



*Blue Certificates*, formed from a combination of the experience gained by Whitenergy in the energy efficiency field and the use of renewable thermal sources serving district heating networks, provide benefits on the heat used for production processes, heating and domestic hot water production. *Blue Certificates* are compatible with:

- White certificates or TEE (from both Ministerial Decree 12/28/2012 and 11/01/2017)
- Conto Termico 2.0 (Renewable Heat Incentive)
- Comprehensive tariffs and other electrical RES incentives (for biomass plants producing heat and electricity).

Incentives for the use of geothermal heat, which can be combined with White Certificates, Conto Termico 2.0 Renewable Heat Incentives and Comprehensive Tariffs.



### THE BLUE GEO SERVICE

With the Blue Geo Service, Whitenergy offers an innovative tool, unique to the market, that renders investments in geothermal heating systems more profitable.

The Blue Geo service is ideal for:

- EXISTING GEOTHERMAL WELLS

To maximize the production of existing geothermal systems and reduce heat production costs.

- NEW GEOTHERMAL PLANTS FOR THERMAL PRODUCTION

To improve the competitive edge of investments in renewable energy sources (geothermal) for the production of thermal energy.

- NEW GEOTHERMAL PLANTS FOR ELECTRICAL PRODUCTION

To facilitate investments in the production of electricity from geothermal energy, thereby enhancing waste heat.



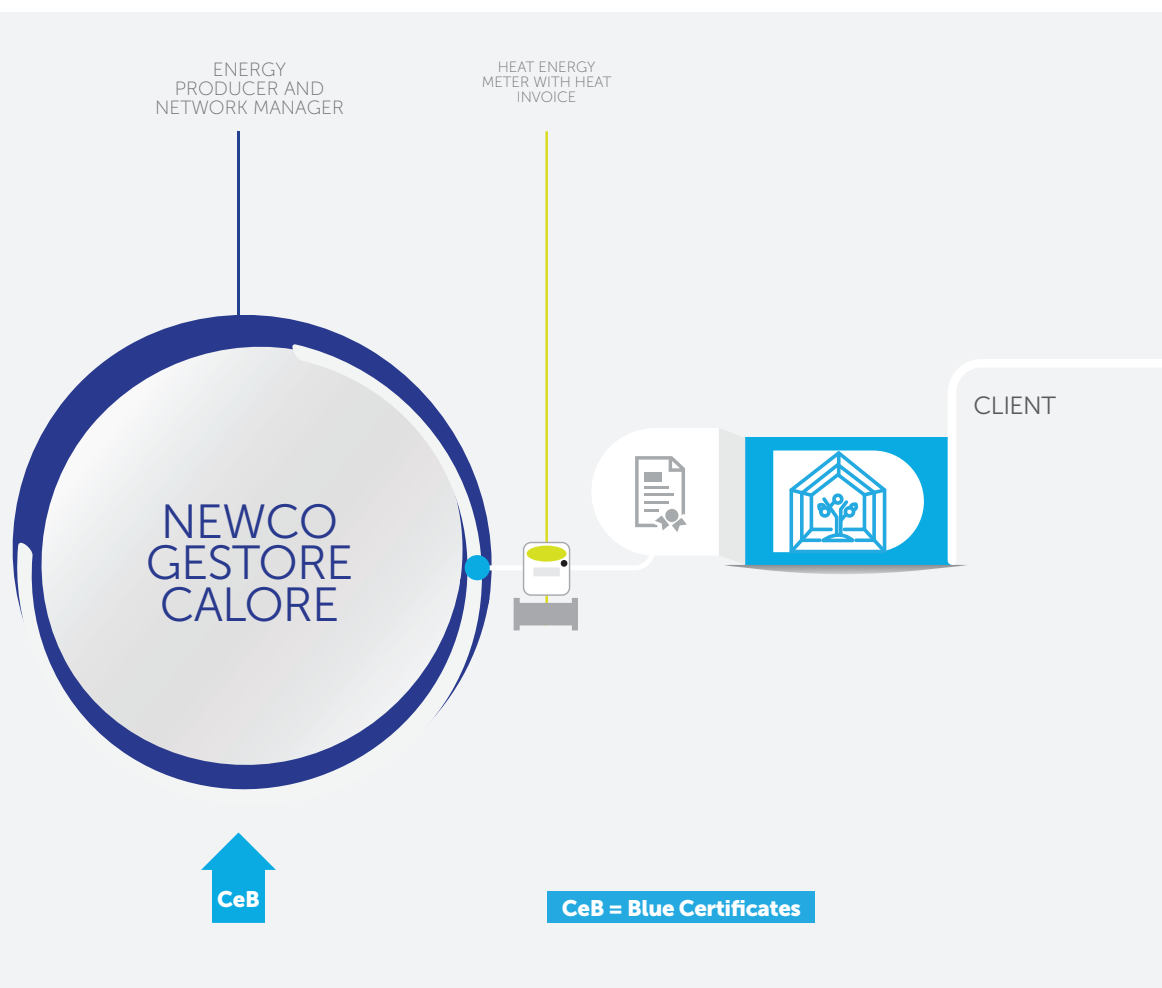
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## WHO IS IT FOR?

BLUE GEO is designed for anyone who uses geothermal energy as a heating source or who wishes to make an economically rewarding and environmentally sustainable choice by investing in geothermal energy.

The BLUE GEO service is particularly suited to:

- the agri-food sector of greenhouse cultivations;
- the civil-residential sector: condominiums that use low and medium enthalpy geothermal energy;
- the Tertiary sector: medium and large hotel facilities, hospitals, large-scale retailers and similar organizations which use geothermal energy;
- district heating networks powered by geothermal energy or using geothermal heat pumps.



## THE WHITENERGY GUARANTEE

- Preliminary study of the project's technical and economic feasibility
- Acquisition of qualifications and permits required by authorities



## CASE STUDY

### The BLUE GEO solution for an existing geothermal well

The client is a farm that grows its produce in greenhouses over total area of 10 ha, which uses heat extracted from geothermal wells to heat the greenhouses.

#### *Situation prior to intervention*

The company spent 120,000 € a year on electricity for the extraction and reinjection of geothermal resource.

Additional costs include ordinary and extraordinary maintenance of the energy system, in particular for the highly used submersed pumps.

The estimated average heat requirement of the greenhouses is approximately 10,000 MWh per year.

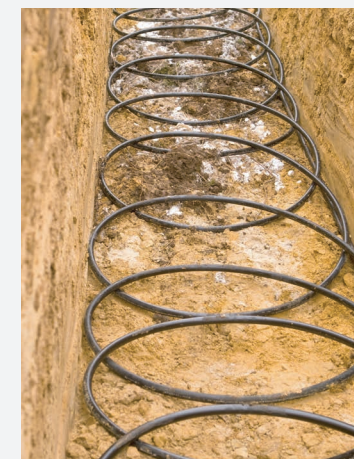
#### *Proposed solution and post-intervention situation*

Following a technical analysis, Whitenergy recognised the plant as a beneficiary of Blue Certificates.

The certificate value to which the company can gain direct access is € 100,000 per year.

Whitenergy offered the customer an additional opportunity to access the full potential of the incentive, through investing in measurement equipment necessary to record energy and taking over management of the resources.


In this case, Whitenergy assumed the role of Heat Manager, which allows the client farm to benefit from Blue Certificates for a total annual amount of € 220,000.



- Financial, administrative and contractual support
- Measurements, consumption monitoring, quantification and certification of incentives



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