

HyNet Hydrogen Production Plant 1 – Technical Note

EPR Response – 9gi – BAT for energy efficiency

Summary

Problem Statement

Provide energy efficiency figures for the combustion equipment (fired heater and auxiliary boiler).

Response

Summary:

The items listed below are the combustion equipment proposed from specialized vendors for LCH plant.

1. Fired Heaters (F-101):

The Fired Heater package proposed by the vendor, has a fuel efficiency included in the datasheet. The guaranteed efficiency for design and start-up is 92% (LHV).

2. MP Steam Boiler Package (B-101):

MP Steam boiler thermal efficiency proposed by Boiler vendor is 95%.

During finalization of vendors, efficiencies will be confirmed.

Reference Document:

[1] Fired Heater Data sheet – from Verga engineering

[2] MP steam Boiler TBE sheet