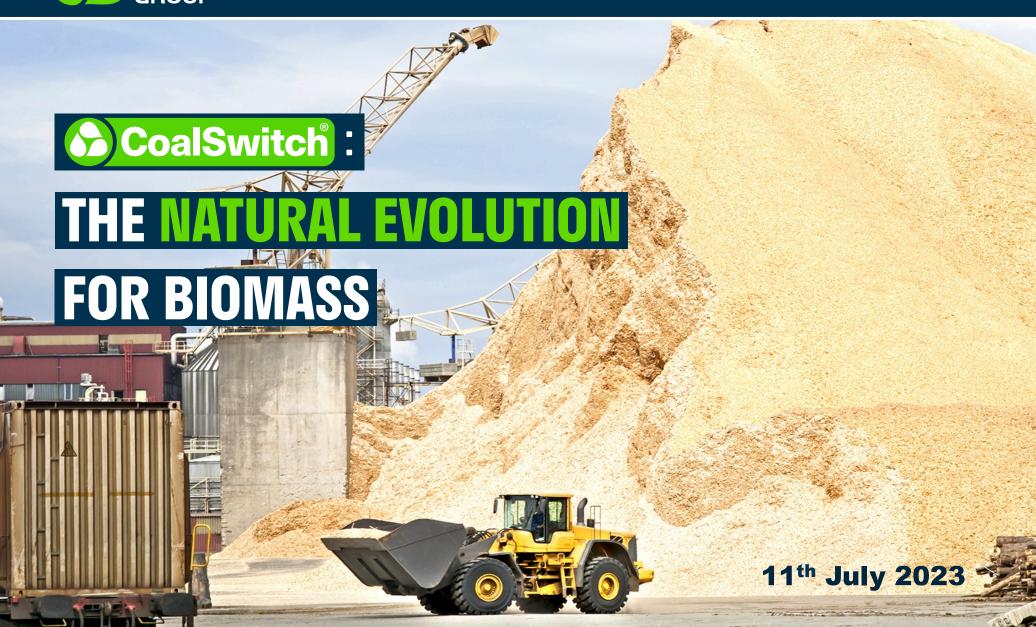


# **Active Energy – Annual General Meeting Presentation**





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**US Management** 





**UK Management** 



Michael Rowan
Chief Executive
Officer



Michelle Fagan
Chief Financial
Officer



Steve Schaar
Chief Operating
Officer



Barron Hewetson
Chief Technology
Officer



Brian Aug Head of Sales





# 2024

- Expand U.S. Operations and Joint Ventures
- Execute CoalSwitch® tertiary revenue streams
- Evolve **CoalSwitch**® pyrolysis methodologies & secure I.P.

2023

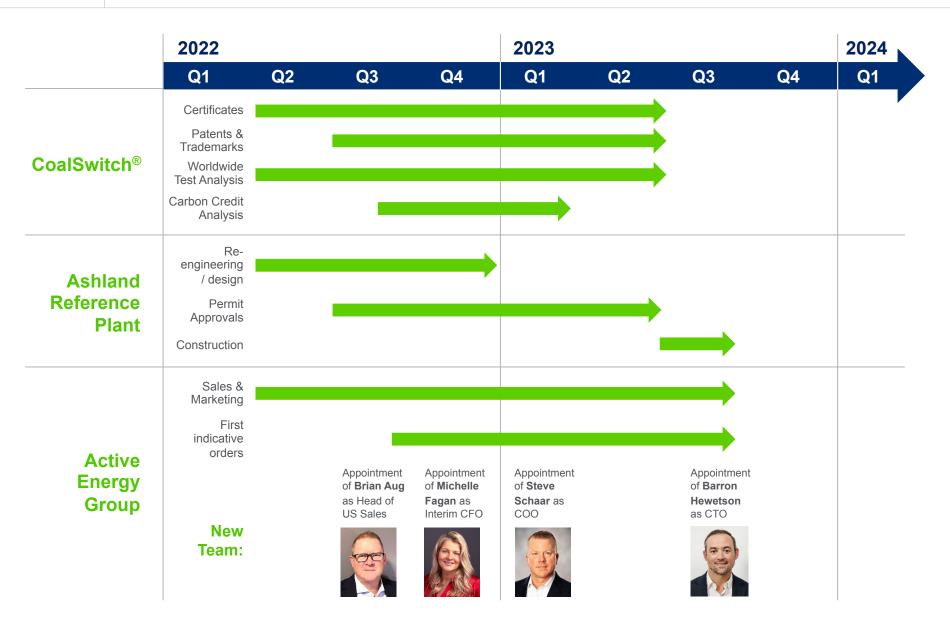
- · Ashland Reference Plant
  - Permit / Construction
- Full CoalSwitch® fuel deliveries
- Developing production technologies for CoalSwitch®

2022

- AEG commences strategic plan to differentiate from existing competition
- · AEG focuses on Sales and Marketing
- AEG partners with PDI to create technology for first production volumes









# Permit received by PDI – May 2023. Construction underway / Key components arriving on site.

### Partners:

# Ashland Owner: PLAYER DESIGN, INC. Current Operations:

# Site:





Ashland factory facility - 2022

# **Equipment:**





Ashland factory facility equipment – July 2023

### Location:



PDI confirms first production volumes scheduled for Q3 2023







- Establish CoalSwitch®
   as the international
   standard for 'black
   pellets'
- Actively in discussions on joint venture production opportunities
- Continue to develop customer-driven tailored technologies through evolution of the CoalSwitch® product and production process

Providing a superior coal replacement targeted for speciality commercial use through domestic and international partnerships





# **About CoalSwitch®**

- Fuel
- Economic Opportunity
- **Product Opportunity**



# It is a better pellet

- Higher heating value than current white pellet production
- Proven hydrophobic qualities
- Handles and burns like coal, but with 90% fewer net emissions

# Exclusive use of low value waste feedstock

- Beneficial re-use of waste reduces net lifecycle emissions of finished fuels
- CoalSwitch® pellet fuel meets established sustainability standards
- Identified multiple waste resources for flexibility & scale

# Extensive Testing Program shows consistent burn test results

- CoalSwitch® has been tested for its proprietary qualities as a biomass fuel and for its co-firing performance with coal.
- Prospective customers own testing confirms reduced emissions levels.

The first premium pellet that can be blended with coal









Samples March 2023 Source: Active Energy











Source: BYU

Source: BYLL

# **Test Parameters**

- Testing performed at a test furnace designed to mimic a utility scale pulverized coal boiler
- Successfully tested with bituminous coal at 5 different blend ratios
- No measured mill or boiler modifications necessary
- No issues with flame stability during combustion

# **Test Results**

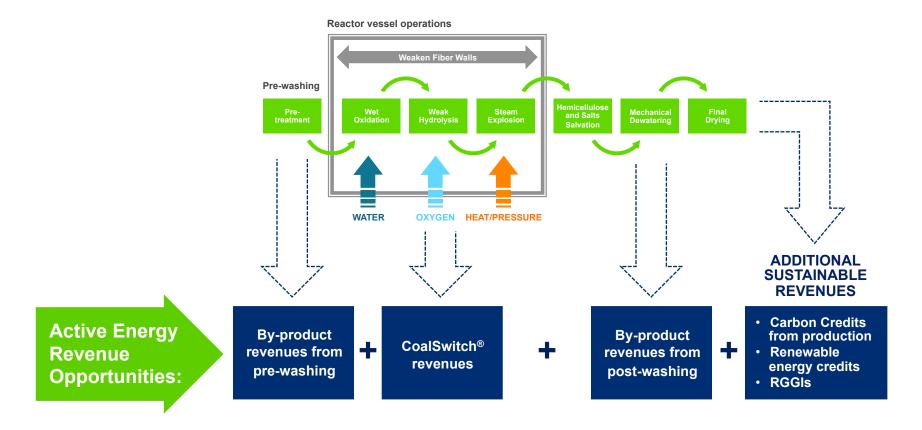
# Reduction in ash deposits the greater the ratio of CoalSwitch® used:

- Less heat transfer resistance = greater efficiency
- Less restriction of the flow of flue gas
- Less removal of ash = reduced operating cost and process downtime
- Less slagging and fouling = less damage to furnace boiler tubes





# CoalSwitch 1.0 : Indicative production process



# **CoalSwitch®** = eligibility for carbon credits and other programs

# **Compliance programs**

Renewable Portfolio Standard (RPS) Programs Compliance Carbon Programs

Voluntary Carbon Programs

Voluntary REC Programs

US States with active RPS programs and targets







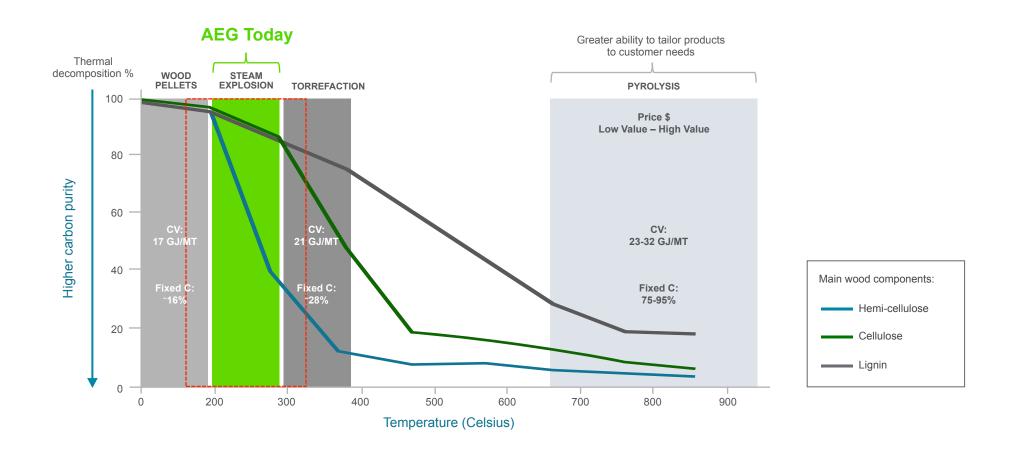




- Utilities and power providers that substitute CoalSwitch® for coal can both mees requirements for emissions reduction AND qualify for Renewable Energy Credits.
- Hard to decarbonize industries
- that substitute **CoalSwitch**® for coal can reduce emissions to meet requirements as well as reduce spending on costly offset credits on markets like the VCM or RGGI.
- CoalSwitch® can turn a pure cost (feedstock) into either a cost-neutral or profitable proposition while also achieving a customer's ESG corporate goals.

**Eligibilty for Credit Programs – Important Components** 



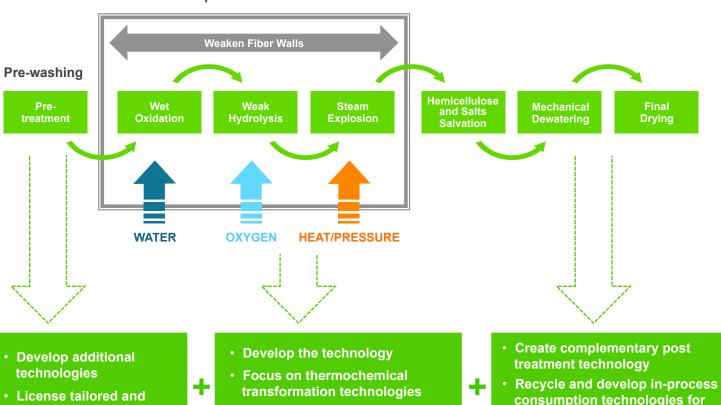


Transforming wood toward higher value fixed carbon products



# CoalSwitch 1.0

### **Reactor vessel operations**



**Active Energy** Revenue **Technologies:** 

proven systems

- Develop the production process
- consumption technologies for wasted side-stream products



- Technology Opportunity. Addition of COO and CTO accelerates need to further innovate and improve core technology to produce more fuel, more efficiently and more sustainably.
- Leverage Inflation Reduction Act. Change of regulations by U.S. government has created significant funding or grant opportunities.
- Worldwide Product Opportunity. Churn within white pellet space leading to increased interest in black pellet. We must develop market share fast to establish CoalSwitch® as a market standard.
- Corporate Opportunity. Active Energy's rising profile leading to increasing opportunities for joint venture acquisitions or other collaborations. We must be in a position to take advantage.



**Active Energy Group plc** 

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