



Press release

18.05.2020

Large cogeneration project in Japan is expanded by 20 Spanner Re² systems

Since the beginning of 2019, only ten, then twenty wood-power plants from Spanner Re² GmbH including peripherals with above-average plant runtimes have been in operation. By the end of this year, the customer will install additional wood-power plants with an electrical output of 1 MW.

Neufahrn i. NB. Spanner Re², based in Neufahrn in Lower Bavaria, is one of the leading manufacturers of wood-based combined heat and power plants. The medium-sized company operates both nationally and internationally and offers demand-oriented complete solutions for electricity and heat generation from biomass.

Large project in Asia with outstanding plant mileage

Ten wood power plants including conveyor and discharge technology and fully automated wood chip dryer from Spanner Re² have been in operation in Japan since the beginning of last year. The estimated mileage of 7,500 hours per year has been exceeded by more than 10 percent since commissioning. 5.8 million kilowatt hours of electricity and 1.4 million kilowatt hours of heat have been generated in a CO₂-neutral manner from regional wood chips in the past 12 months by the climate-friendly energy system. 10 other plants followed and currently produce a total of 1 MW of electrical power.

Customer extends major project to 2 MWel

By the end of this year, the customer had expanded his Holz-Kraft cascade by another 20 systems from Spanner Re². With a total output of 2 megawatts electrical and over 4.4 megawatts thermal, it is the largest international project for Spanner Re² to date. "With our technology, the operator generates energy in a decentralized and CO₂-neutral manner from biomass - a sustainable energy solution that can be used worldwide," explains Thomas Bleul, Managing Director of Spanner Re² GmbH. "As a medium-sized company, we are particularly proud to implement a project of this size, because we have stood for 'making renewable energies competitive' for over ten years," continues Bleul.

Advantages of a cascade solution compared to a single large system

Wood power plants from Spanner Re² can be operated in parallel or independently of one another, which offers the customer a high degree of flexibility and maximum failure protection. The performance range of a cascade solution can be adjusted as required. Compared to a single large system, a wood-power cascade is in continuous operation - even during maintenance work. In addition, no expensive service calls are necessary, since all maintenance work can be carried out by the operator. The plant operators are trained in the wood power academy of Spanner Re² GmbH. Even in part-load operation, the wood-power plants run highly efficiently, without stressing the system technology as in a large biomass boiler that runs in part-load operation. The proven systems are used wherever a lot of energy is required all year round.

Caption 1: Ten wood-power plants at first step from Spanner Re² GmbH with an output of 490 kWel and 1.1 MWth have been generating CO₂-neutral energy from wood chips since commissioning in Japan in early 2019. A further 20 wood power plants will be installed at the customer by the end of this year. Source: Spanner Re² GmbH

Caption 2: Term of the wood power plants from Spanner Re² installed in Japan since commissioning in 2019. Source: Spanner Re² GmbH