

G-E-W Gas-Elektrizitäts-und Wasserwerke Köln AG

Developer: Self-Owned
and Operated

Location: Köln (Cologne), Germany

Installed: 1992

G-E-W operates the gas, electricity and water works in Köln. Due to demand growth, G-E-W needed to expand the capacity of its Niehl power station which provided 315 MW of electricity plus 754 GJ/hr of hot water for a district heating system.

G-E-W installed two *Centaur*® 50 gas turbine generator/mechanical-drive units packaged by MAN Dezentrale Energiesysteme of Munich, Germany.

Each turbine unit generates 3 MW of electricity and also runs a large water pump driven off the generator shaft. The hot exhaust from the gas turbines serves as pre-heated combustion air for fired boilers that supply additional hot water for district heating.

