

Thermal Waste Treatment

SYSAV Malmö, Sweden



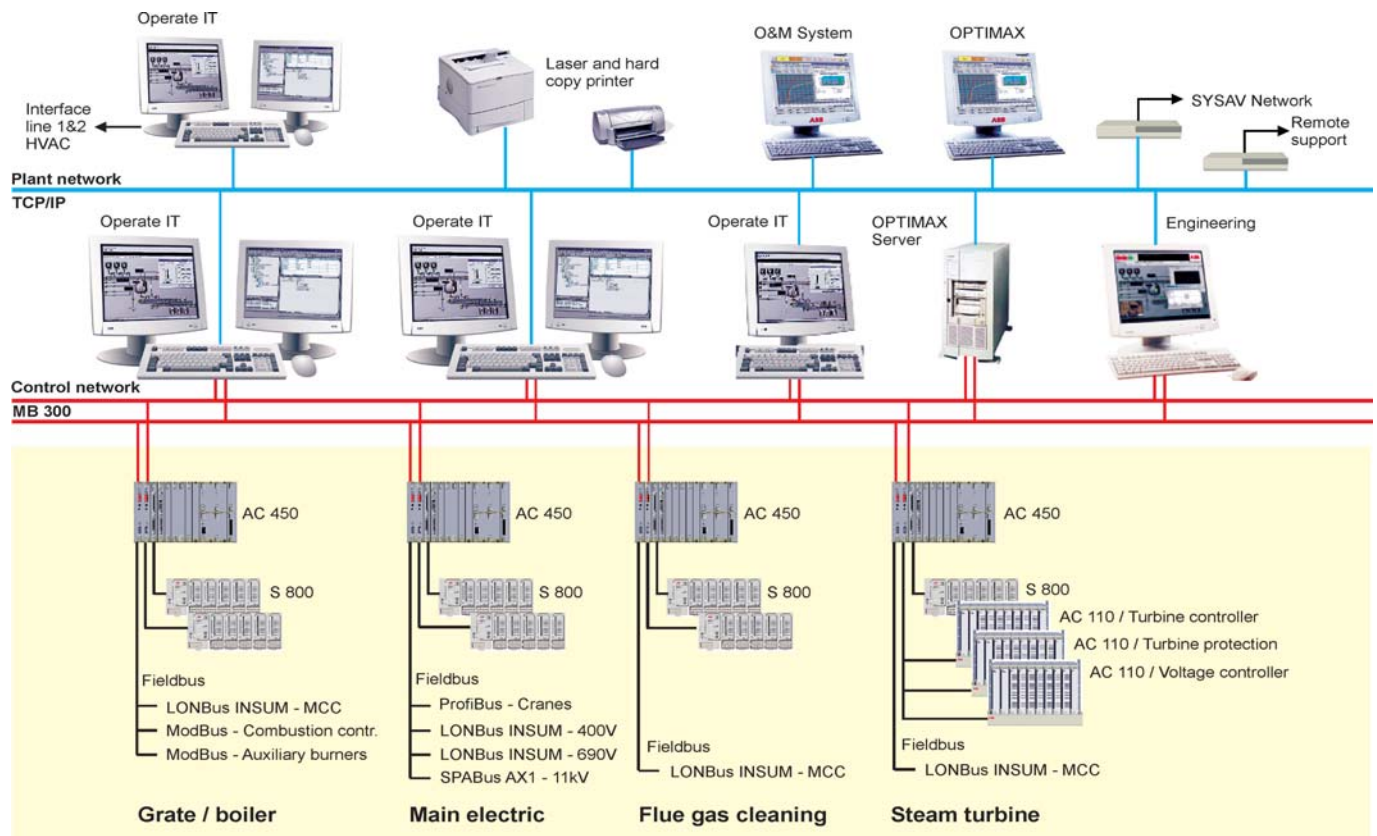
Highly automated waste incineration plant with Operate^{IT}

When installing the third incineration unit at the waste to energy plant in Malmö, Sweden, ABB realised the first project with Industrial IT based automation solutions for a WTE plant. For the customer SYSAV, it was of utmost importance to get a technically advanced and highly automated plant that could satisfy the industry's demands of tomorrow's information processing. Industrial IT links the plant automation system seamlessly with the information systems and offers operators and management real-time plant information data. With Operate IT the user profits from an optimal operator efficiency, a simplified process optimisation and a cost efficient use of resources.



ABB

SYSAV Malmö, Sweden



Plant data unit 3

Commissioning:	2003
Incineration lines:	1
Combustion capacity:	25 t/h
Steam production:	100 t/h
Electricity:	26 MW
District heating:	
- condenser:	45 MW
- heat pumps:	2 x 9 MW

Operation data

Operator stations:	3 x Operate IT 1 x Engineer IT
Info-Mgmt-System:	1 x Optimax 1 x O&M system
Process stations:	4 x AC 450 red. 3 x AC 110 4 x AC 800M
Remote I/O:	S 800
Process signals:	6'500

ID fan, 2 MW (redundant)



Instrumentation



Electrical equipment



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Scope of supply

- Process control system Industrial IT
- Instrumentation
- Medium voltage switchgear AX1
- Transformers
- Motors
- Frequency converters ACS 600
- Low voltage switchgear INSUM
- Emergency power generator
- Electrical installation
- Service, remote support
- Turbine controller
- Uninterruptible Power Supply (UPS)