

# We develop scenarios that affect & inform national grid how important decisions are made

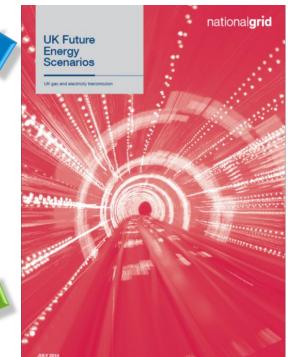
## **Development of transmission systems**



#### **European developments**







## Supply & demand for the year ahead







## Security of supply & decarbonisation







## We follow an annual cycle of scenario development

#### **Your Views**

Our stakeholder engagement allows us to listen to your views, which are vital to our outputs. They drive our processes and inform both our scenarios and our consultation process.



#### **Axioms**

An axiom is a premise or starting point of reasoning. The axioms that we produce are a reflection pf the stakeholder feedback that we receive through our consultation process.

These axioms influence our modelling.





The scenarios are the end result and a vision of the future that stakeholders have informed. The publication of the Future Energy Scenarios document marks the start of our annual process and the continuation of our stakeholder consultation.



#### **Modelling**

Once our axioms have been defined, they underpin our detailed modelling and drive our specific electricity and gas, demand and supply scenarios.

## nationalgrid

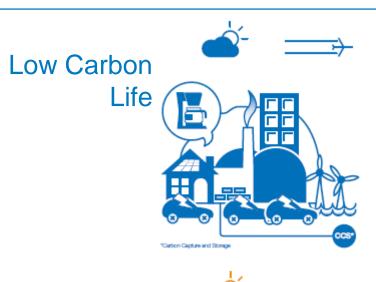
#### What do the 2014 scenarios look like?



Affordability
More money

**Affordability** Less money











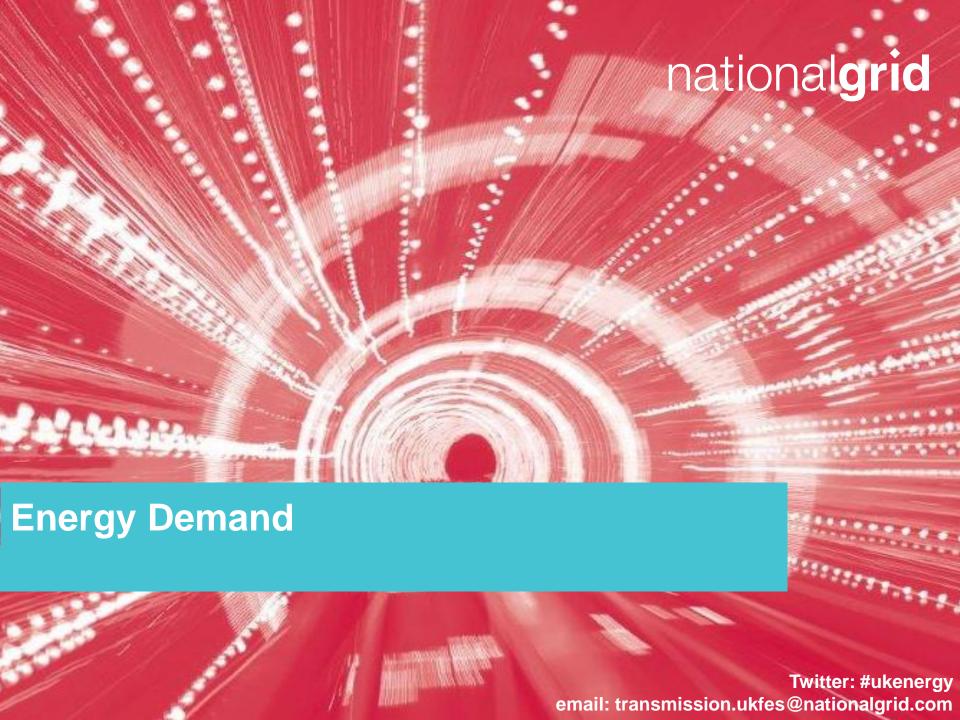


Slow Progression



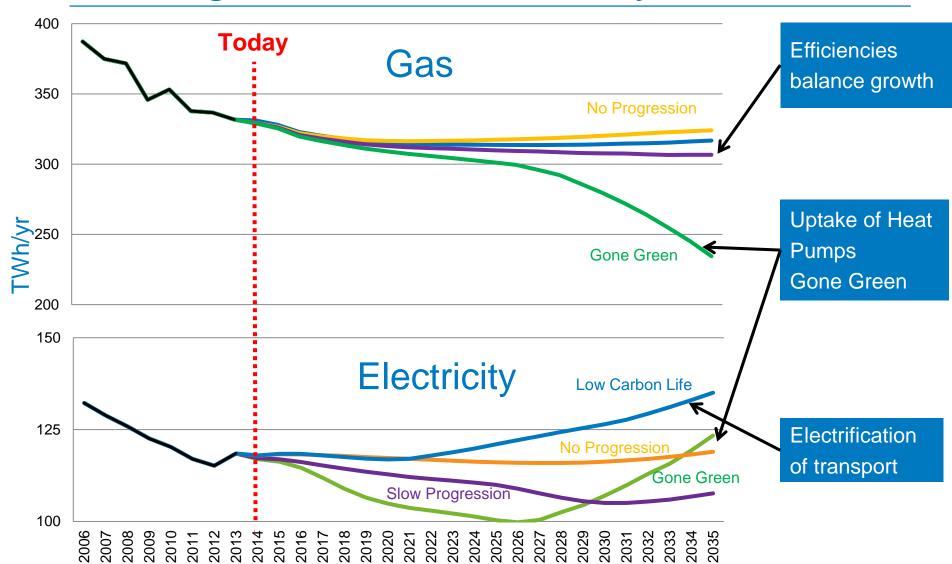






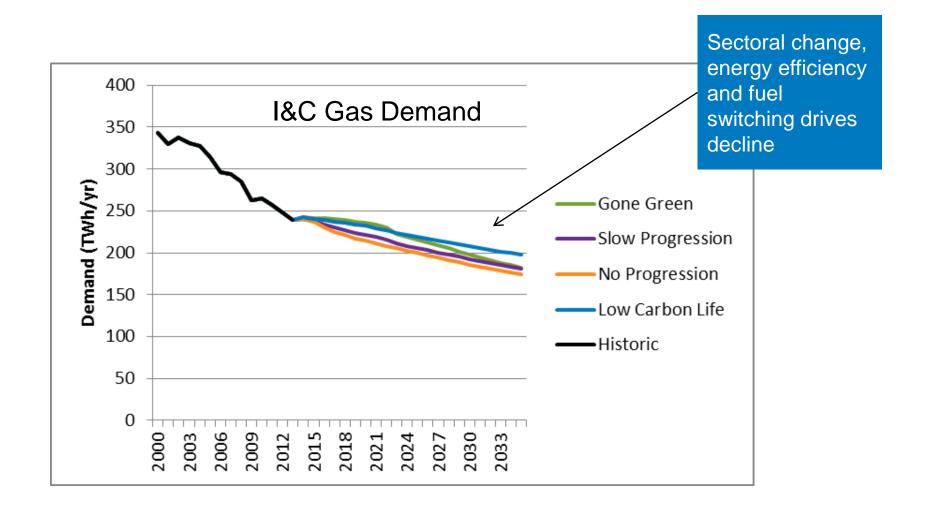
## nationalgrid

## Residential energy for gas is stable to 2020, range of outcomes for electricity is wider

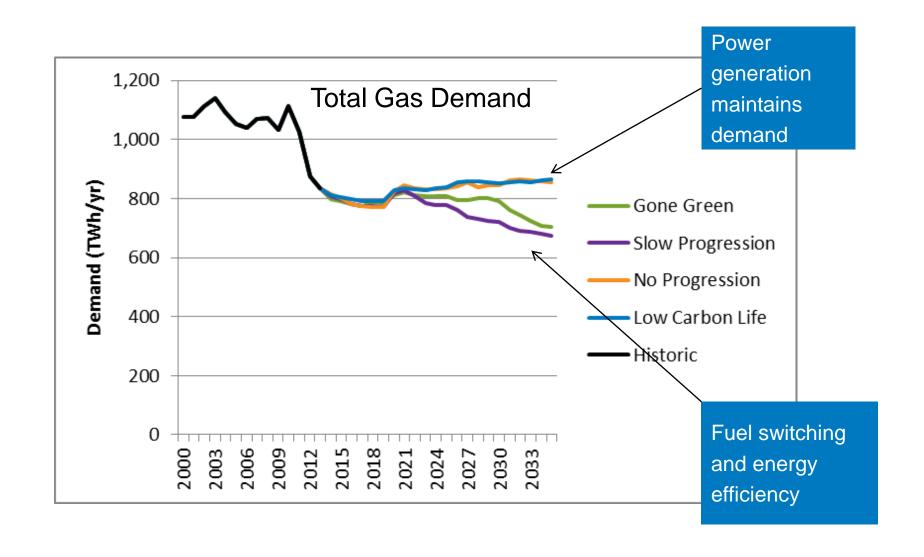




## Industrial & Commercial gas demand continues to decline

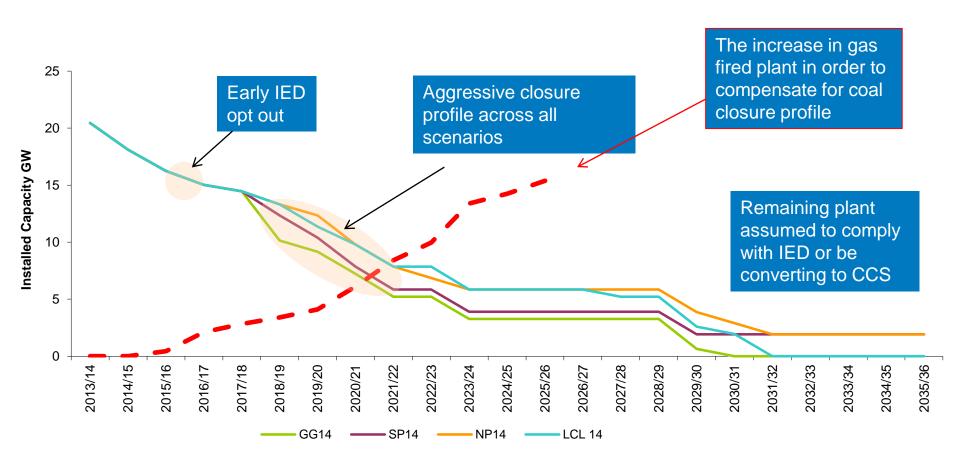


## Gas demand falls in the greener scenarios national grid and plateaus in the other two

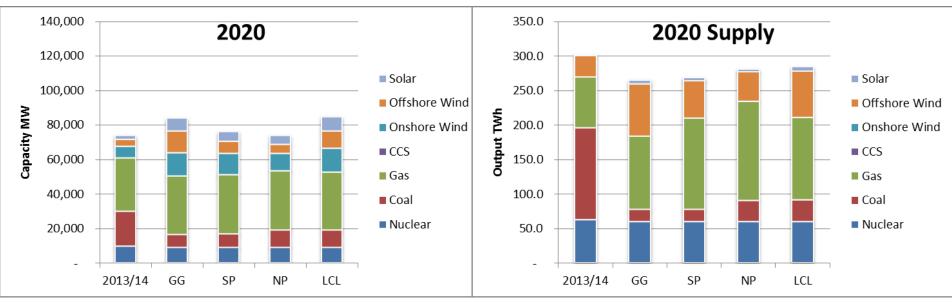




# In all our scenarios we expect coal to national grid reduce rapidly, and gas to initially fill the gap



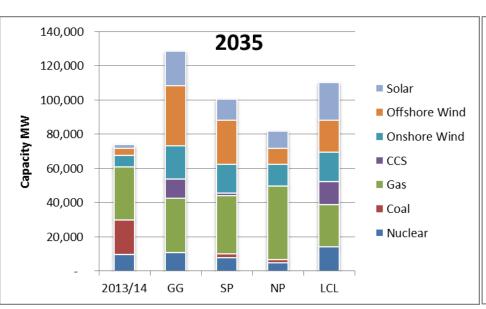
# By 2020 Gas will be the dominant generation fuel, with wind and solar more national grid prevalent in the wealthier scenarios

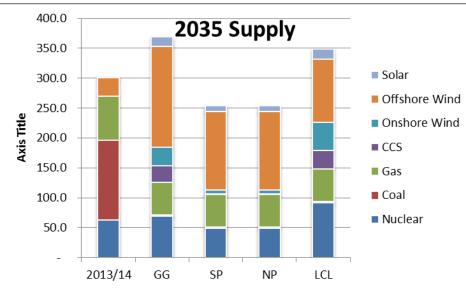


Generation scenarios

Gas capacity and usage increases across all scenarios

# By 2035 we have a much wider range, with national grid CCS for gas in the greener scenarios



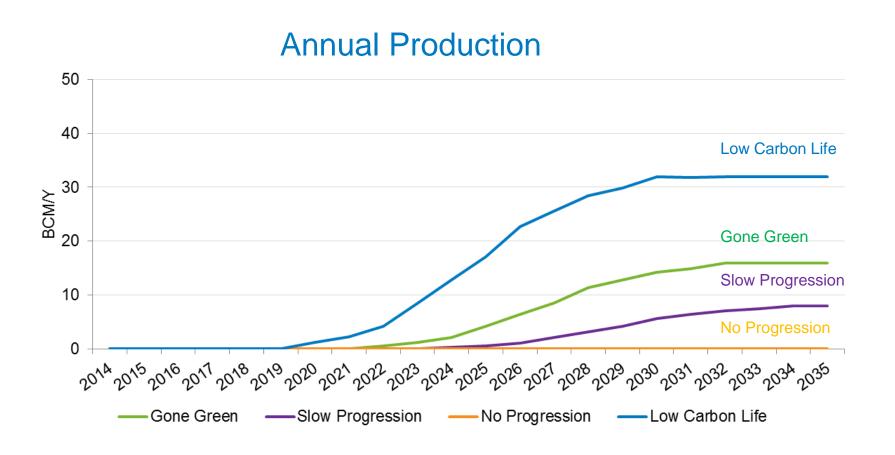


Generation scenarios

Gas capacity retained but annual usage changes



## Due to the large amount of uncertainty national grid around Shale production we have a broad range





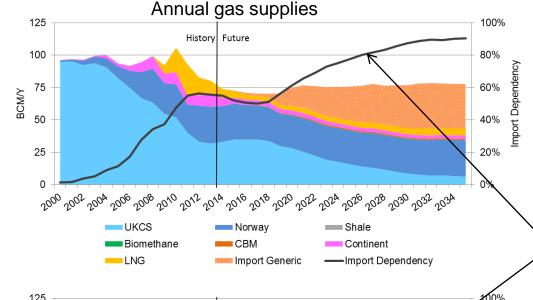
**Import** 

dependency

## Shale has the potential to significantly impact import dependency

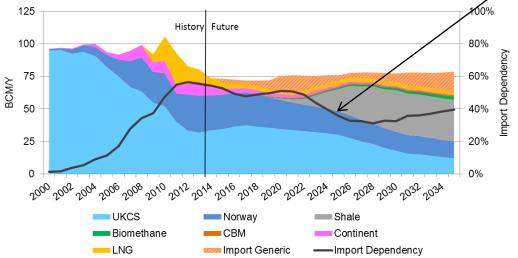


### No Progression





Low Carbon Life





## **Summary**

Broad range of plausible and credible scenarios to capture uncertainty

Demand for gas is expected to plateau or fall

However, gas still has an important role in both heat and power out to 2035

Shale could have a big impact on import dependency



## Issues for the coming winter?

Demand expected to be very similar to last year

Gas supply position secure

Diverse supply

Storage well stocked

Impact of Russian gas curtailment low

