



Corporate Communications

Elise Pham
Press Spokeswoman Procurement
Telephone: +49 841 89 48168
E-mail: elise.pham@audi.de
www.audi-mediacyenter.com

Audi models with a solar roof: Car manufacturer cooperates with Hanergy

- **Audi and Alta Devices, subsidiary of Hanergy, integrate thin-film solar cells into panoramic glass roofs**
- **Board of Management Member for Procurement Dr. Bernd Martens: “Solar technology extends the range of our electric vehicles and is also sustainable”**
- **First joint prototype by the end of 2017**

Ingolstadt/Beijing/Sunnyvale, August 23, 2017 – Thin-film solar cells in panoramic glass roofs of Audi models: Audi and Alta Devices, a subsidiary of the Chinese solar-cell specialist, Hanergy, are working together on this development project. With this cooperation, the partners aim to generate solar energy to increase the range of electric vehicles. The first prototype is to be built by the end of 2017.

As the first step, Audi and Hanergy want to integrate Alta Devices’ thin-film solar cells into a panoramic glass roof. In the future, almost the entire roof surface is to be covered with solar cells. The electricity they generate will flow into the car’s electrical system and can supply for example the air-conditioning system or the seat heaters – a gain in efficiency that has a direct positive impact on the range of an electric vehicle.

“The range of electric cars plays a decisive role for our customers. Together with Hanergy, we plan to install innovative solar technology in our electric cars that will extend their range and is also sustainable,” stated Audi Board of Management Member for Procurement Dr. Bernd Martens.

At a later stage, solar energy could directly charge the traction battery. “That would be a milestone along the way to achieving sustainable, emission-free mobility,” continued Martens.

The green electricity will be generated by innovative solar cells. They have an efficiency of more than 25 percent, they are very thin and flexible. Furthermore they perform very well also in conditions of low light and high temperature. The solar cells are produced by Alta Devices in California.



Dr. Ding Jian, senior Vice President of Hanergy Thin Film Power Group Limited, CEO of Alta Devices, Inc. and co-leader of the Audi/Hanergy Thin Film Solar Cell Research and Development Project, said: “This partnership with Audi is Alta Devices’ first cooperation with a high-end auto brand. By combining Alta’s continuing breakthroughs in solar technology and Audi’s drive toward a sustainable mobility of the future, we will shape the solar car of the future”.

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About AUDI AG

The Audi Group, with its brands Audi, Ducati and Lamborghini, is one of the most successful manufacturers of automobiles and motorcycles in the premium segment. It is present in more than 100 markets worldwide and produces at 16 locations in twelve countries. 100 percent subsidiaries of AUDI AG include Audi Sport GmbH (Neckarsulm), Automobili Lamborghini S.p.A. (Sant’Agata Bolognese, Italy) and Ducati Motor Holding S.p.A. (Bologna, Italy).

In 2016, the Audi Group delivered to customers about 1.868 million automobiles of the Audi brand, 3,457 sports cars of the Lamborghini brand and 55,451 motorcycles of the Ducati brand. In the 2016 fiscal year, AUDI AG achieved total revenue of €59.3 billion and an operating profit of €3.1 billion. At present, approximately 88,000 people work for the company all over the world, more than 60,000 of them in Germany. Audi focuses on sustainable products and technologies for the future of mobility.

About Hanergy Thin Film Power:

Hanergy Thin Film Power is the world’s leading thin-film solar technology enterprise with major businesses in research and development, design and assembly of large-scale thin-film solar turnkey production lines, as well as the development and operation of downstream solar power projects and application products. Hanergy Thin Film Power entered the solar power industry and grew rapidly since 2009, by continuing to fulfill the equipment sales agreements of thin-film solar turnkey production lines, and further extending the business to the downstream area of solar power.

About Alta Devices:

Alta Devices is (EM)POWERING THE UNPLUGGED WORLD™ by delivering the world’s most efficient, thin and flexible mobile power technology. By converting light of any kind into electricity, Alta Devices AnyLight™ power technology extends the energy source of a system, and in many cases, completely cuts the traditional power cord. The solution can be completely integrated into the final system, and is ideal for use in unmanned systems, satellites, consumer electronics, sensors, automotive, remote exploration, or anywhere size, weight, and mobility matter. Alta Devices holds world records for energy conversion efficiency and is headquartered in Sunnyvale, CA. For more information, visit <http://www.altadevices.com>. Alta Devices is a Hanergy company.