



Ken Cronin





Keynote speech Rupert Turner



Decarbonising Ireland Roundtable





Decarbonising Ireland

Kevin McPartlan







Decarbonising Ireland Mark Doyle



Mark Doyle
Managing Director
10/04/2024

Decarbonising Rural Ireland and the use of HVO













Ireland's Leaders in Plastic Innovation







ROI fuel mix



| No central heating | 1% | 21,254 |
|----------------------------|-----|---------|
| Oil | 39% | 714,177 |
| Natural Gas | 33% | 601,339 |
| Electricity | 12% | 216,075 |
| Coal (incl. anthracite) | 3% | 63,437 |
| Peat (incl. turf) | 4% | 67,891 |
| Liquid Petroleum Gas (LPG) | 1% | 11,874 |
| Wood (incl. wood pellets) | 2% | 31,854 |
| Other fuels | 1% | 16,916 |
| Not stated | 5% | 91,911 |

c.700 homes using a liquid fuel



ROI Policy

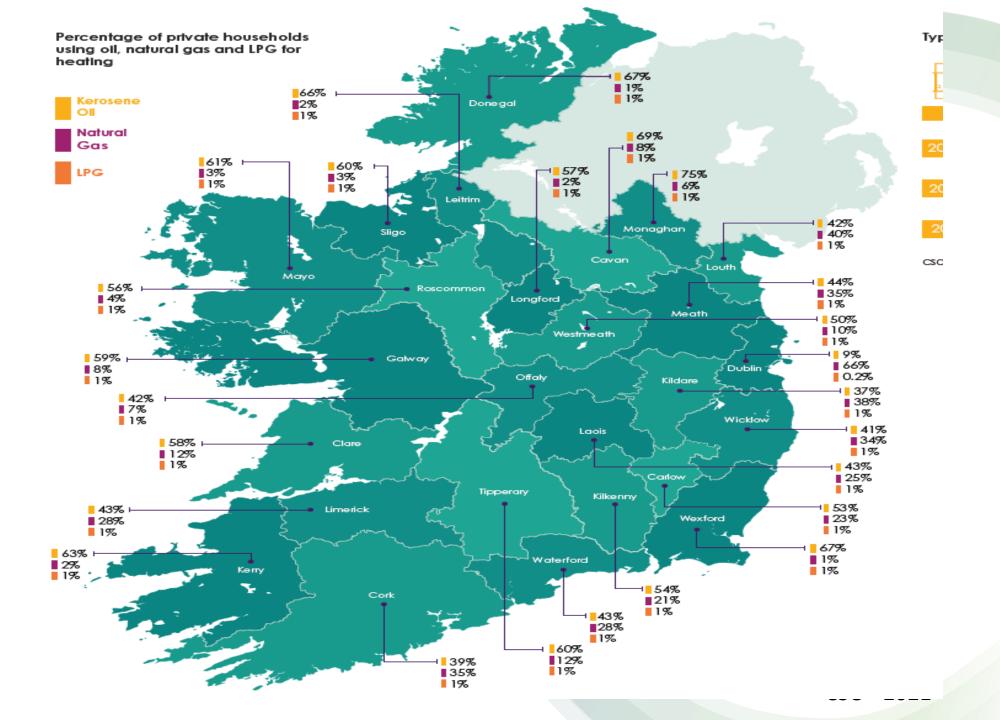
Climate Action Plan 2023, which provides a detailed overview of how the Government intends to achieve a 51% reduction in greenhouse gas emissions by 2030.

40% reduction of GHG emmissions in residential heating

As outlined before, the Government is committing to retrofit 500,000 homes by 2030, and installing 400,000 heat pumps in existing premises by that point.

This electrification is the only option for rural Ireland in this plan



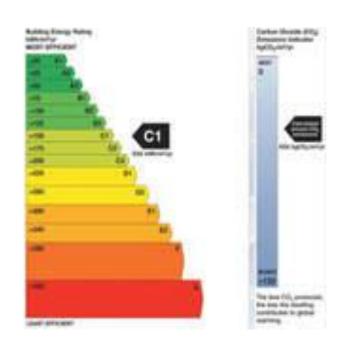




The Problem.....

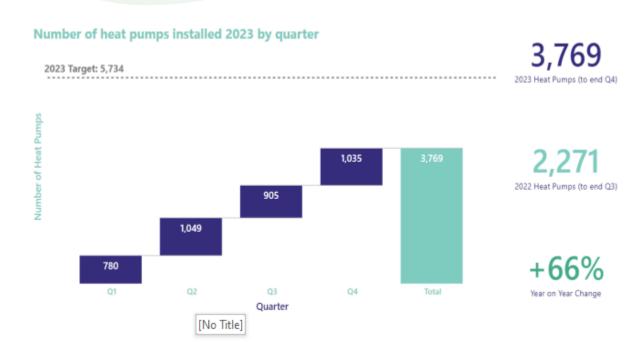
ROI Housing Stock

 90% of off grid homes in ROI are below BER rating C1 so the upgrade works required is very expensive and dispersed





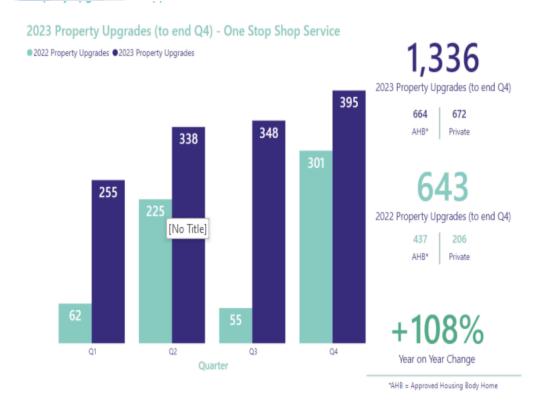
The Problem....



Where to find the customer desire...

Goal is 400,000 heat pumps by 2030

This is 1,000 heat pumps per week from 2023 to 2030, every week.





The challenge.....

consumer attitude Milling ness to pall

The average cost of a full scale deep retrofit in 2023

- 1. 4% <€30,000
- 2. 30% are between €30,000 & €50,000
- 3. 41% are between €50,000 & €75,000
- 4. 25% > €75,000







We have a Solution....(HVO)

HVO offers net GHG CO₂ reduction of c90% vs fossil Kerosene

Why HVO?

HVO is manufactured from 100% renewable waste derived raw materials, accepted by the Road Transport Fuel Obligation and certified by the ISCC.

HVO allows simple and cost-effective retro fit to make existing equipment operate on the fuel & drives innovation at manufacturer level to improve efficiencies of boiler and liquid fuelled heating systems



HVO gives significant reductions in noxious emissions.

HVO replacements takes less than an hour with an upfront investment of £500



OFTEC Member

- All boiler manufacturers tested HVO
- Successful outcome
- Tanks no material compatibility issues
- Flash point >70C.









Industry Strategy to achieve 40% GHG emissions reduction

i. Blend 20% HVO with Kerosene (20%)

- 1. Industry is ready, distributers set up to do this blend.
- 2. Cost increase over Kerosene today is practically the same as Kerosene is getting a carbon tax and HVO is not.
- 3. The "Renewable heat obligation scheme 2024" being issued by the government is far too unambiguous with a target of 2%
- 4. We specify 20% as this is the point where it is cost neutral (ish!!!). We can easy increase the blend to achieve more and more CO2 saving but we are initially using 20% as a cost neutral model
- 5. CO2 reduction of 20% over the 700,000 homes

ii. Upgrade appliance to high efficiency boilers (10-15%)

- 1. Total liquid fuel boiler in rural Ireland is 700,000
- 2. Total Standard efficiency (working at 60%-70% efficient) is 300,000.(10
- 3. Upgrade these 300,000 appliances, relatively inexpensively to high efficiency boilers greater that 95% efficient.
- 4. CO2 reduction of 15% over the 700,000 homes

iii.Retrofit homes with Air source Heat pumps. (5-10%)

- 1. If we give rural Ireland a choice, there is a natural demand for deep retrofits of about 5-10%
- 2. This is mainly,
- 3. Home being passed down the generations.
- 4. Farm home being passed on to the daughters and sons.
- 5. People just upgrading their homes.

Summary – What we need from Government

- Introduce an aggressive Renewable heat Obligation scheme for liquid fuel heat, up to 20%. Not the 2% identified in the Government consultation paper
- Reintroduce the SEAI grant to upgrade the 300,000 Standard efficiency boilers to high efficiency boilers.
 This will result in a reduction of a further 15% of GHG emissions.
- Redefine HVO as a biofuel and not a "Substitute" fuel. Currently HVO is subject to mineral oil tax. This was identified by Minister O'Donoghue in November 2022.

biofuels in line with the transport section of the CAP

Summary – What we need from Government

15. Transport

Key Messages

Sectoral Emission Ceilings

- Carbon Budget 1: 54 MtCO₂eq.
- Carbon Budget 2: 37 MtCO2eq.
- Emissions Abatement (on 2018): 50%
- Emissions up to 2021: 10.9 MtCO₂eq.

Trends in the Sector

- The constraints on travel in 2020 as a result of COVID-19 resulted in transport sector
 emissions levels falling to 10.3 Mt CO₂eq., relative to its 12.2 Mt CO₂eq. emissions
 baseline. 2021 saw a 6.1% increase in emissions over 2020 levels, largely driven
 by the cessation of public health restrictions that had artificially reduced transport
 demand
- 20.2% of the first sectoral carbon budget was expended in 2021. While this level
 is consistent with the sector being compliant with its carbon budget to 2025, a
 further increase in transport emissions is expected in 2022. Though not yet at risk
 of a projected failure to comply with its sectoral emissions ceiling, the need to
 substantially accelerate transport emissions abatement is clear
- This update to the 2021 Climate Action Plan (CAP21) transport decarbonisation
 pathway has been informed by two core analyses of the Irish transport system
 undertaken over the past year: the Organisation for Economic Co-operation and
 Development's (OECD) Redesigning Irish Transport review, undertaken at the request
 of the Climate Change Advisory Council; and refreshed transport decarbonisation
 pathway modelling, undertaken by the National Transport Authority's modelling team
 and the Department of Transport

Targets

- Meeting our 2030 transport abatement targets will require transformational change and accelerated action across all key decarbonisation channels. The key performance indictors provided in Table 15.6 illustrate the level of change required
- CAP21 targets have been revised to meet this higher level of ambition, including a 20% reduction in total vehicle kilometres, a reduction in fuel usage, and significant increases to sustainable transport trips and modal share
- Fleet electrification and use of biofuels will continue to provide the greatest share of
 emissions abatement in the medium term, and vehicle targets, while unchanged, have
 been reframed as a percentage share of total fleet and new registrations, to better
 embed our vehicle strategy within our wider Sustainable Mobility Policy

Measures and Actions

- In recognition of the OECD report's findings that the Irish transport system embeds car-dependency and increased emissions by design, the Avoid-Shift-Improve framework for transport sustainability has been applied to categorise all actions, emphasising the crucial role of spatial and land-use planning in designing transport systems that can support our net-zero ambition
- Key policies and strategies that will support the sector's decarbonisation have been identified, and all the main work programmes and high impact actions are summarised in Table 15.7

14. Built Environment

Key Messages

Sectoral Emission Ceilings

- Carbon Budget 1: Residential: 40 MtCO_eq. / Commercial/Public: 7 MtCO_eq.
- Carbon Budget 2: Residential: 23 MtCO₂eq. / Commercial/Public: 5 MtCO₂eq.
- Emissions up to 2021: Residential: 7 MtCO₂eq. / Commercial/Public: 1.5 MtCO₂eq.

Trends in the Sector

The built environment accounted for 12.3% of Ireland's greenhouse gas emissions in 2021, down from 13.6% in 2020

Key Targets

- All new dwellings designed and constructed to Nearly Zero Energy Building (NZEB) standard by 2025, and Zero Emission Building (ZEB) standard by 2030
- Equivalent of 120,000 dwellings retrofitted to BER B2 or cost optimal equivalent by 2025, and 500,000 dwellings by 2030
- Up to 0.8 TWh of district heating installed capacity by 2025, and up to 2.7 TWh by 2030
- 170,000 new dwellings using heat pumps by 2025, and 280,000 by 2030
- 45,000 existing dwellings using heat pumps by 2025, and 400,000 by 2030
- Up to 0.4 TWh of heating provided by renewable gas by 2025, and up to 0.7 TWh by 2030

Measures and Actions

- · An ambitious National Residential Retrofit Plan
- · Strengthening our existing Building Regulations
- Supporting the growth and development of district heating, electrification of heating and geothermal energy
- . A roadmap to support the decarbonisation of commercial buildings
- Supports for the public sector to decarbonise its building stock

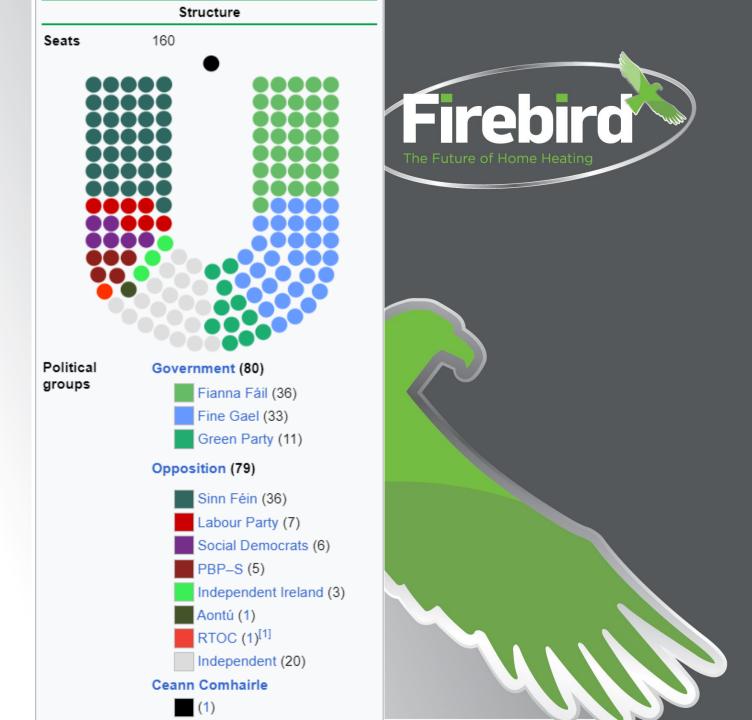
Immediate action

this is Election time!!

Local elections and European elections taking place in June.

General Election within the next 12 months

WE NEED TO ENSURE OUR STRATEGY IS ON THE POLITICAL PARTIES MANIFESTOS, NOW!!







Thank You for your attention





Decarbonising Ireland Pat Murnane







Decarbonising Ireland Laura Byrne





FUELLING GROWTH.
SUSTAINING OUR FUTURE.



- Company Overview
- Certa HVO transition
- Case Studies
- Market Overview



























Decarbonising Ireland David Blevings





Decarbonising Ireland Roundtable

Q & A













Harnessing the Power of Data Roundtable



Harnessing the Power of Data Gordon Hyland

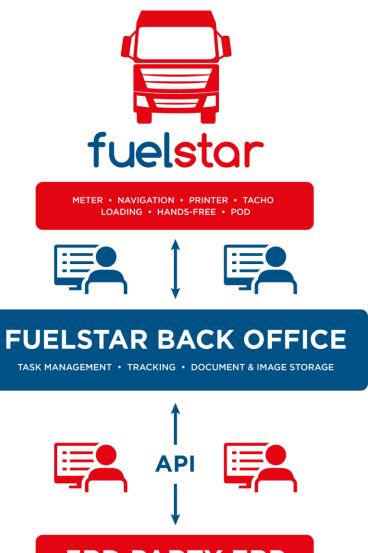






www.fuelstar.co.uk

FuelStar Architecture











Case Study 1 – Retail Forecourt Delivery – Health & Safety

Aim:

- To reduce slips, trips, falls and manual handling incidents
- To improve safety compliance and hazard reporting levels
- To improve workplace reporting culture
- Build confidence of Drivers to support positive hazard reporting culture
- To identify low level issues, to allow proactive approach



Case Study 1 – Retail Forecourt Delivery – Health & Safety

Manual reporting

- Low speed
- Low accuracy
- Low follow through



Case Study 1 – Retail Forecourt Delivery – Health & Safety

- Digitised reporting (through FuelStar)
 - Removal of manual data input
 - Avoid delays & quick triage of issues (info to correct stakeholder and actioned accordingly)
 - 43% Increase in hazard reporting
 - Reduction in time losing injuries to less than 1% per 100,000 hours worked



Case Study 2 – Heating Oil Delivery – Health & Safety

- Working at hight Helping Drivers make good decisions
- Digitized decision tree, embedded within FuelStar, delivery process
- Enhanced compliance & reduced incidents



Point of Work - Working at Height Risk Assessment

Stop - Think - Act

| Item | Question | Response | | Action |
|------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Can the delivery be made at ground level? | Yes | No Go to 2 | Complete safe delivery report process. Record any additional control measures required needed to make safe delivery when compared to risk assessment and SOP on Delivery Point Risk Report |
| 2 | Do you need to work at height to make the delivery? | Yes Go to 3 | No | Complete safe delivery report process. Record any additional control measures required needed to make safe delivery, when compared to risk assessment and SOP on Delivery Point Risk Report |
| 3 | Is there an overhead power cable within 6 metres of the delivery point | Yes | No Go to 4 | Don't Make delivery. Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 4 | Is there a fixed working platform provided with edge protection and access stairs in a serviceable condition? | Yes | No Go to 5 | Complete safe delivery report process. Record any additional control measures required needed to make safe delivery when compared to risk assessment and SOP on Delivery Point Risk Report |
| 5 | Is there a fixed ladder provided that is in a serviceable condition and safe to use? | Yes | No Go to 6 | Complete safe delivery report process. Record any additional control measures required needed to make safe delivery, when compared to risk assessment and SOP on Delivery Point Risk Report |
| 6 | Can alternative access equipment be used instead of Ladders e.g. mobile tower? | Yes Go to 7 | No Go to 7 | Complete safe delivery report process. Record any alternative access equipment that could be used for the delivery, when compared to Risk Assessment and SOP on Delivery Point Risk Report |
| 7 | Will working at height be less than 30 minutes for the delivery? | Yes Go to 8 | No | Don't Make delivery – Ladders not suitable for Delivery point Go to step 6 Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 8 | Can the delivery be made without standing on any of the top 3 rungs of the ladder provided by RP? | Yes Go to 9 | No | Don't Make delivery. Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 9 | Can the delivery be made with no more than 4 metres of hose being needed from the base of the ladder to the fill point | Yes Go to 10 | No | Don't Make delivery. Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 10 | Can the ladder be secured at the top to prevent slippage(rubber strips or ladder standoff) | Yes Go to 11 | No Go to 11 | Complete safe Delivery Point Risk Report and record issues identified with delivery |
| 11 | Can the base of ladder be prevented from slippage and placed on a firm level surface? e.g. clear area, use ladder mat | Yes Go to 12 | No | Don't Make delivery Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 12 | Can you maintain 3 points of contact with the ladder e.g. whilst going up and down? | Yes Go to 13 | No | Don't Make delivery Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 13 | Is the ladder provided suitable for use and in good condition? | Yes Go to 14 | No | Don't Make delivery Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |
| 14 | Are you confident in your ability to be able complete the delivery safely? | Yes | No | Don't Make delivery Contact site manager. Complete Delivery Point Risk Report and record issues identified with delivery |

Record any additional control measures required needed to make safe delivery, when compared to risk assessment and SOP on safe delivery report



Capture Site Declaration

Yes

Does a site declaration need to be captured before product discharge occurs?













yes

Any overhead power cable within 6 metres of the delivery point?



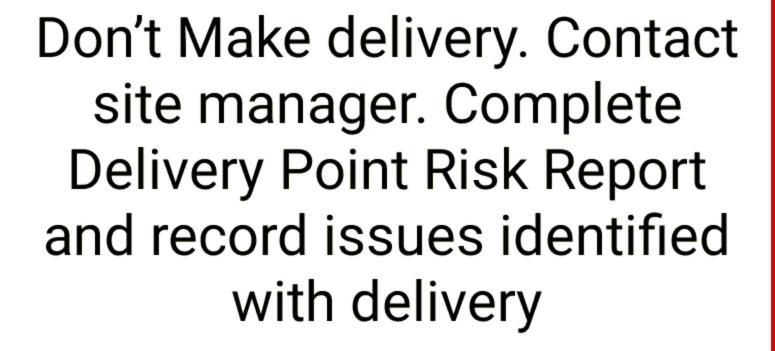












Ok













Complete safe delivery report process. Record any additional control measures required needed to make safe delivery when compared to risk assessment and SOP on Delivery Point Risk Report

Ok















Is there a fixed working platform with edge protection and access stairs?













yes

Is there a fixed ladder provided that is safe to use?













yes

Will you be working at height for less than 30 minutes?















Can the delivery be made without standing on any of the top 3 rungs of the ladder?













yes

Can you maintain 3 points of contact with the ladder at all times?













yes

Are you confident in your ability to complete the delivery safely?

Conclusions

- Driver tablets are powerful tools for data to and fro
- H&S is just one aspect for consideration
- Many processes can be improved & captured in realtime
- Templates, photos, videos
- Enforcement vs. encouragement
- Buy in to management vision





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Harnessing the Power of Data



Sven Munk





GARTNER says: Top Strategic Technology Trends 2024

Al Trust, Risk and Security
Management

Threat
Exposure
Mangement

Sustainable Technology

Platform Engineering

5 Al-Augmented Development

6 Industry Cloud Platform

7 Intelligent Applications

8 Democratised Generative AI

9 Augmented
Connected
Workforce

10 Machine Customers

Al needs DATA

DATA needs Al



Your environment and challenges today



World Economy Disruptions

Wars, Pandemics, Supply Chain Crisis, Political Regulations



High Expectations from Customers

Amazon-like services



Customers Hold Decision Power

Static customer relationships and order streams



Rigorous Competition

High price pressure meeting low product differentiation

High costs, uncertainty & missing ability to influence!

Interface between Distributor and Customer is

inefficient!

Logistics costs escalating

Suboptimal Delivery Routes Ad-hoc changes Shortage on Drivers



Touchpoints not individualised



Lost potential in making touch points meaningful





Reacting instead of acting

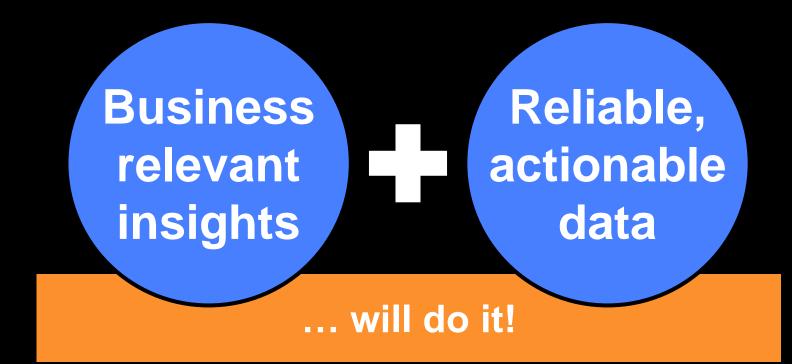




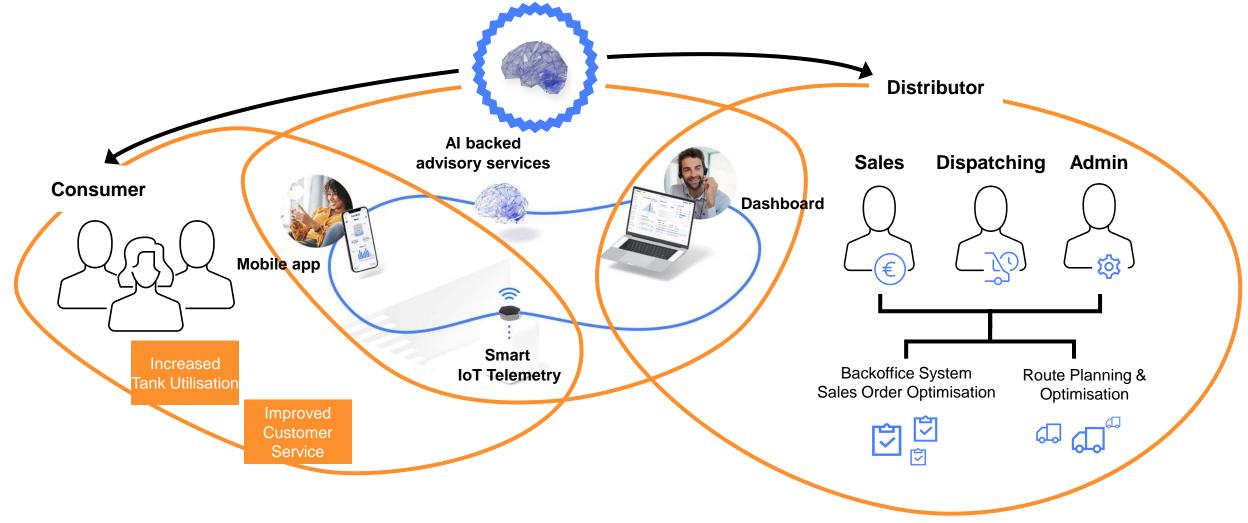
No option to influence buying decisions



Take the decision-making power from your customers and get back into the driver seat!







Al-enabled technology of the future:

Data-driven, digital platform as operating system for recurring distributor-consumer relationship management.

Actionable data to re-define workflows in sales (sell more) and logistics (spend less)!



Sell more with less costs!

Keep your customers!

-50% churn

5X
conversion
rate in
sales

-50%
COStS
in logistics

89% less manual work



Come talk to us at Booth 97!



Til CEO



Sven
Vice President
Sales & Marketing



Rahul
International
Sales Manager



Jake
International
Account Manager

TELEMETRY SOLUTION PROVIDER 2024
TOP #3 IN EUROPE | TOP #5 WORLDWIDE



TOP 10 AI SOLUTION PROVIDER IN EUROPE







Harnessing the Power of Data



Tim Buckman

BoilerJuice

Platform of Choice



UKIFDA 2024

Tim Buckman, CEO of BoilerJuice

Is data, digitalisation, & systems integration for geeks or can it help in changing times?"



#1 UK marketplace for heating oil & boiler servicing

Platform of Choice for UK fuel distributors.

We're here to save customers time and money on their heating, providing total peace of mind.

- 60% online market share
- 650k customer base
- 3,000,000,000 litres sold
- "Excellent" Trustpilot rating

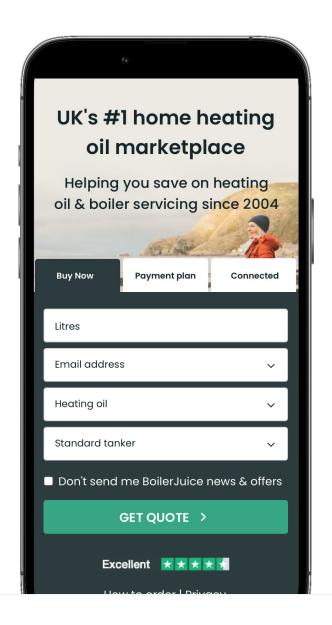




1,500,000 Searches

300,000,000 Litres sold

4,500,000Fuel tank readings



10,000,000 Web page views

2,300,000

Postcode prices

3,000,000

Prices generated





Customers

"When is a good time to order?"

"What are prices going to do?"

"Where is my oil?"

"How much fuel do I have?"





Suppliers

"What's the market doing?"

"How is my market share?"

"Where is there volume?"

"How can we grow revenue?"



How we use our data to solve for them, today?



Customers

Save time and money

- Historical price & order information data
- Supply systems integrations & OM tooling
- Tank telemetry & predicted order windows



Suppliers

Opportunity & efficiency

- Quote demand & conversion data
- Market pricing insights
- Lower admin/cost from reduced contact



What's the opportunity for tomorrow?

- Live tank capacity + fuel availability & prices
- Instant routing same day delivery
- Where's my oil & where's the tank!
- Oynamic market insight data sharing





Is data, digitalisation, & systems integration for geeks or can it help in changing times?"





Harnessing the Power of Data



Glyn Highfield



Fuelsoft Data Geek @ UKIFDA 2024

Glyn Highfield

Is data, digitalisation and systems integration for geeks or can it help in changing times?

In 2006, Clive Humbey, a well known data scientist, coined the phrase "Data is the new oil"

If we consider the importance of data

- 1) For informed decision making
- 2) For problem solving
- 3) For greater understanding
- 4) For improving processes
- 5) For understanding behaviour

How do we analyse and integrate our data

- Data Warehouse and Power BI
- Boilerjuice for order transmission
- Debit and credit card gateways for card payments
- In cab computers such as Touchstar, Dreamtec and DTS
- Sales and marketing databases such as Dynamics CRM

Power BI & Data Warehouse







Cyber Essentials – Is it needed

- Reassure your customers that you are working to secure your IT against cyber attack
- Attract new business with the promise you have cyber security measures in place
- You have a clear picture of your organisation's cyber security level
- . Some Government contracts require Cyber Essentials certification

66

If it's smart and online, it's vulnerable. It takes years to build a reputation and only a few minutes for cyber incidents to ruin it. Security should be a high priority within your business. If you can't afford security, you can't afford a data breach

Thank you





Harnessing the Power of Data Roundtable

Q & A









What next for the markets?



James Spencer



Where next for the Oil Markets?

James Spencer, MD Portland, April 2024





Portland

- Work across the fuel and energy sector
 - Energy Hedging for small to medium sized fuel and energy users
 - Emergency Stock Tickets / Delegations
 - Diesel & Renewable Diesel Suppliers (bulk and fuel card)
 - Renewable Fuel Certificates, Carbon Emissions and Voluntary Offsets
 - Importers and wholesalers of Automotive Urea into UK
 - Manufacturers of Diesel Emission Reducers (AdBlue) and Exhaust Fluids
 - Global Fuel Advisory Services
 - Data and Pricing Service

Energy Market Reality Check

Energy Consumption Figures: Tonnes Oil Equivalent (Billions)

| Country | 1999 | 2014 | (14/Head) | 2029? |
|---------|------|------|-----------|-------|
| USA | 2.24 | 2.27 | 7.09 | 1.85 |
| China | 0.95 | 2.85 | 1.78 | 9.23 |
| Russia | 0.61 | 0.70 | 4.83 | 0.84 |
| India | 0.28 | 0.59 | 0.49 | 6.92 |
| Japan | 0.51 | 0.47 | 3.73 | 0.73 |
| Canada | 0.29 | 0.33 | 10.31 | 0.18 |
| Germany | 0.33 | 0.33 | 4.40 | 0.43 |
| Britain | 0.29 | 0.30 | 4.62 | 0.37 |
| Brazil | 0.18 | 0.28 | 1.39 | 1.16 |
| TOTAL | 5.68 | 8.12 | 5.77*OECD | 21.71 |

Latest figures...

| Country | 2022 | % vs 2014 |
|---------|------|-----------|
| USA | 2.18 | -4% |
| China | 3.80 | 33% |
| Russia | 0.82 | 17% |
| India | 1.01 | 71% |
| Japan | 0.41 | -13% |
| Canada | 0.30 | -9% |
| Germany | 0.27 | -18% |
| Britain | 0.19 | -37% |
| Brazil | 0.31 | 11% |
| TOTAL | 9.61 | 18% |

Market Driver No 1: Oil

2018

- Exploration flying / Refining stagnant
- Crude drives the markets and Chinese demand growth enormous
- Supply is struggling to keep up with demand

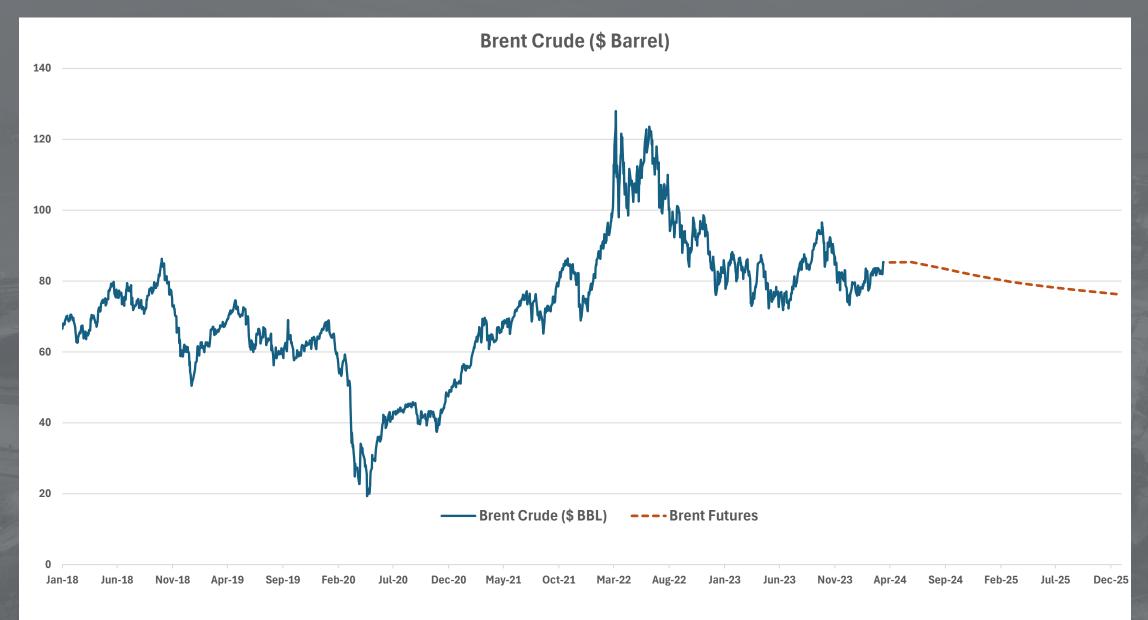
2024

- Demand growth is muted
- Lots of new oil fields coming on stream generating a surplus
- The "Golden Age" of Refining is now just the "Silver Age"
 - but still a lot better than 2018

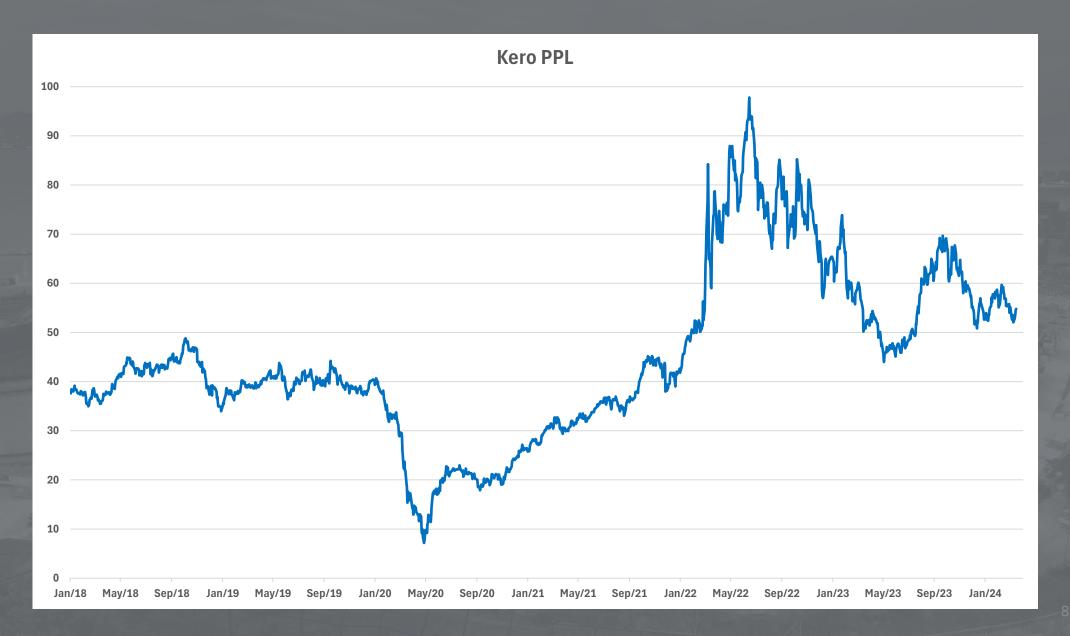
2030+

- Long-term exploration investments under pressure
- Culmination of peak demand...?
- Refining remains in a good place

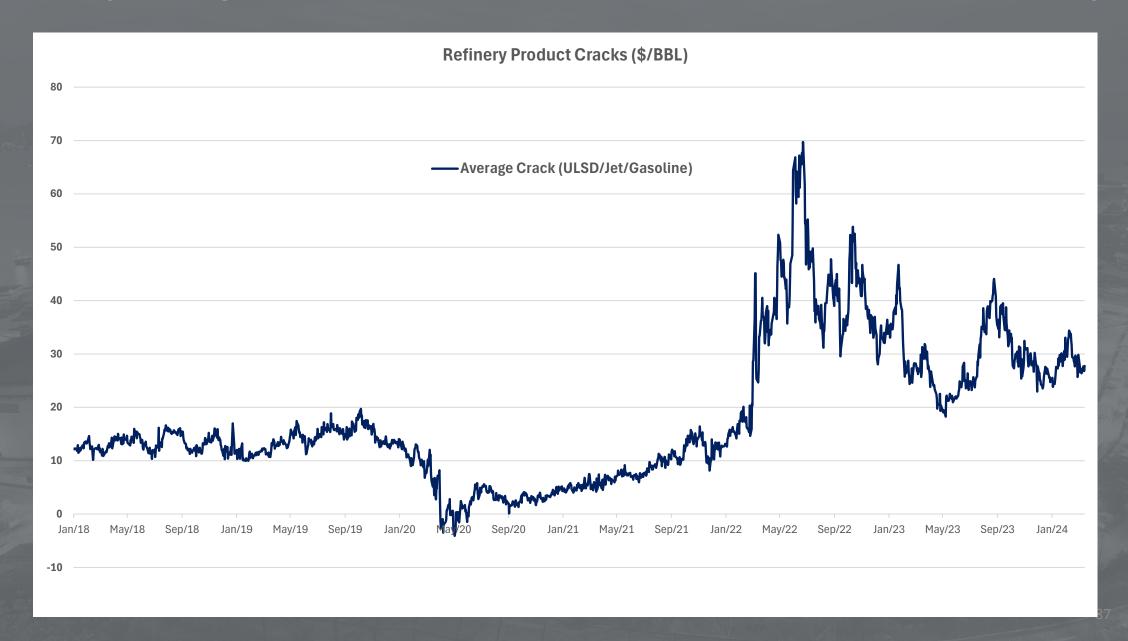
Oil Prices (\$/bbl): 2018 – present day – futures (2025)



JetA1 / Kerosene Prices (ppl): 2018 – present day



Refinery Margins / Crack Spread (\$/bbl): 2018 – present day



Market Driver No 2: Automotive Mobility

2018

- Most batteries expend more energy in production than they produce
- Electric bus battery costs three times more than the bus itself
- "The majority of new cars coming off production lines will be electric by 2025" JS at North American Petroleum Marketers Conference
 -not particularly well received!

2024

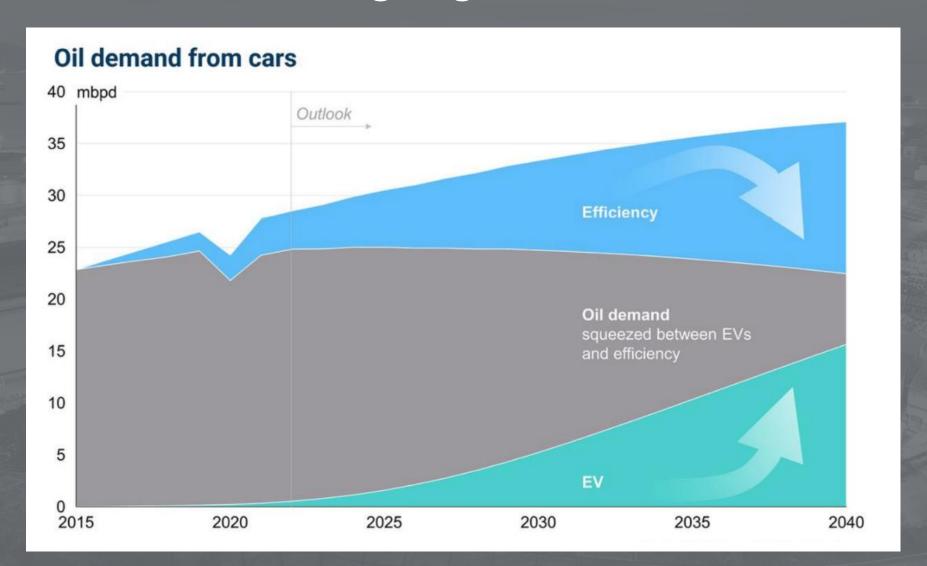
- Battery range significantly improved
- Significant reduction in cost of batteries (50%+)
 - Less so with "heavy duty" transport batteries, ie, electric bus still x2.5 more expensive than new diesel bus

2030+

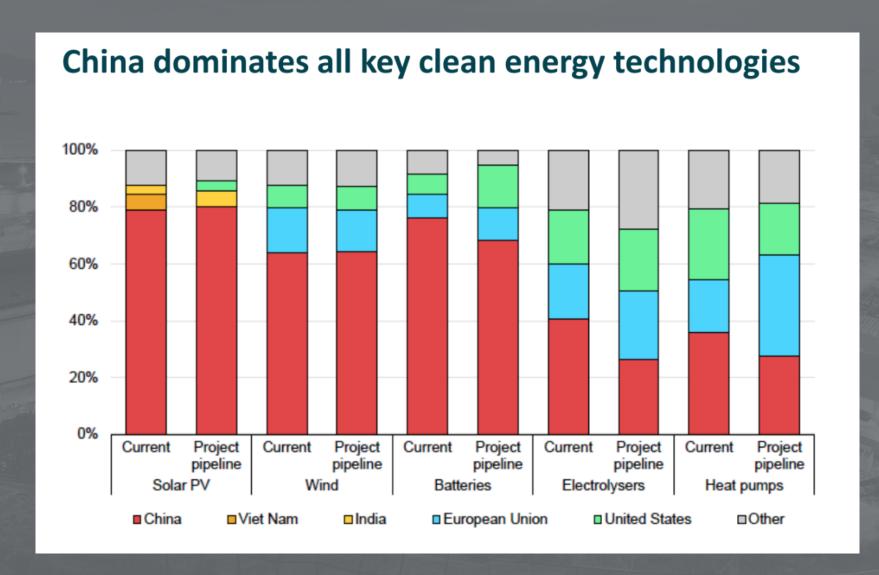
- All new cars will be hybrid / electric with minimum 100m electric range
- Major environmental issues with battery metal mining and processing
- Europe to pay dearly for China's domination of e-batteries

Reduced automotive oil demand

cars are more efficient and going electric...



Dangerous reliance on China for e-batteries and every other form of renewable energy...



Market Driver No 3: Biofuels

2018

- Biofuels targets have led to mass deforestation in parts of the tropics
- "Food vs Fuel" remains controversial

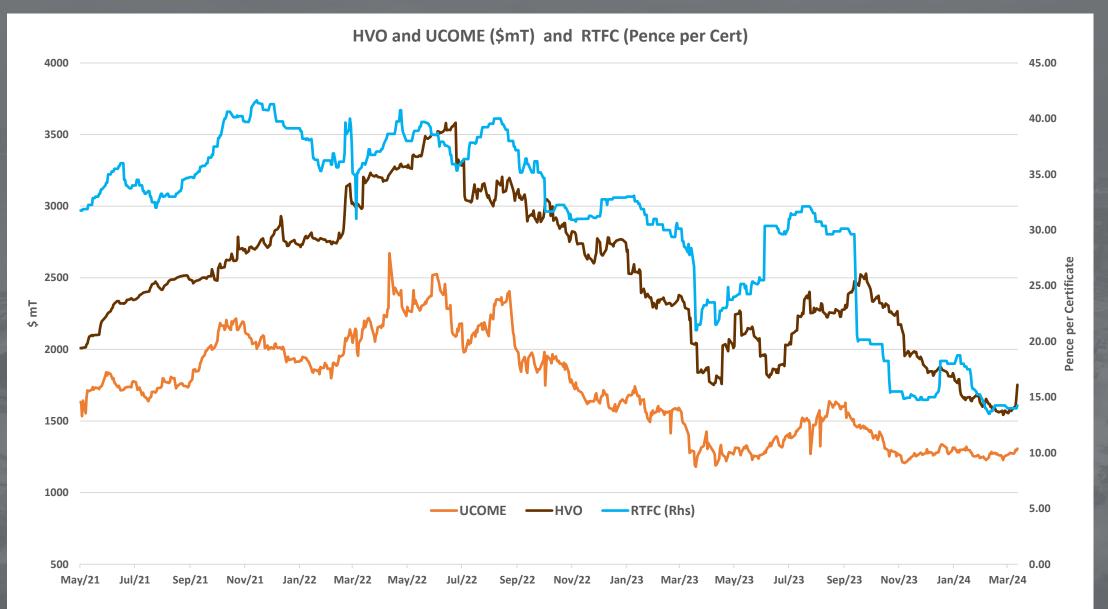
2024

- Liquid fuels still the only viable option for heavy mobility
- Tougher legislation has reduced deforestation and food vs fuel debate
 - Although still spectacular fraud in Asian used cooking oil markets
- HVO (Renewable Diesel) taking over as "biofuel" of choice

2030+

- Traditional biofuels (blended with diesel) will plateau at 20%
- HVO will account for a further 20% of heavy-duty diesel pot
- System will continue to have "scandalous" loopholes

Biofuels Prices (\$/t): 2021 – present day



"Leftfield" Market Driver: Solar Power

2018

- Utilisation of the ultimate energy source, but you need the sun to shine
- Solar storage progressing rapidly
- "only 10% of energy mix (maximum) likely", JS at York Business Event

2024

- Incredible progress in solar technology sun no longer needs to shine!
- 80% reduction in costs of solar panels
- "Smart money" moving from wind to solar investment for power gen
 - \$360bn invested in Solar in 2023 vs \$220bn in wind (and \$50bn in gas)
- JS 10% prediction looks plain wrong...

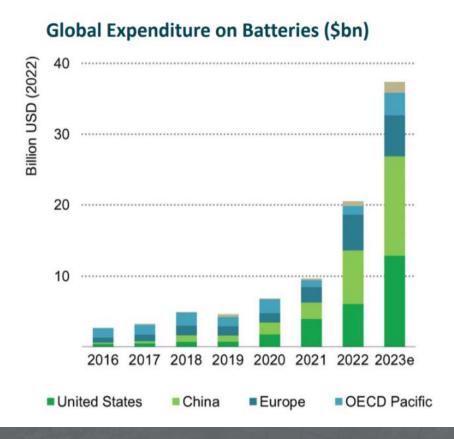
2030+

- "Scientists envision 20-fold increase in solar PV power by 2030" (GASERI)
- Relentless growth at least 15% of electricity generation by 2030
- · Coupled with exponential growth in solar battery storage

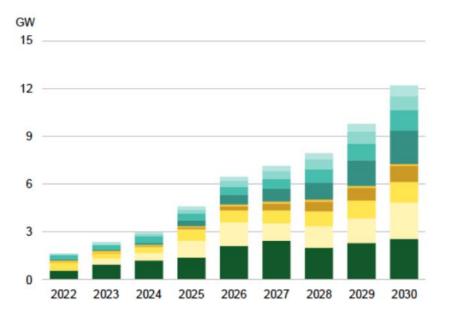
Growth in Grid scale battery storage

solar utilisation and grid balancing

Investments in grid scale batteries are booming





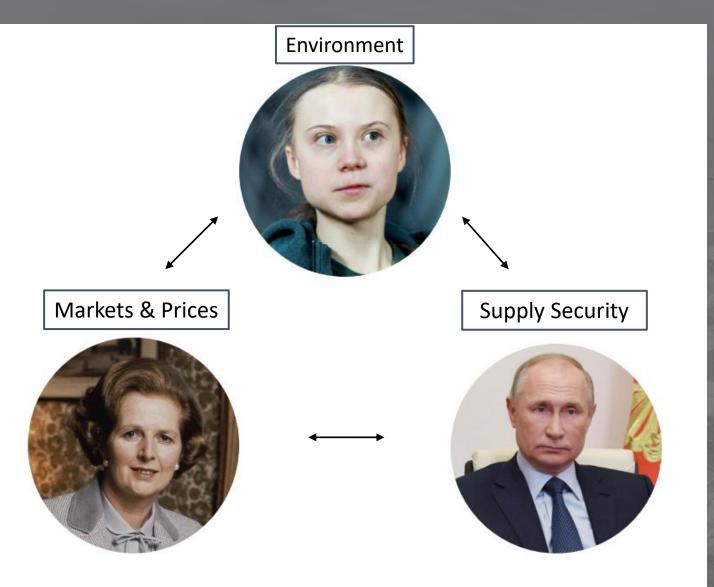


* IGW = 1bn watts

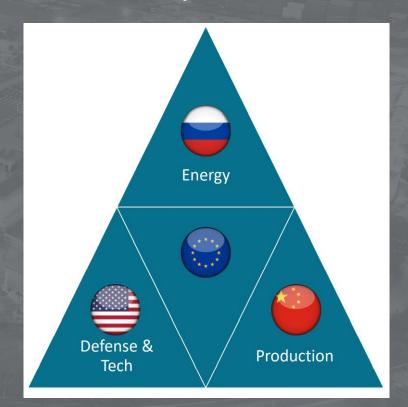
1GW = powers 750K homes pa ~ Merseyside

1.21GW = Doc Brown's DeLorean from BTTF

Macro Market Drivers: the energy "trilemma"...



...and a new one for Europe...



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What next for the markets? Q & A







Thank you to our day 1 speakers















