

E.ON UK

Making new energy work: affordable, sustainable, for everyone

Energy Seminar – MT25 Week 2: An energy supplier perspective

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e-on

Chet Lad – career history



centrica



MAYOR OF LONDON



***The UK energy system has
changed a lot in 25 years...***

Let's all meet up in the year 2000...

Number One when I started:



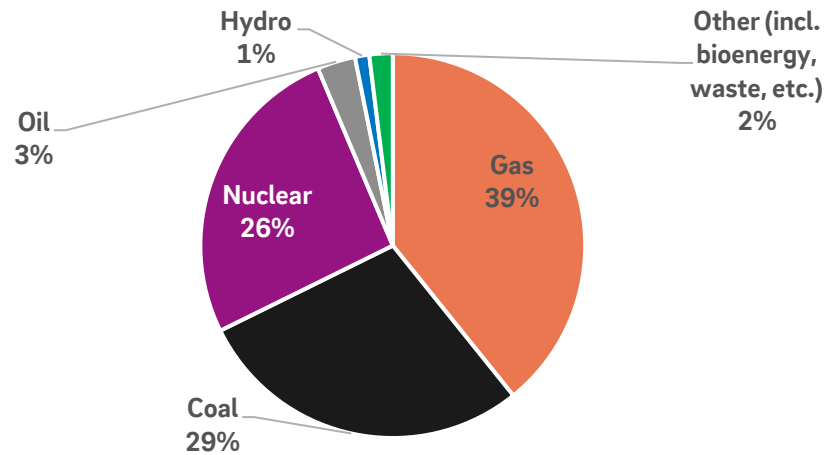
E.ON was then Powergen:



World's first offshore wind – Blyth:



Electricity Generation by source 2000



Very little Solar PV – 4 x as expensive



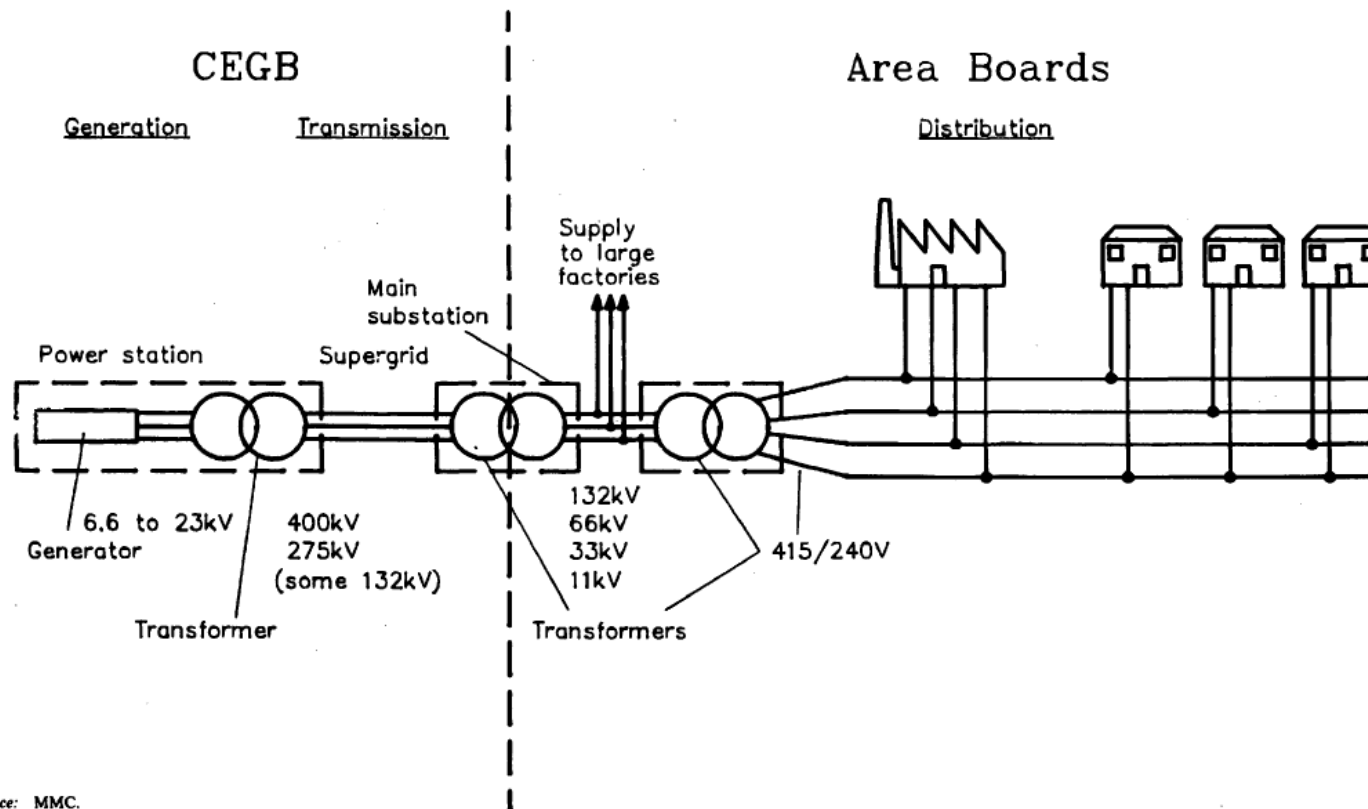
The only EV's were milk floats:



Design intent for over 90 years: big flexible power stations

FIGURE 3.3

How electricity is conveyed from the power station to the consumer



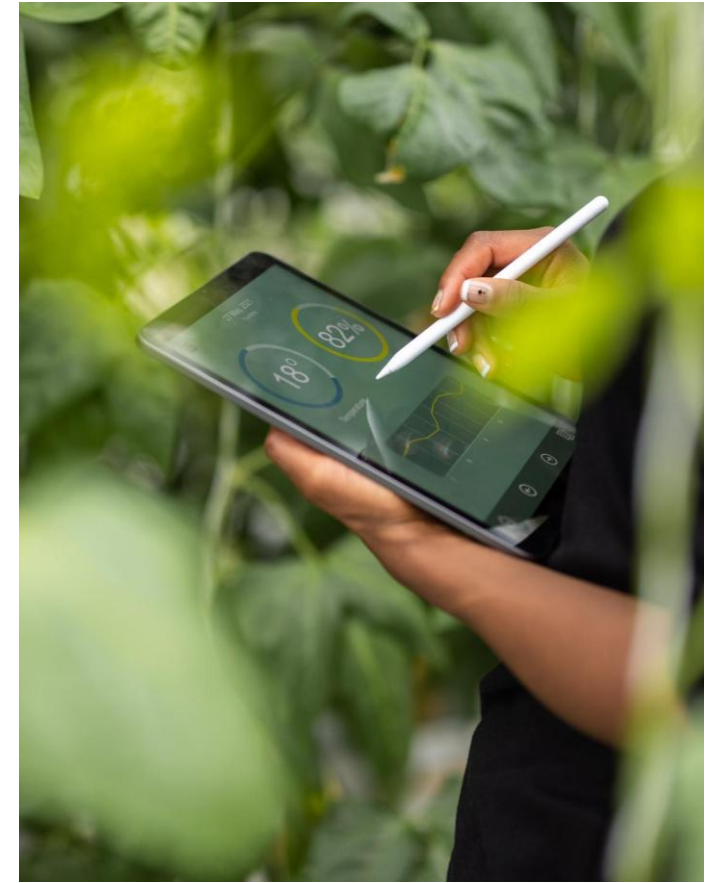
Source: MMC.

A few large flexible power stations

Customers take power whenever they want

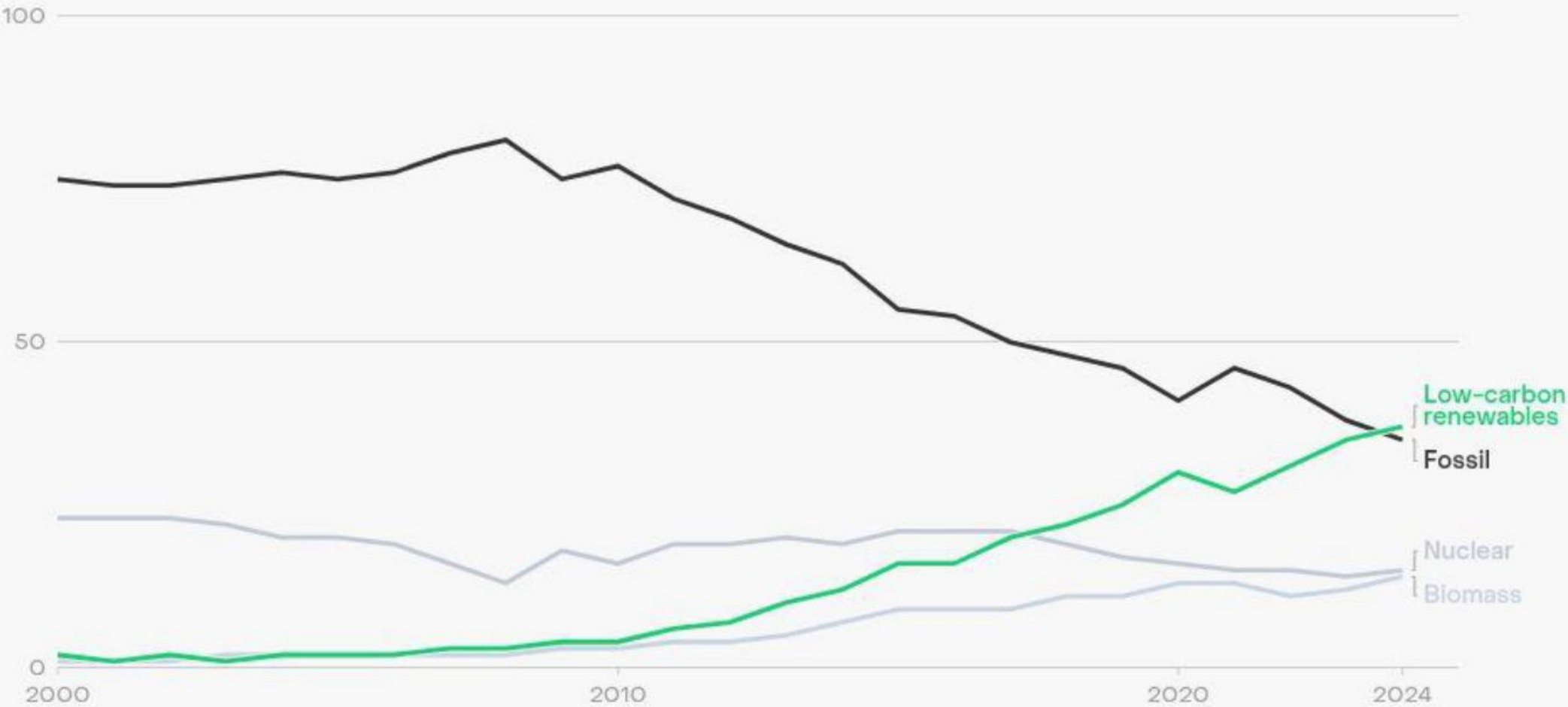
Power flows one way, money the other

The next 25 years will be equally disruptive - a fundamental change is taking place



Low-carbon renewables to generate more power than fossil fuels for the first time in the UK in 2024

Proportion of total generation (%)*



Source: [Yearly electricity data, Ember](#)

'Renewables' includes wind, solar and hydro power.

*Includes actual generation data from January to November and Ember's December forecasts. Projected data is subject to change.

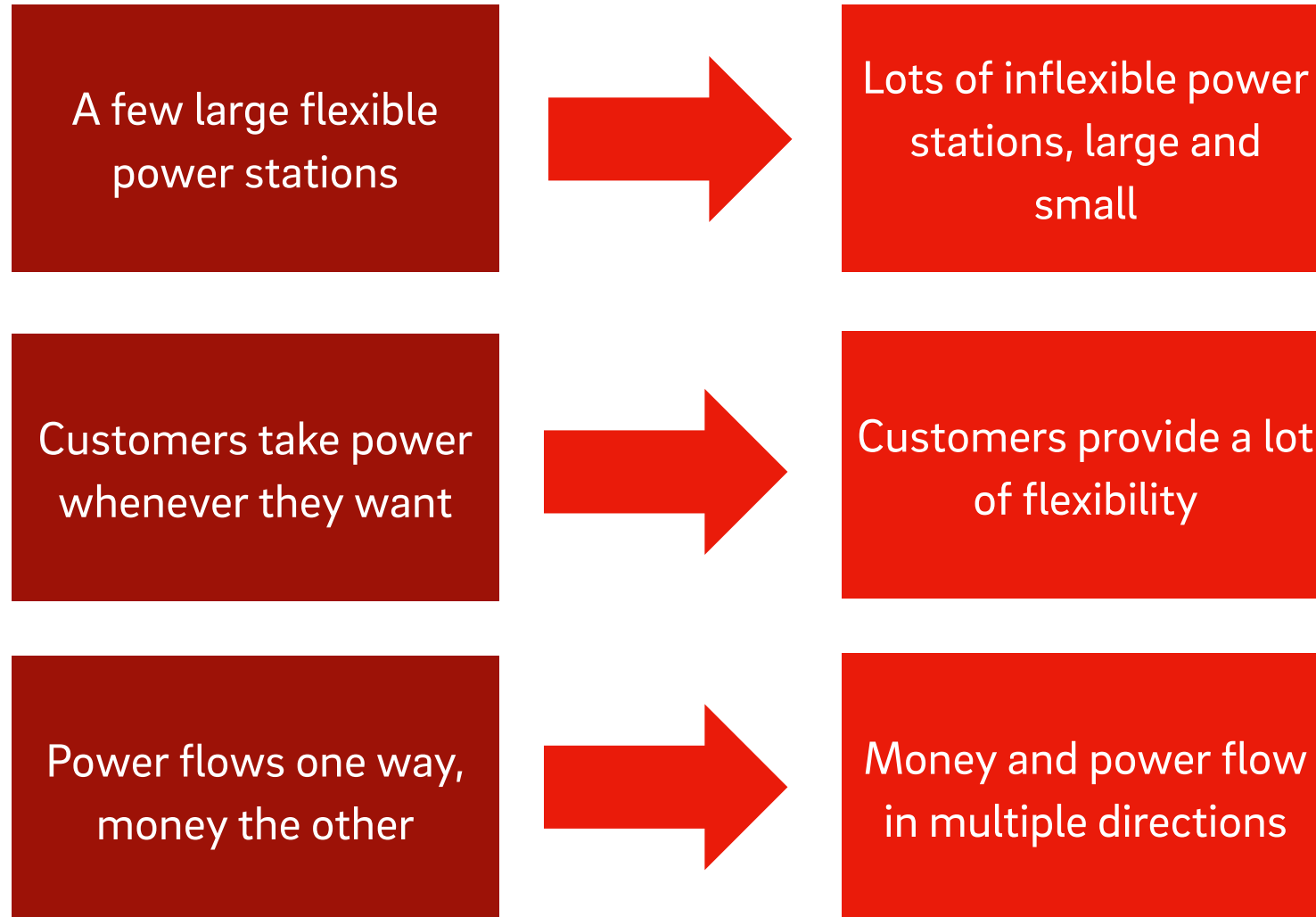
Flexibility

For a power system to work, have to match supply and demand moment to moment

And it's no good having enough power but in the wrong place



A big shift is happening in the energy system



***So how is E.ON making
new energy work?***

We are a part of the E.ON group, a playmaker of the green energy transition in Europe



Energy Networks

We operate the largest energy distribution grid in Europe and are the backbone of the green energy transition with the most critical infrastructure for society



Energy Infrastructure Services

Industries and cities face major energy supply challenges on their way to climate neutrality. We provide infrastructure solutions to support their decarbonization



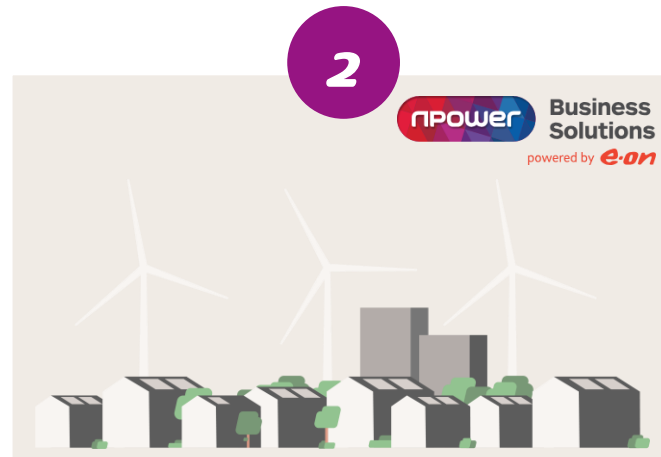
Energy Retail

We are helping millions of private households and enterprises on their individual green pathway to a net-zero future, providing energy to 47m customers across Europe

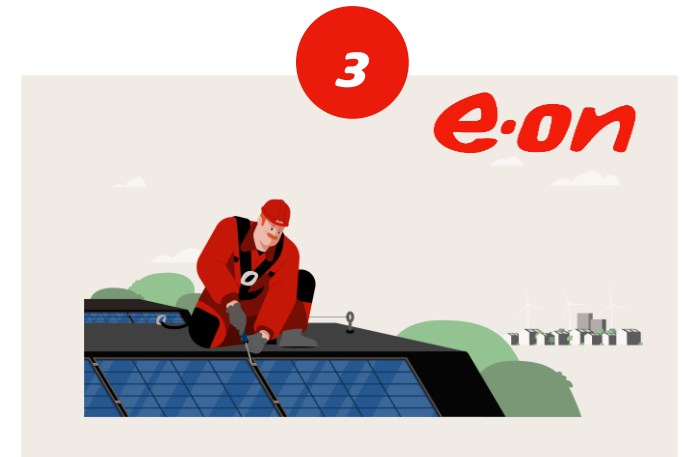
We provide energy services to a diverse group of UK customers through three businesses



Energy and solutions for homes and small businesses



Energy and solutions for large businesses



Energy infrastructure solutions for cities and industry

E.ON is a major player in the UK market



- E.ON UK office locations¹
- Energy Infrastructure Solutions assets

We provide energy to a lot of customers:

5.4m

Residential customers

16% (1 in 6)

Of the residential market

370k

Small & medium business meters

170k

Industrial & commercial meters

...and a lot of energy solutions:

6.5m+

Smart Meters

600km

District heat networks

174 MW

Power generation

330 MW

Grid scale battery pipeline

The trends that I care about as an energy supplier...

Electricity replaces
gas for heating

Power system will
double in size

Go from a few
hundred active
participants in
energy system to
millions

No longer any such
thing as an average
customer

Affordability – not
just capping prices,
about enabling flex
value

Electricity replaces
petrol for cars

Go from a few large
flexible power
stations to lots of
inflexible power
stations, large and
small

Customers become
big source of
flexibility

Customers with
right technology
will earn money
from flex

If you can't help
customers access
flex value, lose
them to someone
who can

Move to a green
power system

Making new energy work: affordable, sustainable, for everyone

1

Solve energy system problems through innovative solutions and products

2

Provide access to these solutions to underserved groups

3

Create value for the whole energy system which can be shared, lowering bills

Innovating for Equity - Supporting Coventry's Low- Income Households

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Supporting vulnerable households while easing peak demand on the grid

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Cleaner, fairer energy for all,
accelerating solar energy
rollout to UK flats

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allume

e-on
next

E.ON News | E.ON invests £4 million in Allume Energy to bring cleaner, more affordable energy to UK flats

Making low carbon technology more accessible

Next Gen Home.



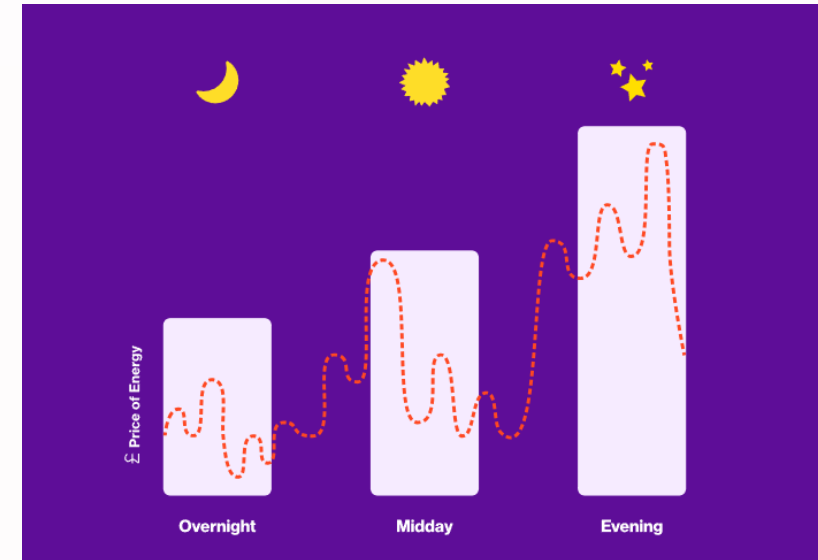
Next Gen Home offers customers a modular, all-inclusive energy package to help lower the cost-barrier of low carbon technologies

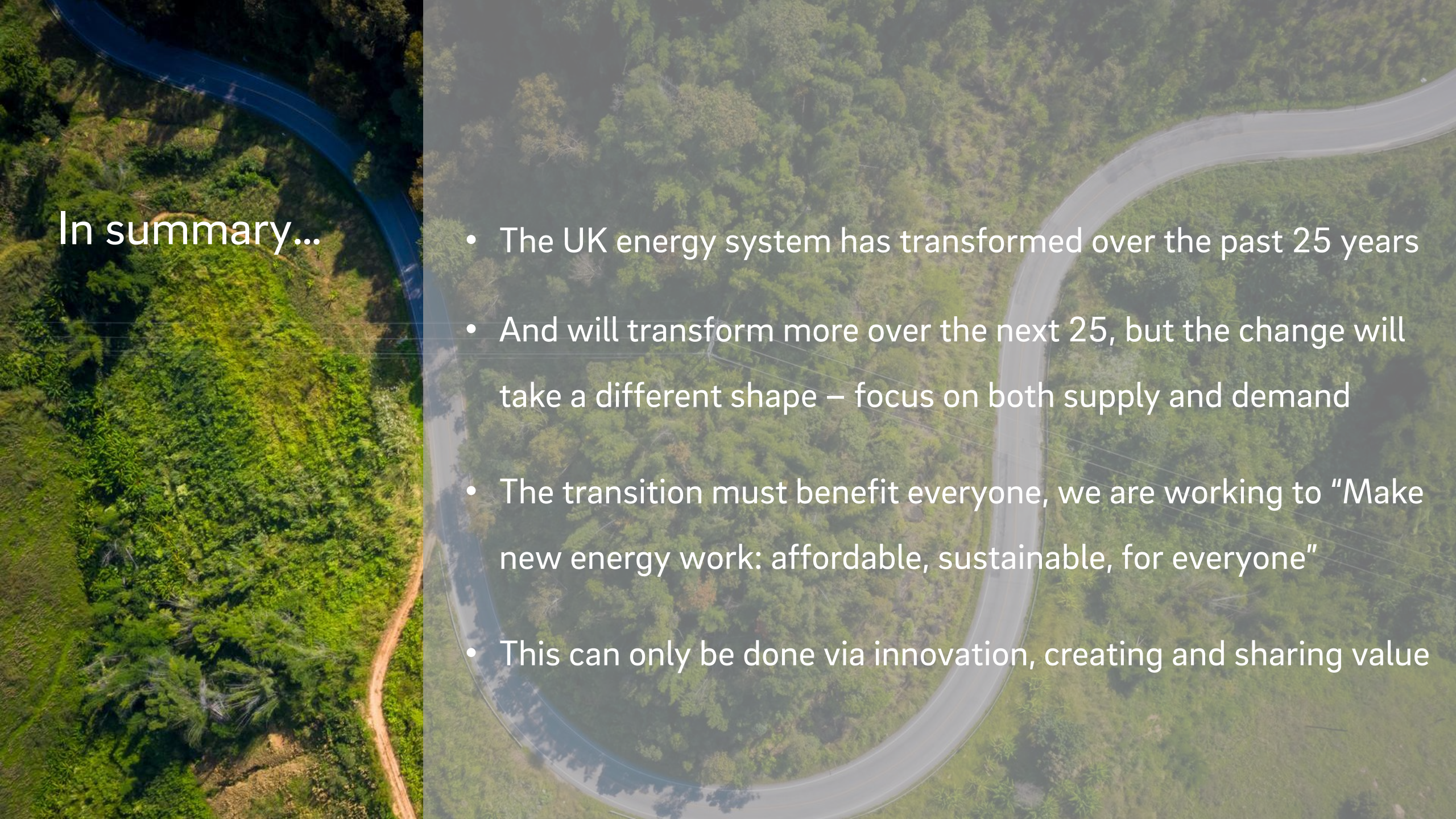
The pilot scheme enables homeowners to benefit from solar panels, batteries, heat pumps and EV chargers, heat pump servicing, and energy, all for a fixed monthly fee

Energy that works for you - not the other way around

Experience smarter electricity with our Next Solar Max tariff. It gives you prices reflective of the wholesale half hourly electricity prices and, with a hand from the Next Solar Max app, automatically optimises your solar and battery setup.

Through advanced AI and machine learning, the app intelligently manages your energy use and export, tailoring electricity to your home's needs.



An aerial photograph of a winding asphalt road that curves through a dense, vibrant green forest. The road is dark grey and contrasts with the bright green foliage. The forest appears to be a mix of deciduous and coniferous trees. The lighting suggests a sunny day, with some shadows visible on the road and the forest floor.

In summary...

- The UK energy system has transformed over the past 25 years
- And will transform more over the next 25, but the change will take a different shape – focus on both supply and demand
- The transition must benefit everyone, we are working to “Make new energy work: affordable, sustainable, for everyone”
- This can only be done via innovation, creating and sharing value

Thank you!

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