

## ACCIONA – KWINANA WASTE TO ENERGY BOP PIPING

<b>Client</b>	ACCIONA
<b>Project</b>	Kwinana Waste to Energy (KWtE)
<b>Location</b>	Kwinana, WA
<b>SIMPEC Contract</b>	Balance of Plant (BOP) Piping Installation
<b>Value of Contract</b>	\$9.5 Million (Forecast)
<b>Duration</b>	25 Weeks
<b>Commencement date</b>	June 2021
<b>Completion</b>	Forecast December 2021



### Project Overview

The Waste-to-Energy project is located in Kwinana, Western Australia. Waste to Energy is an alternative, renewable energy which will deliver an enhanced and sustainable quality of life for all. By integrating the disposal of waste with the generation of energy, waste to energy plants provide an integrated solution to two of societies greatest challenges: waste disposal and energy supply, with a net reduction in greenhouse gas emissions relative to current landfill practices and fossil fuel generation.

The plant will be able to process 400,000t of waste per year and produce approximately 36MW of baseload power for export to the grid. The plant consists of two gas fired incinerator lines which are designed, fabricated, and supplied by Keppel Seghers. The bottom ashes are being separated in the ash handling area which includes multiple chutes, conveyors, and other components.

### Client Overview

ACCIONA is building the first Waste to Energy plant in Australia and the first in Western Australia, 40 km south of Perth. Kwinana, with a total surface area of 3.5 hectares, will process up to 400,000 tons of waste per year and will have a production capacity of 36 MW, equivalent to the consumption of 50,000 homes.

The Waste to Energy plant project was developed by Phoenix Energy and Macquarie Capital. The entire process will involve the creation of up to 800 jobs during construction work, as well as some 60 new permanent jobs for future operation and maintenance.

This contract is part of ACCIONA's long-term commitment to Australia with projects based on cutting-edge technologies that contribute to sustainability and environmental protection

### The Scope of Work

This lump sum package involves the installation of the piping systems and related equipment for the balance of plant (i.e., all areas other than the boilers. The scope includes provision of all supervision, labour, materials, plant, and equipment to complete the works.

The piping works included in this package are located in the following geographical areas of the plant:

- Part 1 - AREA 01 – RECEPTION HALL – IDOM PACKAGE
- Part 2 - AREA 02 – REFUSE BUNKER – IDOM & KEPPEL SEGHERS PACKAGE
- Part 5 - AREA 04 – APC AREA – IDOM, KEPPEL SEGHERS & GE PACKAGE
- Part 6 - AREA 04 – APC AREA – SKODA PACKAGE
- Part 7 - AREA 05 – UTILITIES AREA – IDOM & KEPPEL SEGHERS PACKAGE
- Part 8 - AREA 05 – UTILITIES AREA – SPG AIR COOLED CONDENSATE PACKAGE

SIMPEC's scope includes installation, fit-up, welding and flange management of all small and large bore piping including installation of pipe supports, valves and other in-line items.

### Key Facts

- Installation of circa 14,000 meters of piping spools
- Planned peak manning of 75 direct labour and 15 Staff
- Complex and diverse Project given the simultaneous operations involved with other contractors