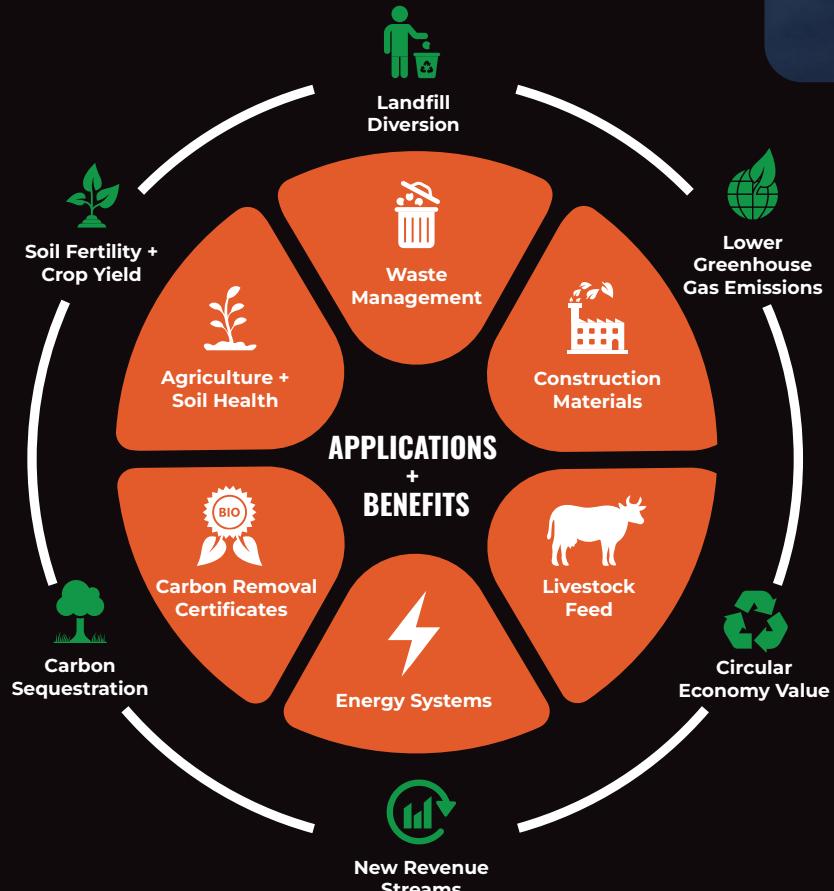


# BIOCHAR

GOOD FOR THE PLANET.  
GOOD FOR PEOPLE.  
GOOD FOR BUSINESS.

Carbon or nutrient-rich biochar is made by carbonising biomass or biosolids in a low oxygen environment. The precisely controlled process conditions maximise carbon sequestration and nutrient availability.



## THE BIOCHAR OPPORTUNITY

Pyrocal under the Terix Biochar brand has developed value-added biochar products for multiple applications.



## CERTIFIED CARBON REMOVAL AT SCALE

Pyrocal generates carbon credits called Carbon Removal Certificates (CORCS) under the Puro.earth standard at our own facility for revenue and sustainability.

We support:

- Project registration
- Lifecycle assessments
- Data tracking and audits

## BIOCHAR APPLICATIONS & WHY BIOCHAR MATTERS



## THE BIOSOLIDS CARBONISATION BUSINESS CASE: WASTE TO VALUE

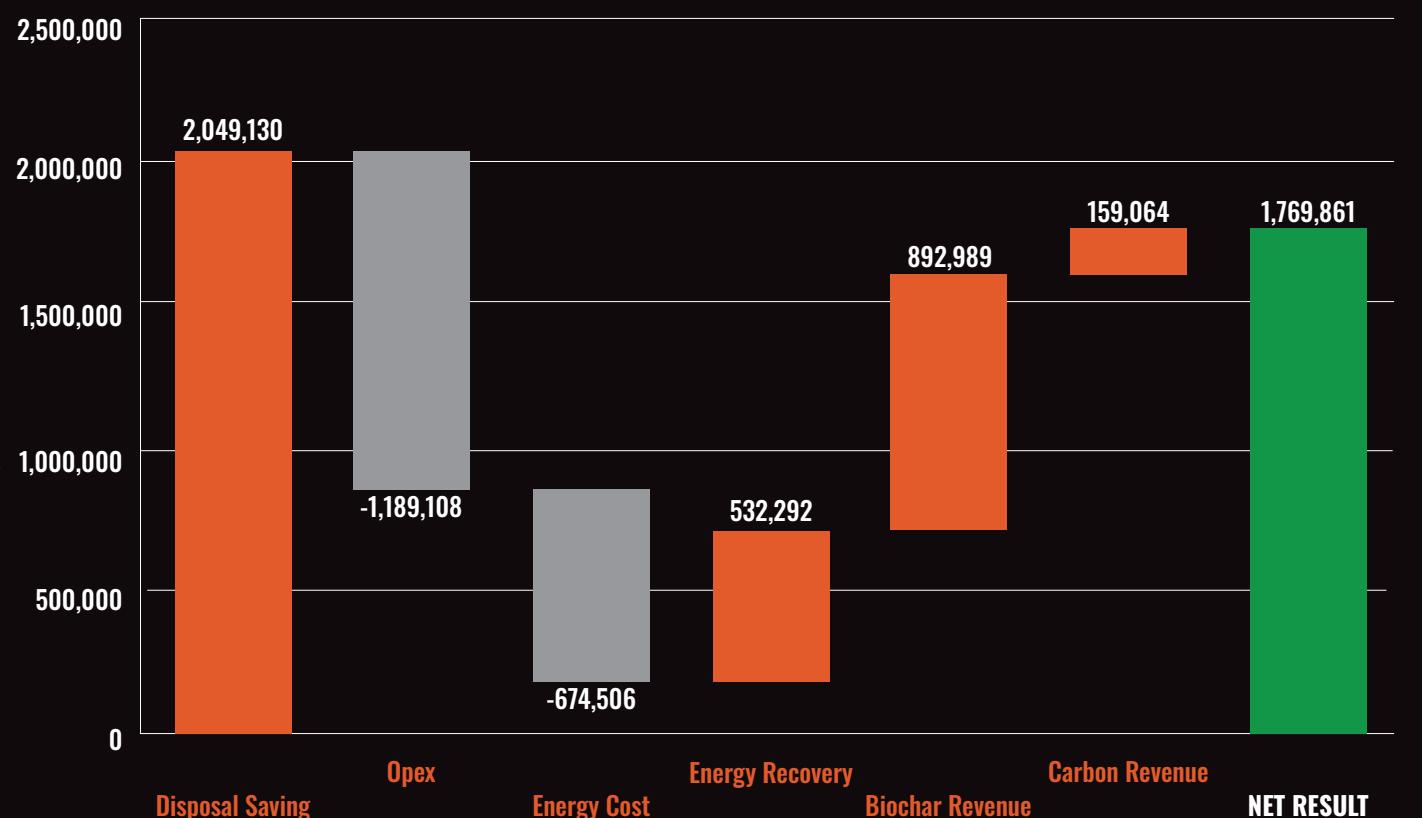
Run a single CCT20 for 7,000 hours a year and you could unlock:

- \$2.05M in disposal savings
- \$532K from energy recovery
- \$893K in biochar revenue
- \$159K in carbon credits

Even after operating and energy costs, that's a net gain of \$1.77M annually!

Assumptions:

Disposal cost: \$100/tonne | Energy: \$12/GJ | Biochar price: \$400/tonne



# PYROCAL

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# PYROCAL

CARBON REMOVAL. DELIVERED.

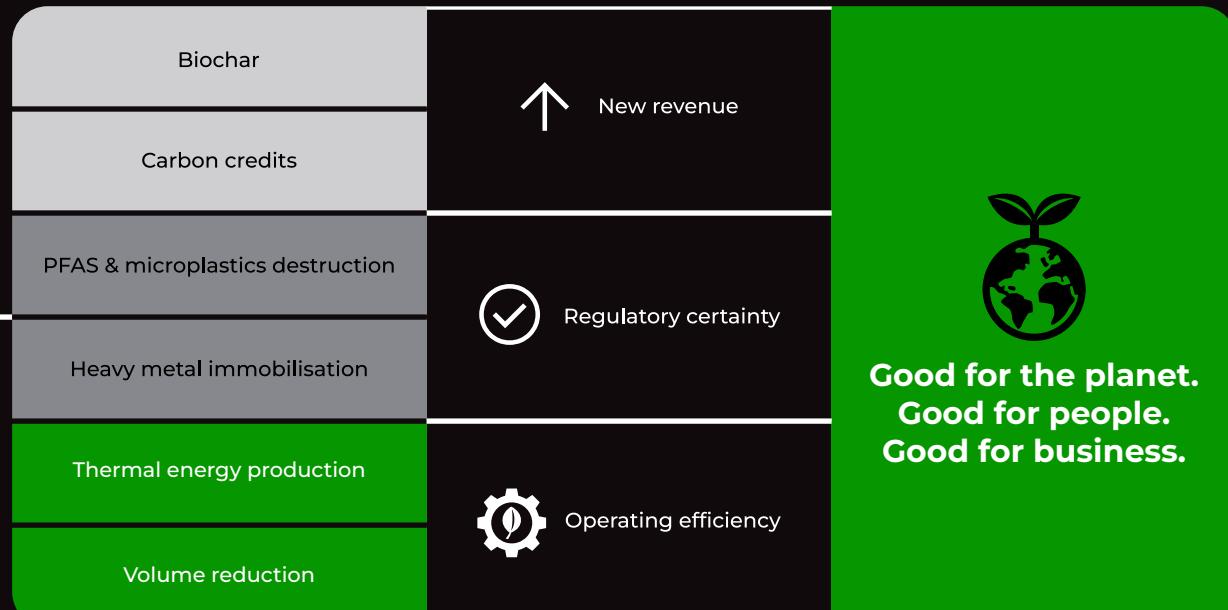
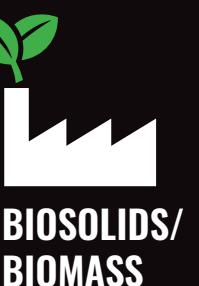
INNOVATIVE CARBONISATION TECHNOLOGY  
LEADING THE CARBON-FREE FUTURE



# ABOUT US

Pyrocal is an Australian-based carbonisation technology company delivering scalable, proven systems that convert feedstocks into biochar and renewable energy.

With over a decade of experience in carbon-smart solutions, our expert team adds value at every stage, from project scoping to commissioning, ensuring each system is tailored to meet our clients' performance and sustainability goals.



## ADVANCED, SCALABLE SOLUTIONS

Our easy-to-integrate system thermally treats biomass and biosolids in a low oxygen environment. Heat is recovered, emissions are controlled, and carbon is locked in biochar.



### SYSTEM MODEL 1: BIOSOLIDS

- ✓ Deep technical expertise in carbonisation
- ✓ Trusted by utilities and councils
- ✓ Commercially deployed technology
- ✓ Carbon credits & circular economy outcomes

	CCT12	CCT20
<b>Rated Capacity</b>	200 kg/h	600 kg/h
<b>Capacity Range</b>	80–115%	80–115%
<b>Max. Heat Recovery</b>	480kW <sub>th</sub>	1440kW <sub>th</sub>
<b>Annual Hours</b>	7,000 hrs	7,000 hrs
<b>Power Consumption</b>	15–30 kW <sub>el</sub>	40–60 kW <sub>el</sub>
<b>Labour</b>	<0.5 FTE	<0.5 FTE
<b>Footprint</b>	w 4m x l 15m x h 5m	w 14m x l 32m x h 9m

Performance dependent on feedstock properties

### SYSTEM MODEL 2: BIOMASS

	CCT12	CCT20
<b>Rated Capacity</b>	250 kg/h	650 kg/h
<b>Capacity Range</b>	80–115%	80–115%
<b>Max. Heat Recovery</b>	600 kW <sub>th</sub>	1560 kW <sub>th</sub>
<b>Annual Hours</b>	8,000 hrs	8,000 hrs
<b>Power Consumption</b>	15–30 kW <sub>el</sub>	40–60 kW <sub>el</sub>
<b>Labour</b>	<0.5 FTE	<0.5 FTE
<b>Footprint</b>	w 4m x l 15m x H 5m	w 14m x l 32m x H 9m

Performance dependent on feedstock properties

### LOGANHOLME CASE STUDY:

## FROM WASTE PROBLEM TO CARBON SOLUTION

### THE WASTE ISSUE

- 34,000 tonnes of biosolids processed annually
- \$1.8 million transport and disposal costs annually
- Environmental impacts of trucking and land application



### BENEFITS:

- ✓ PFAS reduction
- ✓ Class-leading heat recovery
- ✓ Emissions control system meets stringent regulations
- ✓ Carbon sequestered
- ✓ Biochar revenue stream
- ✓ Volume reduction

### THE OUTCOMES

- ✓ \$1M annual cost savings
- ✓ 6,000-tonne CO<sub>2</sub> emissions reduction
- ✓ Carbon offsets and revenue
- ✓ Energy recovered to dry biosolids
- ✓ Award-winning Australian-first project
- ✓ New biochar product and revenue