

## THE FIRST CARBON-NEUTRAL TREATED-WOOD PRODUCT IN AUSTRALIA



“We are the only company in Australia that offers a ‘cradle to grave’ scenario whereby we can take our product back at the end of its life and recycle it to extract energy whilst producing a by-product that is biochar. This can then become a carbon sink for the next thousand years.”

- Stephen Telford, Managing Director, Roundwood Solutions

### CHALLENGES

In 2019, Roundwood Solutions set an ambitious goal: to produce the first carbon-neutral treated wood product in Australia.

### OUR SOLUTION

In 2020, Ecoremedy® shipped a first-of-it's-kind biomass boiler to South Australia that replaced the existing fossil fuel-based system.

Later that year, Roundwood completed numerous sustainability initiatives to become certified as carbon-neutral and was a finalist at the South Australian Climate Leaders Awards.

### SUMMARY

When Roundwood delivers new poles to customers, the used poles are returned to their manufacturing facility.

There, the wood waste is delivered to Ecoremedy's biomass boiler, which supplies 100% of the steam needed for pressure-treatment of new poles.

Instead of reducing the wood waste to ash, it is converted to carbon-rich biochar.

Water is reclaimed by running the condensed steam through biochar, a natural carbon filter. The biochar can also be returned to the soil to sequester carbon and act as a natural sponge to reduce usage of irrigation water.

### ECOREMEDY IMPACT

This Ecoremedy project has the annual capacity to convert 16,000 tons of wood waste to:

- 3.4 MWt (equivalent to 11,600 lbs/hr) per hour of process steam for lumber pressure treatment vessels, replacing 360,000 gallons of diesel fuel oil
- 2,500 metric tonnes of biochar