



PARADIGM FUELS **CARBON ZERO** **COAL-FIRED POWER STATION** **MODEL**

Paradigm Fuels Patented Technology Absorbs The Following Emissions:

- Carbon dioxide
 - Carbon monoxide
 - Copper & compounds
 - Hydrochloric acid
 - Manganese & compounds
 - Oxides of Nitrogen
 - Sulfur dioxide
 - Sulfuric acid
 - Total Volatile Organic Compounds
 - Zinc and compounds
- to provide a world class ESG Score and high moral ground position

Paradigm Fuels Provides
All Power Station Stakeholders
with a **Carbon Zero,**
Sustainable **Renewable Energy**

The Power Station:

- **An AUD152m Investment Position Against Finance to Produce **6,500ML/year Renewable Diesel @ 10c/L from A Thermal Coal Operation Operating at 10.5MTonne Coal/yr****
- **To this we add a 1,800MW Power Station operating at 100% **Carbon Zero** and a**
- **Renewable Diesel Refinery**

Paradigm Fuels Provides The End User Of The Fuel with **Carbon Net Zero,** Sustainable **Renewable Energy**

Add The Agri-business:

- A further \$40m Investment Position Against Finance to Produce **1,200ML/year Renewable Diesel @ 26c/L** using an agribusiness model to provide a carbon net zero position on all Renewable Diesel Collectively Produced
- Thereby providing a total of **7,700ML's of Renewable Diesel carrying 3.2T Carbon Credit** with every Tonne of Renewable Diesel to provide the end user of the fuel with a Carbon Net Zero position as well

What Is 7,700ML's Per Year Of Carbon Net Zero Renewable Diesel

- It is **25% Of Australia's Diesel Usage** and furthermore **Net Carbon Zero**
- **And Derived from 1 Coal Mine + Agri-Business model**
- It is about 130 shipments using Panamax Freighters And worth at **Wholesale GatePrice \$11.5 Billion / year**
(inclusive of 300,000 Tonne LPG and Naphta bi-products)

Size Of Power Station That The Paradigm Fuels Model Can Support

- A reasonable estimate is 1,800MW to burn 10.5MT/yr
- Average quarterly 30-minute prices in Quarter 2 2022 ranged from \$228/MWh in Tasmania to \$344/MWh in Queensland.
(<https://www.aer.gov.au/wholesale-markets/wholesale-statistics>)
- At say \$228/MWh year average (conservative) is:
\$2.7Billion/year Revenue (Additional to the \$11B Revenue from Renewable Diesel)

The Model's Main Source Of Revenue Is In the Power Station

- There has recently being imposed **corporate restrictions on the sale of steam turbines** for coal fired power stations
- The **Zero Carbon qualification** of the Power Station Operation will appease/bypass these restrictions
- And the **Carbon Credit** attached to the Renewable Diesel Provides a **Carbon Net Zero** qualification
- That will appease/bypass restrictions if the diesel was also used by other users to achieve their **Carbon Net Zero** aspirations

Paradigm Fuel's Patented Technology Will:

- 1) Provide an accessible **Net Zero Carbon** Capability for the Coal Mining Industry**
- 2) Reduces Production Costs of the Coal Mine **Using 12c/L diesel****
- 3) Provide a **Zero Carbon** Qualification for a **coal fired power station****
- 4) Provide a **Zero Carbon** Certification to the electrical power product**
- 5) Provide **Carbon Credits** with the Diesel By-Product of Power Generation**
- 6) Provide a **Net Zero Carbon** Qualification to the **End User Of the Renewable Diesel****

Point 2: “Reduces Production Costs of the Coal Mine **Using 12c/L diesel” will**

- 1) minimise the impact of future fuel price escalation; and**
- 2) make new mining projects more viable;**
- 3) with enhanced JORC reports; and**
- 4) improve corporate balance sheets; and**
- 5) provide surety of supply (given Australia only has 20days of diesel stockpiled); and**
- 6) enable **Carbon Credit** targets;**
- 7) which will impact ESG scores; and**
- 8) financing.**

The Agribusiness Model Also Provides An Uplift In The End Product Energy For The End User

Product	Production	Energy
Coal	10.5 MT/yr	231,000 TeraJoules
Renewable Diesel	7,700 ML's /yr	268,000 TeraJoules

The Agribusiness Model Includes A \$40m Investment Position Against Finance Based On 140,000 Hectares Of Crop And Average Algae Growth Of 92mg/L/Day

Lipid Yield % weight of Algae	Renewable Diesel (ML)	Production Cost c/L	Carbon Credit Per T RDiesel	Carbon Cost Per T RDiesel	Net Carbon Benefit	% Carbon Net Zero
56%	1,730ML	22	6.2 T CC/T RD	3.2T	3.0T	195%
30%	1,340ML	25	8.1 T CC/T RD	3.2T	4.9T	255%
22%	1,060ML	29	10.0 T CC/T RD	3.2T	6.9T	315%
20%	1,010ML	30	10.5 T CC/T RD	3.2T	7.3T	330%
15%	890ML	34	11.9 T CC/T RD	3.2T	8.7T	375%

- A renewable energy product not affected by national fuel supply
- A constant fuel price not affected by economic conditions

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