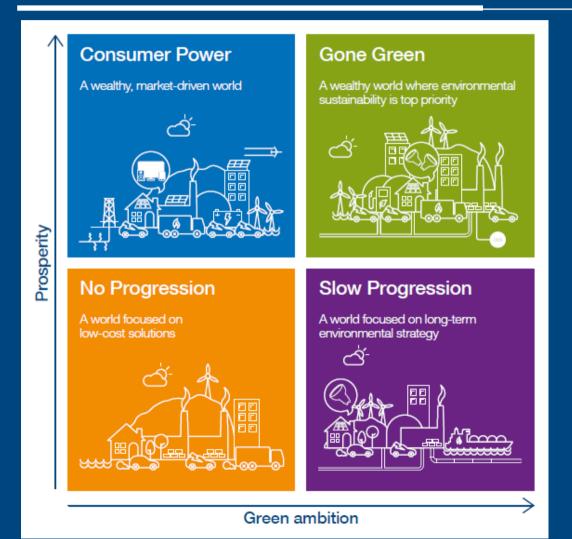
## **Future Energy Scenarios 2016**

# **Demand Overview**Orlando Elmhirst Rob Nickerson





### Scenarios and key messages



Traditional sources of energy supply are being replaced with an ever-divergent mix.



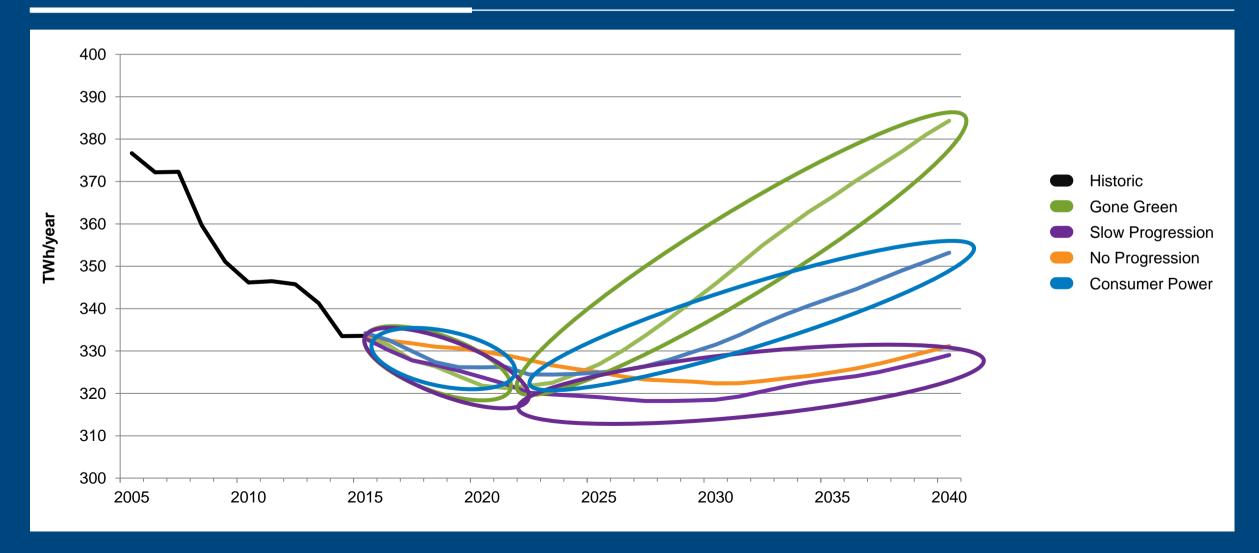
Significant progress needed in heat and transport to meet 2020 renewable energy target.



Gas with CCS and biogas will play an essential role in cost-effective energy decarbonisation.

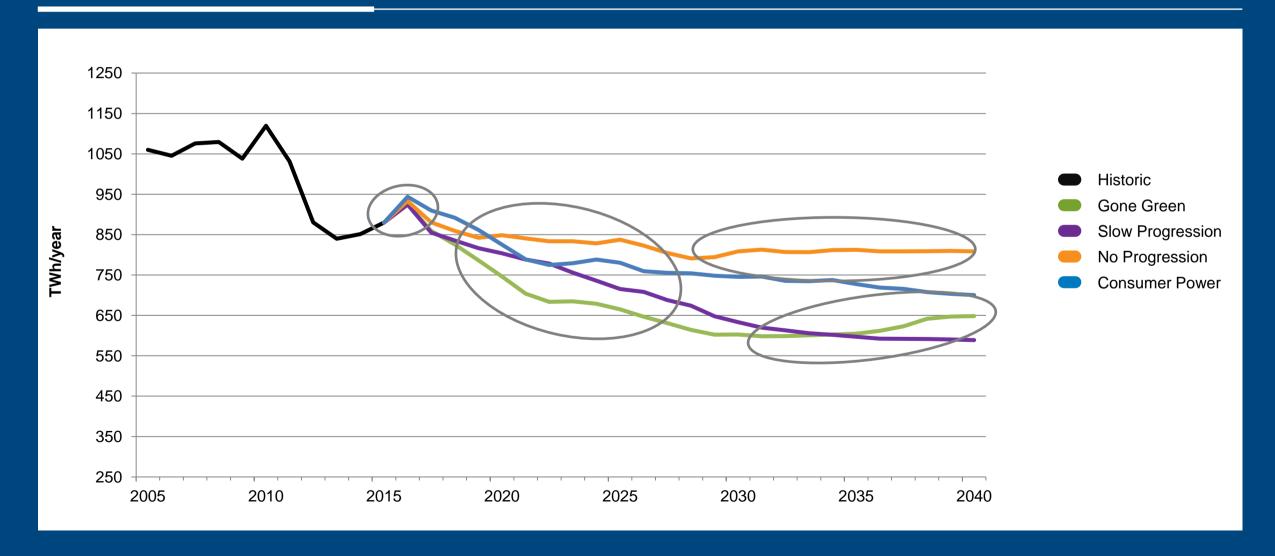


## **Annual electricity demand**

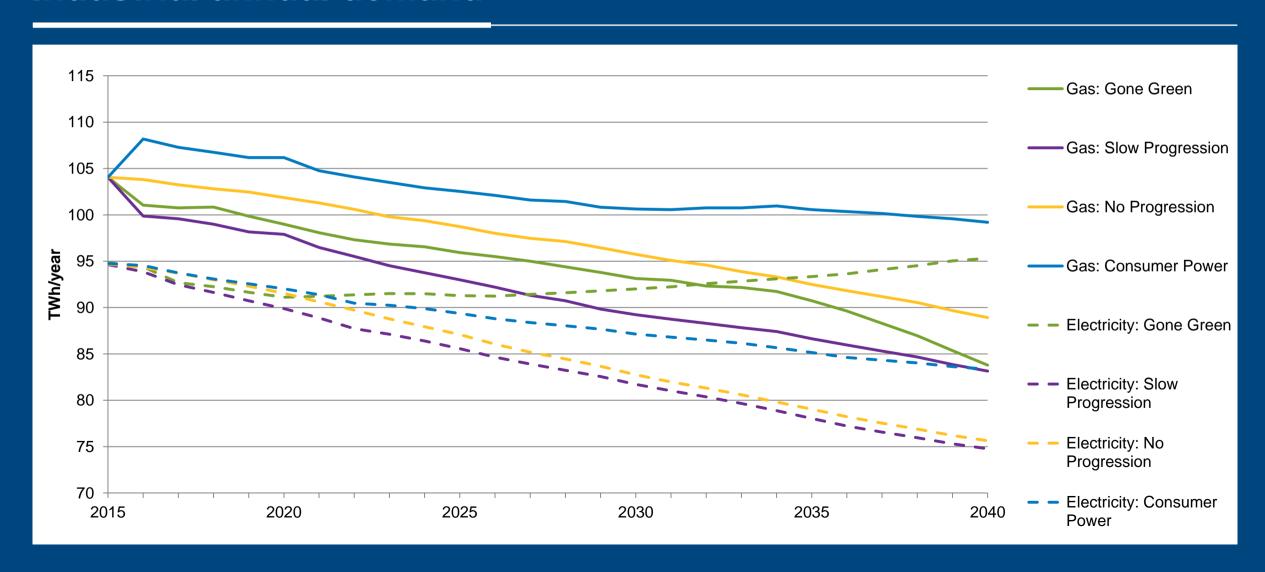




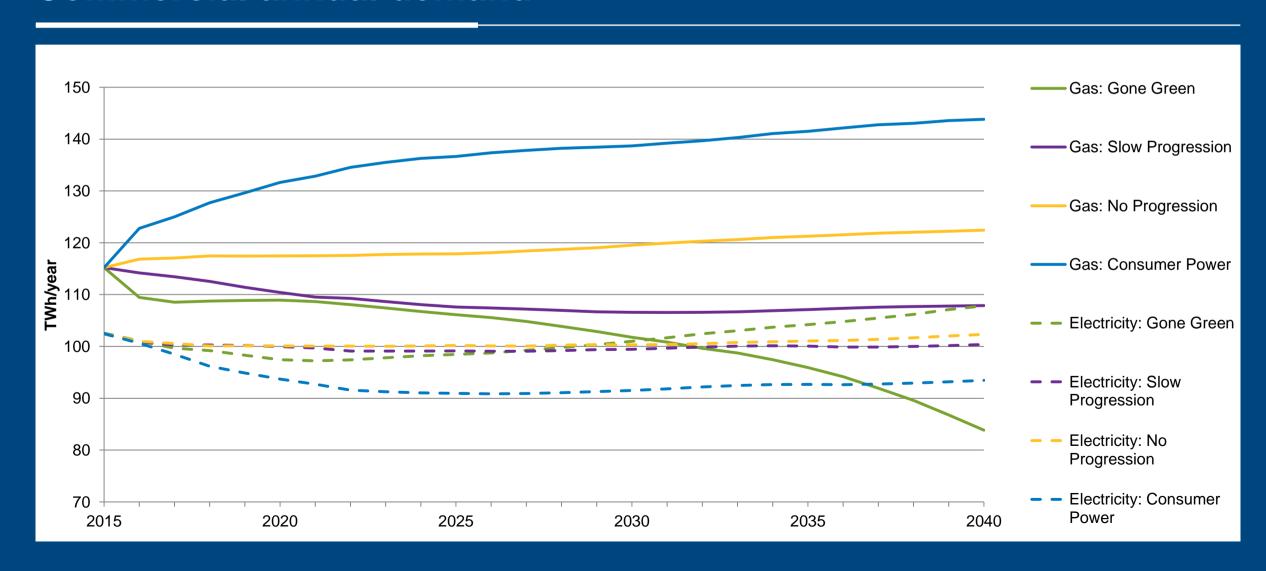
## **Annual gas demand**



#### **Industrial annual demand**



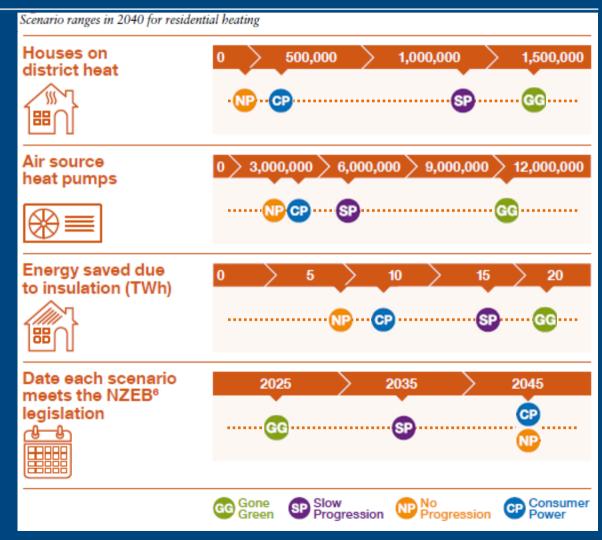
#### **Commercial annual demand**





#### **Residential demand**

- Residential demand represents the largest single portion of gas demand and a third of electricity demand.
- Heating our homes accounts for 40% of gas and 8% of electricity use.
- Gas boilers are installed in around 90% of homes.
- Solid wall insulation provides the greatest potential savings from insulation (as loft and cavity wall insulation reaches saturation) but is the most expensive.



## Poll 1



## How bound to European energy and environmental targets do you think the UK will be, post Brexit?

a. Fully (6%)

b. Mostly (44%)

c. Few (19%)

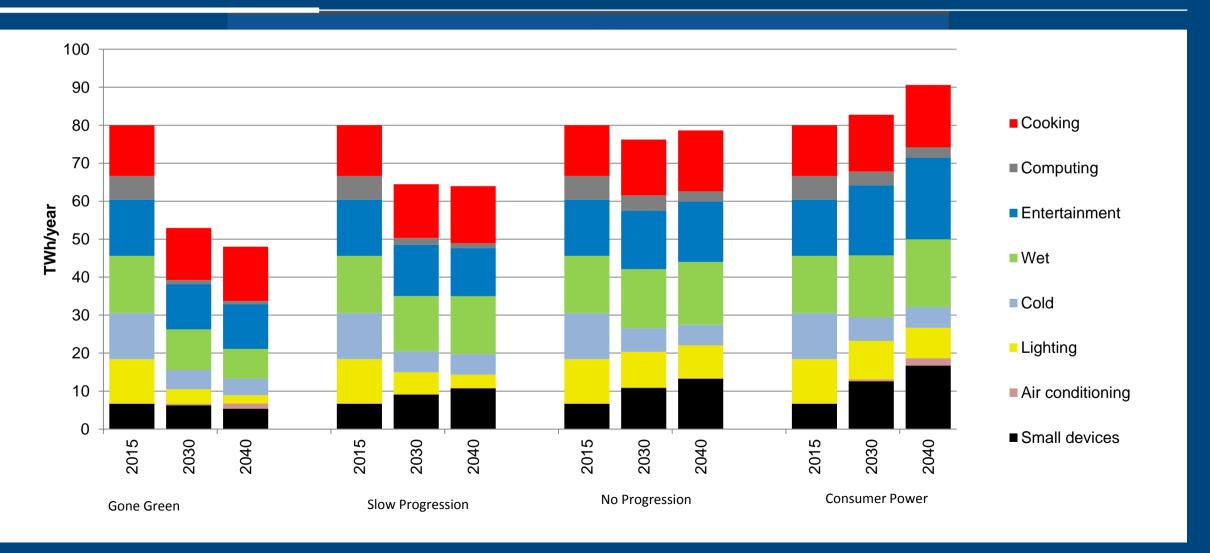
d. Not at all (8%)

No answer (23%)





## Annual demands for electrical appliances







#### Poll 2

## Future webinars you would like us to cover within the Energy Demand Team?

a.	Industria	and comme	rcial (1	14%)
				, , , , , , , , , , , , , , , , , , , ,

b. Residential (5%)

c. Appliances (0%)

d. Flexible responses (39%)

e. Transport (8%)

f. Heating and insulation (2%)

g. District heating (7%)

No answer (25%)



## **Upcoming events**

Webinars	Register now
Electricity supply	19 <sup>th</sup> July 12-1
Gas supply	27 <sup>th</sup> July 10-11
Pathways towards a 2050 future	29 <sup>th</sup> July 10-11

Workshops	More information to follow
Edinburgh	3 <sup>rd</sup> Oct
Warwick	11 <sup>th</sup> Oct
Cardiff	13 <sup>th</sup> Oct
London	19 <sup>th</sup> Oct

Download the 2016 FES and FES in 5: <a href="http://fes.nationalgrid.com/">http://fes.nationalgrid.com/</a>

## **Future Energy Scenarios 2016: Queries...**

Box.Transmission.UKFES@nationalgrid.com



## **Electricity peak demand**

