

Dresden, 14 May 2019

VON ARDENNE PRESENTS HIGHLY PRODUCTIVE COATING EQUIPMENT FOR THE PV INDUSTRY AND INTRODUCES ITS BATTERY SPIN-OFF AT INTERSOLAR EUROPE 2019 IN MUNICH

- **XEA|nova L8 highly productive coating system with a throughput of more than 8000 wafers per hour**
- **XENIA – built for gigawatt lines**
- **Would a PV factory in Germany/ Europe be realistic? – VDMA panel discussion with Christian Knechtel, CEO of VON ARDENNE**
- **Enhanced Battery Solutions GmbH – new spin-off develops solutions for lithium-ion batteries**

From **15 to 17 May**, **VON ARDENNE** will present its latest solutions for the PV industry at the **Intersolar Europe 2019 in Munich**, one of the leading exhibitions for the solar industry, at **booth 438 in hall C1**.

XEA|nova L8 – highly productive coating system with a throughput of more than 8000 wafers per hour

For some years now, the solar industry is characterized by a high cost pressure in manufacturing. VON ARDENNE's answer to that problem is the **XEA|nova L8**. This new coating system makes use of the proven VON ARDENNE coating technology for large areas and deposits the most homogeneous TCO and metal layers on wafers for the production of **heterojunction (HJT)** and **interdigitated back contact (IBC) solar cells**. With a coating capacity of **more than 8000 wafers per hour**, it is the **most productive coating system on the market** and reaches a yearly production capacity of **350 MWp**. Furthermore, it has a target utilization of more than 80 percent, that render this machine ideal for high volume production.



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 m, cycle times of 20 seconds, a target utilization of more than 80 percent and the ability to heat up quickly for quick availability are features that guarantee maximum productivity at minimum costs. Thus, the XENIA is equipped to reach an **annual production capacity** of more than **1 GWp**.

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Would a PV factory in Germany/ Europe be realistic?

This exciting question will be discussed by the **VDMA panel** on Wednesday, **15 May 2019**, from **2:45 to 4 pm** at **booth 550** in **hall C1**. Based on a recent study published by the **VDMA** and **Fraunhofer ISE**, the participants will discuss if it would be realistic, in the face of falling module prices and the Asian predominance in cell and module production, to establish a mass-production site in Germany or Europe. **Christian Knechtel**, member of the executive management of **VON ARDENNE**, will take part in the panel, together with other renowned representatives of the industry.

Enhanced Battery Solutions GmbH – spin-off develops technology solutions for lithium-ion batteries

Apart from the generation of renewable energy, energy storage is a crucial factor for the success of the energy turnaround. Innovative thin-film technologies enable approaches to tackle the existing challenges for lithium-ion batteries. Because of the increasing demand, requirements such as a high output, a high energy density, longevity and fast charging become increasingly important, along with a cost-efficient, sustainable and resource-efficient cell production.

With the newly founded spin-off **Enhanced Battery Solutions GmbH (EBSL)**, the **VON ARDENNE** Group advances these new approaches. At the **booth** shared with **VON ARDENNE (C1.438)**, **EBSL** presents **XPRIME**, an ultra-thin (<100 nm) and compact coating for aluminum or copper current collectors. This process increases the power density and the lifetime of state-of-the-art lithium-ion batteries. That is achieved by drastically increasing the conductivity of the current collector and, thereby, reducing the through-plane resistance between the current collector and the electrode coating.

ABOUT 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 AND EBSL AT THE INTERSOLAR EUROPE 2019 IN MUNICH

BOOTH: 15 May - 17 May 2019, hall C1, booth 438

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