OPERATIONAL PERFORMANCE REVIEW

The ultimate goal of operations is to ensure safe (for personnel and environment), reliable and economical optimal performance of the machinery.

The economical optimal performance is reached through predictable and maximal energy production (dependent on market prices) and availability of the machinery, maximum waste throughput, minimal own consumption of energy, resources and materials and with the minimum operating personnel.

Ramboll can provide an independent review of a WtE facility’s operational performance benchmarking it against industry average and best practice enabling an improvement programme moving the facility towards an improved competitive position on the market.

An operational performance review normally consists of the following tasks:

• Review of operational costs
• Review of operations organization and manning
• Review of operational procedures (including safe operational handling)
• Review of operational data
• Performance testing of energy system (boiler production data, turbine production data etc.)
• Performance testing of flue gas cleaning (consumption data, emission data etc.)
• Plant availability testing

The review will be conducted as data review, interviews, inspection and in some occasions a workshop.

Ramboll have developed several tools and checklists to conduct these reviews efficiently and we perform the energy system performance testing with the Thermoflex® tool where we benchmark the production data against design specs. For the facility and industry best practice.

This service could be offered both as a plant review in a report but also in a repeated procedure yearly/half yearly/quarterly or the like in a service agreement.

WHAT
Review of operations, benchmarking it against industry best practice enabling an improvement programme.

WHY
• Lower treatment costs
• More qualified information for management to steer the business
• More competitive market position

Contact:
Stephan Bhend
Waste-to-Energy
sehb@ramboll.ch
+41 79678 1412
REFERENCES

- 25 years operation and maintenance assistance, Isle of Man
- Day-to-day assistance and trouble-shooting services, Vaasa, Finland
- Operation assistance and trouble-shooting services for three incineration lines, EGE, Oslo, Norway
- Operational Strategy project, ARC, Copenhagen, Denmark
- Day-to-day assistance and trouble-shooting services, Aarhus, Denmark
- Day-to-day assistance and trouble-shooting services, KARA/NOVOREN, Roskilde, Denmark

WTE FACILITY, COPENHAGEN, DENMARK
CUSTOMER
ARC (Amager Ressourcecenter)
LOCATION
Copenhagen, Denmark
PERIOD
2012-2014
SERVICES PROVIDED
Operational Strategy project. Development of Operational strategies for the new two lines incineration plant.

WTE FACILITY, OSLO, NORWAY
CUSTOMER
EGE
LOCATION
Oslo, Norway
PERIOD
2009-2013
SERVICES PROVIDED
Operation assistance and trouble-shooting services for three incineration lines. Analysing of selected process operation parameters. Control of two incineration lines turbine energy system with focus on energy optimisation.

WTE FACILITY, ISLE OF MAN, UK
CUSTOMER
Isle of Man Govt., DLGE
LOCATION
Isle of Man, UK
PERIOD
1997-2029
SERVICES PROVIDED
Ramboll is managing the Department of Local Government and the Environment’s continued obligations under the 25-year operating period of the project agreement between the operator, SITA Ltd., and the Department.