

CASE STUDY

H2E Co-Generation Power Station

Power Station

The co-generation power station is an integral link, bringing together several sustainability initiatives through waste recycling, compost generation as well as carbon neutral power.

The biomass power station produced its first power in June 2018, with ongoing commissioning and upgrade works continuing until December 2019.

Almond hull waste from production is transported to the station and burnt at high temperature, producing 3.3MWe of power. A bag filter captures and removes the high levels of fine ash produced from the combustion of almond hulls.

The power station has also created further employment opportunities at Select Harvests for the local community, with additional roles dedicated to the operation of this facility.

Waste Recycling

Waste skins and organic matter from the Parboil facility are recovered and provide additional organic matter for compost production. This avoids up to 300tpa of organic matter being sent to landfill.

Composting

The waste ash generated by the co-generation plant is used, along with waste skins and other organic matter, to create compost to recycle and return potassium to the Select Harvests orchards. The production of our own high potassium ash gives Select Harvests a strong competitive advantage over other compost producers as well as the ability to produce at a cost significantly below that of the market. This allows greater areas of Select Harvests orchards to be serviced, with reduction in external fertigation and improved soil quality across a larger area.

Electricity

The Carina West Processing Facility is linked to the local grid, allowing export of excess power and import of power if the power station is offline. This allows Select Harvests to provide low carbon energy to the main grid.



Dan Wilson
COGEN, CARINA WEST

“The filter removes all emissions visibility from the ground. It’s a very clean process.”

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