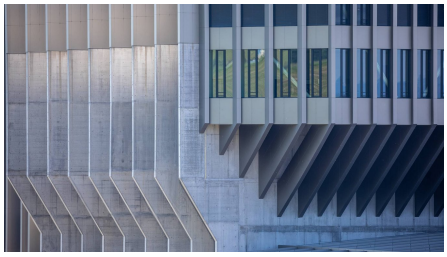
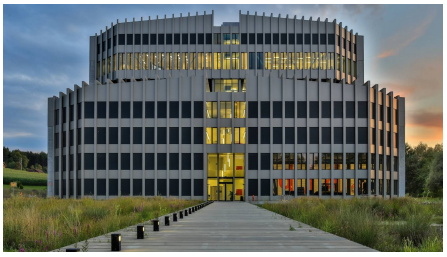
Implenia

Reference

Renergia waste incineration plant









SHORT DESCRIPTION

Renergia in Perlen (LU) is a modern and environmentally friendly waste incineration plant.

THE PROJECT

Renergia is responsible for the recycling of Central Switzerland's waste and is also a power plant that supplies Perlen Papier AG with process steam, provides hot water for several district heating lines and produces electricity for thousands of households. Thanks to the latest technology and the use of waste heat by Perlen Papier AG, exemplary energy efficiency can be achieved. The realization of the Renergia project is a joint effort by all waste disposal associations in Central Switzerland and Perlen Papier AG.

SERVICES IN DETAIL

- Building services engineering HVACKS
- Fire extinguishing technology

CHALLENGES

- Natural ventilation in the process area
- Interfaces to the process engineering trades
- Tight schedule
- Official requirements (e.g. RDA systems stairwells)

SUSTAINABILITY

- Waste is used to generate steam for the Perlen paper mill and electricity
- The residual heat is used to operate a district heating network for the surrounding area
- Planning and coordination in 3D

FURTHER INFORMATION

Use: Social building, operations building and process engineering

Floor area: 8'800^{m2}

Image source: thomi studhalter, faszination fotografie

FACTS

Location	AG Wagmattplatz 1, Renergia Zentralschweiz , Switzerland
Status	completed
Construction volume (value of our services)	7 M CHF
Start of construction	August 2012
Completion	June 2015
Building owner	Renergia Zentralschweiz AG, CH-6035 Perlen
General management	Fiedler Beck Ingenieure AG, D-200095 Hamburg
Architect	Fiedler Beck Ingenieure AG, D-200095 Hamburg

SERVICES

New constructions