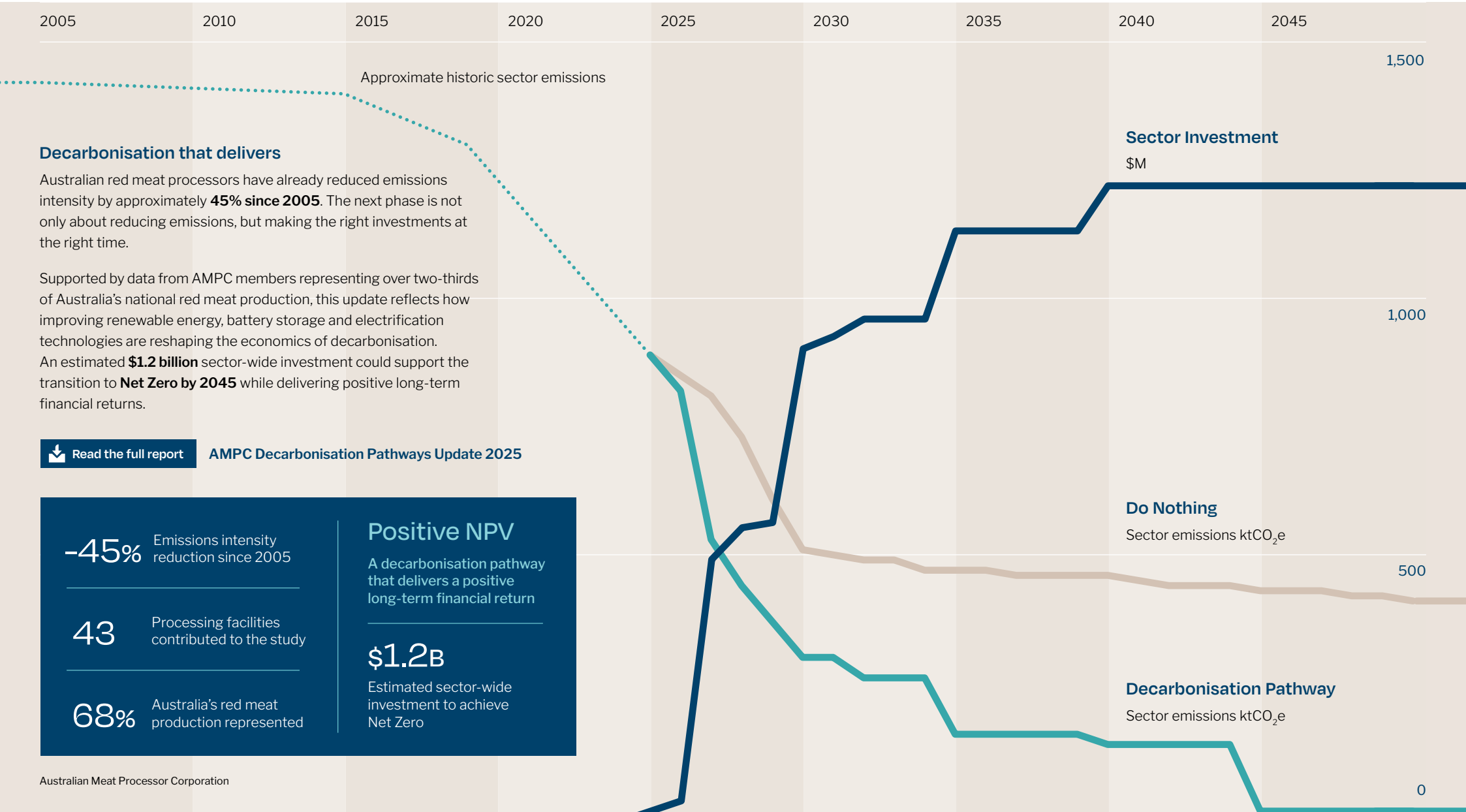
# Reducing emissions doesn't mean sacrificing profitability

As energy markets, policy and supply chain expectations evolve, AMPC's Decarbonisation Pathway gives processors a practical framework to compare opportunities, weigh trade-offs and plan with confidence and delivers a positive long-term financial return

AMPC
AUSTRALIAN MEAT PROCESSOR CORPORATION

## Whole sector emissions and investment over time




## Decarbonisation that delivers

Australian red meat processors have already reduced emissions intensity by approximately **45% since 2005**. The next phase is not only about reducing emissions, but making the right investments at the right time.

Supported by data from AMPC members representing over two-thirds of Australia's national red meat production, this update reflects how improving renewable energy, battery storage and electrification technologies are reshaping the economics of decarbonisation. An estimated **$1.2 billion** sector-wide investment could support the transition to **Net Zero by 2045** while delivering positive long-term financial returns.

Read the full report **AMPC Decarbonisation Pathways Update 2025**

**-45%** Emissions intensity reduction since 2005

**43** Processing facilities contributed to the study

**68%** Australia's red meat production represented

### Positive NPV

A decarbonisation pathway that delivers a positive long-term financial return

**$1.2B** Estimated sector-wide investment to achieve Net Zero

# Illustrative decarbonisation pathway example

Based on EPR2024 data, these representative site scenarios show how technologies may be sequenced by facility size, rendering type and energy use. They are a strategic guide only. Actual costs, timing and emissions reductions will vary by site.

## Large site

### With continuous wet rendering

MANDATORY CLIMATE DISCLOSURE — GROUP 1

### Assumptions

Read the full report ↗

| HSCW per year | EPR respondents | Rendered product | Boiler |
|---|---|---|---|
| > 75 kt | 26% | 20 – 50 kt | ~10 MW |

## Energy efficiency

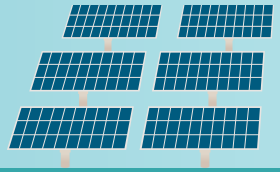
2026 – 2031

**$3M** — **11%** $CO_2$ Reduction

- Floating discharge
- Annual boiler tuning
- Steam lagging maintenance
- Dryer insulation
- Hot water lagging maintenance
- Steriliser water reduction
- Boiler economisers
- Washdown water reduction
- Upgrade/maintain condensate return
- Install fine crusher

## Renewable electricity

2027 – 2030

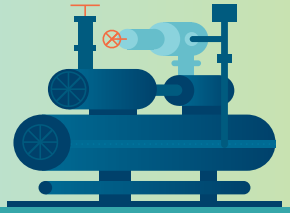


**$27.5M** — **31%** $CO_2$ Reduction

- Rooftop solar — READ MORE ↗
- Ground-mount solar — READ MORE ↗
- Front-of-meter/vpp battery — READ MORE ↗

## Thermal fuel switching

2032 – 2040



**$9.6M** — **25%** $CO_2$ Reduction

- Heat pump — READ MORE ↗
- Biogas generators & boilers — READ MORE ↗
- E-boiler — READ MORE ↗

## Purchase offsets

2041 – 2045

**$203k per year** — **6%** $CO_2$ Reduction

- Purchase offsets

### Investment and impact

**$7M**
Total savings

**$39.3M**
Total investment

**2045**
Net Zero

**6.2 years**
Payback

# Illustrative decarbonisation pathway example

## Medium site

With batch dry rendering

MANDATORY CLIMATE DISCLOSURE — GROUP 2

### Assumptions

Read the full report ↗

| HSCW per year | EPR respondents | Rendered product | Boiler |
|---|---|---|---|
| 25 – 75 kt | 44% | 6 – 40 kt | ~6 MW |

## Energy efficiency

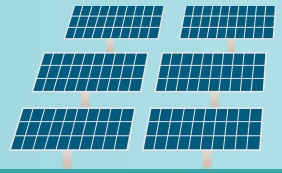
2026 – 2029

**$1.4M** — **14%** $CO_2$ Reduction

- Floating discharge
- Steam lagging maintenance
- Annual boiler tuning
- Dryer insulation
- Hot water lagging maintenance
- Boiler economisers
- Steriliser water reduction
- Upgrade/maintain condensate return
- Washdown water reduction
- Install fine crusher

## Renewable electricity

2027 – 2030

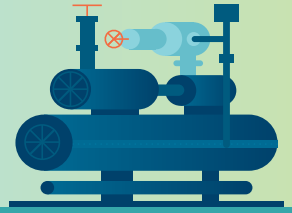


**$10M** — **33%** $CO_2$ Reduction

- Rooftop solar — READ MORE ↗
- Ground-mount solar — READ MORE ↗
- Front-of-meter/vpp battery — READ MORE ↗

## Thermal fuel switching

2032 – 2040



**$5M** — **25%** $CO_2$ Reduction

- Heat pump — READ MORE ↗
- Biogas generators & boilers — READ MORE ↗
- E-boiler — READ MORE ↗

## Purchase offsets

2041 – 2045

**$159k per year** — **11%** $CO_2$ Reduction

- Purchase offsets

### Investment and impact

**$2.9M**
Total savings

**$16.4M**
Total investment

**2045**
Net Zero

**5.7 years**
Payback

# Illustrative decarbonisation pathway example

## Medium site

Without rendering

MANDATORY CLIMATE DISCLOSURE — GROUP 2-3

### Assumptions

Read the full report

| HSCW per year | EPR respondents | Boiler |
|---|---|---|
| 25 – 75 kt | 7% | ~3 MW |

## Energy efficiency

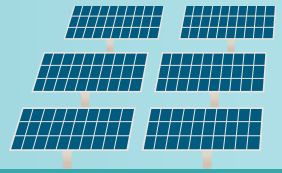
2026 – 2029

**$534k** — 12% $CO_2$ Reduction

- Floating discharge
- Annual boiler tuning
- Hot water lagging maintenance
- Steriliser water reduction
- Washdown water reduction

## Renewable electricity

2027 – 2030

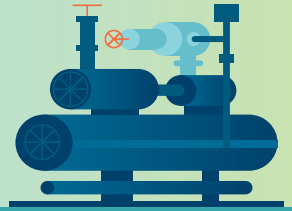


**$2.85M** — 27% $CO_2$ Reduction

- Rooftop solar — READ MORE
- Ground-mount solar — READ MORE
- Front-of-meter/vpp battery — READ MORE

## Thermal fuel switching

2032 – 2040



**$1.3M** — 15% $CO_2$ Reduction

- Heat pump — READ MORE

## Purchase offsets

2041 – 2045

**$116k per year** — 14% $CO_2$ Reduction

- Purchase offsets

### Investment and impact

**$1.3M**
Total savings

**$7.5M**
Total investment

**2045**
Net Zero

**6.4 years**
Payback

# Illustrative decarbonisation pathway example

## Small site

Without rendering

MANDATORY CLIMATE DISCLOSURE — GROUP 3

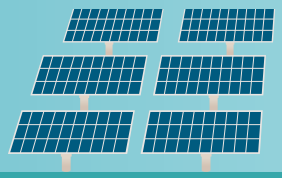
### Assumptions

Read the full report

| HSCW per year | EPR respondents | Boiler |
|---|---|---|
| < 25 kt | 23% | ~1 MW |

## Renewable electricity

2026 – 2027



**$1.2M** — **31%** $CO_2$ Reduction

- Washdown water reduction
- Steriliser water reduction
- Hot water lagging maintenance

## Energy efficiency & Battery Storage

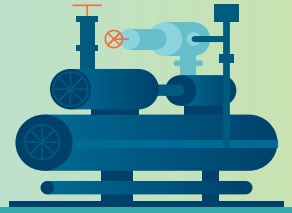
2027 – 2031

**$2.8M** — **9%** $CO_2$ Reduction

- Rooftop solar — READ MORE
- Ground-mount solar — READ MORE
- Front-of-meter/vpp battery — READ MORE

## Thermal fuel switching

2035



**$500k** — **18%** $CO_2$ Reduction

- Heat pump — READ MORE

## Purchase offsets

2035 – 2045

**$68k per year** — **8%** $CO_2$ Reduction

- Purchase offsets

### Investment and impact

**$587k**
Total savings

**$2.9M**
Total investment

**2045**
Net Zero

**6.6 years**
Payback

# The right investment at the right time

**Start measuring your energy, water and waste today.**

Contact AMPC for and advice on which technologies are right for you.

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(02) 8908 5500
ampc.com.au

## Recommendations

- Develop site-specific decarbonisation pathways.
- Increase adoption of electrification technologies.
- Expand on-site renewable energy generation.
- Investigate biogas recovery opportunities.
- Leverage available funding programs and policy mechanisms.
- Continue industry-led research, pilot projects, and knowledge sharing.
- Prepare for increasing supply chain requirements.

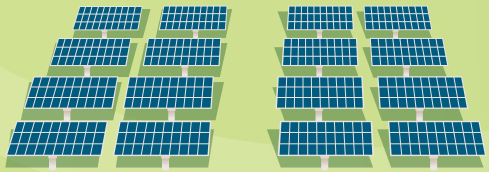
## Your next steps

### 1 Understand your baseline

Review your site's energy consumption, emissions profile, and rendering configuration. Know where your energy goes before deciding where to cut.

### 2 Start with quick wins

Energy efficiency measures deliver 15–20% reductions with paybacks under 5 years. On-site solar is half the cost of grid power. These are ready to deploy now.



### 3 Build your business case

Use the MACC framework in the report to identify your highest-value opportunities. Every site we modelled showed positive NPV.

### 4 Access available funding

Federal programs are actively funding industrial decarbonisation. State incentives add further support. Act while these windows are open.