



## PRESS RELEASE

# Solar Frontier's 2.3 MW Installation on Warehouses of thyssenkrupp Materials Nederland Sees Early Signs of Success

*Solar Frontier, KiesZon and Ikaros Solar successfully collaborated on one of the largest solar power projects in the Netherlands*

**Munich, December 15<sup>th</sup>, 2015** – Solar Frontier, the world's largest CIS solar energy solutions provider, announced today that its recently completed 2.3 MW project in the Netherlands, constructed in collaboration with solar energy companies KiesZon and Ikaros Solar, has surpassed its July-November energy generation target by 6%. This means that thyssenkrupp Materials, which uses the buildings as warehouses, will now be able to procure more energy at a lower cost than obtaining electricity sourced from the grid.

The project, which is located in the Dutch municipalities of Veghel and Zwijndrecht, consists of two rooftop installations on warehouses belonging to thyssenkrupp Materials Nederland. Using 30 power inverters and 13,472 CIS modules in total, this is one of the largest solar energy projects in the Netherlands to date.

KiesZon, owner of the solar power plants for the next 15 years, selected Solar Frontier's CIS modules for their ability to produce a higher energy yield in real-world conditions compared to more commonly used crystalline silicon modules. Ikaros Solar provided engineering, procurement and construction ("EPC") services. Leading North American distributor of production materials, thyssenkrupp Material, leased out the rooftops of its warehouses and will procure the energy generated by both systems to reduce its electricity costs and help advance its environmental initiatives.

For this project, Solar Frontier started shipping its CIS modules at the end of May of this year. Ikaros Solar began installing the systems in June, and shortly after, both rooftop systems were connected to the grid in July.

The reliability of Solar Frontier's CIS modules in high ammonia environments was also a deciding factor for their selection in this project. Considering thyssenkrupp Material's 32,000 square foot warehouse in Veghel is located near a seagull breeding ground, solar system owners are subsequently burdened with bird droppings impacting the performance of their modules. Solar Frontier's CIS modules are certified for resistance to environments with high ammonia content, and as their output indicates, are continuing to perform well in this environment.

"Ikaros Solar selected Solar Frontier's CIS modules for their proven high energy yields, specifically in our climate, as has been seen in other projects like the IKEA store in Zwolle," said Yves Devis, CEO of Ikaros Solar. "For us, it is important to work closely with a partner like Solar Frontier, which is able to guarantee the yields and the reliability of its modules for our projects."

"The Netherlands is one of the most promising markets for solar energy in Europe," said Wolfgang Lange, Managing Director of Solar Frontier Europe. "We are proud to have contributed



to this large-scale solar power project and look forward to continuing to meet demand for clean, renewable and economical energy in the region.”



*Solar Frontier's 2,3 MW installation on warehouses of thyssenKrupp Materials Nederland*

#### **About Ikaros Solar**

The Ikaros Solar Group is a leading international company operating in the photovoltaic market. With fully functional organizations on 3 continents, Ikaros Solar engages in high quality PV projects on a global level, providing solutions in development, EPC and maintenance of solar parks for businesses and investors.

#### **About thyssenkrupp Materials Nederland**

thyssenkrupp Materials Nederland is a part of the multinational thyssenkrupp AG. With more than 220 employees and seven branches in the Netherlands thyssenkrupp Materials Nederland is one of the most leading wholesalers of carbon and stainless steel products.

#### **About KiesZon**

KiesZon® is a Solar Service Company, located in 's-Hertogenbosch, the Netherlands. The company provides a large-scale rollout of solar projects at businesses, schools and housing associations. Additionally, KiesZon® facilitates solar actions for homeowners who are customers of the green energy provider GreenChoice. KiesZon® distinguishes itself by offering financial and legal support in an Operational Lease concept, in a way renewable energy is achievable for everyone. The quality of our solar products, process, service and work safety are always our first priority.

#### **About Solar Frontier**

Solar Frontier K.K., a 100% subsidiary of Showa Shell Sekiyu K.K. (TYO: 5002) ("Solar Frontier"), has a mission to create the most economical, ecological solar energy solutions on Earth. Building on a legacy of work in solar energy since the 1970s, Solar Frontier today develops and manufactures CIS (denoting copper, indium, selenium) thin-film solar modules for customers in all sectors around the world. Solar Frontier's gigawatt-scale production facilities in Miyazaki, Japan, integrate compelling economic and ecological advantages into every module: from lower energy requirements in manufacturing to the higher overall output (kWh) of CIS in real operating conditions. Solar Frontier is headquartered in Tokyo, with offices in Europe, the U.S.A., and the Middle East. Visit [www.solar-frontier.com](http://www.solar-frontier.com) for more information.



**Showa Shell Sekiyu K.K.**

Showa Shell Sekiyu K.K. is listed on the Tokyo Stock Exchange and has roots dating back more than 100 years in the downstream energy business.

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