

News
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KRAFTWERK begins construction of PV-diesel hybrid system in Chile



German EPC Provider KRAFTWERK Renewable Power Solutions has begun construction of the PV-battery diesel hybrid system at the luxurious Tierra Atacama Hotel & Spa, part of the Tierra Hotels collection. Through the expansion of its existing PV plant and the addition of a storage system, the off-grid hotel located in the Atacama Desert will benefit from 60-65% annual diesel savings.

Together with smart energy storage solutions provider QINOUS, KRAFTWERK will implement a 335 kWh high-efficient Lithium-Ion battery storage and management solution that guarantees extended hours of operations with 100% solar energy, an uninterrupted power supply and a longer lifetime of the existing diesel generators.

Tierra hotels has been a pioneer in the usage of renewable energy since 2013, when it commissioned KRAFTWERK to design and construct its first PV plant – a 23 kWp PV-diesel hybrid system that has since been covering up to half of the hotel's daytime electricity needs. Since then the hotel has saved a significant amount of diesel and even been named the “Most Sustainable Tourism Company in Chile” by the Federation of Tourism Companies of Chile (FEDETUR).

The expansion of the Tierra Atacama Hotel & Spa's PV plant was selected as a showcase project by the German Energy Agency (dena). The project is now part of the worldwide Renewable Energy Solutions (RES) Programme 2015/17, which is coordinated by dena and co-financed by the German Federal Ministry for Economic Affairs and Energy (BMWi) within the German Energy Solutions Initiative.

“We are pleased to say that we are on schedule and construction should be successfully completed in time,” said Rodja Sass, Project Manager at KRAFTWERK,

“We are especially proud to contribute to the success and core values of Tierra Hotels. Their philosophy of protecting the environment is 100% in line with our corporate values.”

Commissioning is scheduled for September and will be followed by an inauguration ceremony in October.

Technical Project Information

Business model: Self-consumption
 Region: San Pedro de Atacama, Chile
 Solar system: 156 kWp PV plant
 Storage system: QINOUS ESS QCompact L180 kW/ 335 kWh
 Site controller: QINOUS Microgrid and Energy Management System
 Installation date: September 2017



Kraftwerk Renewable Power Solutions

Kraftwerk Renewable Power Solutions was founded in 2010 in Weingarten, Germany and has project offices in Frankfurt, Berlin, Santiago de Chile and Cairo. Kraftwerk develops and implements customized solar energy solutions for grid-connected and off-grid applications and has been serving the Latin American market since 2011. www.kraftwerk-rps.com

Tierra Hotels

A collection of adventure spa hotels in exceptional destinations, Tierra Hotels was founded by the Purcell family who has a long established reputation for offering fine hospitality at Ski Portillo, Chile. Tierra Atacama Hotel & Spa opened in 2008 to rave views and was named to the Condé Nast Traveler "Hot List" along with other international accolades. Most recently, Tierra Atacama was named one of the 100 best hotels in the world by Travel and Leisure. www.tierrahotels.com

Qinous

QINOUS develops and manufactures fully integrated plug & play battery storage systems (QINOUS ESS) with integrated Microgrid and Energy Management System (MEMS). The QINOUS ESS applies to commercial and industrial customers in off-grid and on-grid applications up to the megawatt range. The QINOUS product platform provides high flexibility at competitive pricing through its standardized and modular design. In addition, the QINOUS ESS includes numerous interfaces to integrate conventional and renewable generation systems. www.qinous.de

Deutsche Energie-Agentur (dena)

The Deutsche Energie-Agentur (dena) – the German Energy Agency – is Germany’s centre of expertise for energy efficiency, renewable energy sources and intelligent energy systems. As “Agency for Applied Energy Transition”, it contributes to attaining the goals of energy and climate politics by developing solutions and putting them into practice, both nationally and internationally. In order to do this, it brings together partners from all areas of politics and

business. dena's partners are the Federal Republic of Germany and the KfW Group.
www.dena.de/en

German Energy Solutions Initiative

The transfer of energy expertise, the promotion of foreign trade and the facilitation of international development cooperation are part of the German Energy Solutions Initiative, which is coordinated and financed by the German Federal Ministry for Economic Affairs and Energy. The initiative offers networking and business opportunities in Germany and abroad, it showcases reference projects and facilitates capacity building. www.german-energy-solutions.de/en

dena Renewable Energy Solutions Programme (dena RES Programme)

The dena RES Programme was developed by the Deutsche Energie-Agentur (dena) – the German Energy Agency. This programme, co-financed by the Federal Ministry for Economic Affairs and Energy within the German Energy Solutions Initiative, helps German renewable energy companies enter new markets. Within the framework of the programme, reference and demonstration projects are installed near prestigious institutions. The installation is accompanied by comprehensive PR, marketing and training programmes. These projects showcase high-quality German renewable energy technology and help participating companies gain a foothold in new markets. www.german-energy-solutions.de/en/res

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Project Lead:



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