

E-NEWS

Hoogendoorn provides automation for the largest European horticultural cluster

In recent years the local authority has been looking for a new horticultural site. This is how the Bergerden horticultural area, located at Bemmel in the province of Gelderland, came into being. Within the next few years 350 hectares of land will be occupied by around 40 horticultural businesses. In the new horticultural area it was decided to provide a central water and energy supply to which all the horticultural businesses are connected. This is also called the Bergerden Horticultural cluster.

Energy prediction



In addition to a process computer that every grower can use in his own business, the whole area has a central computer (ASP server). Among other things this computer adds up the energy requirement of all the glasshouses and sends this data to the energy plant. The energy plant, will provide all the energy for the whole area, distributing the right

quantity to the right business. If one crop, for example peppers, has a peak in its energy demand, the energy demand can be compensated for by a business that does not require a lot of energy at that time.

Own energy plant

A special feature is that Bergerden takes the gas that it uses to make energy directly from a national gas supplier (GasUnie). So Bergerden has become its own energy supplier.

For the horticulturalist the advantage is that the energy supplier guarantees that this way of working is 10% cheaper than obtaining energy via an energy supplier. With the gas that the cluster obtains from GasUnie, CO₂ and electricity are also produced. These energy streams are thus all centralised and distributed in the optimum way to the different nurseries with various crops.



Suppliers

In addition to the joint purchase of gas and hence energy, the watering is also centralised. The irrigation water company distributes the water to all the connected nurseries. Here too the central computer ensures optimum distribution. To profit from the benefits it is necessary for all the companies to obtain certain materials from the same supplier. The horticulturalists connected have therefore made a clear choice in advance.

E - NEWS

Automation

Hoogendoorn has been involved in the most innovative projects within the horticultural sector for over 30 years. Both nationally and internationally Hoogendoorn has successfully automated many clusters such as the Bergschenhoek Horticultural cluster.



At the Bergerden Horticultural cluster Hoogendoorn will supply all required automation within the glasshouses. That means among other things the automation of the glasshouse climate, the watering and the energy prediction calculations. Hoogendoorn is therefore not only supplying the process computers for the horticulturalists in their own business, but also the central computer system.



The central computer

The central computer has a number of essential tasks in the Horticultural area in Bommel.

The computer will not only chart the joint energy requirement, but also manage the joint software and the weather report. This means that software that is used by all the horticulturalists is located on the central



computer. This saves a lot of expense and makes it very easy to compare the crop records of various businesses. In addition the weather report will also be received by the central computer. Hoogendoorn has signed an exclusive contract for this with Meteo Consult. With a 7-day weather report the optimisation of the energy allocation can be carried out very accurately. Meteo Consult has installed its own meteo weather mast within the horticultural area in order to be able to give as a perfect weather report.



All in all the Bergerden Horticultural cluster is a real breeding ground for developments in the glasshouse horticulture sector!

HOOGENDOORN AUTOMATION (UK) Ltd

HOOGENDOORN
AUTOMATION

Sussex Business Village - Lake Lane - Barnham, Bognor Regis - West Sussex PO22 0AL
T: +44 (0)1243 555 501 - F: +44 (0)1243 555 505
E: salesuk@hoogendoorn-automation.com - I: www.hoogendoorn-automation.com