

Romande Energie CH-Charmey, Kombi Power System®



THE PLANT

The Romande Service SA as a subsidiary of the major energy supplier of the Canton Vaud invests and operates a large number of renewable energy projects in the canton and beyond.

In 2016, for example, a biomass heating plant with district heating network in need of refurbishment was taken over in the beautiful mountain resort of Charmey (canton of Friborg) and is currently being expanded.

The existing biomass boilers will be replaced by the KombiPowerSystem.

Hereby, the spa, a swimming pool, hotels, apartment houses and other customers to the center are supplied.

The centerpiece is a updraft gasifier of the 4.5 MW power class for natural wood chips from forest and landscape conservation. In combination with a gas engine of 770 kWel and an ORC plant for the power conversion of 120 kWel, this system configuration achieves a previously unattained high level of electrical efficiency.

The special integration of the "Les bains de la Gruyere" spa with a three-pipe system enables low-temperature heat utilization by means of flue gas condensation.

In sum, not only are new milestones set in terms of both power efficiency and overall efficiency, but also very low emission levels are guaranteed by post-combustion of the engine exhaust and DeNOx system.

DETAILS

Client:	Romande Energie Service SA
Contact:	Mr Giulio Caimi, phone +41 76 4914753
System Engineering:	ReGaWatt GmbH, Abensberg
Total Investment:	app. 6 Mio. €
Period:	May 2018 – Dec 2019