



Dartmoor Bio Power

Commissioning
& Operations



IMS
Implementation

Client

CoGen UK

Location

Plymouth, England

Awarded

April 2017

Overview

To manage the operations of a waste wood gasifier on behalf of the investor.

- ▲ **40,000 tpa** of waste wood
- ▲ **4.3 MW** of electricity

Project Team

- ▲ Zebec - *Site Operator*
- ▲ Nexterra - *Gasifier Technology*
- ▲ Roltech - *EPC Contractor*

Project

Dartmoor Bio Power was retrofitted in 2016 with Nexterra's advanced thermal technology. The plant runs on waste wood to allow the gasification process to be tightly controlled, avoiding the feedstock variability issues commonly faced by plants fed on municipal wastes.

Zebec were engaged as the Plant's Operator during the commissioning phase, acting on behalf of the owner. Initial tasks included recruiting and training a full complement of operations and maintenance staff, setting up the IMS documentation system for the site and working with the EPC contractor.

Other responsibilities included sub-contractor management, health and safety, and implementing a computerised maintenance system using Pirana CMMS software. Although CoGen retained control of the plant's licences and RHI submissions, it was Zebec's job to ensure that the site team worked in compliance with all regulatory rules and contractual obligations, and to support CoGen by providing the data and reports required for their stakeholders.

Key Skills

- ▲ Recruitment
- ▲ Training
- ▲ Permit Compliance
- ▲ Health & Safety
- ▲ HAZOP Process
- ▲ Feedstock Agreements
- ▲ Contractor Management
- ▲ KPIs & Client Reporting

"Zebec's experience of operating renewable energy plants ensured the smooth transition from commissioning to operations during a complex retrofit project."

