

Dresden, 31 May 2019

VON ARDENNE PRESENTS HIGHLY PRODUCTIVE COATING EQUIPMENT FOR THE PV INDUSTRY AND INTRODUCES ITS EXPANDED SALES & SERVICE IN CHINA AT SNEC 2019 IN SHANGHAI

- **XEA|nova L - high volume manufacturing coating system with a throughput of up to 10,000 wafers per hour**
- **XENIA – built for gigawatt lines**
- **CLOSE TO YOU - VON ARDENNE expands sales and service in China**

From **4 to 6 June**, **VON ARDENNE** will present its latest solutions for the PV industry at the **SNEC 2019 in Shanghai**, the leading exhibition for the solar industry, at **booth 520** in **hall N3**.

XEA|nova L – high volume manufacturing coating system with a throughput of up to 10,000 wafers per hour

For some years now, the solar industry has been characterized by a high cost pressure in manufacturing. VON ARDENNE's answer to that challenge is the **XEA|nova L**. This new coating system makes use of the proven VON ARDENNE coating technology for large areas and deposits the most homogeneous **TCO layers** on wafers for the production of **heterojunction (HJT)** and **metal layers** for **interdigitated back contact (IBC)** solar cells. With a gross throughput of up to **10,000 wafers per hour**, it is the **most productive coating system on the market** and reaches a yearly production capacity of up to **430 MWp**. Furthermore, it has a target utilization of more than 80 percent, that render this machine ideal for high volume production.

Currently, VON ARDENNE is working on introducing single-sided passivated contacts processed by means of high-rate soft sputtering into mass production. The necessary sputtering process technology will be designed to fit into the **XEA|nova L** platform. Proof of concept has already been established in cooperation with Fraunhofer ISE and ISC Konstanz by demonstrating implied open circuit voltages $iVoc = 735$ mV for sputtered n-type aSi-layers and $iVoc = 709$ mV for sputtered p-type a-Si layers on symmetrical life time structures.

The results will be shown in the conference presentation „**Passivated contacts from Sputter PVD Silicon Layers**“ by Jan Lossen (ISC Konstanz, Germany), on 4 June, Kerry Hotel Pudong, Shanghai, Pudong Ballroom 1-3, 2:15 p.m. to 2:30 p.m. This presentation is co-authored by VON ARDENNE.



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XENIA – built for gigawatt lines

The **XENIA**, which is the VON ARDENNE workhorse for thin-film photovoltaics, benefits just as much from our decades of experience in large-area coating as the XEA|nova. The XENIA is suited for the deposition of metal, ceramic or absorber layers needed for the production of **CIGS or CdTe** solar modules. Substrate widths of up to 3 meters, cycle times of 20 seconds, a target utilization of more than 80 percent and the ability to heat up quickly are features that guarantee maximum productivity at minimum costs. Thus, the XENIA is equipped to reach an **annual production capacity** of more than **1 gigawatt peak**.

CLOSE TO YOU - VON ARDENNE expands sales and service in China

VON ARDENNE is the leading supplier of coating equipment for the thin-film photovoltaic industry based on CdTe and CIGS technology and for the high-efficiency solar cell industry based on heterojunction technology.

At the SNEC 2019, we will introduce our local supply chain and service locations in China. During the last year, VON ARDENNE has made great progress in setting up the production of high-tech equipment in China and celebrated the first shipment of a glass coating system „Made in China for China“ in May 2019. With competent, quick and efficient support we are CLOSE TO YOU.

CLOSE TO YOU means:

- Advanced coating equipment engineered in Saxony, Germany and manufactured in China, which is then shipped from Shanghai to our customers in China.
- A whole life-cycle support to our customers in China: quick and competent.
- A competent local engineering support, supply chain and quality control to deliver cost-effective equipment and parts (products) quickly to our customers in China.

ABOUT THE VON ARDENNE-GROUP

VON ARDENNE develops and manufactures industrial equipment for vacuum coatings on materials such as glass, wafers, metal strip and polymer films. These coatings give the surfaces new functional properties and can be between one nanometer and a few micrometers thin, depending on the application. Our customers use these materials to make high-quality products such as architectural glass, displays for smartphones and touchscreens, solar modules and heat protection window film for automotive glass.

We supply our customers with technologically sophisticated vacuum coating systems, extensive expertise and global service. The key components are developed and manufactured by VON ARDENNE itself. Systems and components made by VON ARDENNE make a valuable contribution to protecting the environment. They are vital for manufacturing products which help to use less energy or to generate energy from renewable resources.

VON ARDENNE AT SNEC 2019 IN SHANGHAI

BOOTH: 4 June - 6 June 2019, hall N3, booth 520

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