

# Leaders in Distributed Energy

Our mission is to create a smarter energy future

# About AMP

Our mission is to create a smarter energy future.

We want to be a bold and ambitious business that fulfills and inspires.

Be honest, work hard and enjoy it are the values that bind us together.

## Some of our assets



## Our track record



**239 assets**

developed, owned and operated by AMP



**116MW of heat**

86MW of operating biomass assets + 30MW in build (biomass + eboiler)



**167MW of flex power**

operating gas peakers (across 31 sites) + 23MW in build (across 5 sites)



**£247m**

CAPEX deployed and committed to date



**187 staff**

nationwide, including over 55 engineers and 18 in project development



**1,000+**

biomass boilers under operation and maintenance



**32,000+**

tonnes of CO2/year saved by AMPIL customers last year, and 65,000 tonnes thereafter



**100,000+**

tonnes of wood fuel delivered annually, from 7 depots and 30 trucks



# Nationwide engineering coverage

55 engineers and 24 drivers across Great Britain, plus logistics and transport teams.

We invest in ongoing training and professional development to ensure our team of engineers are the best in class.



# Fuel supply

AMP which is one of the UK's largest suppliers of wood fuel to the RHI biomass boiler market.

- AMP is one of the largest suppliers of premium grade RHI compliant wood fuels in the UK
  - c.10kt of wood chip and wood pellet supplied in house
  - Market share of c.25% with a stable customer base
- Fuel is sourced from a range of high quality UK and European wood producers with AMP having long-established relationships with key market participants including AWJ, CM Biomass, Laois and Land Energy
- AMP provides two different wood fuel sources both eligible for RHI:
  - Wood pellet – meets the highest quality standard in Europe (ENplus A1 certification) and is fully accredited by the European Pellet Council and compliant with strict sustainability standards
  - Wood chip – locally sourced, seasoned and processed to reduce the risk of contamination and minimise the environmental impact; fully accredited by HETAS and recognised as a Woodsure Plus Quality Assured fuel
- The wood fuels business has grown through the acquisition of a number of regional businesses which have been integrated into a market leading platform

## UK's Leading Wood Fuel Supplier



**c.25%**  
Market Share



**100ktpa**  
Supplied



**#1**  
UK Supplier



**c.1,000**  
Customers





# Some of our customers

## Boiler Customers



## Heat & O&M Customers



## Fuel Customers



# Case Studies

## Villa Nursery

- Holistic heat and power solution to provide 100% of the energy needs of the 15 acre Villa Nursey which supplies vegetable produce to Tesco
- Comprises 5MW Biomass heat boilers and 3MW gas peaking engine
- Has allowed Villa Nursery to reduce fuel costs by c.30% (c.£0.2m p.a.)
- Biomass fuel supply (c.5.6kt p.a.) and O&M undertaken by AMP



CAPEX invested  
**£6.0m**



System  
Binder: 1650kW  
Kalvis: 999kW  
Compte R: 4,000kW

"AMP Clean Energy is a great partner for us. Knowing that our product line is produced using clean, low carbon energy gives confidence to our customers and the end-user consumer."

Felice Gibilaro, Co-owner, Villa Nursery



## Cargill International

- Heat and power solution for global commodity company at Hull site to reduce CO2 emissions from generating heat & power by 50% by 2030 and to net zero by 2050.
- Annual cost savings of £130,000
- Comprises a 12MW Biomass system to generate 15.3 tonnes of steam per hour
- Fuel supply 25,000 tonnes per annum in partnership with AWJ.
- O&M undertaken by AMP



CAPEX invested  
**£8.3m**



System  
**AgroFORST**

"Our Commitment is to be Climate, Land and People Positive by 2030 and to be the most sustainable supplier of innovative ingredients; we will help provide solutions to some of the world's biggest challenges in the coming decades. This project developed in partnership with AMP Clean Energy will deliver 7% reduction in our total Global Scope 1 emissions so is significant for us."

Cargill International





## Muntons

- Low carbon energy centre for leading malt product manufacturer Muntons at its site in Stowmarket, comprising a 14MW Biomass boiler and a gas CHP system
- Allows Muntons to meet its emissions target of a 45% reduction by 2025 (vs. 2010 levels); will facilitate decarbonisation of 100GWh of heat p.a.
- Represents one of the largest assets within the AMPIL portfolio
- O&M undertaken by AMP



CAPEX invested  
**£16.6m**



System  
**AgroFORST**

"Crucial to us hitting this target [45% emissions reduction by 2025] is installing Biomass heating at both of our UK malting sites. Working... with specialists AMP Clean Energy means we will confidently hit our ambitious decarbonisation targets and continue to deliver on our mantra of 'Practical Sustainability'"

Mark Tyldesley,  
Group Managing Director, Muntons



## Distell International

- Low carbon energy centre at Bunnahabhain Distillery on Isle of Islay, Scotland
- Installation of a 5.5MW Biomass steam boiler to meet the steam demands of the distillery
- Delivers around 3,000 tonnes of CO2 savings and displaces Fuel Oil.
- Will assist Distell International in their ambition to reach net zero by 2040
- Uses approx. 3,500 tonnes of locally-sourced virgin forest wood chip fuel; the draff by-product from the distilling process will also be blended with the woodchip fuel and provide up to 20% of the final energy content
- Fuel supply and O&M undertaken by Dallol Energy Ltd



CAPEX invested  
**£6.7m**



System  
**AgroFORST**

"We're delighted to have got this over the line... and very pleased that we're able to do it with AMP, who have a great record."

Angus Colquhoun,  
Technical Manager, Distell





## Simpsons

- Heat and power solution for global commodity company at Hull site to reduce CO2 emissions from generating heat & power by 50% by 2030 and to net zero by 2050.
- Annual cost savings of £130,000
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- Fuel supply 25,000 tonnes per annum in partnership with AWJ.
- O&M undertaken by AMP



CAPEX invested  
**£8.3m**



System  
**AgroFORST**

"Our Commitment is to be Climate, Land and People Positive by 2030 and to be the most sustainable supplier of innovative ingredients; we will help provide solutions to some of the world's biggest challenges in the coming decades. This project developed in partnership with AMP Clean Energy will deliver 7% reduction in our total Global Scope 1 emissions so is significant for us."

Cargill International



# Simpsons



## Simpsons Malt

- Ambitious £45m low carbon energy centre redefines local biomass as an energy store and alleviates the burden of compensation costs on UK consumers
- Supported by £3.5m IETF grant
- Innovative facility will house cutting-edge electric and biomass boilers, setting a new standard for malted barley production, a critical ingredient of the Scotch Whisky sector.
- high-voltage electric boiler is powered by wind energy that would otherwise be wasted during excess renewable energy generation.
- Delivers around **25,000 tonnes** of CO2 savings compared to fossil fuels
- 130GWh gas displaced annually



CAPEX invested  
**£40m**



System  
**18 MW Biomass**  
**12 MW "Wind Boiler"**

“As a Certified B Corporation, we are committed to minimising the impact of our operations on the environment and operating this Energy Centre at our Tweed Valley Maltings will be an important step in our objective of achieving net zero Scope 1 and Scope 2 emissions by 2030, giving us a companywide reduction of around 55%.

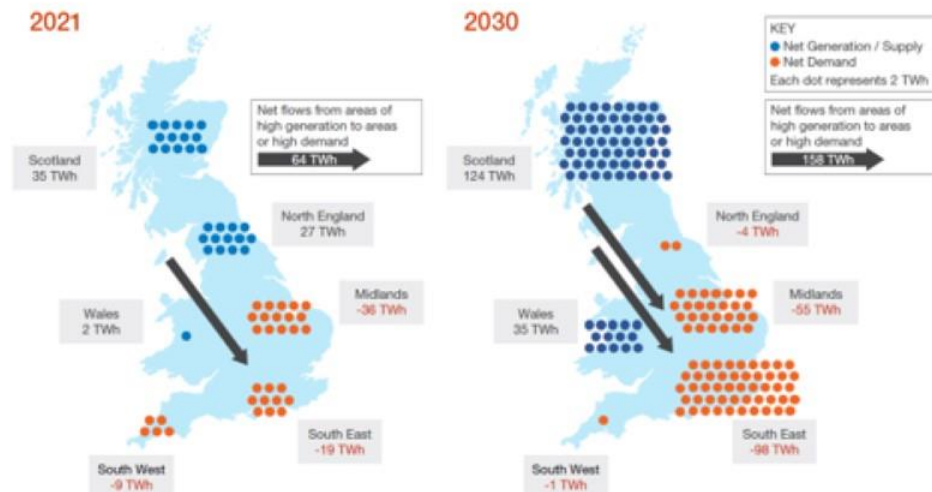
Steven Rowley,  
Operations Director, Simpsons Malt  
Limited



# Why an eboiler?

An eboiler portfolio provides us with a natural hedge against our generation peaking assets. They are genuinely flexible assets which are (considerably) cheaper and safer than hydrogen.

Figure ES.E.05: Regional Flows on the electricity transmission network in **Leading the Way**



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## Britons paying hundreds of millions to turn off wind turbines as network can't handle the power they make on the windiest days

The cables that transfer the power from the north to the south can't safely deal with the amount of power the turbines generate on some days. The National Grid paid £75m to get them shut off last year - a cost that eventually ends up on people's bills.



Hannah Thomas-Peter

Climate change and energy correspondent @hannahpaul

12 December 2023 10:02 UK

## National Grid spent £82million on wasted power last month despite blackout warnings

Excess wind power could overload the grid if supplies are already healthy, meaning vast amounts of energy during prime weather conditions can go to waste.

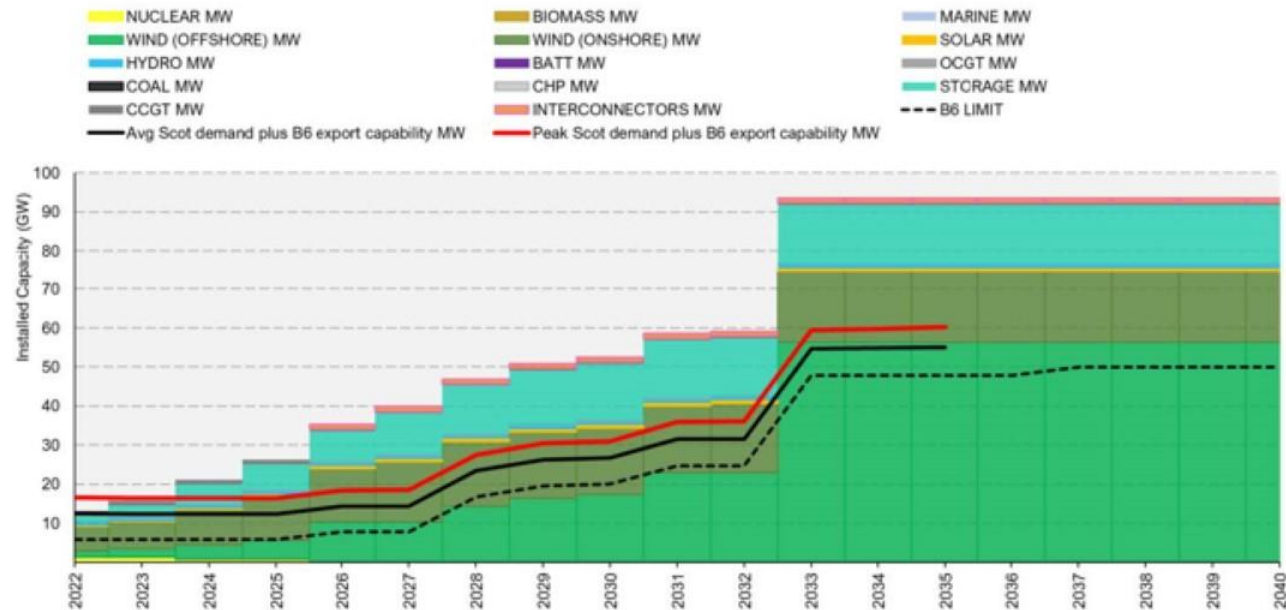
By JACOB PAUL

13:18, Wed, Jan 18, 2023 | UPDATED: 13:36, Wed, Jan 18, 2023

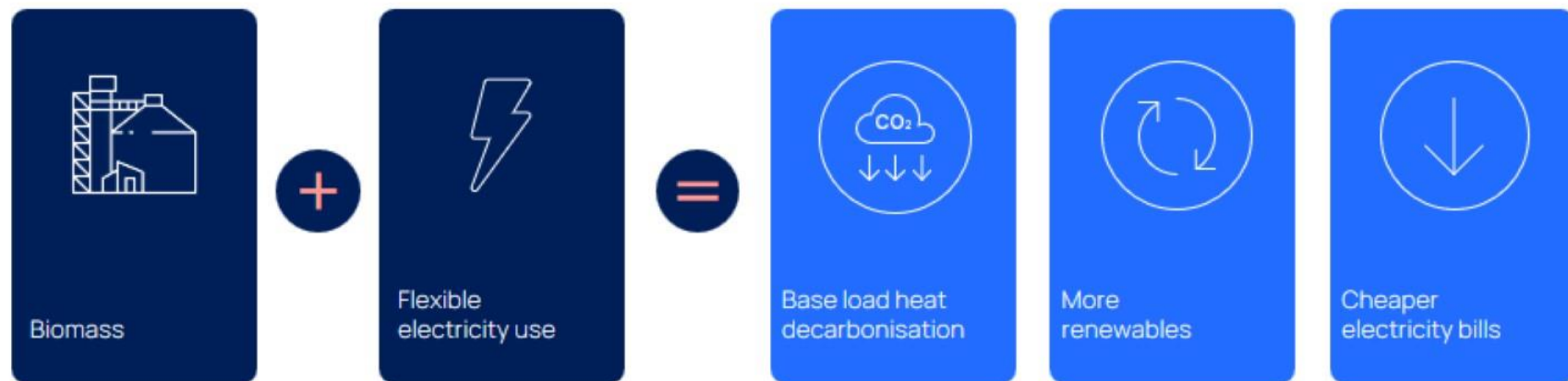
# Constraint in Scotland



**System Transformation (All Build)**  
**Future Projected Installed Capacity - Zones 1-6**



# Simpsons is the blueprint



Decarbonising industrial heat and addressing excess renewable wind energy



Over to you