



**LOHRMANN**  
GROUP

## CCGT POWER STATION



900 MW ( 2 x 450 MW)

Combined Cycle Gas Power Plant

Ref.-No.:  
GT-CC-052

- Presented by: Lohrmann International Germany

# Main Power Station Data

Power Output (net)	2 x 450 MW
Lay-out	2 Modules of (2 GT + 1 HRSG + 1 STG) ea.
Grid connection	400 kV
Net make up water flow (river quality, current location)	200 kg/s
OEM	Siemens
Combined Cycle Mode Efficiency	49,5 %
Open Cycle Mode Efficiency	33,0 %
Total Surface (gross)	10 Ha

# CCGT – Basic Data

	Design (@15°C, 1013 mbar)	Actual
CCGT (Module)	450 MW	456 MW
Net Efficiency	50,5 %	49,5%

Operational range: 80 MW – 912 MW

## Emission levels:

NO<sub>x</sub> CO

Permit

50 mg/Nm<sup>3</sup>

50 mg/Nm<sup>3</sup>

Actual

25 - 35 mg/Nm<sup>3</sup>

0 - 10 mg/Nm<sup>3</sup>

Legislation

IED Compliant

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# Major Power Station Milestones

Milestone	Date
COD	1992
Mothballing	2002
Recommissioning	2003
Latest Major Overhaul (Module 1 / Module 2)	2005 / 2006
Latest Medium Overhaul (Module 1 / Module 2)	2010 / 2011
Official Closure Date	June 2015

# CCGT was built as the Flagship in the early 90s

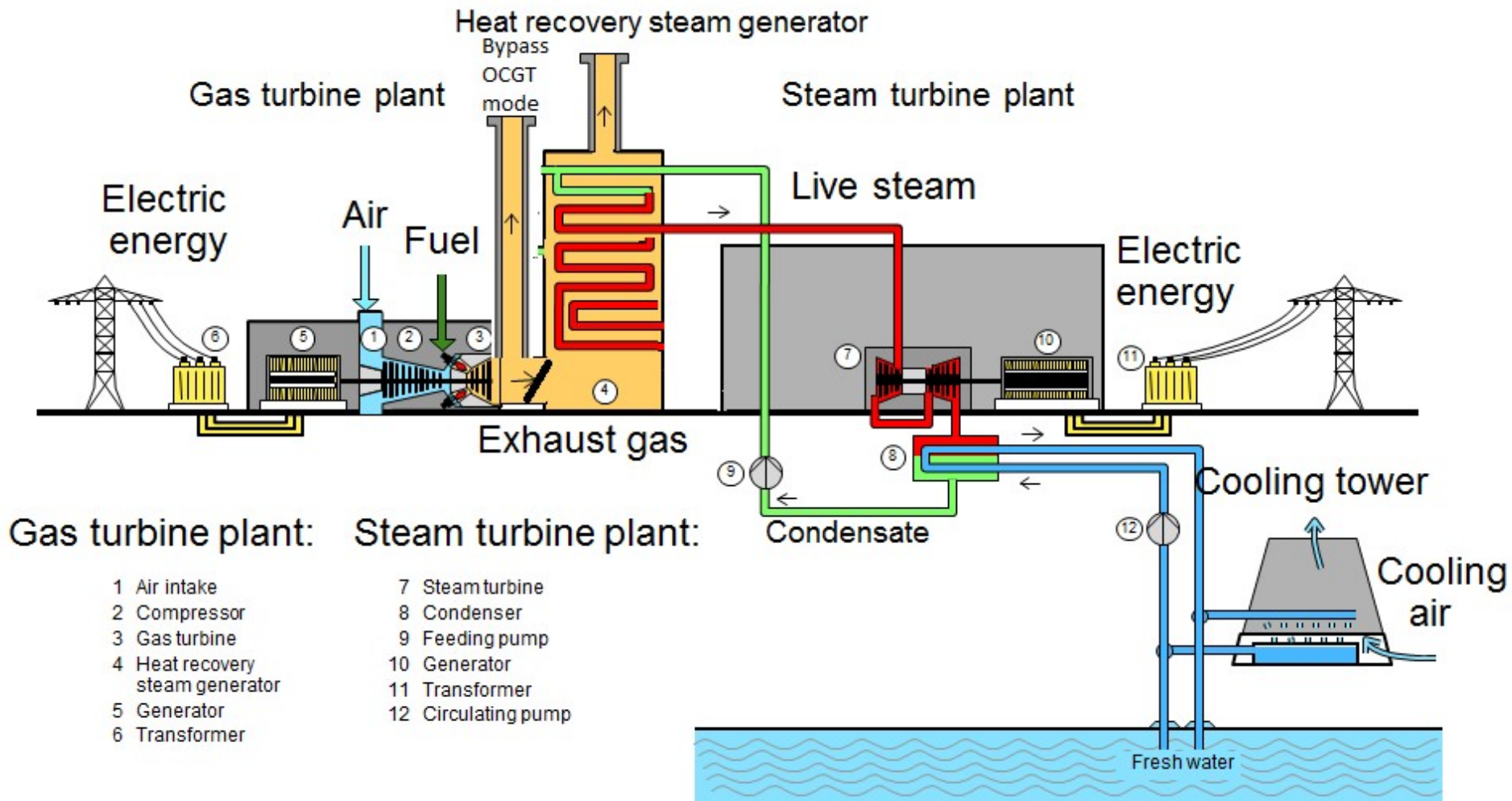
- The plant was built under an EPC contract
- The whole plant was constructed using a modular approach with high level of prefabrication
- Robust and reliable V.94.2 generation family
- Equipped with by-pass stack (CCGT and OCGT operational modes possible). Very high flexibility and rapidness in the respond





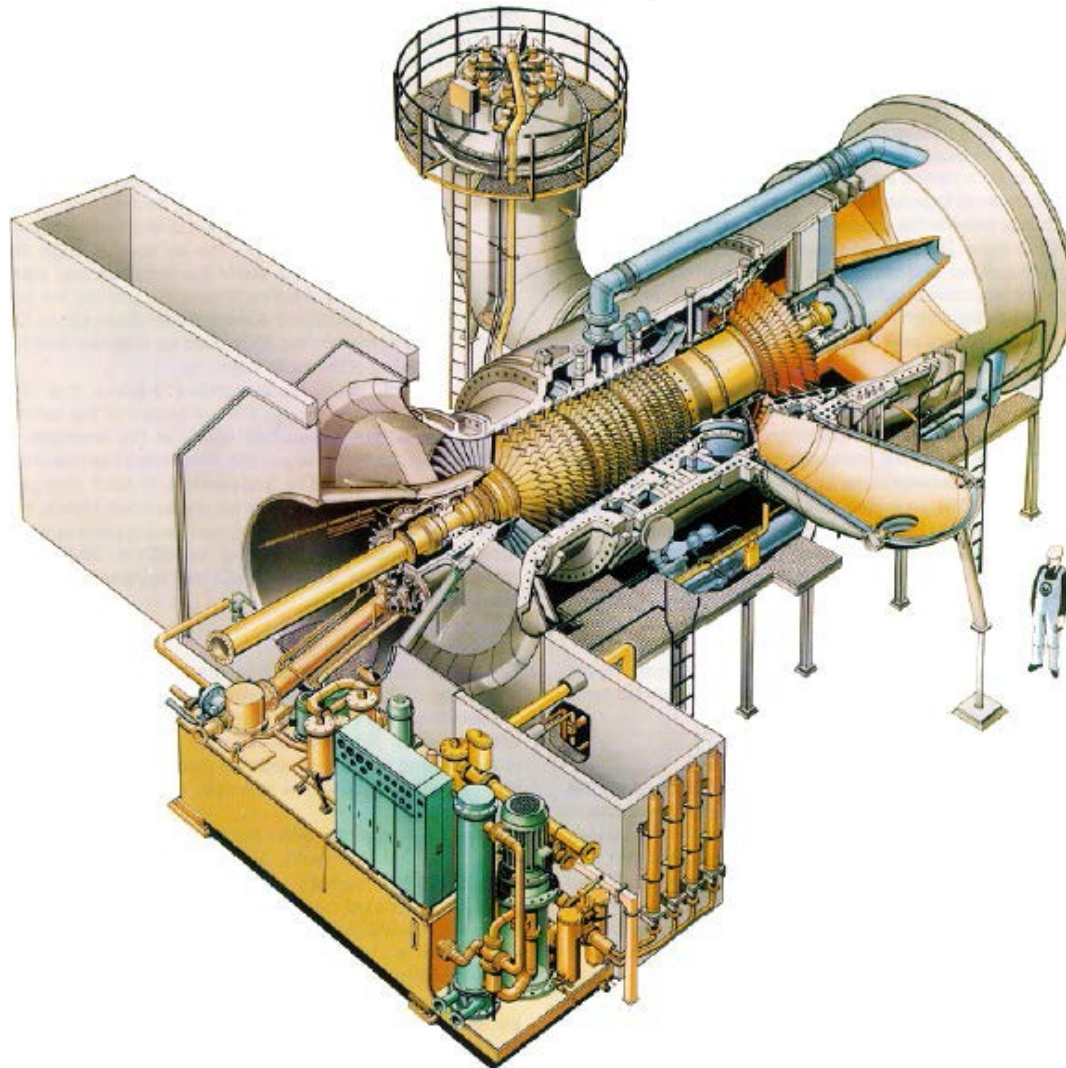
# Impressions on building structures







# GT: V94.2



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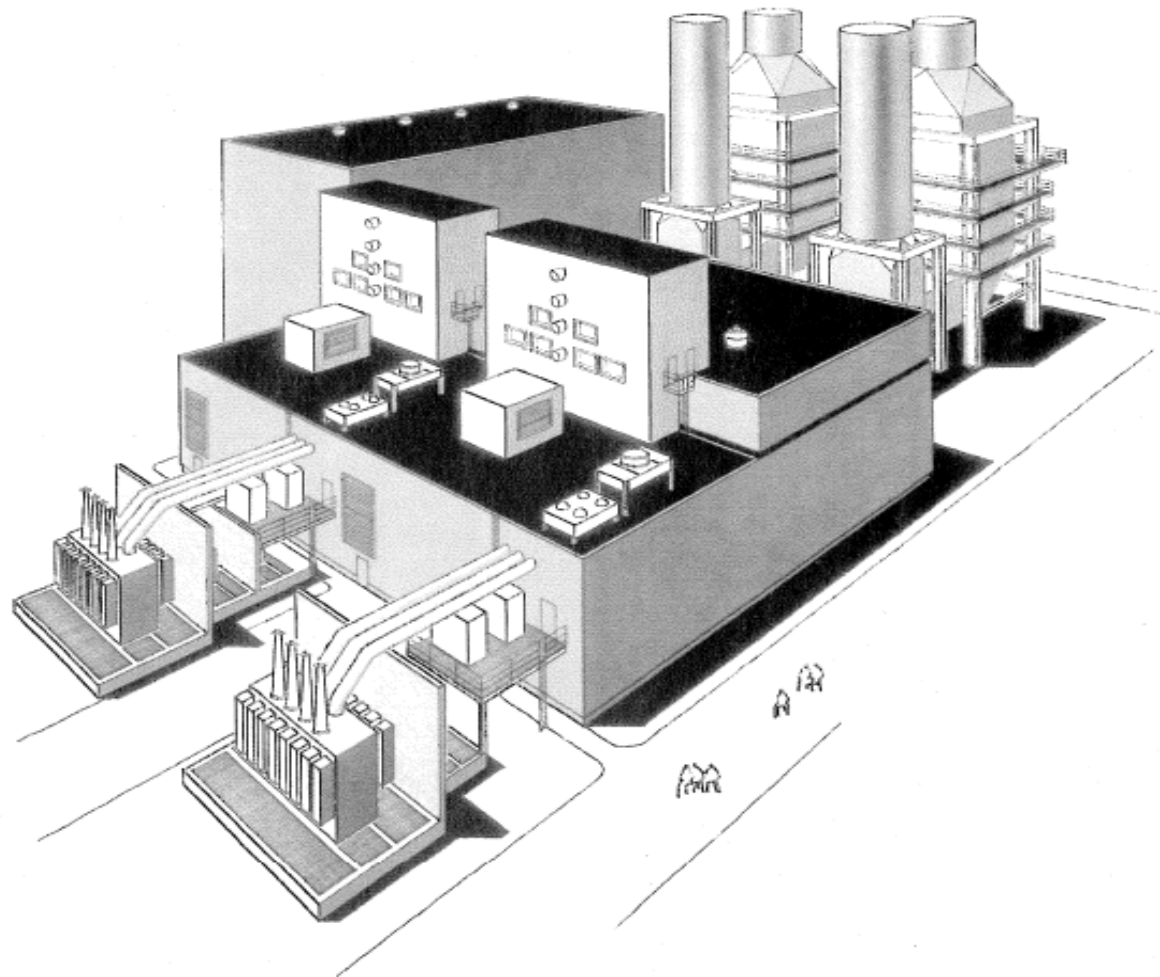


## CCGT – Latest Years Operating History

Year	EOH (Cumulative)	Starts (Cumulative)
2014	135371	1980
2015	135914	2006
From June 2015	Plant officially closed. Preservation measures in place to ensure potential reutilization.	



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Thank you!



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