

# Revolutionising Waste Management for a Greener Australia



Converting Australia's Waste into Sustainable Power and Recycled Products

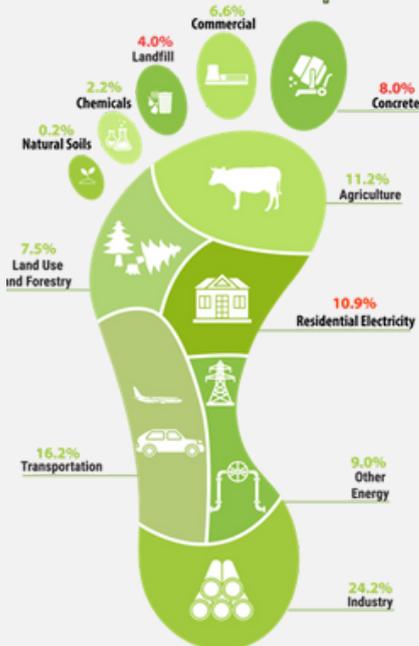
From landfill burden to continuous energy.

**WtP Au commitment:**  
 ↓ Emissions, ↑ Energy  
 from 75% of unrecyclable household waste<sup>§</sup>



**From waste to watts, to a zero-carbon future**

## Global Carbon Footprint



Waste to Power Australia (WtP Au) is developing a world-leading Waste-to-Energy (WtE) and Carbon Capture, Storage & Utilisation (CCSU) facility designed to transform how Australian cities manage waste, generate energy, and reduce emissions.

Did you know the average Australian **contributes** to 14.4 tonnes of CO<sub>2</sub> emissions compared with High Income countries at 9.79 tonnes? Over the years. Australians have contributed to over 1100 landfills of waste. Australians generate about **540 kg of household-specific waste** annually to landfills; and impact the ground water. The project will process 500 tonnes of waste per day (167,000 tonnes per year), converting more than 75% of unrecyclable municipal solid waste into green continuous electricity and carbon-negative recycled construction materials\*\*.

WtP Au offer solutions that capture, store, and reuse carbon so businesses can reduce their environmental carbon footprint.



<sup>§</sup>Global Carbon data based on various sources (2024) OurWorldinData.org/co2-and-greenhouse-gas-emissions

\*\*Based on the availability of appropriate mineral sources

# Clean Energy, Clear Future: The Waste to Power Promise

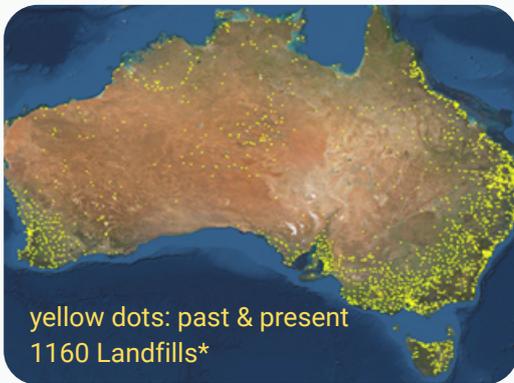
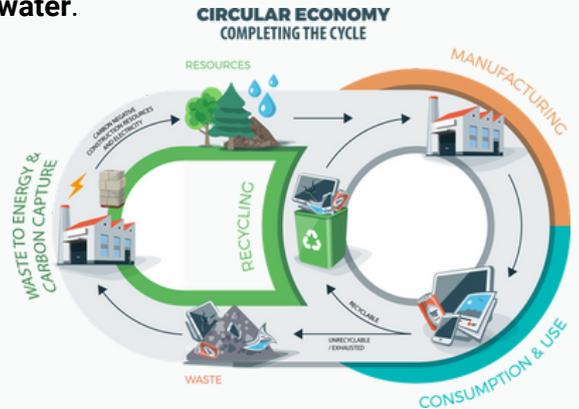
## KEY OUTCOMES

- **Green, reliable electricity:** ~180,000 MWh of sustainable continuous power annually, to **power** 28,500 homes.
- **Carbon-negative products:** Over 265,000 tonnes of recycled construction materials produced each year.
- **Major emissions reduction:** Up to 3.5 million tonnes of CO<sub>2</sub>-e avoided annually compared to landfill.
- **Ultra-clean operations:** Flue gas emissions far exceed international environmental standards.
- **Clean water:** Wastewater is treated and converted into **fresh water**.

## COMPLETING THE CIRCULAR ECONOMY

The facility<sup>§</sup> closes the loop on waste by:

- Diverting more than 75% of MSW from landfill.
- Converting exhausted, unrecyclable waste into valuable carbon-negative materials.
- Generating net-zero renewable electricity.
- Permanently capturing and storing carbon emissions.



## ALIGNMENT WITH AUSTRALIA'S ENVIRONMENTAL GOALS\*\*\*

The project accelerates progress toward national targets, including:

- 50% emissions reduction by 2030 (from 2005 levels).
- Net-zero emissions by 2050.
- Reduce landfill reliance and convert 75% MSW up to 100% by 2030<sup>§</sup>

## TECHNOLOGY LEADERSHIP

- **Waste to Energy:** Advanced Chinese, Danish and German technology refined for the cleanest emissions and lowest environmental impact.
- **Carbon Capture:** Integrated CCSU technology from a leading U.S. provider, enabling permanent CO<sub>2</sub> storage and carbon-negative product creation.

## ENVIRONMENTAL & SOCIAL BENEFITS

### Environmental

- Eliminates methane-producing landfill waste not just CO<sub>2</sub>
- Reduces emissions from landfill, concrete production, and residential electricity.
- Reduce impact on ground water
- Produces clean water and carbon-negative materials.

### Social

- Creates hundreds of jobs for the long-term<sup>§</sup>.
- Cleans up communities and reduces environmental health risks.
- Supports a healthier, more sustainable urban environment.

## ECONOMIC STRENGTH & INVESTMENT STABILITY

- **Promotes diversified revenue streams<sup>§</sup>:** electricity, waste processing fees, carbon-negative products, and CCSU-related value.
- **Long-term stability:** 30+ year plant lifespan with reliable baseload output.
- **Best-in-class technology<sup>§</sup>:** backed by global leaders in WtE and CCSU.

\*\*\*<https://www.climatecouncil.org.au/resources/climate-targets-in-australia-fact-sheet/>

<sup>§</sup> information available upon request from WtP Australia management



Contact: Kenoll Wilson  
Waste to Power Australia Pty Ltd  
27/101 Collins Street Melbourne 3000  
61 3 9221 6132  
[www.wastetopoweraustralia.com.au](http://www.wastetopoweraustralia.com.au)

