



National Botanic Gardens OF WALES

The Welsh Assembly and National Botanic Gardens of Wales charity began research into providing a 500kW biomass heating system to the National Botanic Gardens of Wales in Camarthenshire in 2011.

The site comprises multiple nursery glasshouses for exotic plants and the world's largest single spanned glasshouse, a visitor centre, art gallery, gift shop and a restaurant in the Stable Block for the thousands of visitors that the gardens welcome each year.

Working directly with the client, Rural Energy provided designs for a 500kW Herz BioMatic to heat this Government funded and charity managed tourist attraction.

With the level of heat required, Rural Energy's technical design team specified a scraper 'walking' floor fuel store which could constantly provide wood chip to the auger in a cost-effective and efficient manner.

As the charity manages its own woodland, some of the trees are chipped and used as fuel for the biomass system, making this an even more sustainable solution for the gardens.

The biomass installation now heats the National Botanic Gardens throughout the year, providing heat and hot water to the glasshouses to maintain optimum plant growing atmospheres and hot water for cleaning. The heat is also used in the visitor centre and cafe.

The Botanic Gardens are the most visited gardens in Wales and the management has invested in a myriad of sustainable resources and technologies, of which the biomass system is a key component.

CASE STUDY FOCUS

Supplying
500kW

Herz® BioMatic

With a
**WALKING
FLOOR**



SYSTEM SUMMARY

Boiler Type: Herz® BioMatic

Fuel Type: Wood chip

Fuel Store: Walking floor within store

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Rural Energy
INSTALLING BIOMASS SINCE 2002

