France
www.ied-sa.fr

Skills, services, products, technologies

IED is specialized in sustainable energy services in developing countries (Asia, Africa).

7 AFFORDABLE AND CLEAN ENERGY



The involvement of IED extends from the design of national electricity strategy to the construction and commissioning of infrastructure such as distribution networks and renewable energy production plants.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- Marketing

- ✓ Operations & Maintenance
- Dismantling & Recycling
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- Education
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PROJECTS IN AFRICA:

Uganda, Kenya, Mali, DRC, Senegal, Benin, Tanzania, Congo, Niger, Madagascar, Guinea, Gabon, Cameroon



InovaYa
Lyon • France
inovaya.com

Skills, services, products, technologies

InovaYa is a french start-up with social utility goal. It develops innovative water filtration devices for drinking water access and reduces waterfootprint for industrial sector.

6 CLEAN WATER AND SANITATION



InovaYa develops new technology for water filtration and treatment to improve drinking water access. Its technology works without consumable nor chemical products and with a minimum of maintenance. It can filter any kind of fresh water source and make it drinkable. The filters works during 10 years thanks to an algorithm which cleans them automatically.

7 AFFORDABLE AND CLEAN ENERGY



InovaYa's device works with a minimum of electricity needs and can be plugged to solar panel, water turbine or work with gravity only.

- R&D – R&I
- ✓ Studies - Design - Consultancy
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PROJECTS IN AFRICA:
DRC (Democratic Republic of Congo)



InSensus Project srl
 Pino Torinese • Italy
www.in-sensus.com

Skills, services, products, technologies

InSensus Project a designer and manufacturer of cutting edge data loggers, from sensor to visualization software. InSensus offers ingenious monitoring solutions for Structural Health Monitoring of Infrastructures, Land and Snow Slide Monitoring, Pipeline Structural Health Monitoring, Boat/Ship Structural Monitoring.

The solutions are able to monitor the performance of structures so as pipes dams wind turbines ect, to optimize maintenance and to prevent failure.

6 CLEAN WATER AND SANITATION



SUPERMICRON FOR UNDERGROUND and overground PIPES.

A revolutionary system, able to monitor continuously and with great precision the behavior of external or underground pipelines, alerting in real time in case of deformations and anomalous pressure variations or angular displacements and capable of identifying any leaks and their exact location.

7 AFFORDABLE AND CLEAN ENERGY



Same technology can be applied to penstocks and hydrogen transport. The SuperMicron sensor is perfect for off and onshore wind turbines.

- R&D – R&I
- Studies - Design - Consultancy
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PROJECTS IN AFRICA:



IRIDRA S.R.L.
 Firenze • Italy
www.igidra.eu

Skills, services, products, technologies

IRIDRA is an engineering SME based in Florence (ITALY) founded in 1998 by a multidisciplinary group of professionals with multi-year experience in sustainable water management and nature based solution

IRIDRA staff designed over 3 constructed wetland (CW) systems to face several problems (domestic, urban and industrial wastewater, landfill leachate, extensive systems for agricultural and highway runoff, Combined Sewer Overflows) in different geographical situations (Italy, North Africa, Moldavia, India, Sri Lanka, Cuba, Honduras, Palestine). For most of the CW realized, IRIDRA team worked also on supervision and participated to the CW management and monitoring during the years after the operation. IRIDRA designed and supervised the realization of the nowadays biggest treatment wetland for secondary treatment in the World: the treatment plant of Orhei (Moldova).



Design, assistance to construction, R&D, dissemination, training on sustainable water management and nature based solutions.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing
- Operations & Maintenance
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PROJECTS IN AFRICA:
 Malawi, Mozambique, Tunisia, Tanzania



Iris srl
Orbassano • Italy
www.irissrl.eu

Skills, services, products, technologies

IRIS is a strong innovative SME, based in the industrial area of Turin, specialized in the integration and development of technologies for the circular economy in small-scale industrial and civil institutions (recovery of resources, water, energy, raw materials).

IRIS major technologies are related to:

1. Waste to energy. The plasma conversion reactor.
2. Plasma Water treatment. Thanks to this technology bacteria and microorganisms are eliminated and the formation of algae is prevented.

6 CLEAN WATER AND SANITATION



IRIS has conceived, designed and patented the Greenplasma Cold treatment, that uses high voltage discharge but very short electrical pulses to treat any fluid. Applied to water, it eliminates bacteria, prevents the formation of algae, eliminates non-biodegradable pollutants. IRIS also integrates water technologies.

7 AFFORDABLE AND CLEAN ENERGY



IRIS has conceived, designed and patented, with the use of thermal plasma technology, a treatment that allows, due to the high temperatures reached (up to 5000 ° C), to transform any organic compound into gas, separating it from matrix. The system has great potential in circular economy applications as it allows the recovery of raw materials and energy, without harmful emissions.

- ✓ R&D – R&I
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PROJECTS IN AFRICA:



Janson lawfirm
 bruxelles • Belgium
www.janson.be

Skills, services, products, technologies

The Energy, Climate Change and Mobility Department of the law firm Janson Bagniet is specialised in legal and regulatory matters related to renewable energy.

Janson lawfirm offers legal and regulatory assistance; Provides legal expertise in the implementation of energy projects, including energy efficiency projects; Conducts and assists in legal studies and benchmarking in energy and renewable energy; Provides advice in contract drafting (energy supply, PPA, B.O.T of power plants, LNG, pipeline matters, financial arrangements, etc.), negotiations, and in the development of new renewable energy sources.



Regulatory and tariff structure licensing



Regulatory, tariff, grid code, access to the grid and smart grid infrastructure, distribution and metering, protection of investment, development of a financing structure, financing opportunities and public-private partnerships, rural electrification, energy storage, energy efficiency projects, low-carbon growth, capacity building, development of policy, governance and institutional frameworks.



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PROJECTS IN AFRICA:
 Algeria, Benin, Burkina Faso, Burundi, Djibouti, DR Congo. ECOWAS region, Guinea, Ivory Coast, Madagascar, Mali, Morocco, Niger, Nigeria, Rwanda, Senegal, Togo.



JLA Hydro
Assesse • Belgium
www.jlahydro.be

Skills, services, products, technologies

JLA Hydro is a Belgian based company specialized in the design, manufacturing and installation of tailor-made hydro turbogenerators.

JLA Hydro turbines are designed for heads ranging between 3 and 80 metres and flow rates from 30 to 1600 l/s, generating powers from 5 to 500 kW.

7 AFFORDABLE AND CLEAN ENERGY



Design, manufacture and installation of hydroelectric equipment. Operations and maintenance through powerful remote management tools and regular routine maintenance and visits. Rehabilitation of old turbines. Training to develop existing local capacity in the pico-hydropower sector: generating electricity from 1 to ~ 20 kW from a waterfall. With objective to enable local entrepreneurs to design, manufacture and operate hydroelectric equipment.

- ✓ R&D – R&I
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PROJECTS IN AFRICA:
DR Congo, Kenya, Rwanda, Burundi, Cameroon, Madagascar



KEIKEN Engineering
 Madrid • Spain
www.keiken-engineering.com



R&D – R&I

Studies - Design - Consultancy

Funding

- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

Education

Promotion & Awareness

Skills, services, products, technologies

KEIKEN Engineering develops solutions for Sea Water Desalination and Energy Efficiency.

6 CLEAN WATER AND SANITATION



Sea Water Desalination Plants, small and mid sized. Containerized solutions integrated with Renewable Energies.

7 AFFORDABLE AND CLEAN ENERGY



Energy Audits, energy efficiency equipment supply and Solar Panels instalations.



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PROJECTS IN AFRICA:
 Algeria



KING DIAMOND SLU
 SANT PERE DE RIBES -
 BARCELONA • Spain
www.ufbaf.com

Skills, services, products, technologies

They provide UFBAF DN BIOLOGICAL DENITRIFICATION for REMOVAL OF NITRATES (NO₃) FROM WATER BY REDUCTION TO NITROGEN GAS (N₂)

CO₂ emissions reduction compared to reverse osmosis.
 Minimal operational cost.
 Zero waste, NO₃ to N₂, clean technology.
 Modular construction. This makes it easy to adapt to load variations and possible expansions.



Removal of Nitrates (NO₃) from water by reduction to Nitrogen gas (N₂)



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PROJECTS IN AFRICA:



Lagazel
 Saint-Galmier • France
www.lagazel.com

Skills, services, products, technologies

Lagazel manufactures solar lamps and solar-home-systems in France and Africa.



R&D and production of off-grid solar products : solar lamps, solar-home-systems, collective charging station, bulblights, battery pack. Local production and sub-contracting for other players. Repair and refurbishing of components from solar products.



- ✓ R&D – R&I
- Studies - Design - Consultancy
- Funding
- ✓ Manufacturing & Production
- Distribution & Installation
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PROJECTS IN AFRICA:
 Burkina Faso, Benin, Senegal, Mali



LuciSun
Brussels • Belgium
www.lucisun.com

Skills, services, products, technologies

LuciSun is a Research and Consulting company active in solar energy.

LuciSun is a company that has been created by a team of highly-skilled engineers and scientists in the fields of solar energy and energy meteorology. The company specialises in advanced consulting services, simulation tools, data analytics and R&D for the solar energy sector, mostly regarding photovoltaic (PV) applications.



LuciSun offers services to solar energy plant managers, consulting companies, investment entities, and public bodies. These services include energy yield simulation, performance assessment, due diligence, risk assessment, monitoring data analysis, reporting, as well as fault detection and diagnosis.



- ✓ R&D – R&I
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PROJECTS IN AFRICA:
Benin, Tunisia, Egypt



MEC SRL
Turin • Italy
www.mecsr.net

Skills, services, products, technologies

MeC is a consultancy firm based in Italy and USA. MeC core business is Cost Analysis, and in particular Should Cost, Cost Reduction and Benchmarking. MeC concentrates its activities in particular on: Should Cost: analysis of variable costs and investments; Cost Tracking: cost monitoring and control; Cost Benchmark: evaluation of competitor products; Cost Reduction: identification of value optimization opportunities. Thanks to its business, clients are able to know and control the exact costs of what they buy and/or produce, and to obtain new information on the market of their interest, thus increasing their competitiveness.

Cost Analysis for solar panels located in solar plants (Variable and Investments).

7 AFFORDABLE AND CLEAN ENERGY



Feasibility and make-buy logic; MeC answer to questions such as “Where is it convenient to produce? Do the countries where the panels will be installed have the technologies and skills necessary for production and assembly of the panels? Would the the customer like to use local labor for assembly?” and similar questions.



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PROJECTS IN AFRICA:

MEC is opening its new Company "MEC COSTING" in Tanger Free Zone - Morocco



MITIS SA
 Angleur • Belgium
www.mitis.be

Skills, services, products, technologies

MITIS develops, manufactures, sells, and services innovative energy converters for the transition to decentralized, low greenhouse gas and efficient energy production. Company's systems are based on flameless combustion microturbines applied to Combined Heat and Power.

Production ranges from 10 to 20 kWe and 90 kW of heat.

The solutions "micro-10 HP" and "micro-20" combine a flameless combustion microturbine with a heat pump as an ultra efficient gas heat pump. The microturbine produces up to 10 kWe (Micro-10) or 20 kWe (Micro- 20) of DC electricity and heat (35 kWth) through the clean combustion of natural gas, biogas or liquid fuels. The heat pump works with a natural refrigerant (R290) and DC powered compressors from the automobile industry. Our solution offers a very efficient and novel capability when fed by biogas as our flameless combustion ensures very low emissions while our novel microturbine produces electricity. The microturbine and the heat pump connect through a DC microgrid. The heat pump combines four separate refrigeration loops and exploits air renewable energy to produce up to 40 kWth of renewable heat or cool. The solution is very modular since multiple systems can be combined on the same microgrid to yield higher power.



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PROJECTS IN AFRICA:



NEPSEN (formerly Transénergie)
Lyon • France
www.transenergie.eu

Skills, services, products, technologies

Transénergie is an independent consulting and engineering firm specialised in renewable energies since 1992. The team is part of the NEPSEN group: turnover of 11M €, 150 employees, mainly consulting engineers.

- Solar photovoltaics (ground mounted, rooftop, carports, floating) : owner's engineering, pre-feasibility studies, feasibility studies, energy yield analysis, site surveys, construction monitoring, performance analysis, project management, technical due diligence, certified training.
- Renewable energy strategy involving GIS methodology and various renewables (not only solar)
- Charging stations for electric vehicles
- Off-grid networks / hybrid solar plants (PV + li-ion storage or diesel generator)
- Green Hydrogen

7 AFFORDABLE AND CLEAN ENERGY



- ✓ R&D – R&I
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PROJECTS IN AFRICA:



Odit-e
Meylan • France
odit-e.com

Skills, services, products, technologies

Odit-e is digitalizing the electricity distribution networks to support their managers in the energy transition.

7 AFFORDABLE AND CLEAN ENERGY



Odit-e's main innovation consists in automatically modeling electricity distribution networks from data from smart meters.

Based on this model, the company offers four services to optimize these networks by improving the quality of service, the quality of supply and the capacity of PV production while minimizing losses.



- ✓ R&D – R&I
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PROJECTS IN AFRICA:
Burkina Faso, Madagascar, Kenya, Tanzania



Paneco Ambiente S.r.l.
 Cuneo (CN) • Italy
www.bioecologicalsystem.com

Skills, services, products, technologies

Paneco Ambiente is a young and dynamic reality that boasts over 40 years of virtuous history dedicated with passion and commitment to ecology, the green economy and microbiodiversity.

The line of products dedicated to the aquatic ecosystem is the conclusion of the important air-land-water trio also represented in the company logo. The goal of Ecocandy® initially was to respond to the increasingly frequent requests of agricultural / industrial companies with accumulation tanks affected by excessive algal growth. It then developed to include products to improve the welfare of fish farmed species. Especially in the most delicate phases.

Ecocandy® is the innovative line dedicated to the aquatic ecosystem, and includes products:

- ✓ completely natural and 100% biodegradable
- ✓ easily applicable and modular according to needs
- ✓ extremely complex and multivalent, consequently able to act without causing sudden upheavals

All our products are developed to be completely eco-sustainable and environmentally friendly. The goal of the Ecocandy® line is to offer an alternative to the use of algacides and substances of chemical origin. In fact, the latter, in addition to being harmful to the environment, are now no longer provided for by recent legislation (copper in flakes).



<ul style="list-style-type: none"> ✓ R&D – R&I Studies - Design - Consultancy Funding Manufacturing & Production Distribution & Installation Marketing 	<ul style="list-style-type: none"> Operations & Maintenance Dismantling & Recycling Training & Certification Education Promotion & Awareness
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- ✓ Preservation of Water Resources
- ✓ Water Catchment
- ✓ Water Treatment
- ✓ Water Quality Control
- Water Adduction/Transport
- Water Distribution
- ✓ Water Storage
- Wastewater Collection
- ✓ Wastewater Treatment
- Water Desalination
- Hardware - Smart metering
- Software - Digitalisation - Data
- Other(s)



- Solar - PV
- Solar - Thermal
- CSP (Concentrated Solar Power)
- Off-shore Wind
- On-shore Wind
- Hydropower
- Combined Heat & Power
- Geothermal
- Biomass - Biofuel
- Micro-grids
- Hydrogen
- Energy Storage
- Energy Efficiency
- Hardware - Smart Metering
- Software - Digitalisation - Data
- Other(s)


PROJECTS IN AFRICA:
Algeria




POD ONE - DHBC
 Paris • France
www.podoneconsulting.eu

Skills, services, products, technologies

Consulting company which is specialised in business strategy to modernize and transform public administration for governments in Africa : Senegal, Chad, Mali, Niger, Burkina, Guinea, Central African Republic. Pod One - DHBC leads projects in accordance with sustainable objectives of the United Nations.

6 CLEAN WATER AND SANITATION
 Proposes devices for providing drinking water and wastewater treatment powered by solar. Pod One - DHBC provides, sets up and maintains systems with its teams and reference partners. Packaged offer for disadvantaged areas: wastewater treatment and drinking water production in container. Projects currently under study for the areas of northern Mali, Senegal and Niger.


7 AFFORDABLE AND CLEAN ENERGY
 Pod One is involved in Senegal, Mali, Chad and Niger for the decarbonation of essential services, particularly for hospitals, health centers, and provides kits to supply with solar electricity villages (2000 to 5,000 inhabitants) who do not have electricity . Company's strength is to propose solutions mixing solar technologies to give the autonomy of operation to the necessary energy and those of telemedicine which are also decarbonated.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing
- ✓ Operations & Maintenance
- Dismantling & Recycling
- Training & Certification
- ✓ Education
- ✓ Promotion & Awareness


6 CLEAN WATER AND SANITATION


- ✓ Preservation of Water Resources
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- Other(s)

7 AFFORDABLE AND CLEAN ENERGY


- ✓ Solar - PV
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- Biomass - Biofuel
- Micro-grids
- Hydrogen
- Energy Storage
- ✓ Energy Efficiency
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- Software - Digitalisation - Data
- Other(s)

PROJECTS IN AFRICA:
 Senegal, Mali, Chad, Niger, Burkina, Guinea, Morocco, Tunisia





Regis Motors
 Torino • Italy
regis-motors.com

Skills, services, products, technologies

Regis Motors SRL is an innovative start-up, the core of the company is the production with its own brand of an entire family of Full Electric vehicles, called Epic0, with unique technological contents compared to the competition and exclusively equipped with proprietary powertrain systems.

Epic0 is a compact electric vehicle, classified as a heavy quadricycle in the commercial version with L7e CU approval. In the company's plans, the project was created to meet the needs of the goods distribution of the so-called "last mile" and the distribution of goods in general, with a vehicle capable of carrying out a daily activity within urban centers.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Manufacturing & Production
- ✓ Operations & Maintenance
- ✓ Distribution & Installation
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PROJECTS IN AFRICA:



Rutten New Energy System
 Herstal • Belgium
www.rutten-nes.com

Skills, services, products, technologies

Rutten NES is a Belgian company founded in 2013 and basing its development on innovation and the search for simple solutions, particularly in the renewable energy sector. The company holds 35 patents and has commercialized many ground-breaking products and solutions.

To avoid premature aging and failure of the electrochemical storage system, Rutten NES decided to develop a totally innovative system that is not sensitive to high temperatures, with a storage capacity that does not degrade over time and which components are totally non-polluting and completely and easily recyclable.

This ecological and sustainable solution has been developed thinking of the most vulnerable remote communities and Small Island Developing States (SIDS) so as to provide them with a reliable access to solar photovoltaic energy 24 hours a day, for many, many days.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
- ✓ Training & Certification
- ✓ Education
- ✓ Promotion & Awareness



- Preservation of Water Resources
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- ✓ Software - Digitalisation - Data
- ✓ Other(s)



Solar photovoltaic generation combined with hydropneumatics long term energy storage for off-grid electrification.

PROJECTS IN AFRICA:
 Currently mainly working with Senegal, Cape Verde and São Tomé e Príncipe.



Sasso srl
Cuneo • Italy
www.sasso-italy.com

Skills, services, products, technologies

Sasso has one century experience in the distributed energy and water treatment technologies

Sasso can offer many solutions: power from few We up to 1MWe, stand-alone and grid-connected, hybrid solutions.

6 CLEAN WATER AND SANITATION



pumps - turbines - pv-pumping - hydro-pumping-storage - hydro-IoT.

7 AFFORDABLE AND CLEAN ENERGY



pumps - turbines - pv-pumping - hydro-pumping-storage - energy-IoT - energy efficiency - demande/response - micro-grid - pv-solutions - hydroelectric-solutions



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
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- Other(s)



PROJECTS IN AFRICA:

Ethiopia, Zimbabwe, South Africa, Morocco, Burkina Faso, Kenya, Tanzania, Mali, Senegal



SAVE INNOVATIONS
 Seyssins • France
www.save-innovations.com

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
- ✓ Training & Certification
- ✓ Education
- ✓ Promotion & Awareness

Skills, services, products, technologies

Save Innovations develops, manufactures and markets dedicated solutions for Smart Water applications.



The SMART PICOGEN is an autonomous permanent diagnostic station for the water networks. Thanks to the in-line monitoring of physico-chemical measurements (up to 7 parameters) and their real-time communication.



The PICOGEN®, labeled Solar Impulse Efficient Solution, is a turbine for the power supply of the instrumentation of water networks.



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- Other(s)

PROJECTS IN AFRICA:
 Ongoing discussions in Cameroun, Senegal, Ivory Coast and Niger



Sea Marconi Technologies
 Collegno (Turin) • Italy
www.seamarconi.com

Skills, services, products, technologies

Sea Marconi operates in the key sectors of energy and the environment, being a leader in the market of services, technologies and products for the management of electrical equipment. Sea Marconi is also engaged in the development of plants for the thermochemical conversion of biomass into bioenergy.

Sea Marconi is a comprehensive strategic partner alongside the most important industrial groups in the field of the production, transmission and distribution of power. Sea Marconi's market is expanding, also thanks to the awarding of prestigious international tenders issued by world organisations in Developing Countries. The core business of the company, the TransfoClean® product and service portfolio, includes services, products and technologies finalised toward the Life Cycle Management (LCM) of fleets of strategic equipment with insulating fluids supporting the holders in the difficult and very delicate task of asset management, loss prevention and environmental protection. Sea Marconi designed and implemented different units for the thermochemical conversion of a large variety of feedstock, including biomass, electronic waste, waste tyres, etc., into bioenergy and bioproducts.



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- Distribution & Installation
- Marketing

- ✓ Operations & Maintenance
- Dismantling & Recycling
- Training & Certification
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Preservation of Water Resources

Water Catchment

Water Treatment

Water Quality Control

Water Adduction/Transport

Water Distribution

Water Storage

Wastewater Collection

Wastewater Treatment

Water Desalination

Hardware - Smart metering

Software - Digitalisation - Data

Other(s)



Solar - PV

Solar - Thermal

CSP (Concentrated Solar Power)

Off-shore Wind

On-shore Wind

Hydropower

- ✓ Combined Heat & Power
- ✓ Geothermal
- ✓ Biomass - Biofuel
- ✓ Micro-grids
- ✓ Hydrogen

Energy Storage

Energy Efficiency

Hardware - Smart Metering

Software - Digitalisation - Data

- ✓ Other(s)

PROJECTS IN AFRICA:



Seacoop stp
 Turin • Italy
www.seacoop.com

Skills, services, products, technologies

SEAcop is a consultancy specialised in agriculture, forestry and earth sciences. SEAcop STP operates in land management to define sustainable solutions for the management of natural capital and ecosystem services.

Seacoop operates also for the development of energy communities



Water management, hydrology and hydrogeology. Water quality monitoring.



Biomass, hydroelectric and photovoltaic power plants design. Energy Communities management.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
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PROJECTS IN AFRICA:
 Uganda



SEED-Energy
Grenoble • France
seed-energy.fr

Skills, services, products, technologies

Seed-Energy is a software editor.

7 AFFORDABLE AND CLEAN ENERGY



Seed-Energy is expert in techno-economics and modeling of energy systems. It develops and markets the software ODYSSEY, the tool for design, optimization and investment decision support in energy projects. ODYSSEY builds a digital twin of the system (photovoltaics, batteries, fuel cells, electrolyzers, storages, etc.) and uses it in dynamic simulations to give an insight on its operation over several years. Combined with the use of artificial intelligence, ODYSSEY optimizes the energy system (sizing, control).

ODYSSEY has the capacity to perform a complete technical, economic, and environmental feasibility study of an energy system by providing key indicators to decision makers such as net present value, payback time, rate of return, avoided CO2 emissions, etc. It can help any energy actor finding the next suitable business models to address. ODYSSEY has been labeled “Efficient Solution” 2019 by Solar Impulse Foundation among 1,000 solutions around the world for climate and environment protection, and “Energized By Tenerrdis” by the French Cluster for the Energy Transition.



- ✓ R&D – R&I
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- Other(s)



PROJECTS IN AFRICA:



SHER Ingénieurs-Conseils S.A.
 Vedrin • Belgium
www.sher.be



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing
- Operations & Maintenance
- Dismantling & Recycling
- Training & Certification
- Education
- Promotion & Awareness

Skills, services, products, technologies

SHER Ingénieurs-Conseils is a Belgian consulting and engineering company active worldwide. Founded in 1985 and its head office is located in Namur (Belgium) since 1997.

The company brings innovative solutions for developing countries in the Water, Environment, Energy and Infrastructure.

Rural development, social development & food security
 Geomatics



Integrated water resources management
 Irrigation and hydro-agricultural development
 Water supply and sanitation




Hydropower (up to 15 MW) & sustainable energy



- ✓ Preservation of Water Resources
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PROJECTS IN AFRICA:
 Sub-Saharan Africa



SIGMADAF CLARIFIERS SL
 CORNELLA DE TERRI / GIRONA •
 Spain
sigmadafclarifiers.com



R&D – R&I

Studies - Design - Consultancy

Funding

- ✓ Manufacturing & Production
- Distribution & Installation
- Marketing

Operations & Maintenance

Dismantling & Recycling

Training & Certification

Education

Promotion & Awareness

Skills, services, products, technologies

SIGMA is a wastewater treatment company with more than 40 years of experience, whose reputation is based on cost-effective and reliable modular products. They design water treatment plants and create systems of cleaning solutions to reuse water for agricultural and industrial applications.

DAF, CAF and MBR units

6 CLEAN WATER AND SANITATION



Industrial Wastewater treatment plants. SIGMA uses the latest technology mix in DAF Systems and over 25 years of experience in its use for all types of industries. They are committed to the continuous improvement of their equipment. SIGMA designs all the equipment manufactured in the company. Each component is identified with a unique code to control the state of each piece and simplify the subsequent assembly. They minimise the faults that could arise when manufacturing and increase the quality of their products.

7 AFFORDABLE AND CLEAN ENERGY



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PROJECTS IN AFRICA:





Sotrad Water
 Nivelles • Belgium
www.sotradwater.be

Skills, services, products, technologies

Sotrad Water actively participates in facilitating access to drinking water for rural populations and improving the quality of life by implementing innovative and sustainable water solutions.

6 CLEAN WATER AND SANITATION



The range of Pump&Drink units is designed to provide sustainable, turnkey solutions for drinking water in rural communities. These solar stations come on new boreholes wells or in replacement of obsolete manual pumps.

In complement, Sotrad Water makes water treatment units for intermediate and peri-urban areas, in standard 20' or 40' fully equipped containers. These units are designed to meet the needs of small cities, base camps, industries and hospitals.

7 AFFORDABLE AND CLEAN ENERGY



Powered by solar energy or connected to the electricity grid, the water treatment plant units operate automatically, ecologically and efficiently to produce up to 200 m3/h.



- ✓ R&D – R&I
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PROJECTS IN AFRICA:

Ivory Coast, DRC, Nigeria, Togo, Sierra Leone, Benin, Tanzania, Mozambique, Cameroon



SURTEC
 Jarrie • France
www.surtec.com

Skills, services, products, technologies

Off-grid or self consumption system designer. Hybridation of PV, wind turbine, hydro power, genset, grid and storage.

6 CLEAN WATER AND SANITATION



Solar pumping, water potabilisation

7 AFFORDABLE AND CLEAN ENERGY



Multitechnology PV panels, wind turbines, water turbines, multitechnology storages, energy management, monitoring



R&D – R&I

- ✓ Studies - Design - Consultancy
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Operations & Maintenance

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PROJECTS IN AFRICA:
 Benin, Togo, Ivory Coast, Senegal, Burkina Faso



Tucai
 Barbera del valles • Spain
www.tucai.com

Skills, services, products, technologies

Experts in water flexible connectors

Hoses and valves manufacturer. They have an anti-fraude water valve patented



The company designs, produces and sells water flexible connectors and valves for sanitary, heating and HVAC

- ✓ R&D – R&I
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PROJECTS IN AFRICA:
 Selling in several countries: Morocco, Saudit arabia, Egypt, South Africa, Madagascar, Turkey



Unex aparellaje electrico, S.L, Hospitalet de Llobregat ,(Barcelona) • Spain
www.unex.net

Skills, services, products, technologies

Unex is a 57-year specialist manufacturer of non-metallic cable management systems with head office in Barcelona and manufacturing in Spain, with 28 branches in several countries and delivering to more than 50 countries.



Corrosion-resistant non-metallic thermoplastic Cable Management Systems such as Cable Trays, Ladders, Ties made of own formulated raw materials. These insulating solutions have very high durability and contribute to low OPEX costs and higher electrical safety for the installation. Unex has >40 year old existing installations in several countries' water sector.



Corrosion-resistant non-metallic thermoplastic Cable Management Systems such as Cable Trays, Trunkings, Cable Ties made of own formulated raw materials. These electrically insulating solutions have very high durability under severe and prolonged UVs and contribute to low OPEX costs, better reliability and higher electrical safety for the installation.



- R&D – R&I
- Studies - Design - Consultancy
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- Distribution & Installation
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PROJECTS IN AFRICA:
Morocco, Tunisia, Algeria, Egypt, Senegal, Malawi, South Africa, Namibia, Mozambique, Angola, Reunion, Mauritius



WE&B
 Barcelona • Spain
www.weandb.org

Skills, services, products, technologies

WE&B is a specialised environmental consulting company. By way of a cross-disciplinary focus, WE&B integrates social and business systems to solve complex environmental problems.

They can develop social network analysis (SNA) that provides insights into the power, influence and networking ability of the organisations within the water and energy sectors.

WE&B also undertakes a full diagnosis of a product, industry, sector or economy with insights, action plans and recommendations to bring it in line with circular economy principles.



- ✓ R&D – R&I
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PROJECTS IN AFRICA: Links Between Agricultural Practices and Biodiversity in Mediterranean Landscapes (IUCN MED) // Stakeholders Engagement, Knowledge & Communications on Coastal Zones Management in West Africa (World Bank) // AfriAlliance: Africa-EU Innovation Alliance for Water and Climate (European Commission- H2020) // Transfer and capitalization of green circular economy practices (Union for the Mediterranean).



Waterlogies

Waterologies SL
Igalada • Spain
www.waterologies.com



- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- ✓ Funding
- ✓ Manufacturing & Production
- ✓ Distribution & Installation
- ✓ Marketing
- ✓ Operations & Maintenance
- ✓ Dismantling & Recycling
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- ✓ Promotion & Awareness

Skills, services, products, technologies

United Nations supplier nº 466753 in Water Emergency devices and in remote places. Waterologies developed a mini-device that can clean large amount of water connected to a solar pannel, battery, even an smartphone, removing 99,99% of bacteria and 100% of turbidity. Solutions from 3W to 100W.

Waterologies designs, manufactures and supplies compact water treatment plants with a plug & play installation, with remote management to ensure proper operation and proper maintenance. Experts in microfiltration, ultrafiltration, nanofiltration and reverse osmosis

They carry out Industrial Symbiosis, treating industrial water effluents and transforming the waste from these treatments into valuable products.

Circular Economy



- ✓ Preservation of Water Resources
- Water Catchment
- Water Treatment
- Water Quality Control
- Water Adduction/Transport
- Water Distribution
- Water Storage
- Wastewater Collection
- ✓ Wastewater Treatment
- ✓ Water Desalination
- Hardware - Smart metering
- Software - Digitalisation - Data
- Other(s)



- ✓ Solar - PV
- Solar - Thermal
- CSP (Concentrated Solar Power)
- Off-shore Wind
- On-shore Wind
- Hydropower
- Combined Heat & Power
- Geothermal
- Biomass - Biofuel
- Micro-grids
- Hydrogen
- Energy Storage
- ✓ Energy Efficiency
- Hardware - Smart Metering
- Software - Digitalisation - Data
- Other(s)



Special low power devices for emergency and remote places for clean water.
Water treatment plants with a plug & play installation.



Solar solutions for water treatment.



PROJECTS IN AFRICA:
Guinea-Conakry: Solardistech15, Madagascar



Wave for Energy Srl
 Torino • Italy
www.waveforenergy.com

Skills, services, products, technologies

Wave for Energy is a spinoff company from Politecnico di Torino Engineering School, born to develop, industrialize and commercialize innovative renewable energy generation technologies in offshore environment.

The Wave for Energy team has more than 50 years collective experience in designing, prototyping, testing and development of technologies to generate energy from offshore renewable energy sources.



Wave for Energy is developing integrated wave-wind-solar energy generation technologies for the production of clean desalinated water. The systems can be used for small scale applications, offshore or near shore, or for powering large desalination plant. The nexus between offshore renewable energy generation and water desalination is a win-win solution, since desalinated water represents a great solution to convert and store the intermittent generation potential of the energy sources.



The first technology developed by W4E is the ISWEC wave energy converter. This technology has been licensed to Eni Spa and W4E is still involved in engineering, optimization and development activities. The company has been developing an integrated point absorber wave energy converter integrating also wind and solar technologies. This system can be scaled down for small scale applications and scaled up for large scale installations.

- ✓ R&D – R&I
- ✓ Studies - Design - Consultancy
- Funding
- Manufacturing & Production
- Distribution & Installation
- Marketing

- ✓ Operations & Maintenance
- Dismantling & Recycling
- Training & Certification
- Education
- Promotion & Awareness



- Preservation of Water Resources
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- Hardware - Smart Metering
- Software - Digitalisation - Data
- ✓ Other(s)

PROJECTS IN AFRICA:



Well Pumps
 Fleurus • Belgium
www.wellpumps.eu



Skills, services, products, technologies

Well Pumps is a manufacturer of water pumps and solar pumping solutions.

Well pumps offers solar pumping solutions for all the range of pumping (surface pumps, borehole pumps, sewage pumps, swimming pool pumps,...) for powers up to 220 kW with a patented hybrid solution for continuous operations (AC and DC power sources blended).

6 CLEAN WATER AND SANITATION



Well Pumps manufactures fully integrated solar pumping solutions, for all type of pumps, all powers up to 220kW and fully automatic and patented Hybrid solar pumping systems (AC and DC power sources)

7 AFFORDABLE AND CLEAN ENERGY



- ✓ Preservation of Water Resources
- ✓ Water Catchment
- Water Treatment
- Water Quality Control
- Water Adduction/Transport
- ✓ Water Distribution
- Water Storage
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- Wastewater Treatment
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- Energy Storage
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- Hardware - Smart Metering
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- Other(s)



PROJECTS IN AFRICA:



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For more information on the Italian SMEs please contact Environment Park :: www.envipark.com :: giulia.razetti@envipark.com
For more information on the Spanish SMEs please contact CWP :: www.cwp.cat :: comunicacio@cwp.cat

