

Energy from Waste Combined Heat and  
Power Facility, North Yard, Devonport

**DDNB Energy Monitoring Scheme** (Pursuant to Section 106  
Agreement, Schedule 2, Clause 4)



## 1. Introduction

MVV Environment Devonport Limited (MED) has been awarded the South West Devon Waste Partnership's (SWDWP) residual waste treatment contract. To deliver this contract MED is constructing, and will operate, an Energy from Waste Combined Heat and Power (EfW CHP) plant on land situated in the north east of Her Majesty's Naval Base (HMNB) Devonport, Plymouth, also referred to as The Devonport Dockyard and Naval Base belonging to the Secretary of State for Defence and Devonport Royal Dockyard Limited (DDNB).

MED was granted planning consent for the facility on 3rd February 2012, together with an Agreement made pursuant to Section 106 of the 1990 Act. This plan meets the obligations set out in Schedule 2, Clause 4 of the S.106 Agreement; to provide a DDNB Energy Monitoring Scheme.

## 2. Requirement

The DDNB Energy Monitoring Scheme is defined as:

“A written scheme to measure steam and electricity delivered from the Plant and associated carbon dioxide emissions following the Operational Date by means of annual audits and reporting.”

## 3. Proposal

Steam and electricity delivered to the DDNB are measured at prescribed metering points as follows:

1. Electricity Delivery Point 1: Measured in kilowatt-hours electric by the 33kV Export meter in the Facility Interface Substation located in Goschen Yard, with reference P0BAA10GW002-P01
2. Electricity Delivery Point 2: Measured in kilowatt-hours electric by meter number by the 11kV Export meter in the Energy from Waste Facility, with reference P0BBB10GW005-P01
3. Steam Delivery Point 1: Measured in kilowatt-hours thermal by the Energy from Waste Facility control system point P0NAA10CU901

Energy delivered at each metering point will be metered continuously and the annual amount for the prior year will be recorded on each anniversary of the Operational Date.

Associated carbon dioxide emissions shall be calculated using the following factors:

Electricity: 0.31 kg CO<sub>2</sub>/kwh  
Steam: 0.31 kg CO<sub>2</sub>/kwh

These factors may be reviewed from time to time by agreement with Plymouth City Council as the efficiency of the Plant is reassessed.

In accordance with the S.106 Agreement the delivered energy for that year will be published within 28 days of the end of each year in the table format included in Appendix 1 on the Community Website.

The table update will be prefaced by a summary of the statements made in the approved planning application concerning the amount of energy consumed by DDNB prior to the application date, and to the extent DDNB are prepared to provide the data, the energy demand in the three years prior to the Operational Date will also be provided. This will enable some loose, but not scientific, comparisons with the Plant's electricity and steam output.

**Appendix 1**

Metered Energy Data

Date	Electricity Delivery Point 1 kwh	Change in Year kWh	Electricity Delivery Point 2 kwh	Change in Year kWh	Steam Delivery Point 1 kwh	Change in Year kWh	Associated CO2 Emissions
Xx yy 2015	0000		0000		0000		
Xx yy 2016	1000	1000	500	500	750	750	
Xx yy 2017	1950	950	900	400	1500	750	