

# Winter Outlook 2011/12



Ofgem Winter Outlook Seminar  
27<sup>th</sup> September 2011  
Chris Train - Network Operations Director

## Winter Outlook 2011/12 Timeline

---

- Winter Outlook Consultation – Published 7th July
- Consultation Responses – Received 19<sup>th</sup> August
  - 3 Consultation responses received
- Ofgem Winter Outlook Seminar – 27<sup>th</sup> September
- Winter Outlook Report – Published w/c 3<sup>rd</sup> October

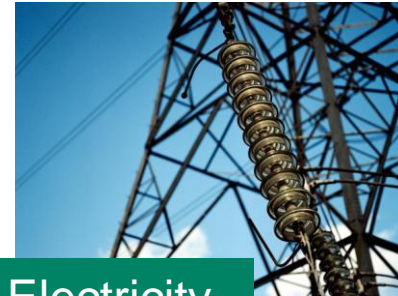
# Winter Outlook 2011/12



Prices



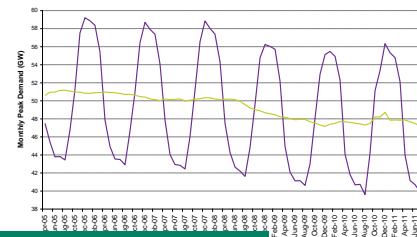
Gas



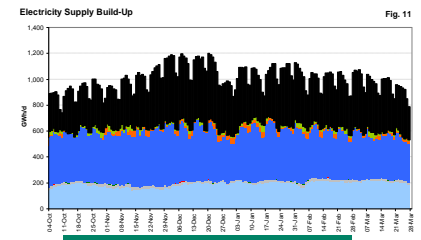
Electricity



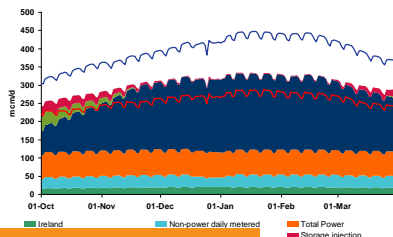
Gas vs Coal for Power



Demands



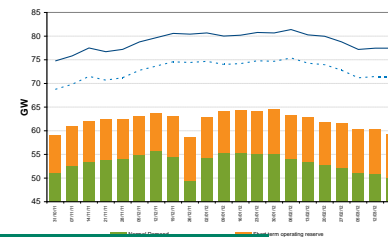
Generation



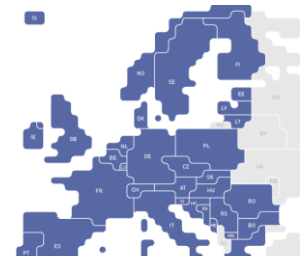
Demands



Supplies & LNG

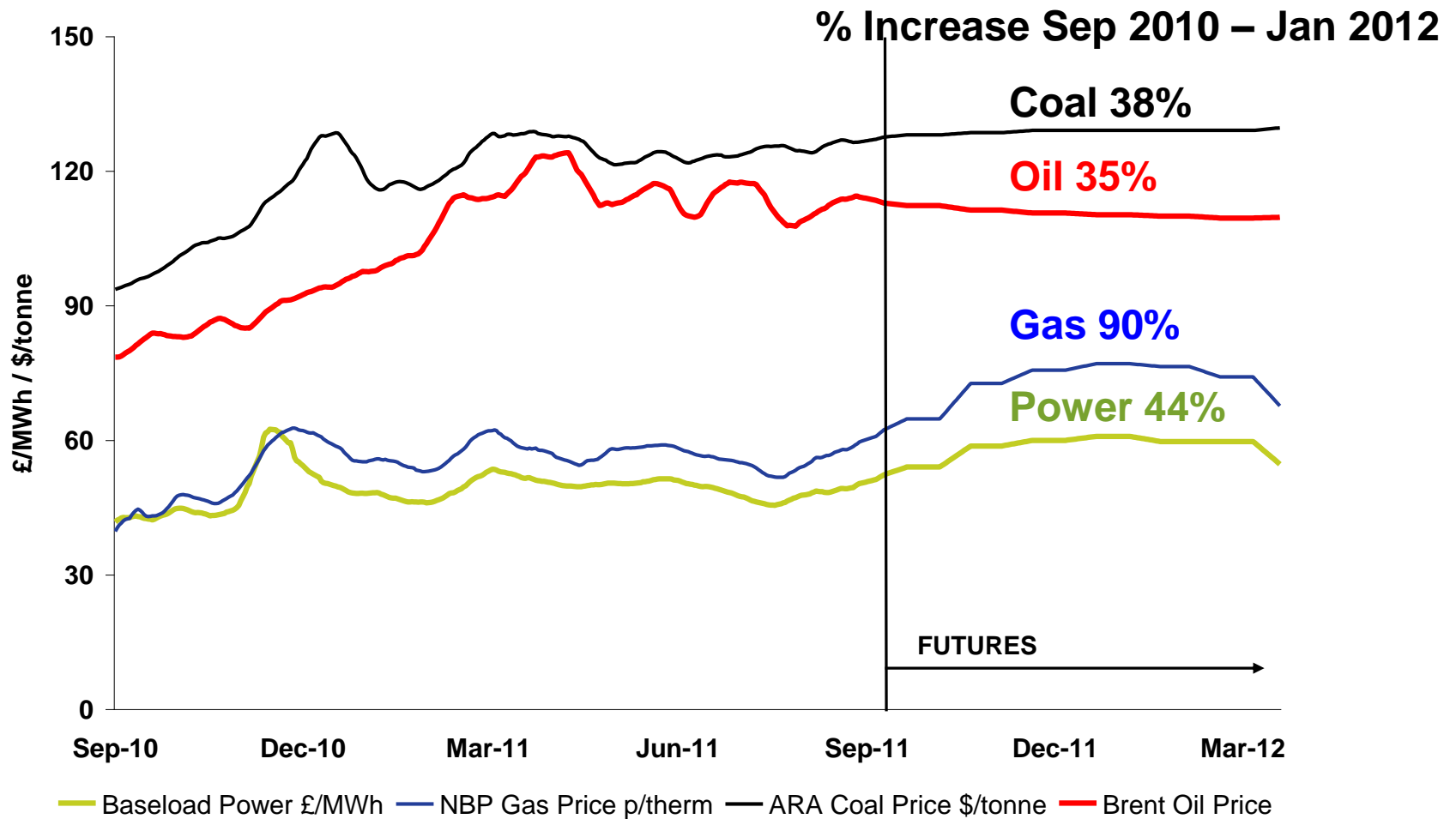


Surpluses

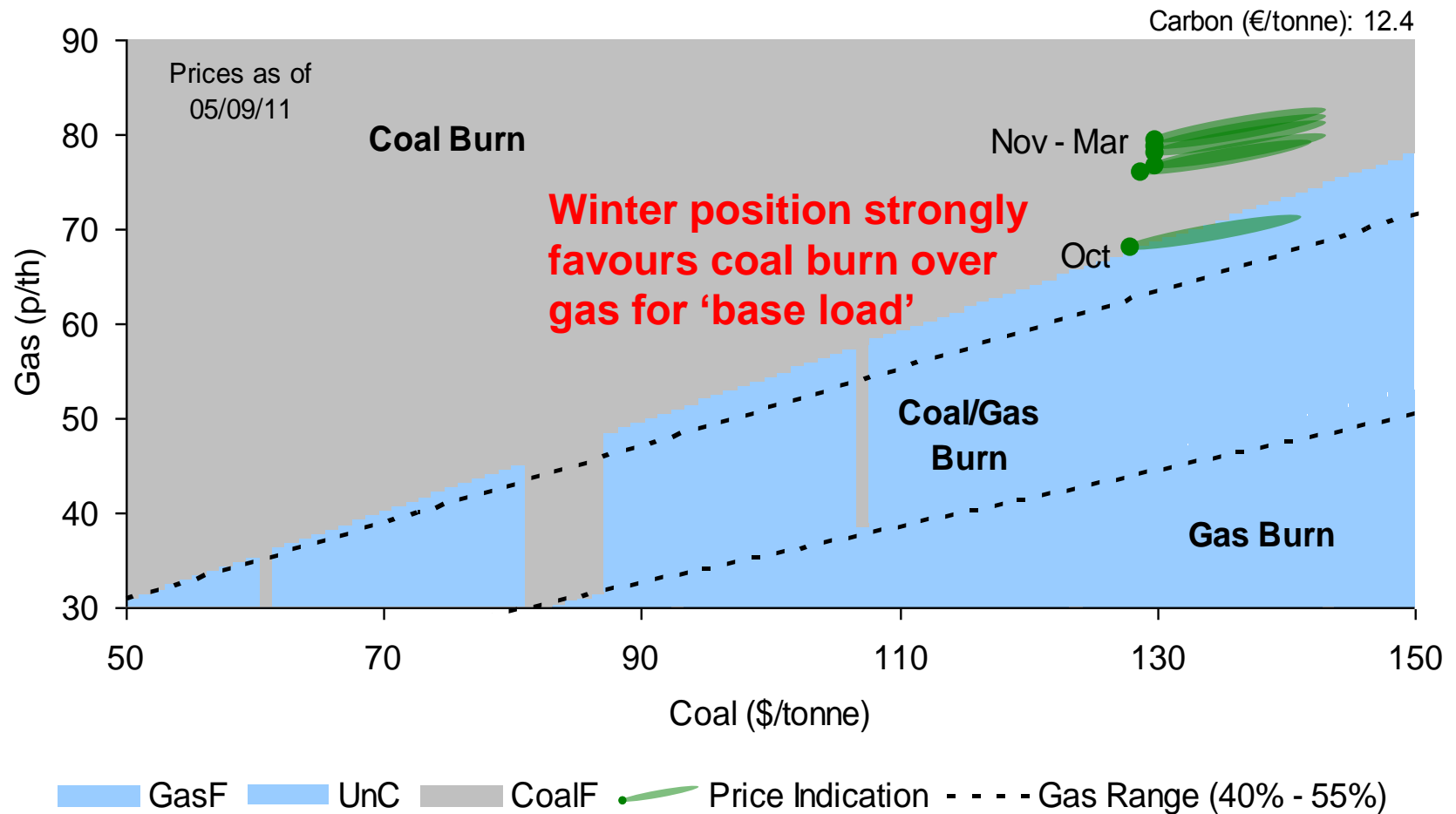


Europe

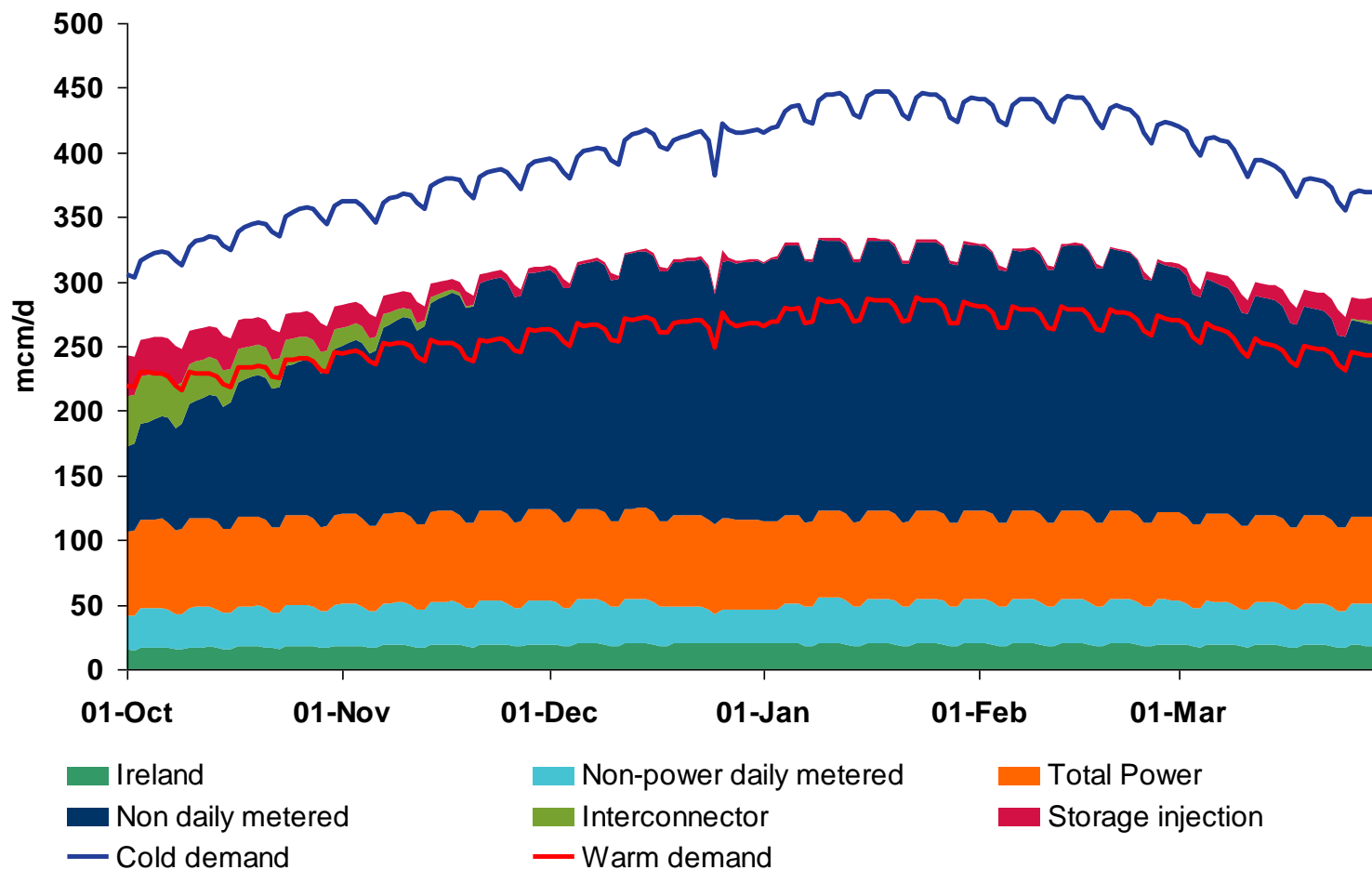
# Gas - Fuel Prices



# Gas – Relative Power Economics



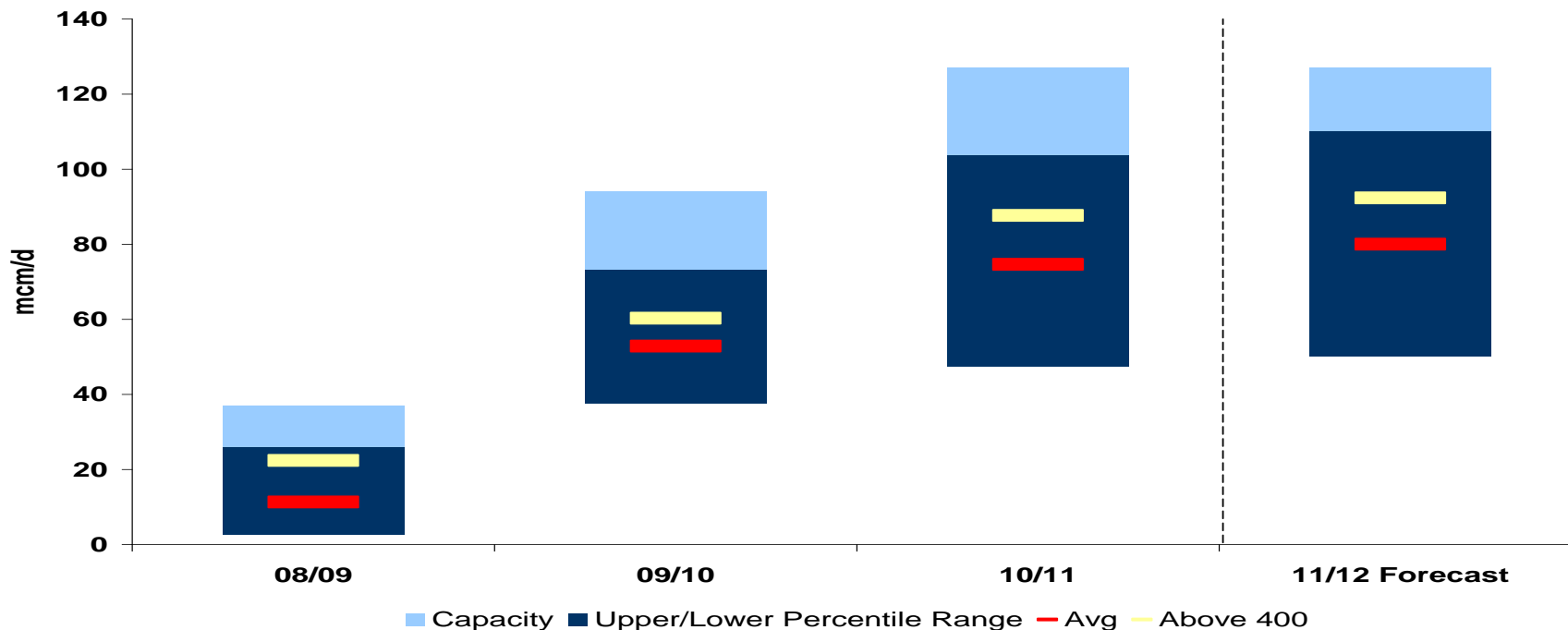
# Gas - 2011/12 Demand



## Gas - 2011/12 Supplies

(mcm/d)	2010/11 Range	2010/11 Base Case	2011/12 Range	2011/12 Dec – Feb	2011/12 400+
UKCS	154	154	106 – 132	119	125
Norway	86 – 116	101	70 – 118	96	105
BBL	30	30	24 – 36	30	32
IUK	30 – 0	20	0 – 30	8	20
LNG Imports	30 – 100	77	50 – 110	80	92
Total	342 – 412	382	250 – 426	333	374
Storage	108	108	2 – 74	36	65
<b>Total inc. Storage</b>	<b>450 - 520</b>	<b>490</b>	<b>252 - 500</b>	<b>369</b>	<b>439</b>

# 2011/12 LNG Forecast

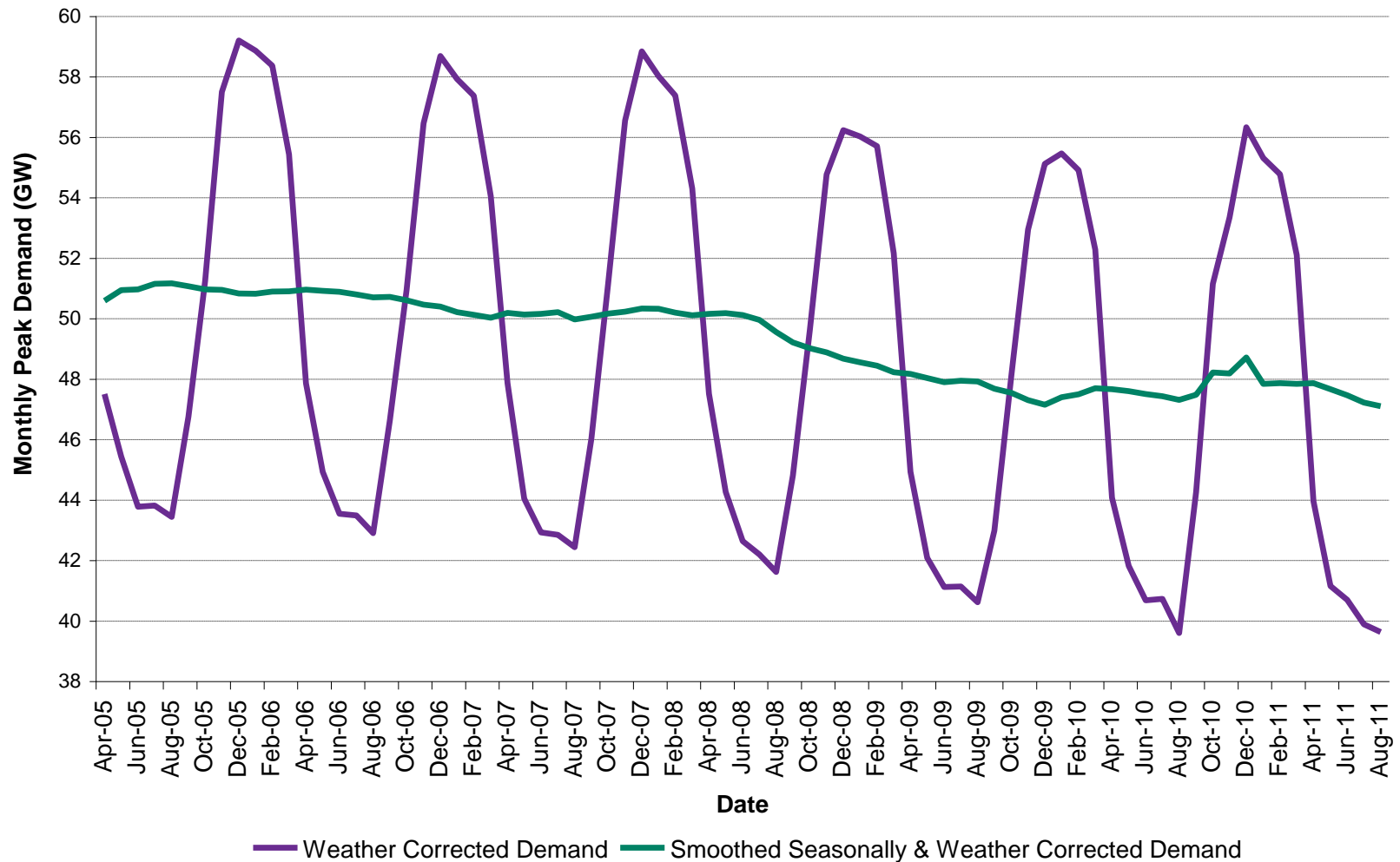


Higher Imports	Lower Imports
Increased global LNG production	Higher global LNG demand
Lower LNG demand in Spain	Increased LNG demand in Japan
UK gas prices higher than US	UK gas prices lower than Far East
Increased gas supply to Germany (Nord Stream)	Increased gas demand in Germany (Nuclear )
	Commencement of Gate LNG



# Electricity - Demand Forecast

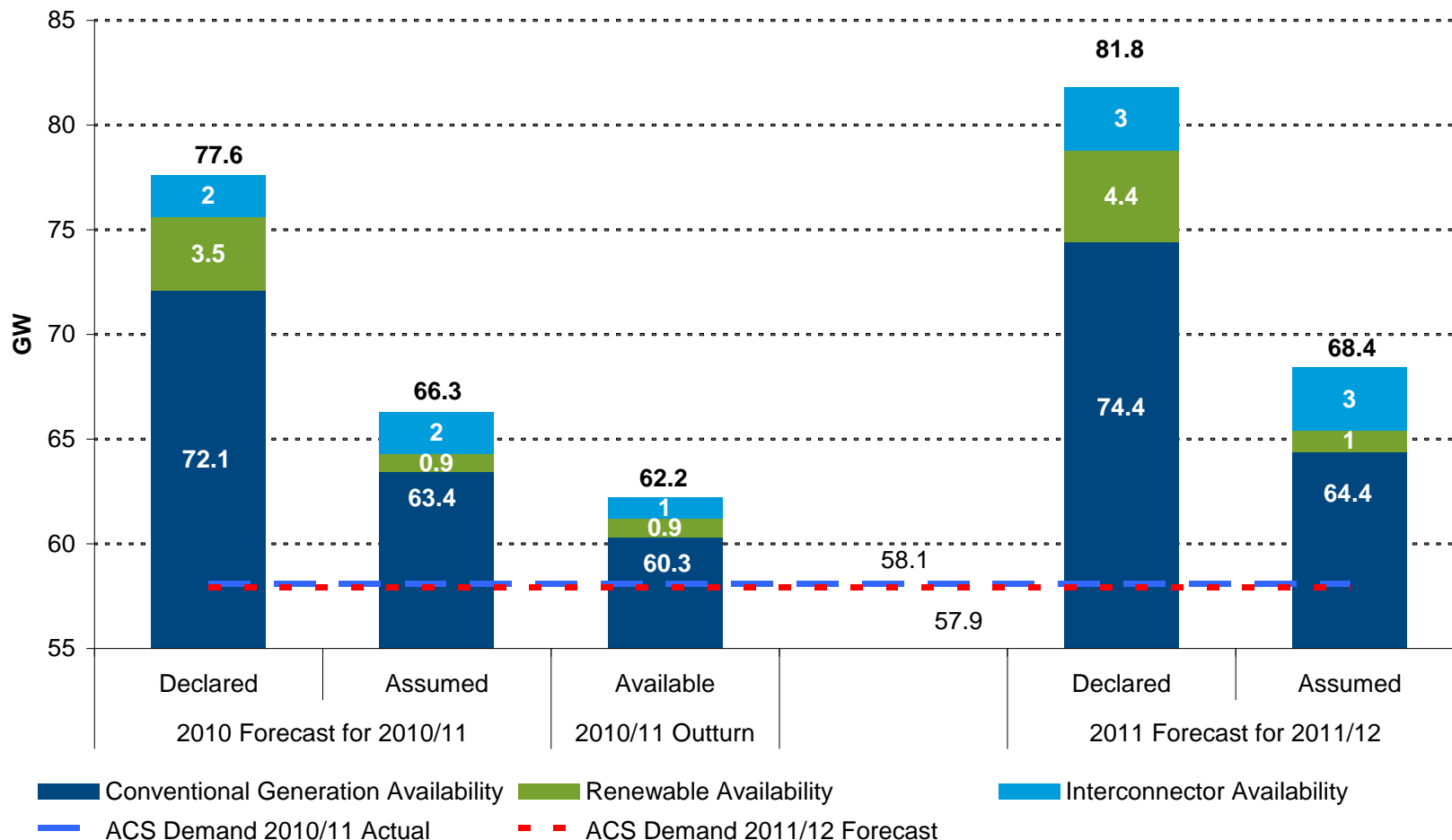
## Uncertainty has Increased



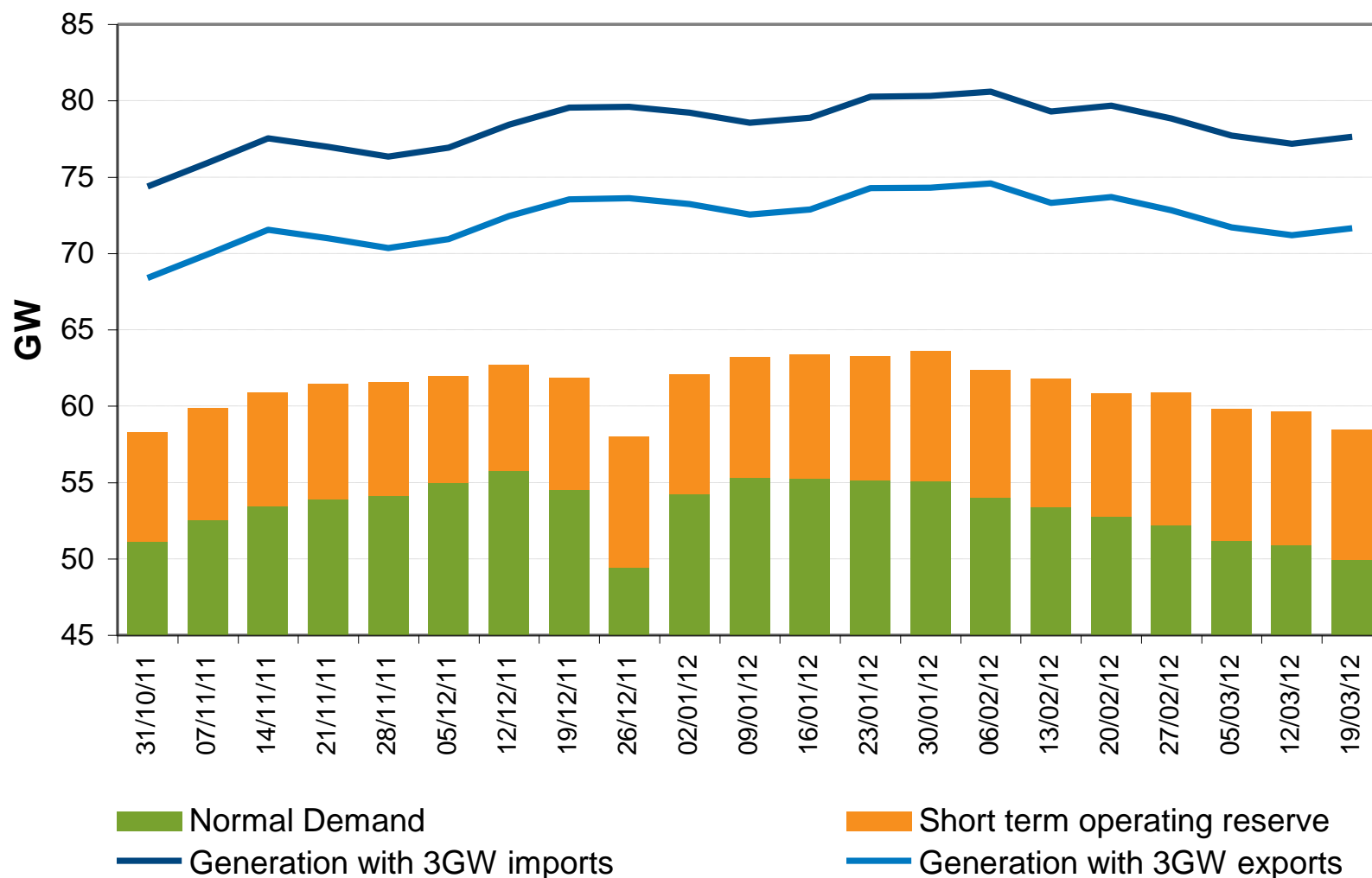
# Electricity - Assumed Availability

Power Station Type	Full Metered Capacity (GW)	Assumed Availability	Assumed Availability (GW)
Nuclear	9.8 ↓	83% ↑	8.1 ↑
Interconnectors	3.0 ↑	100% —	3.0 ↑
Hydro generation	1.0 —	70% ↑	0.7 ↑
Wind generation	3.4 ↑	8% ↓	0.3 —
Coal	28.0 ↓	86% ↓	24.1 ↓
Oil	3.4 ↑	70% ↓	2.4 ↑
Pumped storage	2.7 —	96% —	2.7 —
OCGT	1.2 —	90% ↑	1.1 ↑
CCGT	29.3 ↑	89% —	26 ↑
<b>Total</b>	<b>81.7 ↑</b>		<b>68 ↑</b>
<b>Overall availability</b>		<b>84% ↓</b>	

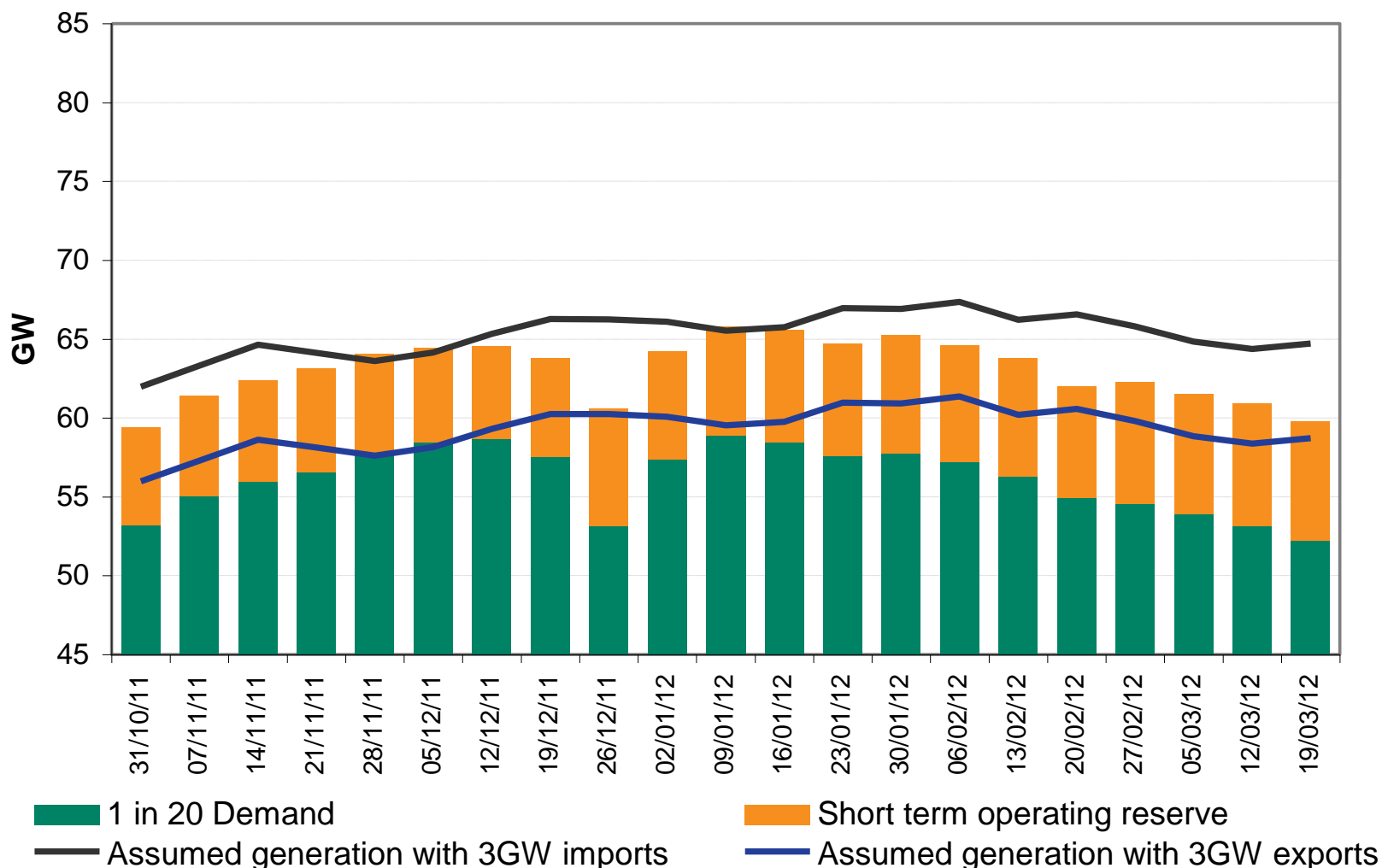
# Electricity – Generation and Demand Forecasts and Outturns



# Electricity - Normal Demand and Notified Generation Availability



# Electricity - 1 in 20 Demand and Assumed Generation Availability



# Winter Outlook 2011/12 - Summary

---

## ■ Gas

- Forward winter fuel prices strongly favour coal to be base load generation. This provides a potential upside to gas demand
- Weather corrected gas demand forecast to be similar to last winter, though peak demand forecast is lower due to power generation assumptions
- Forecast non storage supplies are similar to last winter with lower UKCS being offset by more LNG, albeit LNG supplies are subject to some reservations
- Storage levels similar to last winter, but should increase within winter when new facilities are commissioned

## ■ Electricity

- Average Cold Spell Demand forecast is very close to last year
- Notified and Assumed Generation availability is close to last years figures
- High likelihood of 3 GW of exports to the continent could lead to low margins during a 1 in 20 demand period