



**FOCUS ON PRODUCTION OF
SUPERIOR CLEAN CARBON SOLUTIONS**

September 2023

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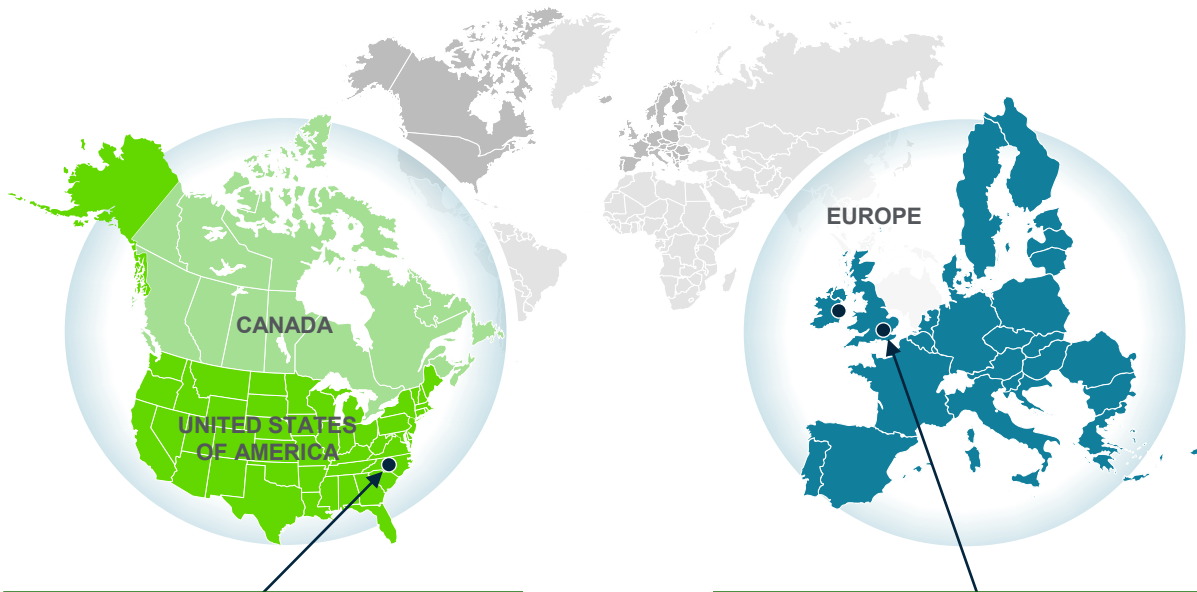
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Michael Rowan
CEO



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Core Disciplines of Active Energy



Background:

- Active Energy Group is listed on the AIM market in London (Ticker: AEG)
- Corporate offices: London, Dublin and Raleigh, USA:
- Core team has experience from:
 - Biomass industry
 - Coal industry in North America
 - Renewable industries in Europe
 - Investment banking and finance
- Focus on delivering clean carbon solutions



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**Interim results
six months ending
30th June 2023**

	June 2023 Unaudited US\$	December 2022 Audited US\$	June 2022 Unaudited US\$
Continuing operations			
Gross profit/(loss)	-	(517,238)	-
Other operating income	-	361,237	-
Impairment of assets	-	(2,000,000)	-
Administrative expenses	(1,598,916)	(2,904,311)	(1,324,274)
Operating loss	(1,598,916)	(5,060,312)	(1,324,274)
Net finance gains/(costs)	(1,097,013)	382,208	3,151,471
Taxation	-	-	-
Profit/(Loss) - continuing operations	(2,695,929)	(4,678,104)	1,827,197
Loss from discontinued operations	(1,358)	(1,203,664)	(505,938)
Profit/(loss) for the period	(2,697,287)	(5,881,768)	1,321,259

	June 2023 Unaudited US\$	December 2022 Audited US\$	June 2022 Unaudited US\$
Non-current assets	13,698,624	13,660,859	14,462,245
Current assets	2,138,556	3,520,396	5,035,224
Cash and cash equivalents	1,241,681	2,614,472	4,097,214
Trade and other receivables	896,875	905,924	938,010
Other	-	-	-
Total Assets	15,837,180	17,181,255	19,497,469
Current liabilities	1,332,949	1,213,520	964,377
Non-current liabilities	126,431	133,940	141,032
Total Liabilities	1,459,380	1,347,460	1,105,409
Net assets	14,377,800	15,833,795	18,392,060



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About CoalSwitch®

- **It is a better fuel**
 - Energy dense low carbon
 - Can be burned in existing equipment without modification
 - Enables customers to generate valuable renewable credits

- **Certified sustainable use of low value waste feedstock**
 - Beneficial re-use of waste reduces net lifecycle emissions of finished fuels
 - **CoalSwitch®** fuel meets established sustainability standards
 - Identified multiple waste resources for flexibility & scale of future production
 - Independent LifeCycle Analysis (LCA) shows 99%CO2 reduction compared to coal

- **Tested proven at scale program shows consistent burn test results**
 - **CoalSwitch®** has been tested at a utility scale with multiple blend ratios.
 - No performance or compatibility issues
 - Double digit reductions in harmful pollutants
 - More than 70% reduction in ash.

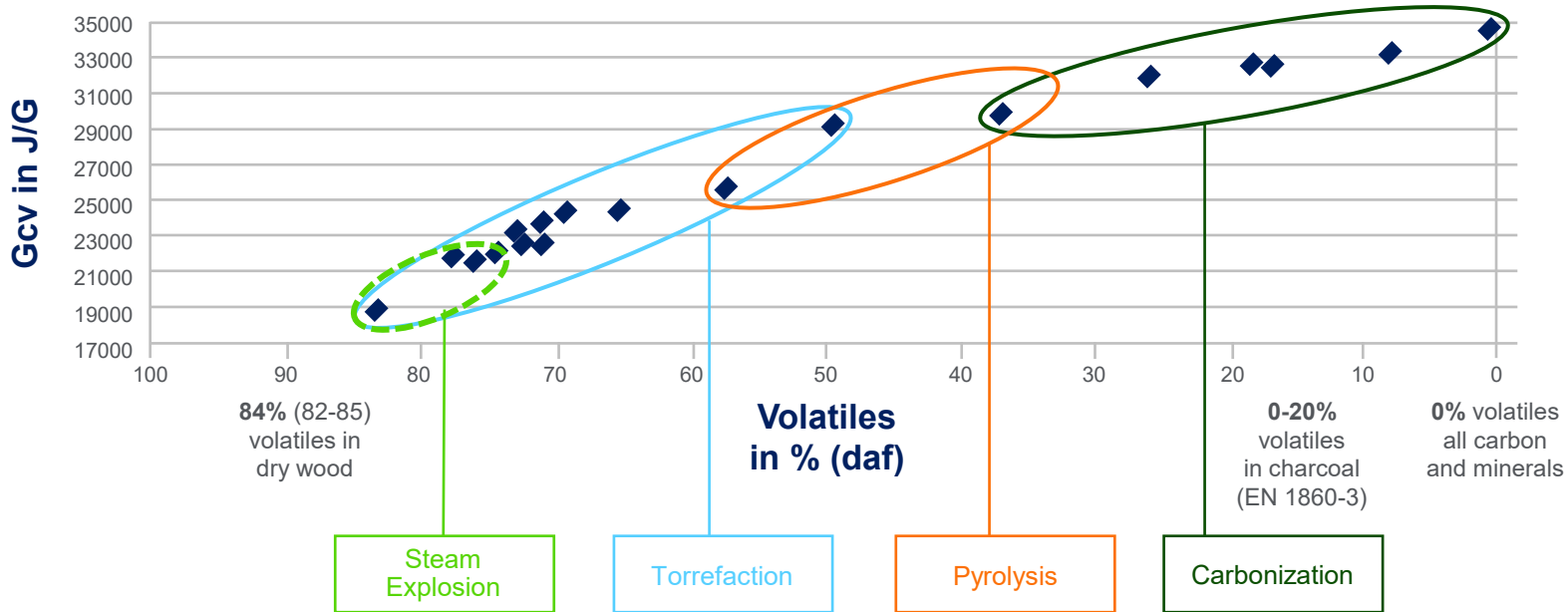


First produced in Ashland 2021



Samples March 2023
Source: Active Energy

**The first biomass derived “true replacement fuel”
that can be readily blended with coal**



- Aim is for 'coal-like' performance with reduced negative impact
- Technology will take you towards high carbonization
- Technology is flexible to meet customer needs

CoalSwitch® product line:

1.0	2.0	3.0
<ul style="list-style-type: none"> • Static vertical reactor • Steam explosion - batch process • Production = 1.5tph <p>BTU/lb = 7,800 - 10,000 Fixed Carbon Content = 25% Durability index = 96.2%</p>	<ul style="list-style-type: none"> • Non static horizontal reactor • Steam explosion larger vessel – batch process • Production up to 4-6tph <p>BTU/lb = 7,800 - 10,000 e Fixed Carbon Content = 25% e Durability index = 96.2% e</p>	<ul style="list-style-type: none"> > Single reactor torrefaction > Continuous production process > Production = 10-15tph > Pellet or solid chip <p>BTU/lb = 8,500 - 10,500 e Fixed Carbon Content up to 40+% e Durability index = 97% e</p>

Engineering Partner:

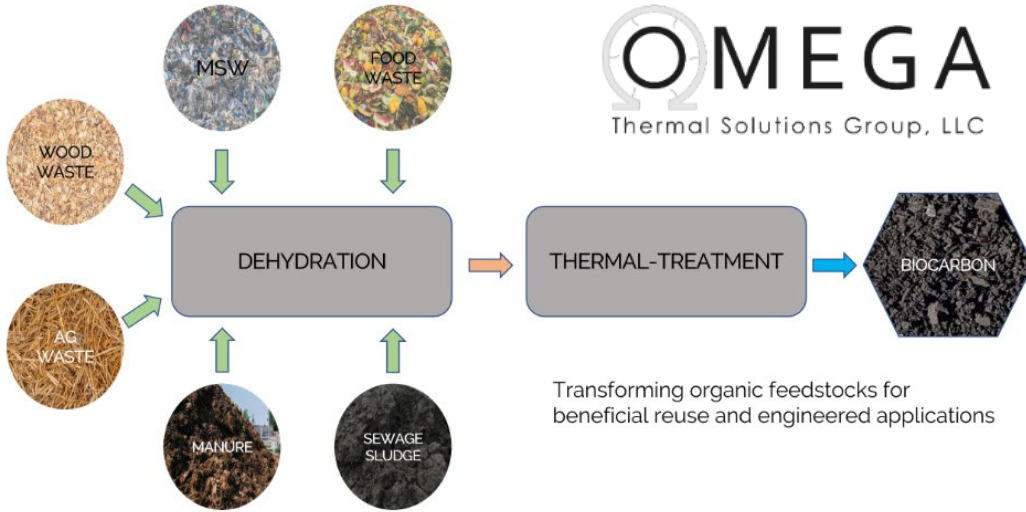


Location:



Ashland factory facility - 2023

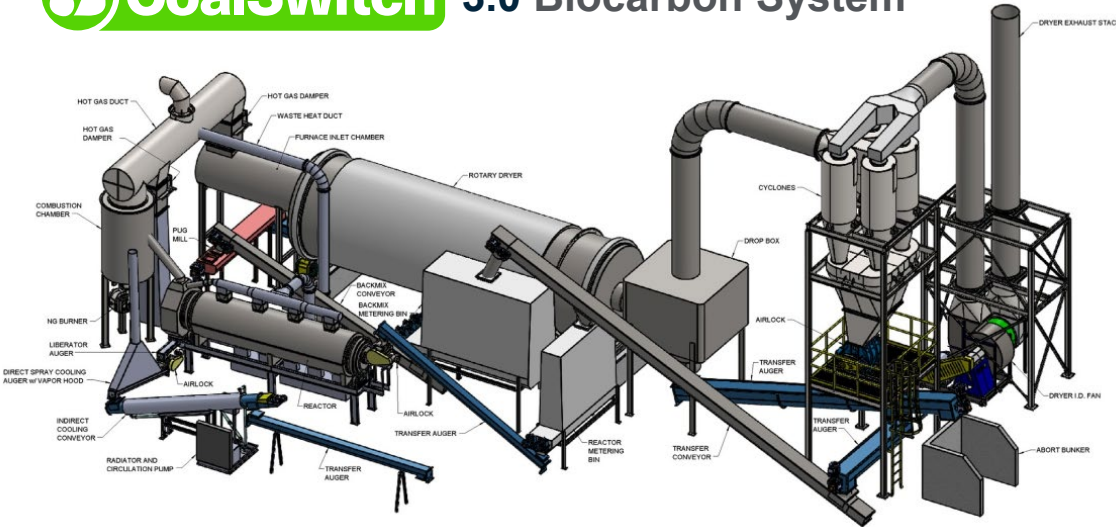
- PDI has been responsible for engineering and construction at Ashland
- 'Take or Pay' Agreement reduces capex and technology risk from Active Energy
- Latest PDI estimate to commence **CoalSwitch[®]** production – Nov 2023
- Facility purpose is to showcase technology and produce limited volumes specifically got small batch consumer testing



NEW Engineering Partner :

- Name: Omega Thermal Solutions Group LLC
- Location: Independence, Kansas
- Team: are 125 years of combined experience designing, engineering, installing, and commissioning dehydration and thermal treatment
- Proprietary reverse flow dryer
- Patented pyrolysis system to transform organic feedstocks into engineered products for **CoalSwitch®**
- AEG and OMEGA in co-operation since Q2 2023

CoalSwitch® 3.0 Biocarbon System



Railway Ties



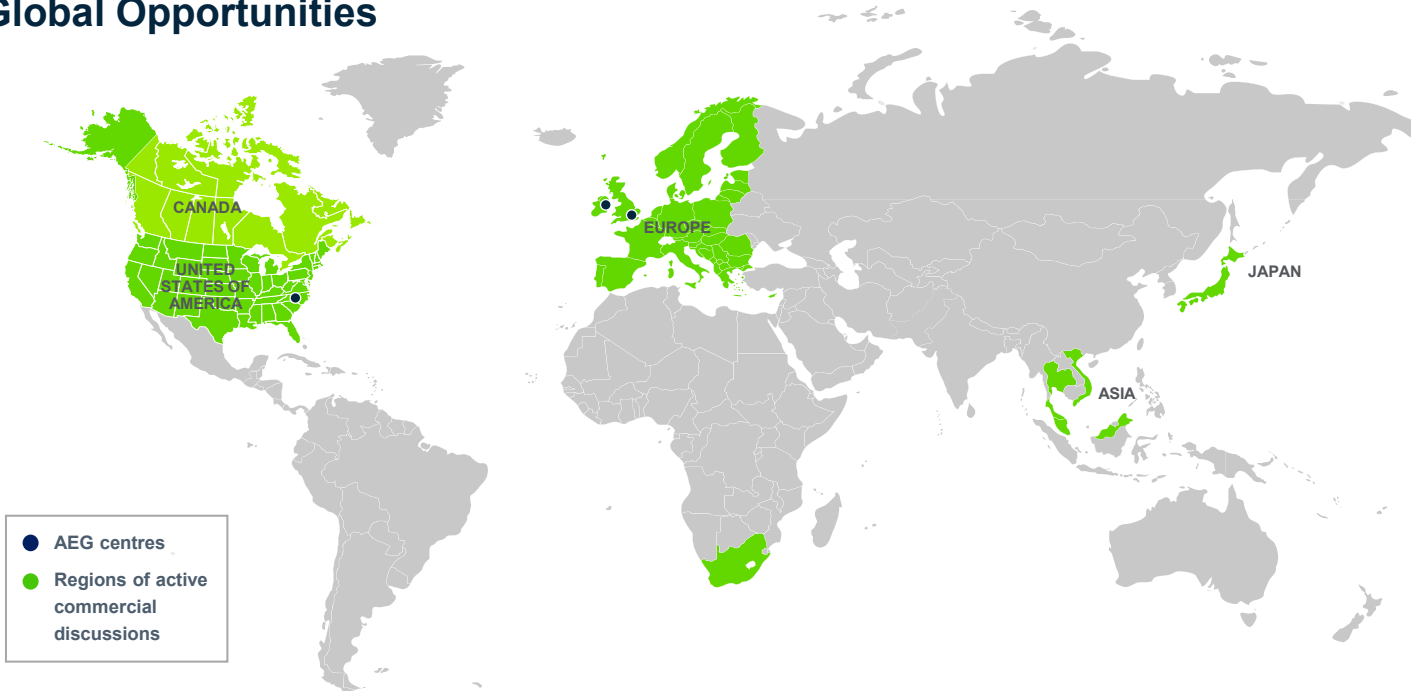
CoalSwitch® 3.0 chips

Key sector focus for last 12 months



- CoalSwitch® sales strategy has been highly focused
- In active discussions with customers who have not previously used biomass type fuels
- New prospective industrial sectors include:
 - Pulp & Paper
 - Cement
 - Silicone
- AEG has also developed an international strategy to acquire future commercial sales partners

Global Opportunities



Market Opportunity

- The market is increasingly focused toward committing to net zero and CO2 reductions.
- Need to develop market share fast to establish **CoalSwitch**® as a market standard for cleaner solutions.

Product Opportunity

- No comparable renewable fuel that burns like coal (or coal-fires with coal) and has none of the negative environmental impacts.

Corporate Opportunity

- Active Energy's rising profile leading to increasing commercial opportunities worldwide.
- New senior blue-chip management team is opening up new product and market opportunities.



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