



Experience

Expert opinions

Definition of goals

Permits

Plant operation

Efficiency

Innovation

Renewable

Pytec

Waste technology
and energy concepts

Experience

We use our wealth of experience in the service of our clients and enhance this by calling on leading experts for special themes.

Rytec offers a unique combination of innovative engineering and solid experience in plant operation. Our strengths lie in the development, building, optimisation and renovation of energy and waste processing plants.

Together with environmental and economic concerns, our sound engineering knowledge in the production of biogas, biological and thermal waste treatment, energy, waste and landfill process technology are channelled into custom planning and surveys.

We take on plant operation for CHP, fermentation plants, bio-mass power plants and sewage treatment.

Projects



Sewage sludge disposal Canton of Zurich

Rytec services

- Project management for the entire dialogue process
- Presenting workshops
- Clarifying logistics and transport
- Technical location studies
- Preparation of the final report

Client

AWEL Amt für Abfall, Wasser, Energie und Luft
(Office for Waste, Water, Energy and Air of the
Canton of Zurich)

Project

- The phosphorus recovery from 100,000 tons of sewage sludge in the Canton of Zurich
- Synergy effects discovered allow optimal integration into the existing infrastructure



**Gas engines for the biogas energy plant
Försheim-Wicker Landfill**

Rytec services

- Planning, project management, construction and startup of the technical building
- Plant operation of the landfill gas collection and energy plant with auxiliary plants such as a district heating system, gas cleaning plant, three ORC systems, backup power supply, etc.

Client

Rhein-Main-Deponie GmbH
D-65439 Flörsheim am Main

Project

- Conversion of landfill gas and biogas in seven gas engines with an installed electric power of 5,300 kW
- Heat supply for the entire facility with approximately 4.5 million kWh
- Cleaning of siloxane contaminated landfill gas using a cooling stage with downstream activated carbon adsorption
- Maintenance and adjustment of the landfill gas extraction facility with approximately 250 gas wells and 16 gas regulation units
- Supervision and functional monitoring through regular FID inspections of the landfill



**Location development strategy
VADEC, Neuchâtel**

Rytec services

- Systematic compilation of possible future processes and location options
- Step by step narrowing down of the alternatives together with the VADEC Steering Committee
- Decision support for the VADEC Management Board

Client

VADEC SA, CH-2013 Combier and
CH-2300 La Chaux-de-Fonds

Project

- Merger of two existing waste incineration plants of 60,000 and 55,000 tons per year (both of these supplying a district heating network)
- Development of a sustainable and competitive plant strategy
- The result: concentration on the location with a higher potential for heating sales

At Rytec we are committed to developing the very best solution for our clients – no matter how complex the challenge. We do this with a great deal of personal initiative and in cooperation with clients and specialists. We lead projects to success the world over – for a sustainable future.

You can get more information about our expertise and current project references in printed form at our offices or download them from: www.rytec.com.

Efficiency

District heating, energy optimisation, ORC, heat storage

Innovation

Thermal recycling, resource efficiency, HTC, wood distillation

Renewable

Biogas, landfill gas, wind energy, photovoltaics

Experience

Expert opinions, definition of goals, permits, plant operation



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