

SymEnergy and BioEnergieWegscheid accelerate the deployment of the 900 kW biomass gasification model in Japan - Cooperation for the completion of the realization of the Ikuno Ginzan Biomass Power Plant

BioEnergie Wegscheid (BEW) and SymEnergy signed a contract on April 7, 2023, for the purchase of a wood gasification combined heat and power (CHP) plant and associated peripheral equipment. It covers the construction of the turnkey biomass power plant Ikuno-Ginzan (owner: Ikuno-Ginzan Biomass Inc.), which is planned near the city of Asago, Hyogo Prefecture/Japan.

Project stability and risk mitigation:

There are many wood gasification CHP projects with low uptime in Japan. In the development of the Ikuno Ginzan Biomass Power Plant, we will pursue project stability and reducing risk by signing a contract for a "CHPs' uptime warranty " and providing a "fixed maintenance cost service" to the project owner.

Future plans:

In the future, we will work together to accelerate the nationwide diffusion of 1,000 kW-sized power plant models. Also, SymEnergy, ENTRENCO, and BEW will contribute to establish a biomass eco system that matches the local wood availability with our respective know-how.

Ikuno Ginzan Biomass Plant Project overview:

- Business site: Ikuno City, Asago C, Hyogo Prefecture, Japan.
- Project scale: Leistung: 900 kW, Rundholzverbrauch: ca. 10.000 t/a
- Schedule: Betrieb im Sommer 2024
- Project owner: Ikuno Ginzan Biomass Inc.
- Construction contractor: SymEnergy Inc.
- CHP supplier: BIOENERGIE WEGSCHEID GMBH

Details Wood Gasification CHP

- Model: BEW135
- Numbers of unit under operation: More than 130 units (worldwide)^{*1}.
- Advantage: Performance guarantee and maintenance service (fixed price plan to the amount of electricity generated (kWh))^{*2}

*1 As April,2023; *2 Conditions change on a project-by-project basis

Information about the companies

BioEnergie Wegscheid is a company of ENTRENCO GMBH. ENTRENCO and BEW both provide wood gasification CHP*2 with the output range from 50kW to 150kW, which can be cascaded up to 2 MW power, with a combined total of more than 130 units*3 installed worldwide. The small-scale unit allows us engineering power plants flexibly according to the availability of local wood supply. Both companies are also capable of providing a full range of services in Japan, from installation to maintenance and troubleshooting of wood gasification CHPs.

In 2023, ENTRENCO and BioEnergie Wegscheid (formerly Holzenergie Wegscheid) plan to merge to form WegscheidEntrenco.

BIOENERGIE WEGSCHEID GMBH (Japan: ENTRENCO Inc.)

- Head Office: Haselberg 3, D-94164 Sonnen, Deutschland
- Japan Branch: 11-125, KANDA SQUARE WeWork, 2-2-1 Kanda Nishiki-cho, Chiyoda-ku, Tokio, Japan; Representative: CEO Egbert Freiherr von Cramm
- URL: <http://arensis.jp/>
- Business description: Development, research, sales, production, and installation of biomass power plant and after service

*3 ENTRENCO 50 kW (wood pellet and wood chip)] [BEW 80 kW - 150 kW (wood chip)

*4 As April,2023

SymEnergy has experience in EPC (engineering, procurement, and construction), post-operation and maintenance of 165kW to 2,000kW*4 sized biomass power plants in Kushima City, Miyazaki Prefecture; Uchiko Town, Ehime Prefecture; Aritagawa Town, Wakayama Prefecture; and Takayama City, Gifu Prefecture, and has accumulated expertise in high uptime. In addition to a 2,000 kW power plant and a pellet factory in Kushima City, Miyazaki Prefecture, SymEnergy has installed ENTRENCO's 50kW wood gasification CHP at Kushima Hospital to ensure long-term operation.

SymEnergy Inc.

- Head Office: 14F, Kobe International House, 8-1-6 Gokodori, Chuo-ku, Kobe
- Representative: Masahiro Inui, Präsident und stellvertretender Direktor
- URL: <https://www.SymEnergy.co.jp/>
- Business description: Energy-based regional production & engineering

*5 Kushima City, Miyazaki Prefecture: Obaekuroshio Power Plant (1,940 kW), Uchiko Town, Ehime Prefecture: Uchiko Biomass Power Plant (1,115 kW) Aritagawa Town, Wakayama Prefecture: Aritagawa Biomass Power Plant (900kW), Takayama City, Gifu Prefecture: Hida Takayama Shibukinoyu Biomass Power Plant (165kW)



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