

Combine-Cycle Unit

Deer Creek Station Elkton, SD



Basin Electric's First Combine-cycle Unit

1-Natural Gas-Fired Turbine 180 MW's

1-Steam Turbine 141 MW's

Plant Total Output 321 MW's

Commercial August 2012

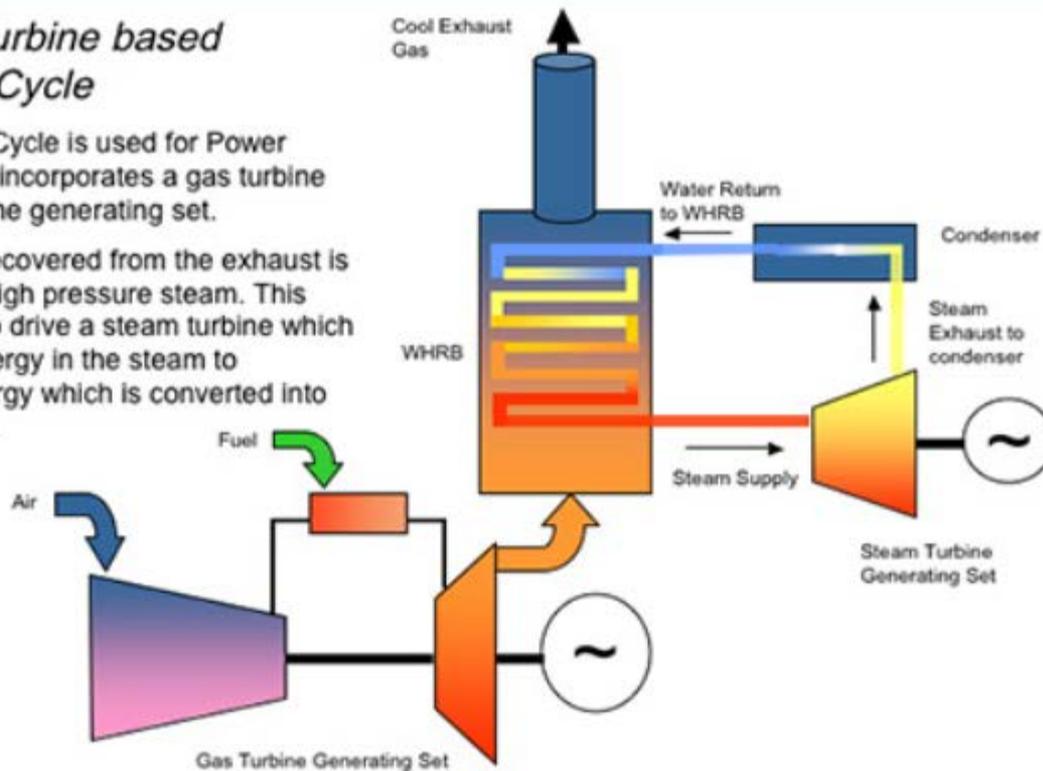


Combined Cycle

The Gas Turbine based Combined Cycle

The Combined Cycle is used for Power Generation and incorporates a gas turbine and steam turbine generating set.

All of the heat recovered from the exhaust is converted into high pressure steam. This steam is used to drive a steam turbine which converts the energy in the steam to mechanical energy which is converted into electrical power.



Construction started in July 2010



14 Miles of Natural Gas Pipeline

The gas pressure inside the pipe is 875 psi. It is regulated down to 500 psi to be used in the gas turbine here at the plant



Commercial Date

August 1, 2012

2012 Operational Hours

- 190 run hours

2013 Operational Hours

2,421 run hours