



ENERGY MANAGEMENT PTY LTD

BERWICK SPEEDY SEEDLINGS

Berwick Speedy Seedlings are an award-winning industry leader in large scale production of seedlings, supplying Australian farmers nationwide. In an exciting advance for their business, they have recently relocated to a newly purpose built, modern horticulture facility in Tynong, 66km south-east from Melbourne.

13 SPEEDY SEEDLING SA 198

OVERVIEW

SEDAC Energy Management were approached to provide a turnkey solution for the new purpose-built propagation facility which spans over approximately 13,500 square metres.

Previously, the hot houses were manually controlled by the team members on site. This was inefficient with no consistency in the regulation of temperature, humidity and the amount of water used. The control philosophy will be expanded to future hot houses on completion of this first phase.

The building is made up of 8 sections, with each section being further split in to 4. This allows for accurate growing conditions for the different plant species. The system is fully automatic, with manual override capability when required. The monitoring of external temperature, humidity and wind speed as well as the internal temperature and humidity of each section, ensures that the plants have the most favourable growing conditions.

AUTOMATION



Horizontal Sunshades

16 sunshades used to regulate sunlight levels to avoid plant burn on seedlings.



Ventilation

Total of 144 vents, including bird netting, used to control the temperature and humidity in each section of the hot house for optimal seed propagation.



Irrigation

Covering 5 acres in total with setups both indoors and outdoors.



In-Slab Floor Heating

840kW of floor heating to assist with promotion of faster germination and stronger healthier seedlings.



Lighting

150kW of special grow lighting for increased productivity due to night growing ability.

#farmfacts

In 2019-20 Australian horticulture (excluding wine grapes) had a gross value of \$12.16 billion, ranked third behind the meat and grain industries.

Source: ABARES Agricultural commodities: June Quarter 2021 - Statistics

800kW of solar produces enough power to run the entire property during the day.

ENERGY MONITORING

1,600 Amps/Phase
Incoming Mains

800kW Solar

25 Switchboards

Pump Station

3,360m³ Cool/Steam/Hot Rooms

5,000m² Chemical Shed

6,000m² Boiler Shed



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www.sedacenergymanagement.com.au