

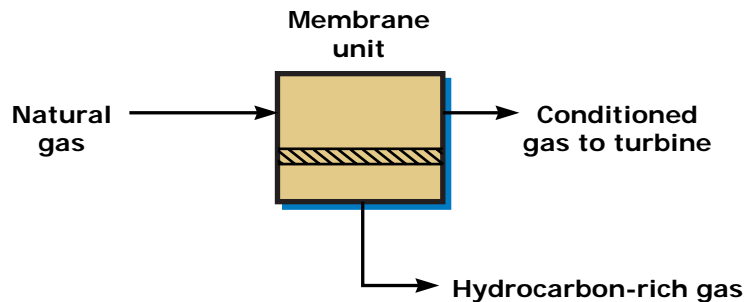


CASE STUDY:

Fuel Gas Conditioning (FGC) for Large Power Turbines

Client's Problem

The client was building a natural-gas-powered combined-cycle power plant in Brazil. During the construction phase of the project, the client discovered the natural gas at the plant site did not meet the strict gas quality specifications of the gas turbine manufacturer. To meet the scheduled start-up date, a gas treatment system had to be in place within 20 weeks.



MTR's Solution

MTR used a single-stage membrane system to remove the heavy hydrocarbons from fuel gas, thereby meeting turbine specifications. The membrane unit was designed to be flexible, operating at 2 different pressures and with a turndown ratio of more than 50%. The unit was designed to treat 45 to 90 MMscfd. MTR delivered the unit in 17 weeks, more than 3 weeks ahead of schedule.



Gas turbine power station with fuel gas conditioning unit