

## Green Energy Technologies | Singapore & Philippines

### Selected European Companies

23 – 27 OCTOBER 2017

#### Green Energy Technologies

Company	Country	Sub-sector	Description
Aerocompact <a href="http://www.aerocompact.com">http://www.aerocompact.com</a>	Austria	Solar	Aerocompact® has branches in the USA, Austria, Germany, Netherland, Hungary, and a growing footprint in ASEAN as well. Its focus is the production of competitive mounting solutions for photovoltaic modules, integration and structural analysis. Its product portfolio contains different racking solutions for the use on Flat- roofs, Trapezoidal and Ground-mount surfaces. An online based engineering software has also been developed to create module layouts via Google Maps, complimentary for its customers.
ARIA Technologies <a href="http://www.aria.fr">http://www.aria.fr</a>	France	-Air pollution control -Efficiency -Carbon services	ARIA Technologies was founded in 1990 and is now an independent company, a leader in its field in Europe. It continually strengthens its competency through collaboration with leading laboratories in the area of fluid dynamics modelling and works with leading European laboratories to offer the most suitable solutions to industry, government, and engineering consultancies. ARIA Technologies offers a wide array of services such as conducting research studies, training, consulting and providing third-party expertise to its diverse range of clients.
BIOGEST Energie – und Wassertechnik GmbH <a href="http://www.biogest.at">http://www.biogest.at</a>	Austria	-Biogas -Biomass -Sewage treatment plant	Biogest is a European biogas plant manufacturer with its headquarters in Austria and subsidiaries in the UK, Italy, Romania, Serbia and the Czech Republic. Over 120 biogas plants generating electricity or biomethane have been installed to date. It is also actively operating in the fields of Biogas OPO (Own Plant Operations), energy efficiency and agriculture.
Biolang Ltd. <a href="http://www.biolang.hu">http://www.biolang.hu</a>	Hungary	Biomass	Founded in 1992, Biolang's solutions are focused on utilizing biomass in energy production. Its product sales are often linked with designing and manufacturing agricultural or other industrial product processing which consumes heat, steam or hot water. As such, various heat solutions have been developed for different machineries for aroma distillery, plant/vegetable factory, cannery and greenhouses.

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BISOL Group d.o.o. <a href="http://www.bisol.com/en/">http://www.bisol.com/en/</a>	Slovenia	Solar	BISOL Group is a European manufacturer of premium photovoltaic modules and mounting systems, offering a complete range of solar solutions available in more than 55 countries. With offices in Belgium, France, Italy, United Kingdom and Germany, it strives to raise awareness of renewable energy's importance and contribute to the development of the photovoltaic industry. Its worldwide installations have helped reduce 85,800 tons of CO <sub>2</sub> emissions each year.
CIEL & TERRE <a href="http://www.ciel-et-terre.net">http://www.ciel-et-terre.net</a>	France	Solar	With a recognised know-how in the integration of photovoltaic power plants in buildings or on ground, as well as sustained efforts in R&D, Ciel & Terre provides innovative floating solar solutions since 2011. As a floating solar pioneer and expert, we have developed strategic partnerships and export business of our Hydrelieo© system and have expanded its businesses worldwide.
Climacheck Sweden AB <a href="http://www.climacheck.com">http://www.climacheck.com</a>	Sweden	-Smart and green buildings -Energy efficiency -Information technology	ClimaCheck is the global leader of performance analysis for refrigeration, air-conditioning and heat pump systems. It also offers turn-key hardware, software and online monitoring and reporting / analysing services. Majority of its sales are exports from Sweden and approximately 50% outside of EU. ClimaCheck performance analyser was appointed refrigeration product of the year 2009 in UK and WWF Climate Solver 2011. Currently, more than 1,000 systems are placed on the market in all continents, with customers including global leaders such as Carrier, Daikin, Johnson Controls, Honeywell, DuPont, IKEA, Walmart and several universities.
CLOUDINDUSTRIES.EU <a href="http://www.aedilis.lt">http://www.aedilis.lt</a>	Lithuania	-Management and control systems -Information technology	CLOUDINDUSTRIES.EU's core business is engineering services for power T&D sites. Its first solution was a cloud-based monitoring system for renewable power plants such as wind, solar, hydropower. Now with Industry 4.0 solution, the main aim is to create solution for saving energy and tracking operations in factories and other industrial sites.
Cortus AB <a href="http://www.cortusenergy.com">http://www.cortusenergy.com</a>	Sweden	Biomass	Cortus Energy was found in 2006 to provide renewable energy gas solutions for industrial, power and transport applications that are based upon the patented WoodRoll process. It is a breakthrough biomass gasification technology that replaces fossil energy in applications where renewable alternatives have been lacking. This scalable and repeatable process helps create value to the local community and combat the climate change in the long run.

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Coveme <a href="http://www.coveme.com">http://www.coveme.com</a>	Italy	Solar	Based in Bologna, Coveme caters to 64 countries around the world, converting polyester film for various industrial applications such as photovoltaic modules, RFID antennas, biomedical sensor strips, electrical insulation, automotive, screen print and flexible packaging. Product and process innovation are at the heart of Coveme's activities and fundamental to the development of new products for highly technological industries centred on rapid growth and continuous evolution.
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Croft Additive Manufacturing LTD <a href="http://www.croftam.co.uk">http://www.croftam.co.uk</a>	United Kingdom	-Water solutions -Energy conservation	Croft Additive's main products are manufacturing additive manufactured (3D printed) parts using stainless steel 316 in-house at the site in Risley, UK. With this technology, specific requirements for its customers can be manufactured, of which includes filters that cannot be manufactured conventionally. This design freedom brings about endless opportunities to the industry.
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CS Control Software Oy <a href="http://controlsoftware.eu">http://controlsoftware.eu</a>	Finland	-Energy efficiency -Information technology	Founded in 2006, CS Control Software provides several types of automation services, including start-up and commissioning services and several types of solutions. These solutions include data collection, Big Data, Internet of Things (IoT), data analysis and etc. These services have been expanded in 2016 to include the data analysis to provide small, useful data from big collected data, augmented (AR), virtual (VR) and Mixed Reality (MR) solutions for automation applications.
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Ecotricity Group Limited <a href="http://www.ecotricity.co.uk">http://www.ecotricity.co.uk</a> <a href="http://www.britwind.co.uk/">http://www.britwind.co.uk/</a>	United Kingdom	Wind power	Ecotricity, founded in 1997, is the world's first, Europe's largest and Britain's greenest energy company. Ecotricity has over 90MW of installed renewable generation and almost 200,000 domestic and business customers for its 100% green electricity and green gas. In 2014 Ecotricity launched Britwind to offer small wind turbines for homes and businesses to generate their own green energy - designed and manufactured in Britain. Britwind's R9000 5kW turbine is the UK's most reliable horizontal axis wind turbine with over 2,000 installations worldwide. The new 15kW H15 turbine sets a new standard for production efficiency and low cost of ownership.
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Ekoenergetyka-Polska Sp. z o.o. <a href="http://www.ekoenergetyka.com.pl">http://www.ekoenergetyka.com.pl</a>	Poland	Electric vehicles	Ekoenergetyka is one of Europe's leading providers of electric bus charging solutions. Its main products are DC high power chargers for electric buses. The products are manufactured in the headquarters in Zielona Góra, Poland, and sold directly to customers all over Europe. Its "New Electric Transport technologies' R&D Center" is scheduled to be built in 2017-2018 which helps expand its production capacities as well as step up on its R&D activities.
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eluminocity GmbH <a href="http://eluminocity.com">http://eluminocity.com</a>	Germany	-Electric vehicles -Smart city	eluminocity has a wide range of products, including electric car charging stations, LED streetlights, streetlights sensors and etc. While its products are modular and can be sold individually, its vision is to provide a combined smart city solution when existing infrastructure is being upgraded.
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Energy Pool <a href="http://www.energy-pool.eu">http://www.energy-pool.eu</a>	France	-Energy efficiency -Demand management	Energy Pool is a worldwide demand response leader, aggregating industrial and commercial electricity consumers to provide flexibility to the electric system. Consumers are empowered and become actors of system balancing while reducing their electricity bill. It now operates over 3 continents, including France, the United Kingdom, Japan, South Korea, Turkey, Belgium and Cameroon. Together with its world-class partner ATOS Worldgrid since 2017, Energy Pool is also providing global optimization solutions to Utilities including full Virtual Power Plant (VPP) management system (called FleXmart), to help them to meet digital and energy transition key challenges.
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EnergyTransformers Holding B.V. <a href="http://energytransformers.asia">http://energytransformers.asia</a>	Netherlands	-Biomass -Waste to energy	EnergyTransformers has developed an industrial transformation process delivering consistent high quality BioCoal & BioChar, meeting the demands of its global customers. BioCoal & BioChar are high value products addressing the global & increasing needs to replace fossil fuels for the generation of heat & electricity. Both are sustainable, competitive, clean and natural alternatives. EnergyTransformers™ increases the quality, sustainability and value of the entire chain, and complies with Corporate Social Responsibility (CSR) programs, ISO 26000 and Good Governance Policies.
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EnviTec Biogas AG <a href="http://www.envitec-biogas.de">http://www.envitec-biogas.de</a>	Germany	Biogas	With a presence in 17 countries worldwide, EnviTec Biogas AG covers the entire value chain for the production of biogas, including planning and turnkey construction of biogas plants and their commissioning. It takes charge of biological and technical services on demand and offers full plant and operational management. In addition, EnviTec also operates its own biogas plants. In 2011, it expanded its business operations into the direct marketing of upgraded biomethane as well as the marketing of green electricity and balancing energy.
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ESPE SRL <a href="http://www.espegroup.com">http://www.espegroup.com</a>	Italy	-Biomass -Hydropower -Smart grid -Solar -Wind	Espe produces technologies for the generation of energy from renewable sources. It produces Hydro power turbines; Small Wind Turbine Generators; Biomass Co-generators; Biomass Boilers and Plug&Play Stations; Turn-key PV systems. Its head office and production facility is in Italy where the design, development and production of its products take place.
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EVOLUTION ENERGIE <a href="http://www.evolutionenergie.com">http://www.evolutionenergie.com</a>	France	-Energy efficiency -Information technology	Evolution Energie is a leading software editor for energy monitoring, environmental reporting, commodities trading and risk management solutions. Its software FLEXINERGY allows managers to access the volumes and costs of their energy and environmental resources, as well as reporting on multiple sites and multiple commodities such as power, natural gas, waste, etc. in real time. Some of its features include resource management with international standards, providing predictive analytics and optimized decisions and etc.
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GEOtest, a.s  
<http://www.geotest.cz>

Czech  
Republic

-Environment  
protection  
-Smart city

GEOtest is one of the largest and most important Czech firms dealing with protection of the environment through geology and environmental remediation, as well as in geotechnical and hydrogeological research. It has 40 years of experience in these fields and its activities branch out into 6 areas: Water and rock protection research; Remediation activities for environment protection; Waste management; Geotechnics and engineering geology; Hydrogeology and Expert reports, studies, expert opinions (E.I.A., environmental audits, risk assessments, EMS - Environmental Management System).

Geppert GmbH  
<http://www.geppert.at>

Austria

Hydropower

Geppert's core competence is in the production of small hydro power plants. It also produces various water turbines and individual solutions as a turnkey contractor. Depending on the requirements, Geppert has different turbines (Pelton, Francis, Diagonal or Kaplan) to cater to the needs. Its plants are fully automated and equipped with remote control and visualisation.

HyGear B.V.  
<http://www.hygear.com>

Netherlands

Industrial gas

Established in 2002, HyGear develops cost-effective gas supply by enabling energy efficient technologies and designs, installs and operates the supply of industrial gases on-site. It also covers the area of biogas upgrading and biomass gasification and upgrading as well. HyGear owns the trademarks and patents for all the systems and the production of the systems are done at the facilities of HyGear in Netherlands.

Irmie Impianti S.r.l.  
<http://www.irmieimpianti.com>

Italy

-Railway  
Infrastructure  
-Rolling Stock  
-Smart city

Founded in 1993, Irmie has been operating in the railway sector for 50 years. It is now a leading company, at the forefront in the design, manufacture and installations of Test Benches, Power Supplies and turnkey solutions for rail and metro applications. With over 30 agencies all around the world, it ensures a local presence in different regions, from a marketing service to an efficient after sales service. It is committed to pursuing developments in the rail and electrical sectors. Precision of results, attention to safety and technological innovation have always been its reference points.

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KMB systems, s.r.o. <a href="http://www.kmb.cz">http://www.kmb.cz</a>	Czech Republic	-Smart grids -Energy conservation -Energy efficiency	KMB was established in 1991 with the aim to deliver effective solutions and services for our clients in electric energy generation, distribution and its effective usage. Its production line includes power factor controllers, power quality analysers, multimeters, energy counters, instruments for energy monitoring and management. It has progressively expanded to foreign markets in Europe, Asia and Middle East and now focuses on R&D.
Onyx Solar Energy S.L. <a href="http://onyxsolar.com/">http://onyxsolar.com/</a>	Spain	Solar	Founded in 2009, Onyx Solar Energy brings smart solutions by integrating PV technology on buildings, facades and etc. Committed to the development of intelligent solutions for sustainable integration of solar energy photovoltaic in buildings, its solutions contemplate the integrations of façades with the aim of optimising the energy production as well as energy savings for the building.
Pervatech B.V. <a href="http://www.pervatech.nl">http://www.pervatech.nl</a>	Netherlands	Separation technology	Active in more than 80 countries worldwide, Pervatech develops, produces and sells membrane technology products and services for pervaporation applications. This includes membranes, modules, lab scale test equipment, pilot plants, consultancy and testing services. Its key applications include solvent dehydration, purification, aroma and fragrance winning etc.
Plugit Finland Oy <a href="http://www.plugit.fi">http://www.plugit.fi</a>	Finland	-Energy efficiency -Carbon services	Plugit is driven by a commitment to advance EV charging technology with high-standard customer service. They provide charging and total energy solution for both B2B and B2C customers in electro mobility with a CaaS (Charging as a Service) approach. Their services includes designing and building IoT connected Green Corridors and Zero Emission Zones for businesses of all scale and type.
Polytechnik Luft-und Feuerungstechnik GmbH <a href="http://www.polytechnik.com">http://www.polytechnik.com</a>	Austria	Biomass	As one of the globally leading suppliers for biomass combustion plants and famous for their planning and delivery of turn-key plants, Polytechnik is committed towards sustainable industrial research and technology development to maintain their competitiveness in the international market with innovative products and services. With their generation of ecologically compatible products aligned with current trends and utilisation of state-of-the art technology in growing markets, they are bound to make a significant contribution to the CO2 neutral energy generation.

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SolarNext AG <a href="http://www.solarnext.de">http://www.solarnext.de</a>	Germany	-Energy efficiency -Smart city -Green building	SolarNext integrates flexible photovoltaic into membrane constructions and develops solar/thermal cooling & heating systems for private, commercial and industrial applications. Currently, the only controller available on the market is SolarNext's renowned chillii® system controller, which allows effective full control of the whole cooling system with one controller.
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SOLEDOS GmbH   SOLARFOX® SOLAR DISPLAY SYSTEMS <a href="http://www.solar-fox.com">http://www.solar-fox.com</a>	Germany	-Energy efficiency -Information technology	SOLEDOS has an international focus on renewable energy and the visualisation of its energy data. With its brands SOLARFOX and ENERGYFOX, SOLEDOS makes energy tangible in order to sensitise energy consumption as well as to accelerate sustainable behaviour. Solarfox® displays present the performance and capacity data of photovoltaic systems in a unique way. The data is displayed in several appealing diagrams, which can be combined and customised with individual content, such as logos, advertisements or images. Hence, sustainability efforts are visualised and effectively presented to the public.
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Steadysun <a href="http://www.steady-sun.com">http://www.steady-sun.com</a>	France	Solar	STEADYSUN SAS, founded in 2013, is a spin-off of CEA. After more than five years of R&D, it offers a range of professional solar production forecasting services to contribute to a better integration of the solar energy in the power grids. Their solutions are designed to anticipate the solar energy injection into the networks (transport and distribution), to reduce power plant operation costs and in general optimize the management of an asset portfolio which includes solar resources. Its solar forecast solutions are currently implemented on more than 1400 PV plants in a dozen of countries worldwide.
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SVCS Process Innovation <a href="http://www.svcs.cz">http://www.svcs.cz</a>	Czech Republic	Solar	Established in 2000, SVCS Process Innovation designs and manufactures batch horizontal furnaces for the semiconductor and photovoltaic industry. Its products are outstanding due to quality selected components, experienced engineers and competitive prices. Their products include equipment for solar cell production - horizontal and vertical furnaces for POCI3 and BBr3 diffusion, batch PE CVD passivation/ARC and oxidation and gas source systems for ammonia, silane, nitrogen, oxygen and other ultra-high purity (UHP) gases.
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Swimsol <a href="http://www.swimsol.com">http://www.swimsol.com</a>	Austria	Solar	Swimsol has been developing floating marine-grade solar technology since 2010, aiming to create a cost-effective marine solar power solution for the populated tropical coastal areas which are facing land scarcity. With a strong portfolio in Maldives, Swimsol is now expanding to other markets in Indonesia, Malaysia, Singapore and Philippines who are keen on renewable energy strategies and floating PV options.
SYMBIONA S.A. <a href="http://www.symbiona.com">http://www.symbiona.com</a>	Poland	-Waste water treatment -MBR technology -Biogas	Symbionia, a multinational technology provider with over 120 projects for industry and municipalities, specialises in complex wastewater treatment applications. Their water and wastewater treatment technologies includes classical filtration, biological systems and our proprietary anaerobic and membrane technologies, ie: AnoxyMem® - Anaerobic Membrane Bioreactors allowing to 99,5% COD removal from high-strength wastewater, AnoxyBed™-EGSB tower reactors for industrial wastewater. In 2016, Symbionia won the AD & Biogas Industry Awards of the category: Innovation in sewage treatment through AD.
SYSADVANCE SA <a href="http://www.sysadvance.com">http://www.sysadvance.com</a>	Portugal	-Biogas -Separation technology -Industrial gas	SYSADVANCE, SA started its activities in 2002, as a spin-off company from a university R&D laboratory with over 40 years of experience in gas separation technology. Present today in more than 40 countries, they have developed and manufactured on-site gas generation and gas purifiers, as well as integrated solutions for compressed air and technical gases. SYSADVANCE product portfolio is comprised of Nitrogen Generators, Oxygen Generators, including Medical Oxygen 93 and VSA Oxygen Generators, solutions for purification of biogas, Helium, Hydrogen and SF6, as well as a wide range of "turn-key" customized engineered solutions.

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Trace Software <a href="http://www.cythelia.fr">http://www.cythelia.fr</a>	France	-Energy efficiency -Solar -Information technology	For over 20 years, Trace Software has been providing their customers with fully independent support and guidance to address their energy challenges. Providing consulting services throughout the entire project lifecycle, from delivering decision-making support through to rolling out solutions and tracking their performance over time. archelios™ suite is one of their unique solution which allows their customers to work on the entirety of a photovoltaic project from the feasibility study to the complete generation of the calculation notes and documentation which are needed for its implementation, to its operation and maintenance and end-of-life.
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Xergi <a href="http://www.xergi.com">http://www.xergi.com</a>	Denmark	-Biogas -Biomass	With more than 30 years of extensive experience, Xergi is a leading supplier of advanced turnkey biogas plants. Their biogas plants use organic waste materials from the agricultural sector, food waste or commercial organic waste to produce a renewable energy in the form of electricity or gas. It also offers full turnkey biogas plants, automated control systems, training and education, biological support, O&M packages, and support from in-house research & development team.
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Zeco Srl <a href="https://www.zeco.it">https://www.zeco.it</a>	Italy	Hydropower	Founded in the 60's, Zeco started off in the hydropower Italian market. In the 1985, they delivered the first HPP for the foreign market (Tanzania) – STAND ALONE project for Rural Electrification. Subsequently, Zeco produced Hydro turbines including Kaplan, Submerged Kaplan, Francis, Pelton turbines up to 12 MW. They use all the latest technology to guarantee the best reliability and efficiency, such as CAD-CAM and CFD softwares. Zeco also proposes customized solutions for full-service, ordinary and extraordinary maintenance according to their customers' necessity.
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*Information is accurate as of 2 September 2017*