



Operations

Muradel has domesticated several highly salt tolerant strains of indigenous microalgae which can be cultivated in seawater, brine from desalination, or salty groundwater.

Propagation occurs in large, shallow ponds, with microalgae growth capturing carbon dioxide recycled from the Muradel plant and, in the future, intercepted from the emissions of neighbouring heavy industry.

Harvested microalgae and other carbonaceous materials, such as plant matter and biosolids, provide the feedstocks for conversion to green crude oil using hydrothermal liquefaction. The harvesting and conversion processes produce next to no waste as Muradel recycles water, nutrients and carbon dioxide back into the microalgae production ponds – a closed-loop recycling system.

The **Muradel Demonstration Plant** is located in Whyalla, South Australia, on the north-western coast of Spencer Gulf. Whyalla is ideally suited to microalgae production and green manufacturing, offering:

- A stable, sunny and warm climate
- Flat, readily available non-arable land
- Abundant seawater
- Established transport infrastructure

Staffed by experienced and technically trained operators, the Muradel Demonstration Plant is on Council-leased land and accommodates commercial scale components that allow continuous, sustainable production of green crude.

Test ponds are available for third party small scale testing, harvesting and processing of various algae strains.



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