

Press release

The 25 most promising Nordic cleantech start-ups selected by an international jury

We are very proud to present the top 25 Nordic Cleantech start-ups.

The companies represent not only the very best from the Nordic Cleantech Startup scene. They also represent a wide variety of solutions to problems using an equally wide variety of technologies. There are roughly 5 cases each within the areas of biotechnology, energy efficiency in buildings and renewable energy generation but none of them in any way resembles any of the others. In fact, the 25 companies are excellent examples of the enormous width of the Nordic cleantech field known to be the most innovative in the world.

This fourth edition of the Nordic Cleantech Open competition saw a record breaking 111 cleantech companies applying. An international jury of more than 50 influential representatives from multinational companies and venture capital have been involved in selecting this year's top 25. Among the jury members are representatives from International Finance Corporation – IFC (Int), SABIC Ventures (Saudi Arabia), Shanghai Electric (China), Global Acceleration Partners (Canada), IdInvest Partners (France), Robert Bosch Venture Capital (Germany), Mahle (Germany), EDF (France), Capricorn Cleantech Fund (Belgium), Dow Chemicals (Switzerland), Grundfos (Denmark), The Swedish Energy Agency and others.

“Every year we have run the competition we have been equally surprised as to how many great new companies that are emerging. Will it never stop, you ask yourself. So far it has not, it just keeps increasing, both when it comes to numbers and when it comes to quality. This year's top 25 well represents the high innovative level, the large spread and the great opportunities that lies in the Nordic Cleantech Scene”, says Olof Blomqvist, responsible for running the competition at Cleantech Scandinavia – organisers of the Nordic Cleantech Open.

“The Nordic Cleantech Open is a great way for us to gain insight in the developments in the cleantech start up landscape of the Nordics. We are very impressed with the line up of the top 25 and look forward to meeting the entrepreneurs.” Says Mary McCarthy, Investment Manager SABIC Ventures

The selection of the top 25 is just the beginning for these companies. An intensive program lies ahead. 21-22th of March the international jury and the companies will meet for a weekend at Nordic Camp at Trolleholm Castle. The winners will be announced at the finals at the Cleantech Capital Day in Malmö, May 19th.

Here are the selected 25:

3eflow

Sweden

3eflow develops and sells an innovative tap water flow solution. The technology auto-fill the pipeline only when you open the tap. The tubes are thus empty 98-99% of the time. The solution delivers increased comfort, 30% savings in water usage and huge energy savings.

Aurelia Turbines

Finland

The company commercializes very efficient 450 kW gas turbines. The Aurelia turbine has higher efficiency than any other technology in its output class. The company has already signed LOI's for 245 turbines to be delivered during the first three operational years.

Bioextrax

Sweden

Bioextrax is focused on the development and commercialization of a unique bio-extraction platform technology. The technology platform can be used, among other things, for the efficient extraction of PHA plastics (bio-based plastics), protein hydrolysate from protein rich waste, and bio-oils from micro algae.

Biotech

Sweden

Biotech's mission is to prevent eutrophication, ensuring access to clean water, and to recycle phosphorus, thus securing food supply for a growing population. Biotech's filter bed technology can both treat and recycle phosphorous in a cost effective manner. The technology is flexible and modular allowing it to be used for different needs and environments. It is easy to operate and requires limited investment.

Biosampler

Denmark

BioSampler's unique automated sampling and analysis system solution improves yield and productivity of industrial bioprocesses. Sampling is a widely recognized productivity bottleneck in this industry. Biosampler estimates that sampling problems exist in 15.000 bioreactors around the world. The sampling system can easily be assembled in all these existing reactors and pipelines.

Biosyntia

Denmark

Biosyntia produces chemicals using enzymes and cellular factories and thus replaces oil. The key technology is a selection system, which allows only successful strain variants to be selected. This significantly reduces the time and cost needed to develop highly productive cellular factories.

Cleanfield

Denmark

Cleanfields BioBox is an automatically driven installation, which removes or reduces organic pollution, especially hydrocarbons from large volumes of soil or sludge. It can be installed as a plug and play unit and can after completion of a cleaning service, be moved to a new location.

Fourdeg

Finland

Fourdeg's solution improves the energy efficiency in district-heated buildings. Savings are in the span of 15-30% of energy use and indoor temperature quality is improved. Finally the solution improves the efficiency in the district-heating network by levelling peak loads.

Free Energy Innovation

Norway

By taking the best from the solar industry crossing it with state of the art within the heat pump industry, Free Energy Innovation has developed HYSS – Hybrid Solar System. The combination of the new generation of inverter controlled heat pumps and thermal solar panels, gives a SCOP (Seasonal Coefficient Of Performance) in the range 6-8, which is 2 times higher than a traditional ground source heat pump.

Greinon

Sweden

Greinon develops smart control system for LED lighting. The innovative component of the product is algorithms used for communication between lights and user's computer, and the competitive advantage is the system's flexibility.

Heliac

Denmark

Heliac possesses the technology to roll-to-roll manufacture of concentrated solar plants at a 10 times lower cost than present glass-mirror based technologies. Predicted cost of heat using this technology is significantly lower than using natural gas or coal.

Icesolution

Norway

Icesolution has developed a microwave-absorbing coating and intends to offer it as a retrofit de-icing for existing wind turbines. Over 10 000 large existing turbines lack de-icing functionality.

Nordic Power Convertors

Denmark

Nordic Power Convertors technology cuts the size of a power converters to a fifth and the cost in half while increasing lifespan 2-5 times. The company's first focus will be on better LED power converters, where the products will be on the market by the start of 2016.

Norsepower

Finland

Norsepower harnesses wind energy to serve the world's shipping logistics. Norsepower has brought to market the first and only practical auxiliary wind propulsion solution. It can be retrofitted to at least 20,000 existing vessels and generate up to 30% fuel savings.

Paxymer

Sweden

Paxymer has a patented, novel, flame retardant system for polyolefin plastics. Completely free from toxic chemicals, resulting in improved usability, fire safety and environmental properties. A functional, green substitution to brominated flame retardants.

Purix

Denmark

PURIX offers a unique green 'Plug and Play' air conditioning system that replaces electricity with heat, such as solar thermal or district heating, as the main energy input. As the first manufacturer worldwide of small green split systems, PURIX addresses the high volume market segments for air conditioning systems.

Quantum Electric

Finland

Quantum Electric designs simple and robust electric motors that operate with high efficiency and torque over a wide rpm range. The company's big idea is the modular stator coil structure that saves manufacturing costs and creates an electric gearbox right in the motor itself.

RecondOil

Sweden

RecondOil offers a closed loop for industrial use of lube oil. By using the unique remanufacturing technology it is possible to extend the life of lube oil almost endlessly. This enables the same oil to be sold over and over again, in a fully circular economy use.

Refind Technologies

Sweden

Refind Technologies makes automatic sorting systems that organise the product flows in the reverse logistics chain. By visualising the products and its values in the entire value chain the systems helps reverse logistic companies, reuse and refurbishment specialists and recyclers to squeeze out as much as possible from all products to lowest possible cost.

Savroc

Finland

Savroc offers a new metal surface plating technology using trivalent chromium. Comparing with the current hard chrome the technology exceeds the mechanical performance of demanding industrial applications. The method does not contain any toxic chrome acids.

Scandinavian Centriair

Sweden

Centriair is a company offering energy efficient alternatives for air treatment. The novelty of the system lies in the unique combination of very high particle separation and efficient VOC destruction making this an alternative to incineration in many applications.

Txg Development

Sweden

TGX Development offers the possibility to add up to three times more wagons on an existing train without adding more locos. This is done with the TXG Eco Bogie, a smart recuperating bogie with energy storage on each wagon.

Watty

Sweden

Watty makes it easy for people to make smart energy decisions. Watty can identify energy using appliances in the home with a single piece of low-cost hardware. This is very valuable since it is possible to automatically identify what energy-saving actions or products that are suitable for each home.

Waves4Power

Sweden

W4P challenge the status quo in renewable energy by partnering with leading actors to offer the world a cost efficient and safe buoy based wave power system. The system is proven in multiple ocean trials and many tank tests to survive the ocean with predictable results.

Wirepas

Finland

Wirepas Pino is all about uncompromised low power wireless networking for connecting things. Pino is a solution for multi-hop mesh network, boasting reliable and deterministic performance with scale up to millions of nodes without regression. With Pino, you can maximise your application efficiency and reliability and build a successful IoT service business.



Press release
2015-02-17

The Nordic Cleantech Open is a business competition aiming to identify, upgrade and display the top 25 early stage clean tech companies in the Nordic region each year. Partners and sponsors to the competition are; Cleantech Scandinavia, Swedish Energy Agency, Tillväxtverket, Autodesk, Climate KIC, Clean, Future Matters Venture Capital, Malmö Cleantech City, SABIC Ventures, Sitra, Vinnova, Klak Innovit.

Web site

For more information about the competition and the companies visit <http://www.nordiccleantechopen.com>

Contact

For more information about application and participation contact
Magnus Agerström, +46739402070
magnus@cleantechscandinavia.com