

Case Story Vineyards Frost Protection

Vineyards Frost Protection in Chablis, France

ECvineyard Protect.

Electric Heating by Danfoss to protect the domain Louis Moreau in Chablis where Chardonnay is grown.

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Case description

The domain Louis Moreau in Chablis is a 50-hectare family estate. Today it's owned by Louis Moreau, representing the sixth generation of his family's vine growers. With 80% of production being exported, the vines of Chablis are well known in France and worldwide.

Since 2015, late spring frost at night started happening in Chablis causing big challenges for the Chardonnay vines. On average they lasted yearly for 5 nights.

Since that time Louis Moreau enterprise used candles to protect vines against frost. But this solution was very expensive from the perspective of time, energy and human efforts.

Customer's issues

Yearly expenses on candles used for frost protection were high and this solution hasn't proven itself to be cost-effective and ecologically friendly.

Moreover Mr. Louis Moreau wanted to have a sustainable and reliable solution for years ahead without hampering work of the employees.

For this reason, to protect vines and to have a possibility to collect a good crop for yearly wine production – solution by Danfoss has been chosen.

Parties :



Louis MOREAU
Vine grower



IONELEC
Distributor



Damien BELLAT
Electric Installer



Return on investment

5-6 years



Cost of using

25€/h
/ hectare *



End-user satisfaction



* 170 KVA/h around 25 €/h per hectare according to the production type

Customer benefits:

Installer Damien Bellat speaks of several advantages provided by use of Electric Heating by Danfoss. First of all, it's a support provided by Danfoss starting from full package of services at initial phase of the project and ending with after-sales support.

Also, the prefabricated cold connections in Danfoss factories offer considerable time savings in the deployment of frost protection systems. Connection to the electrical cabinet is greatly facilitated.

With its reinforced structure, the cable easily resists weathering, UV rays and corrosion, thus reducing requests to the after-sales service.



Vine Grower's Benefits

Vineyards Frost Protection by Danfoss is an ideal solution for vine growers. It allows to protect vines against frost damage effectively and considerably increase the crop.

- Autonomous solution reducing current costs
- Quick return on investment with fixed price per hectare
- A low-carbon solution that respects the environment
- A product that does not harm to the landscape
- Silent solution that doesn't disturb the neighbors
- A solution adapted to wine-growing practices (leaving space for people and machinery)
- 20-year warranty offered by Danfoss for heating cables

"I was contacted by Louis Moreau enterprise for this project to install electric heating cable to protects vines instead of the solution they used before – candles. They wanted to have a reliable solution making no pollution to the nature.

I was very well supported by Danfoss team. Colleagues from commercial and technical service understood my project and provided me with support from A to Z.

Danfoss company has also offered to make a self-limiting cable as an option, but I preferred a resistive heating cable because it was more affordable to me and technically easier. Moreover, Danfoss could offer a pre-fabricated solution."

Mr. Damien BELLAT
Electric Installer
SARL DAMIEN BELLAT, Chablis

A fixed electrical installation to save time

For Mr. Moreau's vineyard, the choice of a fixed electrical cabinet to power the heating cables was preferred to a mobile solution.

It allowed to save time every time it's necessary to turn on the electric heating system. The system is ready to start functioning at any moment.

On this electrical cabinet made by the electrician installer Damien Bellat, an indicator light has been installed to quickly provide information on the functional status of the electric heating cable.



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