

Permit Number: EPR/FP3232KG

Operator:

Dwr Cymru Cyfyngedig

Facility: Cardiff CHP Facility

Form Number: Performance1 / DD/MM/YY

Reporting of other performance indicators for the period 01/01/2018 to 31/12/2018

Parameter	Units
Fuel input to installation (biogas)	7,775,464 m ³
Fuel input to installation (Natural Gas)	1,541,345 m ³ or 1032 Tonnes
CHP engine efficiency	41.0 %
Hours of operation for engines and hours that engines operated in CHP mode	CHP #1 4822 Hours all CHP mode CHP #2 5137 Hours all CHP mode CHP #3 4964 Hours all CHP mode
Hours run on biogas (boiler)	119 Hours
Hours run on Natural gas (boiler)	8,571 Hours
Power output - heat	22,562.67 MWh
Power output- electricity	20,939.07 MWh
Energy Efficiency	65.9%
Water usage	45,011 m ³
Water generated	-
Operational hours of waste gas burner	425 h
Biogas burnt by waste gas burner	377,764 m ³

Operator's comments :

The gas emissions testing was carried out in September 2018 for engines #1 and #3 but engine #2 had to wait as a major rebuild was needed. Due to several issues the testing of the CHP #2 was postponed until the 10th January. This was reported with a Part A notification. In 2018 DCWMW was allowed to run the three CHP engines at the same time. This fact, together with having less reactive issues on the CHPs led to a better usage of the biogas produced.

Signed

(Authorised to sign as representative of Operator)

Date 28/03/2019

ANDREW

DIXON

ENERGY

OPERATIONS MANAGER