



## Consulting Services

- Troubleshooting in existing plants: assessment of actual process performance for aspects of gas and water quality, environmental requirements and demand of maintenance
- Bottleneck identification with recommendations for improvement
- Definition and ranking of measures to overcome the identified limitations of the investigated equipment
- Strategy plan detailing short, medium and long term measures: modification of operation procedures, equipment modification and optimization, recommendation of new equipment
- Feasibility study for green-field projects as well as brown-field projects - new equipment, revamping or refurbishment of complete by-product plants or parts thereof
- Pre-Engineering with process definition

## Basic & Detail Engineering

- Project management
- Basic engineering: process definition, specification of equipment, layout planning, also in 3D
- Static calculation of plant equipment
- Safety analysis
- Detailed Engineering: Equipment drawings, automation and I&C-planning, engineering of pipeworks

## Supply - Erection - Supervision of Erection and Commissioning

- Supply of key equipment as well as process equipment
- Supply of complete by-product plants in cooperation with partners
- Delivery to site
- Erection of delivered supply
- Supervision services for erection and commissioning of equipment delivered by DMT as well as equipment delivered by other parties

**DMT**

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**DMT**

# Coke Oven Gas Technology

Next Generation Technologies –  
Serving the World's Natural  
Resources Sector

Industrial Engineering  
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Engineering  
Performance

TUVNORDGROUP



## By-Product Plant at Coke Plant Ceara, Brazil

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**Design of the following Units of a complete By-product Plant for 88.000 Nm<sup>3</sup>/h coke oven gas:**

- Primary gas cooler
- Electrostatic tar precipitator
- Gas exhauster
- Ammonia and hydrogen sulfide scrubbing system
- BTX scrubber
- Ammonia still and de-acidifier
- Wash oil regeneration plant
- Caustic soda dosing unit
- Crude benzene storage

**Contract includes:**

- Basic engineering of the mentioned units in the by-product plant
- Delivery of the key components for the process
- Erection supervision and commissioning

**This Project is accomplished in Partnership with Paul Wurth Italia S.p.A., Italy**

## Replacement of a Primary Gas Cooler at Coke Plant Bottrop, Germany

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**Design and Delivery of a Primary Gas Cooler Replacement of Equipment in an existing plant during Operation**

- Primary gas cooler

**Contract includes:**

- Basic and detail engineering
- Delivery of gas cooler
- Erection
- Supervision
- Commissioning
- (Turn Key)

## By-product Plant at Coke Plant Bhilai, India

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**Design of the following Units of a complete By-product Plant for 55.000 Nm<sup>3</sup>/h coke oven gas:**

- Tar separation
- Primary gas cooler
- Electrostatic tar precipitator
- Gas exhauster
- Ammonia and hydrogen sulfide scrubbing system
- Naphtalene scrubber
- Gravel filter
- Claus plant
- Ammonia still and de-acidifier, wash oil regeneration

**Contract includes:**

- Basic and detail engineering
- Delivery of key components for the process
- Erection supervision and commissioning

**This Project is accomplished in Partnership with McNally Bharat Engg., India**