



conserve
ENERGY

start taking control of your energy



Technical energy consultants helping businesses reduce their consumption, costs and their impact on the environment.

Established over 10 years

30 years within the industry

Procurement experience of portfolios of 8000+ sites
currently involved with over 1 GW of renewable projects

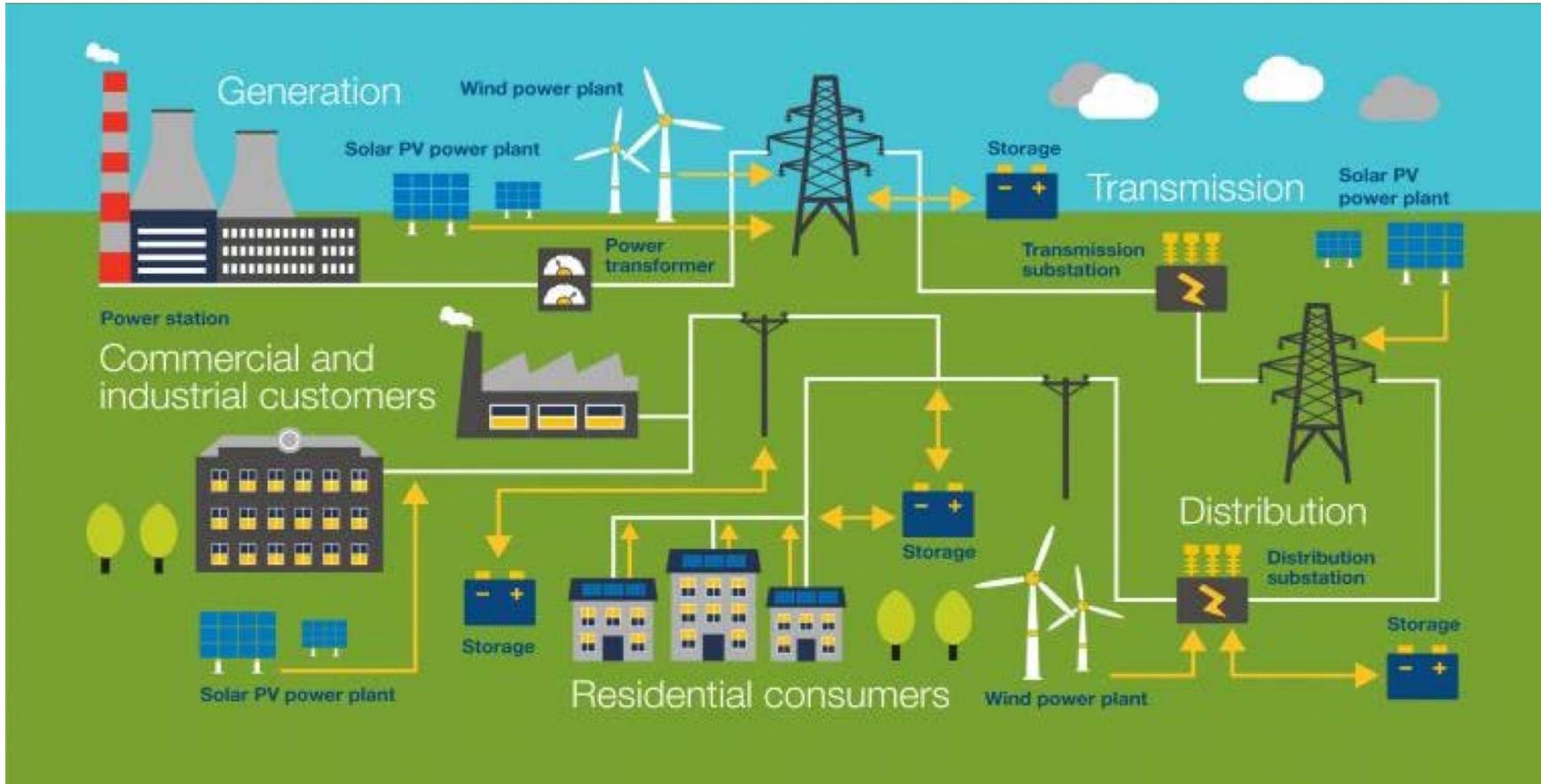
5000+ installations of various technologies

Focused on 'whole energy' approach

As systems become more diverse and more complex it becomes vital to consider your whole strategy before taking any action in isolation

Our 'whole energy' approach means developing a portfolio of options for energy in all its various applications (electricity, heating and transport), and crucially fitting them together in the best combinations to deliver value for business





Energy has become incredibly diverse (and difficult to manage)

What has this meant for businesses?

October 22 Annual UK Baseload Electricity (£/MWh)



UK Baseload Electricity (£/MWh)

Day Ahead	167.89	n.a.	n.a.
Nov22	520.00	520.00	0%
Q123	615.00	630.00	2%
Smr23	310.00	n.a.	n.a.
Win23	335.00	n.a.	n.a.
Smr24	220.00	n.a.	n.a.
Win24	240.00	n.a.	n.a.
Smr25	200.83	n.a.	n.a.

Source: Reuters, Spectron, ICE Futures Europe

EU Baseload Electricity (£/MWh)

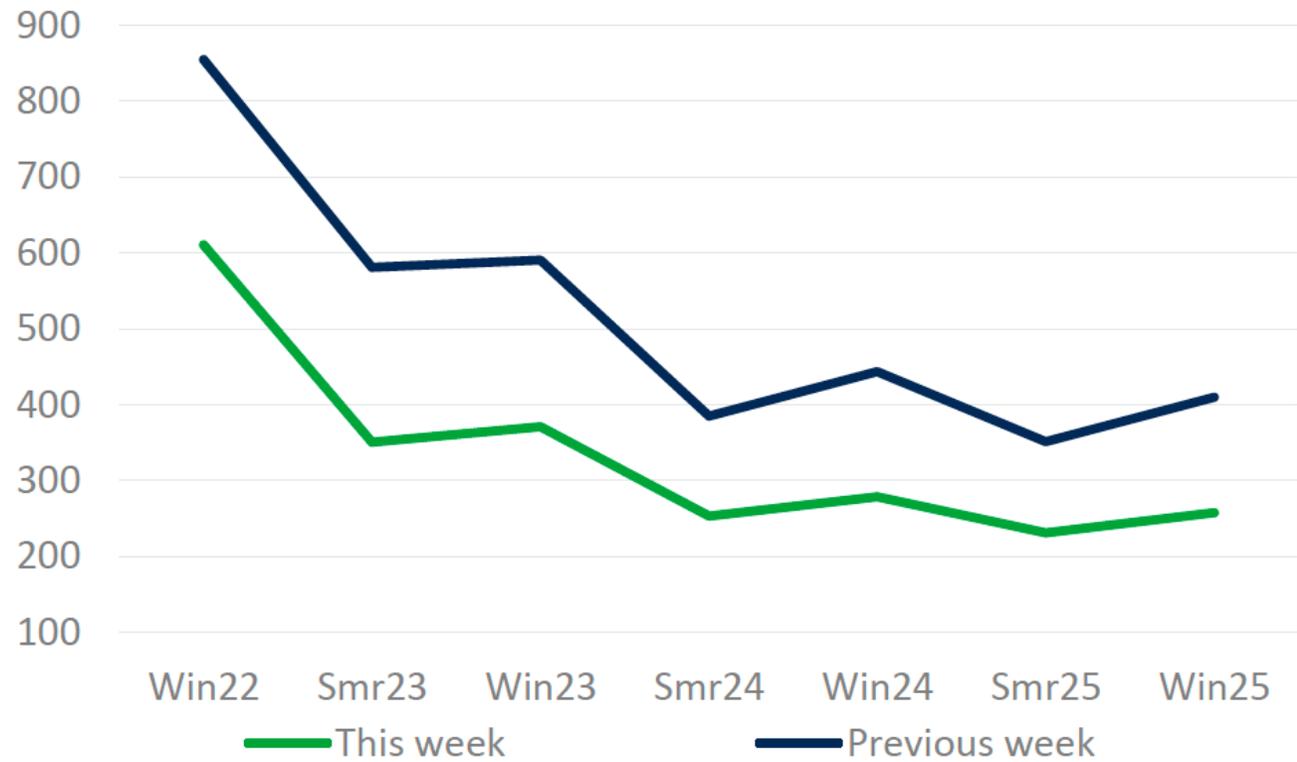
DE Cal23	437.00	n.a.	n.a.
FR Cal23	535.00	540.00	1%

Source: Reuters

Data correct 4/10/2022

Future outlook

Figure 6: UK seasons w/w change (£/MWh)



Whole Energy approach

Step 1

- Procurement
- What your business is already buying to keep going

Step 2

- Metering
- How are you quantifying the energy you pay for and what data is available

Step 3

- Energy efficiency
- Once we have established a solid baseload how can we reduce the consumption

Step 4

- Self generation
- Once we have explored all other areas, we can start to look at generating your own power on site

Procurement

- In contract/ SVR
- Type of contract
- Contract suitable for business and future plans
- Direct comparisons
- Be wary of the terms and conditions
- Correct tariffs



Get in touch with us
 eonnext.com/contact
 hellobusiness@eonnext.com
 0800 501 5699
 Account number
 [REDACTED]
 Tax Invoice number
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 Date issued
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Invoice

1st June 2022 - 30th June 2022

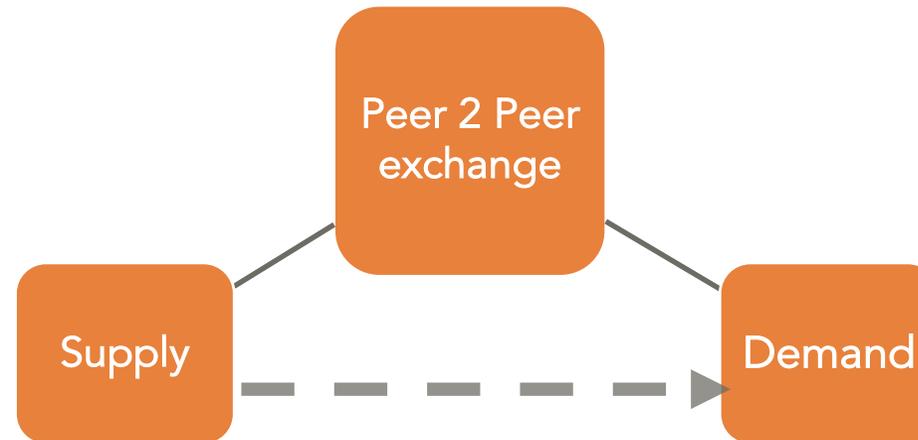
Your charges

	Net charges	CCL	VAT	Total
Electricity	£2,016.63	£60.40	£415.41	£2,492.44
Standard of performance (electricity standard visit)	-£30.00	£0.00	£0.00	-£30.00
Total charges for this invoice				£2,462.44

Screenshot

Peer to Peer energy contracts

The Intelligent aggregation platform allows renewable energy generation to be matched with different demand sites nearby whilst still selling excess power to the grid



P2P exchange enables intercompany energy generation to be offset against their own off site demand.

There is a merit order for hyper-local, local, regional and national generators. So additional benefits can be realised if the sites are geographically very close to each other.

The p2p exchange system handles the matching, exchange, invoicing and balancing the market based on the merit order.

Peer to Peer energy contracts

Example of cost savings

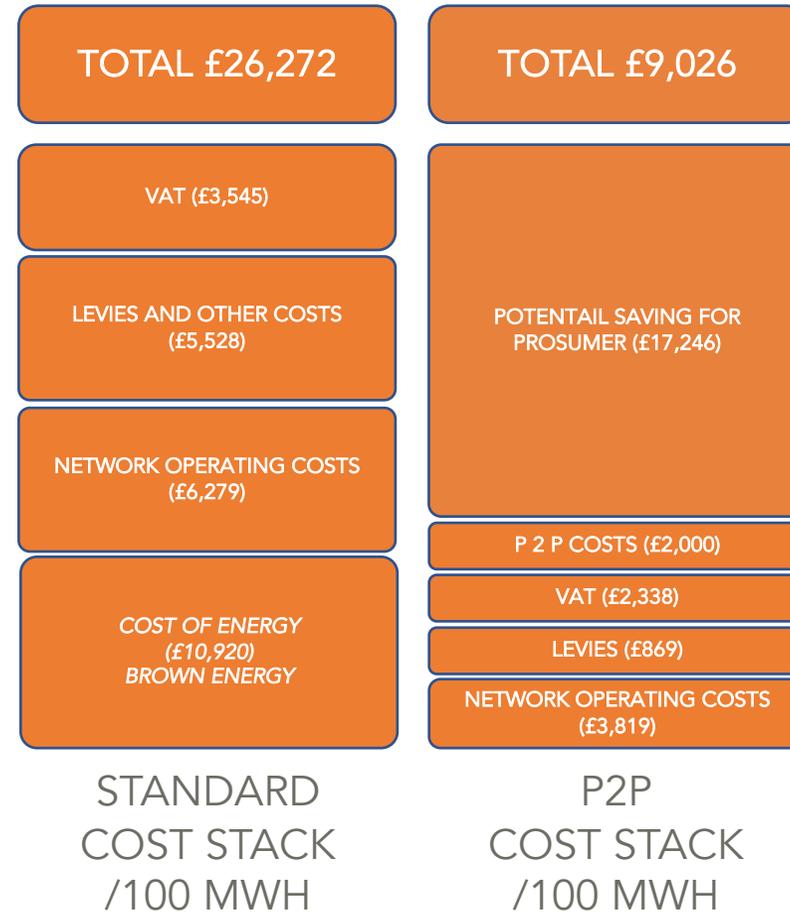
Shows circa 60% reduction in costs if power price set to zero (intercompany)

Creating a virtual powerplant from your generation asset removes or reduces:

- Imbalance costs
- Wholesale price fluctuation
- Greenwashing

The P2P exchange can also cut down on

- Network Loses
- Estimated data cost
- Intermediary costs



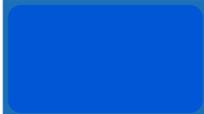
Energy Efficiency

“The cheapest kWh will always be the one you don’t use”

“For many businesses a 20% cut in energy costs represents the same bottom line benefit as a 5% increase in sales.” The Carbon Trust

Energy Efficiency

- Energy Performance Certificates
 - Can be accessed online
- lighting
 - Share save schemes
- Behavioral change
- Process change
- Simple timing changes
- Very site specific

Energy performance certificate (EPC) recommendation report	
	Report number 0270-9941-0414-2920-9044
	Valid until 27 March 2024

Energy rating and EPC

This property's current energy rating is C.

For more information on the property's energy performance, see the EPC for this property.

Recommendations

Make these changes to improve the property's energy efficiency.

Recommended improvements are grouped by the estimated time it would take for the change to pay for itself. The assessor may also make additional recommendations.

Each recommendation is marked as low, medium or high. This shows the potential impact of the change on reducing the property's carbon emissions.

Changes that pay for themselves within 3 years

Recommendation	Potential impact
Consider replacing T8 lamps with retrofit T5 conversion kit.	High

Changes that pay for themselves in more than 7 years

Recommendation	Potential impact
Consider installing PV.	High

Screenshot

Technology

Ensured you have a suitable procurement strategy
Established an accurate baseload through data and energy efficiency
Now we have enough information to look at suitable technologies

Heat pumps
Solar thermal
Solar PV
Voltage optimisation
Power correction
Batteries
Heat recovery
Electric Vehicles (V2G)

Example of recent energy management enquiry

100 kWp solar array already installed and they wanted to expand system as his bills had not been reduced as expected.

- Default MOP contract in place (metering & procurement)
- Giving power back or exporting power to the system FOC (procurement)
 - Issues with estimated data (metering)
- String fault on inverter identified through simple cross check of inverter totals (energy efficiency)
 - No actual export connection agreement in place with DNO (Self generation)

Exporting power - Should we install a battery?

Many sites will already have some form of renewable technology installed and very often there will be some unused power available. Harnessing this power for use onsite will almost always be preferable to exporting this power back to the grid, but we must consider:

- How much power is available?
- Granular data should always be used for design
 - Future changes to consumption/demand

Export metering

- Under previous schemes such as the Feed in Tariff export was ignored or easily dismissed (3 – 4p p/kWh)
 - Current rates 20 – 30 ppu
- Low cost way to make better use of spare generation that also provides access to data for future decision making

Government Energy price guarantee

Domestic details announced

Variable tariff

The average unit price for dual fuel customers paying by direct debit will be limited to 34.0p/kWh for electricity and 10.3p/kWh for gas, inclusive of VAT, from 1 October.

Fixed tariff

If you're on a fixed tariff at a higher rate caused by recent energy price rises, your unit prices will be reduced by 17p/kWh for electricity and 4.2p/kWh for gas.

Government Energy price guarantee

Providing support to businesses

A new 6 month scheme for businesses and other non-domestic energy users (including charities and public sector organisations like schools) will be offered support as is being provided for consumers. After this initial 6 month scheme, the government will provide ongoing focused support for vulnerable industries.

There will be a review in 3 months' time to consider where this should be targeted to make sure those most in need get support.

For fixed contracts the discount will reflect the difference between the government supported price and the relevant wholesale price for the day the contract was agreed. The government has not yet provided the matrix for these price differences.

For all other flexible buying arrangements the discount will reflect the difference between Government supported price and the relevant wholesale price up to a max of £345 per MW for electric and £91 per MW for gas. **This could be lower support than fixed rate offering**



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