



**RAMBOLL**

## CONDITION ASSESSMENTS AND INVESTMENT PLANNING

The overriding objective of investment planning is to maintain the value of the asset based on its physical condition and its ability to generate income in the short and longer term.

This service will enable management to decide how the company shall invest in the years to come to enable a steady income and maintain the asset value.

Ramboll will elaborate a report that inventories future operation- and maintenance recommendations in order to be able to operate the plant efficiently and according to applicable standards and regulations until the decommissioning.

This work will be completed by combining an analysis of historic operation and maintenance regime and with client requirements regarding future operation of the plant.

This service will enable management to decide the investments needed to enable maximum income and maintain the asset value. The optimal investment plan relies on a precise understanding of the facility condition and the hence this service

typically includes a thorough condition assessment.

The condition will be evaluated based on operational data, maintenance data, plant inspections, interviews of relevant personnel and in some occasions measurements. With great market specific experience, and technical excellence Ramboll can evaluate the optimal investment plan for any Waste-to-Energy facility given it's unique configuration and position in local waste and energy systems.

Cost and benefit of improving the facility is always a part of the investment planning analysis and Ramboll will suggest improvements to the facility that will have a significant positive business case if any such are identified during our investigations. Ramboll will hold continues maintenance costs against the cost of reinvestment in new equipment/lines/plants and this will be included in the proposed investment planning.

### WHAT

The future value of the asset must be maintained or increased.

### WHY

- Lower gate fee
- New environmental legislation
- Increased income
- Plan future investments

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[www.ramboll.com/wte](http://www.ramboll.com/wte)

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## REFERENCES

- Life extension study Energist, Kolding, Denmark
- Life extension study Flötzersteig, Vienna, Austria
- Technical and financial condition assessments and investment planning on two WtE incineration lines, Vattenfall, Uppsala, Sweden
- Technical due diligence, Thisted, Denmark
- Technical due diligence, Odense, Denmark
- Technical condition assessments and investment planning on five WtE incineration lines, NLWA, Edmonton, London, UK
- Technical due diligence, Uppsala, Sweden
- Technical due diligence, London, UK
- Technical condition assessments planning on two WtE incineration lines, Horsens Fjernvarme, Horsens, Denmark
- Technical due diligence, Falster, Denmark
- Technical due diligence, Stavanger, Norway
- Technical and financial condition assessments and investment planning on WtE incineration lines, Odense, Denmark
- Technical due diligence, Isle of Man, UK
- Technical due diligence, Düsseldorf, Germany
- Technical condition assessments on one natural gas fired combined heat and power plant, Helsingør Fjernvarme, Helsingør, Denmark
- Technical due diligence, Brandenburg, Germany
- Technical due diligence, Rotterdam, Netherlands
- Technical condition assessments on one natural gas fired combined heat and power plant, Hillerød Fjernvarme, Hillerød, Denmark
- Technical due diligence, Bornholm, Denmark
- Technical due diligence, Skagen, Denmark
- Technical condition assessments on one WtE incineration line, Svendborg Kraftvarme, Denmark
- Technical condition assessments on two WtE incineration lines, Vienna, Austria
- Technical condition assessments on two WtE incineration lines, Leirvik, Faroe Island
- Technical condition assessments on WtE incineration, Saarbrücken, Germany
- Technical condition assessments on two WtE incineration lines, Giubiasco, Switzerland
- Technical due diligence, Torshavn, Faroe Island
- Technical due diligence, Leirvik, Faroe Island
- Technical due diligence, Malmö, Sweden
- Technical due diligence, Halmstad, Sweden
- Technical due diligence, Oslo, Norway



### WTE FACILITY, NLWA, EDMONTON, LONDON, UK

#### CUSTOMER

NLWA, North London Waste Authority

#### LOCATION

London, UK

#### PERIOD

2009-2020

#### SERVICES PROVIDED

Condition assessment of five incineration lines. CAPEX investment planning for the remaining life time of the five lines



### WTE FACILITY, RENO-NORD, DENMARK

#### CUSTOMER

Reno-Nord

#### LOCATION

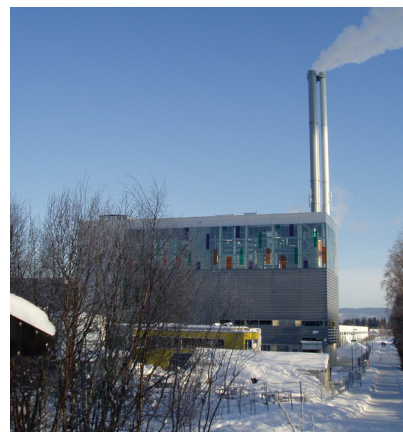
Aalborg, Denmark

#### PERIOD

2016-2019

#### SERVICES PROVIDED

Owners engineer for the capacity extension of oven line 3. Environmental impact assessment, environmental application and other authority applications



### WTE FACILITY, TRONDHEIM, NORWAY

#### CUSTOMER

Statkraft varme AS

#### LOCATION

Trondheim, Norway

#### PERIOD

2017-2018

#### SERVICES PROVIDED

Lifetime assessment of two incineration lines