



Waste incineration plant Renergia

RENERGIA ZENTRALSCHWEIZ AG



CUSTOMER SEGMENT

Electricity
production - Other

BRAND

Equans

TYPE OF WORK

HVAC

PROJECT LOCATION

Switzerland, Lucerna

COUNTRY IN CHARGE OF EXECUTION

Switzerland

FORM OF CONTRACT

Design, engineering
& consulting

ROLE IN PROJECT

Subcontractor

PERIOD

2012-08 - 2015-06

Public use with client authorization

Renergia is a municipal service provider for waste recycling and energy supply in the city of Luzern in Switzerland.

The project aims to convert waste into steam and electricity, supporting both the energy needs of the Perlen Papier **paper mill and district heating** in the area.

For this purpose a new **power and heating generating unit** was built.



Equans solutions

Caliqua engineered, delivered, installed and commissioned a new **water-steam-cycle** for the waste incineration plant consisting of:

- 1 **steam turbine**, 28MW, 40bar, 400°C, 108t/h
- 1 **Air-cooled condensing system**, 100MW, 65mbara
- 1 **Feedwater tank**, 100m³
- 4 Feedwater pumps, each 64t/h, 70bar



Customer benefits

The steam turbine generates **42GWh of electrical energy** per year.

Since **1988**, a **partnership between Caliqua and Renergia** was established to continuously improve the **energy efficiency** of the plant. Every year **90'000 tonnes of CO₂** are saved.

42^{MW}

heat extraction

28^{MW}

electrical energy

300^{m³}

district heating storage tanks