



Sono Motors introduces bidirectional charging system

German electric car startup Sono Motors introduces a bidirectional charging system for its solar car Sion. The system makes it possible to both charge the car's battery and provide power for private use at any time. This turns the Sion into a mobile charging station that charges itself autonomously. As a result, the car can be used in an entire new way, which could lead to many changes in the future.

Munich, November 1st 2016

One of the major topics on the market of renewable energy is the decentralization of energy storage, which aims to literally take power away from the major energy companies, which focus on wind and solar energy. At the moment, stationary storage units are pretty expensive, which is why sales for private use are low.

Munich startup SONO MOTOS introduced a bidirectional charging system for its solar car Sion this month, which turns the Sion into a mobile charging station for private use. The advantage: the battery is already integrated into the car, making the need for an additional battery obsolete. Sono Motors notes that the battery cannot only be used for private needs but that many other areas can benefit from it.

Details

Using a household plug, the **Sion can power all common electronic devices with up to 2,700 Watts.**

This means that all electronic devices can be plugged easily into the Sion.

The outlet is accessible from the outside and is placed underneath the gas cap at the front, next to the charging plug. In order to access the outlet, the gas cap needs to be unlocked, which prevents unwanted access.

Examples of use in every day life

Camping

The Sion is ideal for camping as it provides electricity for cooking, charging phones and even for a small fridge. This makes you **independent from the local infrastructure** and the conditions of the camping site. In combination with the optional towing hitch it is even possible that the car generates or saves electricity in the front while it is being used in the back in the trailer. This means: with the Sion the user doesn't depend on camping sites anymore. On top of that, the Sion's **battery recharges itself during the day**.

Provider of infrastructure

Even the most remote cabin in the mountains, which doesn't have its own power supply, is now being **provided with electricity**. The power you consume is being recharged during the day through solar energy. There is no need to worry about your ride home as a modern A+++ fridge can be powered for 120 days using the Sion's battery (30 kWh). Certainly, this example can be applied on developing countries, which tend to suffer from weak power supply on a daily basis. The Sion can counter this problem by ensuring that local schools are provided with a reliable and versatile source of electrical power. That's why bidirectional charging is not only **ecofriendly** but offers social aspects which are one of a kind.

Replacement for a fossil based power generators

In many areas electricity is generated with the help of generators when there is no power supply nearby. Usually, those are inefficient 2 stroke generators, which are not subject to emission regulations. The Sion makes it possible to **replace generators** on construction sites, at events and during disaster relief.

The company from Munich even takes it a step further: through the fast-charging plug it is possible to go far beyond 2,7kW. This means they provide completely new ways of how an electric vehicle can be used. The company will present this feature in more detail by mid 2017 while presenting the prototype.

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SONO  MOTORS



Sion. A Solarcar for everyone.

In early August the Munich Start-up SONO MOTORS presented a **family-friendly electric car** called Sion on the crowdfunding platform Indiegogo. The campaign was a success, after their video went viral in the social networks. The video got millions of views and was shared thousands of times; the world's largest tech blogs reported about it and they were even featured on international television.

In addition, numerous renowned automobile manufacturers and suppliers expressed interest. With a range of 250 km, a price of 16,000 € and the integration of solar cells in the body, the vehicle should be of particular interest to the middle class. Via this crowdfunding campaign, SONO MOTORS has been collecting the money necessary to reproduce the prototype of the Sion for crash tests and trial runs. Through a subsequent pre-sale in 2017, SONO MOTORS is hoping to gather enough financial support for serial production of the Sion in cooperation with automotive manufacturers and suppliers.



About the SONO MOTORS GmbH

SONO MOTORS GmbH consists of the three founders Jona Christians, Navina Pernsteiner and Laurin Hahn, as well as a diverse team of designers, developers, technicians and students, some of whom have years of experience in the automotive industry.

Starting in a small garage, the team has developed a prototype over the last 4 years, which, through tests and driving in everyday situations, helped in gaining valuable experience for further developments.

Crowdfunding, angel investors and venture capital are intended to provide the company with sufficient capital for the production of the Sion as well as help with international consolidation.

