

The India Sweden Innovations' Accelerator

*Swedish business
delegation to India
April 16-21, 2018*



Message from the Ambassador

I am delighted that the India-Sweden Innovations' Accelerator Program has developed into such a successful collaboration between our two countries and that it continues to pave the way for companies to participate actively.

I am pleased to welcome the delegation from Sweden comprising representatives from Swedish companies and congratulate the Swedish Energy Agency and Business Sweden for promoting collaborations in new and renewable energy.

India is a vibrant democracy with a high potential of economic growth and an important country for Swedish business. Relations between Sweden and India are growing and will lead to further broadened bilateral collaboration, trade and investment.

Sweden has great experience in innovation, sustainability and development which we hope can contribute to India's economic growth and development. Over the years, Swedish cleantech SMEs have reached remote areas of India and many are working closely with local partners to improve quality of life for many.

I am confident that the Innovations' Accelerator program will strengthen partnerships between Swedish and Indian companies in the field of sustainable energy efficiency!

Klas Molin
Ambassador of Sweden to India



Team Sweden Energy in India

International cooperation is essential for the development of a sustainable energy system, and the careful selection of partners is a key to success in this work.

Since 2009, the Swedish Energy Agency has been working in India to promote knowledge exchange and facilitate collaboration between India and Sweden in the field of new and renewable energy.

Frontrunner cities such as Vishakhapatnam and Rajkot have engaged with us in dialogues on sustainable city development concepts that use waste for energy.

This delegation is an activity under the India Sweden Innovations' Accelerator. The programme has resulted in concrete technology transfer and commercial partnerships ranging from biogas, and energy efficient electric vehicles, to energy efficiency in buildings. The Swedish energy technologies reflect the best from the Swedish innovations system and we are happy to notice the dedicated interest from the Indian side, to absorb new ideas and co-create solutions of today and for the future.

An example of this is the Lumingo E4T Smart Grid Concept. Swedish Pamoja Cleantech, Inresol and Swedish Royal School of Technology are working together with Tezpur University Campus in Assam to put up an integrated and scalable Micro Grid concept based on a poly-generation platform with minimum environmental impact and maximum efficiency. The system is based on renewable energy from solar and biomass in

combination with cutting-edge stirling engine technology from Sweden, and smart energy storage. Besides the power system, the holistic concept will also include other sustainability benefits ranging from circular economy to soil improvement. At the heart of the concept lies Lumingo smart monitoring and demand response system, balancing the different loads to match peak generation and prevent from power outages.

Together with the Embassy of Sweden, our collaboration partners The Swedish Trade and Invest Council – Business Sweden, and the Confederation of Indian Industry, we work to establish concrete cooperation projects between industry actors in both countries. We all share the interest to work towards innovative solutions for sustainable energy.

Mr. Ludvig Lindström
Country Manager India
Swedish Energy Agency



ISIA Delegation 2018

The India Sweden Innovations' Accelerator Programme focuses on innovative business of renewable energy and energy efficiency, between India and Sweden.

India and Sweden share a common objective on the need for innovation to build domestic competitiveness, as well to respond to the needs of growing demands in an energy-constrained world. Green economy, including clean tech technologies, can decrease energy consumption and help to use energy more efficiently – Therefore the Innovations' Accelerator targets innovators, inventors, entrepreneurs as well as established business actors and institutions, which share a view towards innovative energy solutions.

The Innovations' Accelerator is one way to build much needed bridges towards joint innovation research, development, and deployment, which answer shared needs and are of mutual benefit. It develops partnerships through physical meetings, including workshops and on-site one-on-one interactions.

As an important part of the Innovations' Accelerator, a virtual meeting room caters to a wide spectrum of stakeholders, including business, academia, and researchers. Webinars are held on questions of market integration, challenges to expansion. Information is continuously shared, that specifically targets and facilitates entrepreneurs and innovators as they look to grow their business.

The Innovation Accelerator programme is a part

of inter governmental cooperation between India and Sweden in the area of new and renewable energy technology.

The Accelerator is backed by the Swedish Energy Agency. Business Sweden and the Confederation of Indian Industries – Green Business Centre are programme partners. Together, all partners bring with them a strong history of international business development. The Programme partners filter interest, develop bridges and build trust. The virtual meeting room provides a window to the real-time business ecosystem. It tracks news in the world of technology, policy, academia and the market.

Welcome to join us!

Read more:

www.innovationsaccelerator.com

The logo consists of the word "INNOVATIONS'" in a light green, sans-serif font, positioned above the word "ACCELERATOR" in a dark green, sans-serif font. The text is centered within a dark green rectangular background.

Organizers

The Swedish Energy Agency

The Swedish Energy Agency is a Swedish governmental organisation with an overall responsibility of promoting sustainable energy systems through the use of renewable energy, energy efficient technologies, a smarter end-use of energy, and mitigation of climate change.

Besides policy development and international collaborations, the Swedish Energy Agency is also an active public financier of early and growth stage clean tech companies in Sweden through a system of grants and soft loans.

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Business Sweden

Business Sweden's purpose is to help Swedish companies reach their full international potential and foreign companies to invest and expand in Sweden. We offer our customers strategic advice and hands-on support in 50 of the world's most interesting markets.

Business Sweden is owned by the Swedish Government and the industry, a partnership that provides access to contacts and networks at all levels. Business Sweden was founded on the first of January, 2013, by a merger of the Swedish Trade Council (Exportrådet) and Invest Sweden.

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Organizers

CII

The Confederation of Indian Industry, CII, and particularly the CII – Sohrabji Godrej Green Business Centre in Hyderabad, is actively promoting innovative, green solutions.

The Centre is an institution of national scale, setting standards and promoting best practice in environmental technologies in industry and buildings, setting among others an Indian certification standard for Green Buildings.

The CII is a non government, not-for-profit, industry led and industry managed organisation that works through partnering industry and government to create a greener growth in India.

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Confederation of Indian Industry

Participating Companies

Absolicon Solar Collector

Absolicon is building on a Swedish research tradition starting in the 1970 and intensified during the referendum regarding the use of nuclear power in Sweden. During 2005 to 2012, several pilot installations and commercial applications were developed. Absolicon in its current form was then formed in 2013 and was introduced on the Swedish stock exchange in 2016. In 2016, Absolicon signed an agreement and sold a production line with an annual capacity of 100 000m² to Heli New Energy Technology Co. Ltd which enables Heli New Energy to manufacture, market and sell the Absolicon product T160 under a license agreement.

The business idea is to excel in the knowledge, product experience and production technology of small parabolic troughs and in systems that profitably can provide energy to district heating networks, industrial process heat, solar thermal and solar cooling.

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Aili Innovations Scandinavia AB

Aili Innovations Scandinavia AB is an innovation company focused entirely on developing environmentally friendly and energy efficient solutions that can improve the living conditions of millions of people worldwide.

Its first product is a unique water pump capable of replacing traditional diesel pumps for agricultural irrigation using a small solar panel. The system is powered by 12 volts 49 watts and can deliver up to 24 cubic meters of water with 10 hours of sunshine. Our goal is that no woman, no child, will need to carry water and no-one will need to use fossil pumps to move water to their crops. Its pump solution will save water and help farmers to increase their revenue while at the same time protecting the environment.

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Participating Companies

Airec AB

Airec is an innovative Swedish company that develop, produce and sell innovative plate heat exchangers for gas-to-liquid heat transfer (asymmetric heat exchangers). Airec focus on unique stainless-steel plate heat exchanger designs for target applications where standard products commonly available on the market do not meet the customer's need. The Airec design has been proven a very reliable technical solution, with thousands of installed units running problem-free for many years. With Airec's innovative heat exchangers, higher energy efficiency (higher heat recovery) can be achieved. The high efficiency (high heat transfer rates) also brings smaller footprint and lower weight, attributed to less material used in the product. Airec products are protected globally by a wide range of patents which enables Airec heat exchangers to handle the high gas temperatures (up to 1700 deg C) in many applications.

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Bioprocess Control Sweden AB

Bioprocess Control is a market leader in the area of low gas flow analytical instruments for Biotechnology related applications. The company invests in innovation and development of smart instruments that allow for more efficient, reliable and higher quality R&D and analysis, leading significant reductions in time and labour. The company offers biogas / smart analytical instruments for both research and commercial analysis within biogas, organic wastes and wastewater treatment. Bioprocess Control has over a thousand customers from nearly 500 organizations in 61 countries, covering both academic research institutes and industrial players in biogas, wastewater and animal nutrition sectors. The company is present in India through its Bengaluru based distribution partner - Elixir Technologies.

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Participating Companies

Clean Motion

CleanMotion has developed the next generation of super-efficient clean vehicle. Zbee is a three-wheeled electric vehicle for short distance transportation of up to three people and smaller goods and is designed to meet the needs of first and last mile connectivity in most Indian cities.

It will significantly improve the environment both locally and globally, through its energy efficiency and zero emissions. As of now, the Zbee is the only electric L5 category vehicle (AutoRickshaw) and has started operations in Cyberhub, Gurgaon with several new vehicleclusters in India planned for the next six months.

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Elpanneteknik Sweden AB

Elpanneteknik is a Swedish private company and one of few world leading experts within High Voltage Electrode- and Low Voltage Element Steam- and Hot Water Boilers.

The management has experience from more than 1000 boiler installations in almost 50 countries. This within District heating/cooling, Nuclear, Marine & Offshore (including India), Pharmaceutical, Dairy, Breweries, Car Industry, Papermills etc.

With an efficiency of almost 100%, Electric boilers from Elpanneteknik provide an economical, sustainable, silent, pollution free alternative or complement to traditional oil- or gas fired boilers regardless application.

A key focus area is Thermal Energy Storage where the boilers in combination with accumulators are used for utilizing difference between “peak and valley” period where there is a need of hot water. Considering ability to regulate the output (from minimum to maximum with less than 30 seconds), the boilers are used for balancing the electrical grid.

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Participating Companies

FMTTP Power AB

FMTTP Power consists of experienced specialists from the power industry. The company has expert knowledge and experience in the Power Substation world, Smart Grid, IEC 61850 Protocols, maintenance and test instrument markets.

Serving as truly independent consultants, the company has more than 20 years of experience each from well-known industry groups (ABB, GE, Siemens), as well as combined with resources from the IT and communication world (Ericsson, etc.).

Through its innovative product GridEx® and other products, power network owners and service companies have access to a cyber-secure test and audit tool. GridEx® is designed to make from large amounts of complex IT data readily available in their electrical language to the power engineers with valuable information, powerful suggestions and reports. As non-PC and dedicated non-injecting products can also be used “live” to monitor and analyse the networks with full cyber security

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Polyamp

Polyamp is a Swedish high-tech company established in 1966 with production in both Sweden and Switzerland. A pioneer in switch mode technology and world leading in naval mine protection systems. Polyamp Power Division specialises in DC/DC converters used in applications demanding high reliability in rough environments, such as in Railways, Power/Energy, Telecom, and Defense industries.

Polyamp prides itself to be “a secure part of your system” as its stand-alone converters are fully integrated (with EMC protection) and have a very high reliability and electrical performance score, even in harsh electrical and physical environments.

Polyamp innovation process is production based, which ensures its quality and flexibility in responding to needs.

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- A secure part of your system

Participating Companies

Senseair

Senseair develop and produce affordable precision gas sensors for high volume applications. With 20 years 'experience, Senseair has become a world leader in the field of infra-red gas measurement technology.

Senseair sensors can be used in wide range of different applications. One of our major markets is building automation where our sensors control individual fans, dampers valves etc. In addition, complete air-handling and air-conditioning units help us create a better indoor environment and energy savings by measuring CO2.

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Solvina International AB

Solvina is an engineering consultant company highly specialized in dynamic performance of complex industrial processes and power plants and systems. Since many years, the company has been working with performance testing and tuning of power plants. It has been working for almost 20 years with optimization of frequency control of governors, especially for island operation and general grid code compliance, where new power plants are tested and approved for commercial operation.

The head office is located in Göteborg Sweden, and a subsidiary has also been established in Delhi (Noida) India. In India, it has been working since 2014 with power plant related projects in captive and cogeneration plants, with combined steam power studies, island operation testing and planning, stability analysis and protection coordination.

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Participating Companies

Torkapparater

Torkapparater designs and sells turnkey systems with rotary dryers, kilns and coolers for thermal processing of solid materials. Torkapparater's scope of supply also includes energy, heat recovery, materials handling systems, off gas, VOC treatment, as well as overall process control and safety systems.

The indirect heat transmission design of Torkapparater's products enables separation of the energy supply stream from the materials and vapours/VOC streams and the use of different energy sources. Torkapparater is focusing on delivering its products to the mineral and chemical industry, biomass and power generation and industrial sludge and recycled products.

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Unipower

Originating from ABB Kabeldon in Sweden, Unipower AB has developed a competitive edge within the field of Power Quality Systems. Unipower AB offers a wide range of products, systems and services to measure, store and analyze power quality data with the highest accuracy class.

The powerful system, PQ Secure, provides the user with all needed data to identify, support and prioritize actions towards increased power efficiency and smarter use of available capacity.

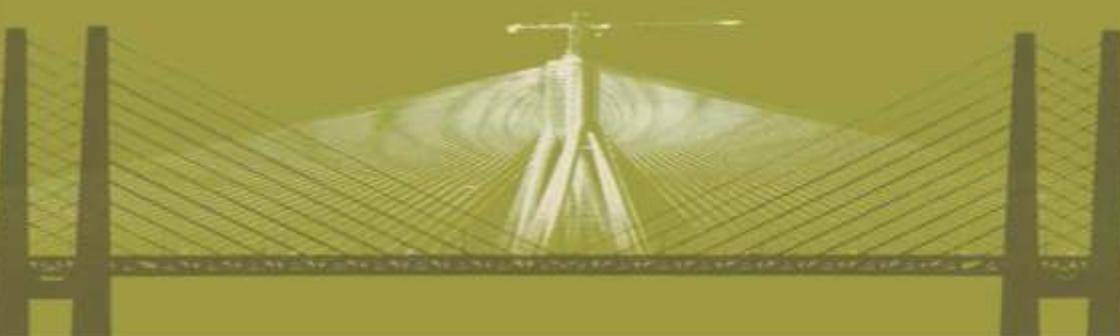
Unipower AB also provides the user with the tools for deeper analysis of any disturbances and its origin as well as a fully automatic alarm and report system to monitor and store all data at all time, and to be triggered on any deviation to limits decided by the user or the National Grid Code.

Unipower AB provides the customer with a system to save cost and to limit the environmental impact by becoming more energy efficient.

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About the Innovations' Accelerator

The India Sweden Innovations' Accelerator offers a meeting point for dialogue, business and partnering between players in India and Sweden.

Read more and register at www.innovationsaccelerator.com

Organizers



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