

Winter Outlook 2012 / 13

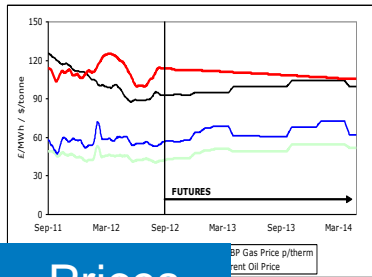


Ofgem Winter Outlook Seminar
5th October 2012
Chris Train – Market Operation Director

Winter Outlook 2012 / 13 Timeline

- Winter Outlook Consultation – Published 10th July
- Consultation Responses – Received 17th August
 - Two responses received
- Ofgem Winter Outlook Seminar – 5th October
- Winter Outlook Report – Publish w/c 8th October

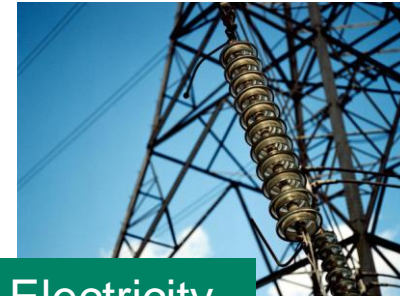
Winter Outlook 2012 / 13



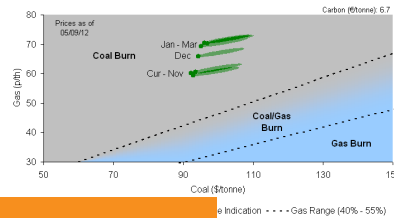
Prices



Gas



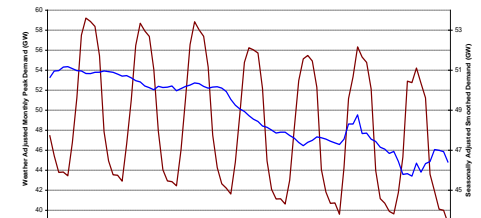
Electricity



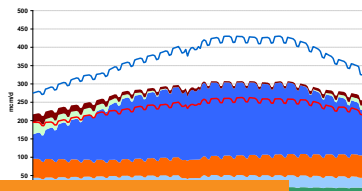
Gas vs Coal for Power



Generation



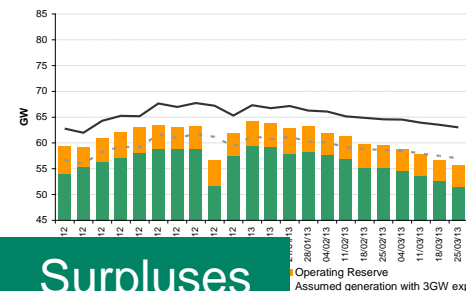
Demands



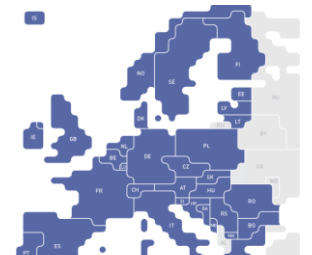
Demands



Supplies & LNG

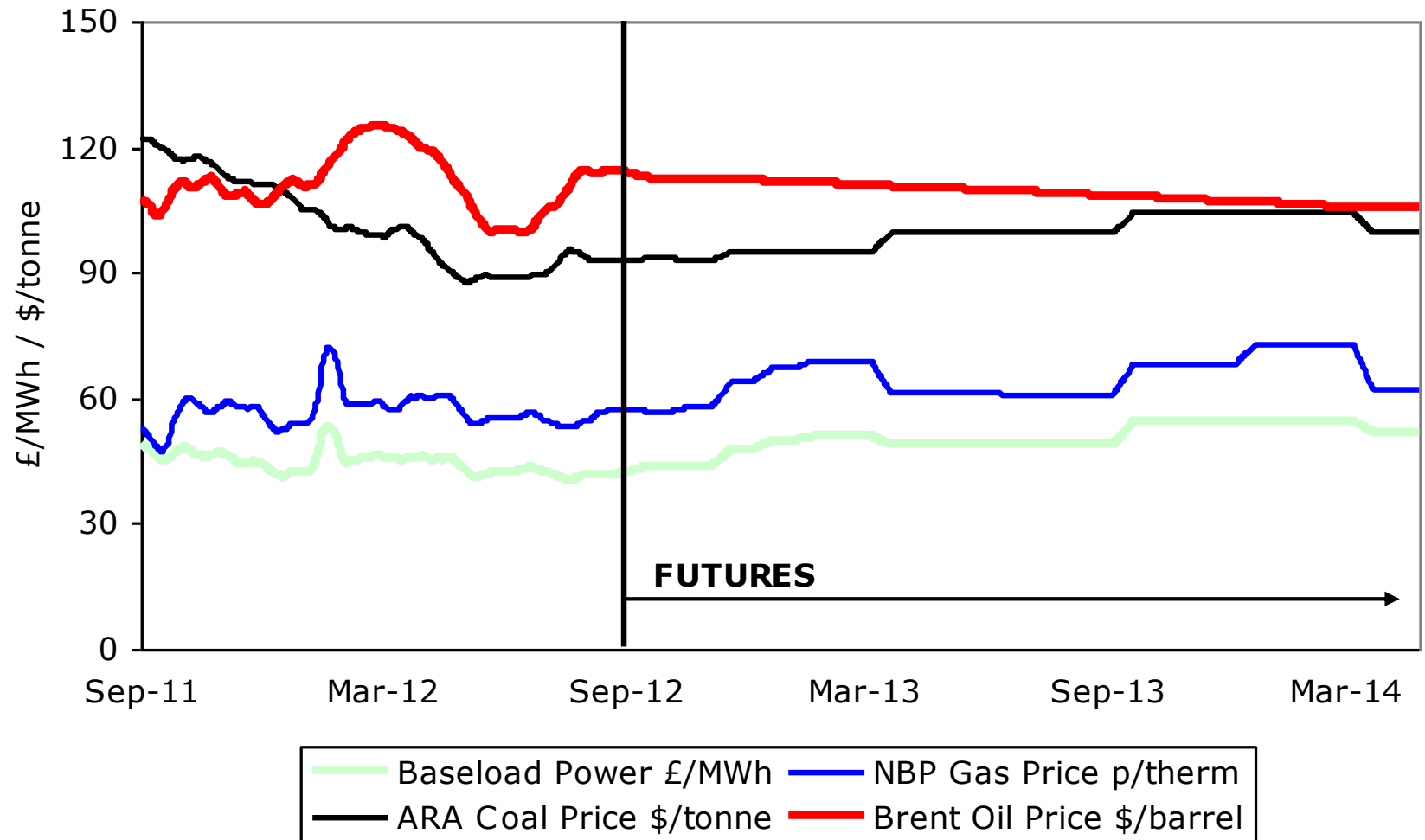


Surpluses

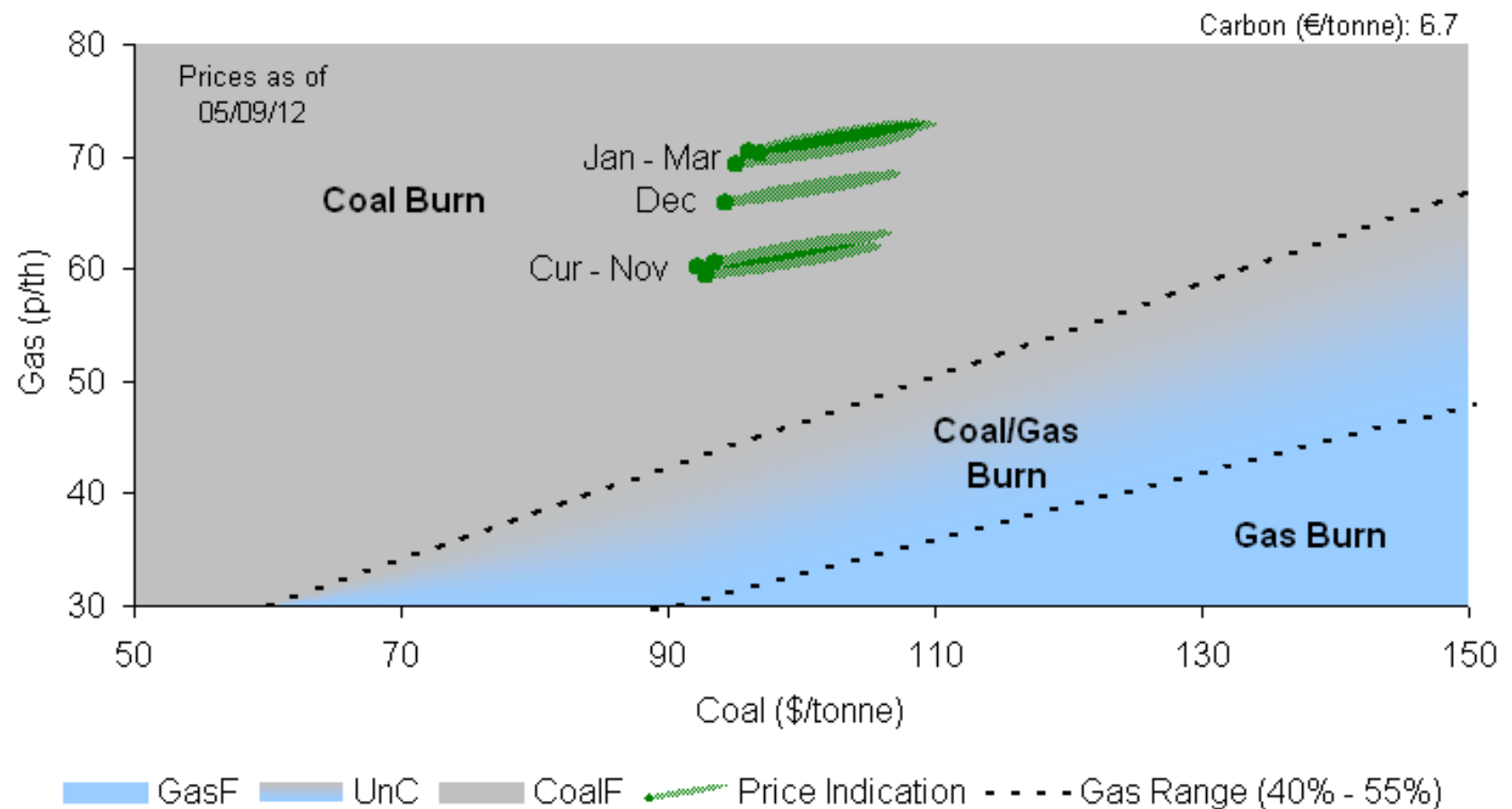


Europe

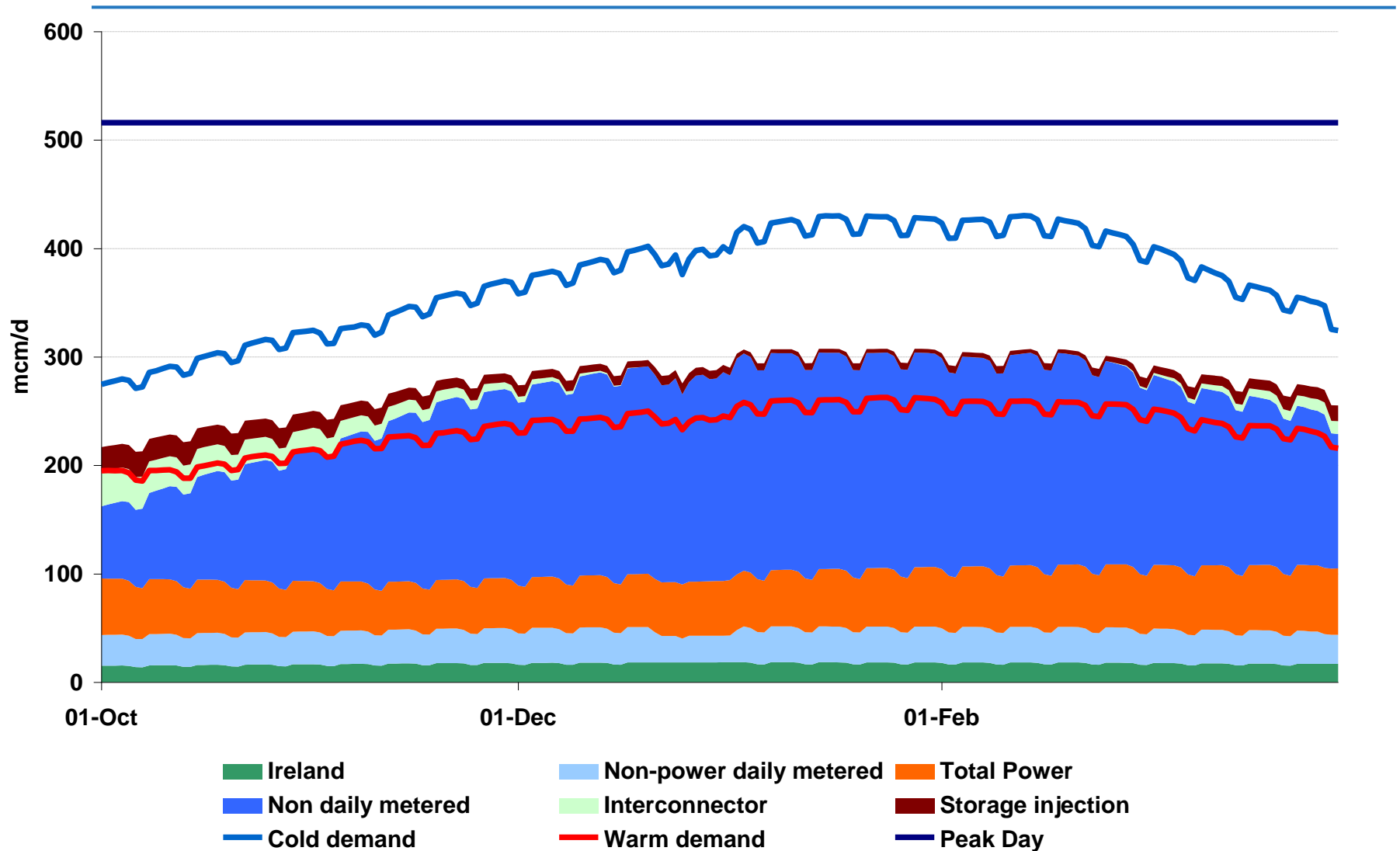
Fuel Prices



Gas – Relative Power Generation Economics



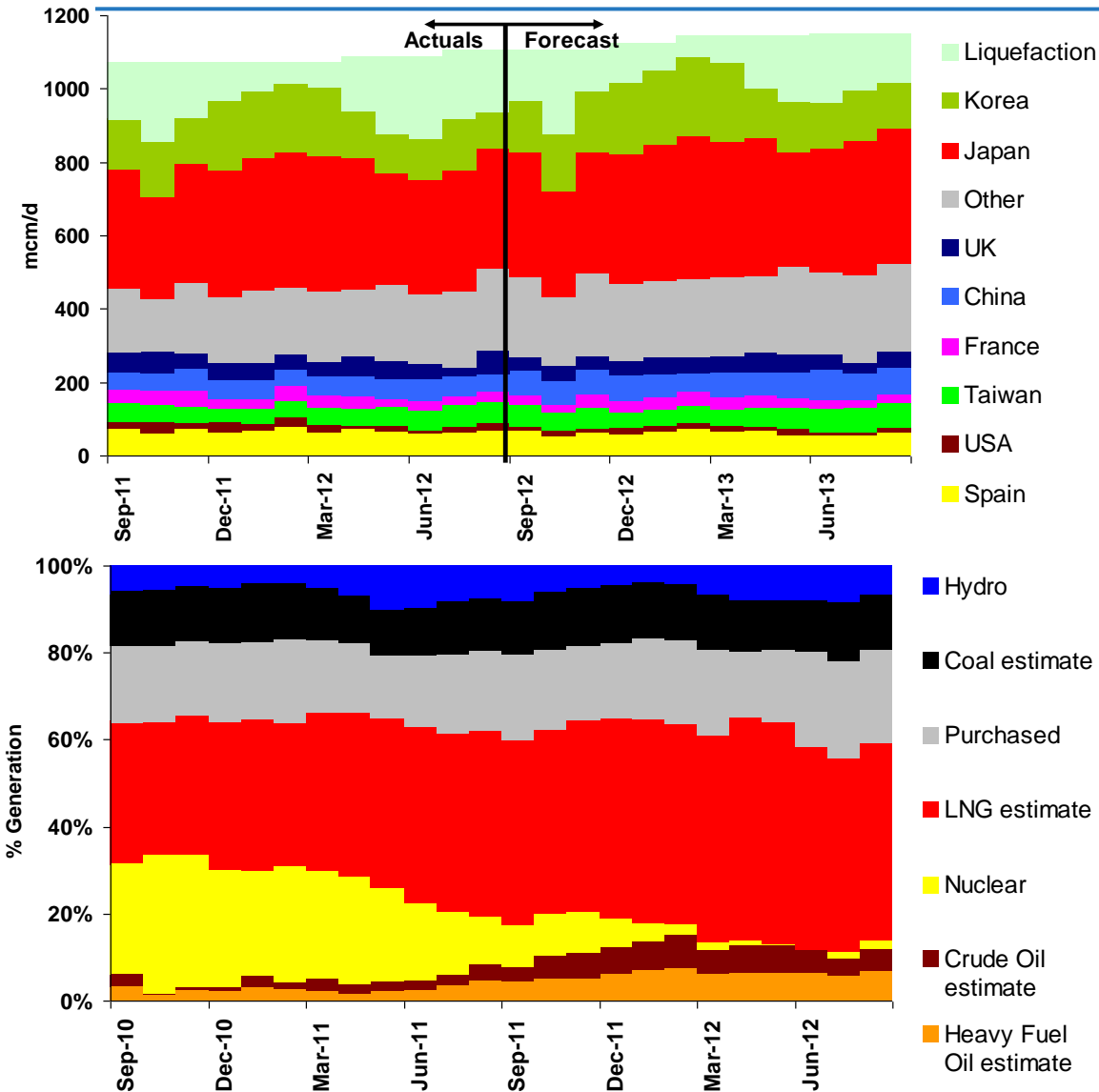
Gas – 2012 / 13 Demand



Gas – 2012 / 13 Supplies

(mcm/d)	2011/12		2012/13	
	400+	Range	Dec – Feb	400+
UKCS	125	96 – 130	113	124
Norway	105	70 – 115	95	105
BBL	32	24 – 36	28	30
IUK	20	0 – 30	8	20
LNG Imports	92	30 – 100	45	80
Total	374	220 – 411	289	359
Storage	65	0 – 108	31	80
Total inc. Storage	439	220 - 519	320	437

Global LNG Supply/Demand Projection



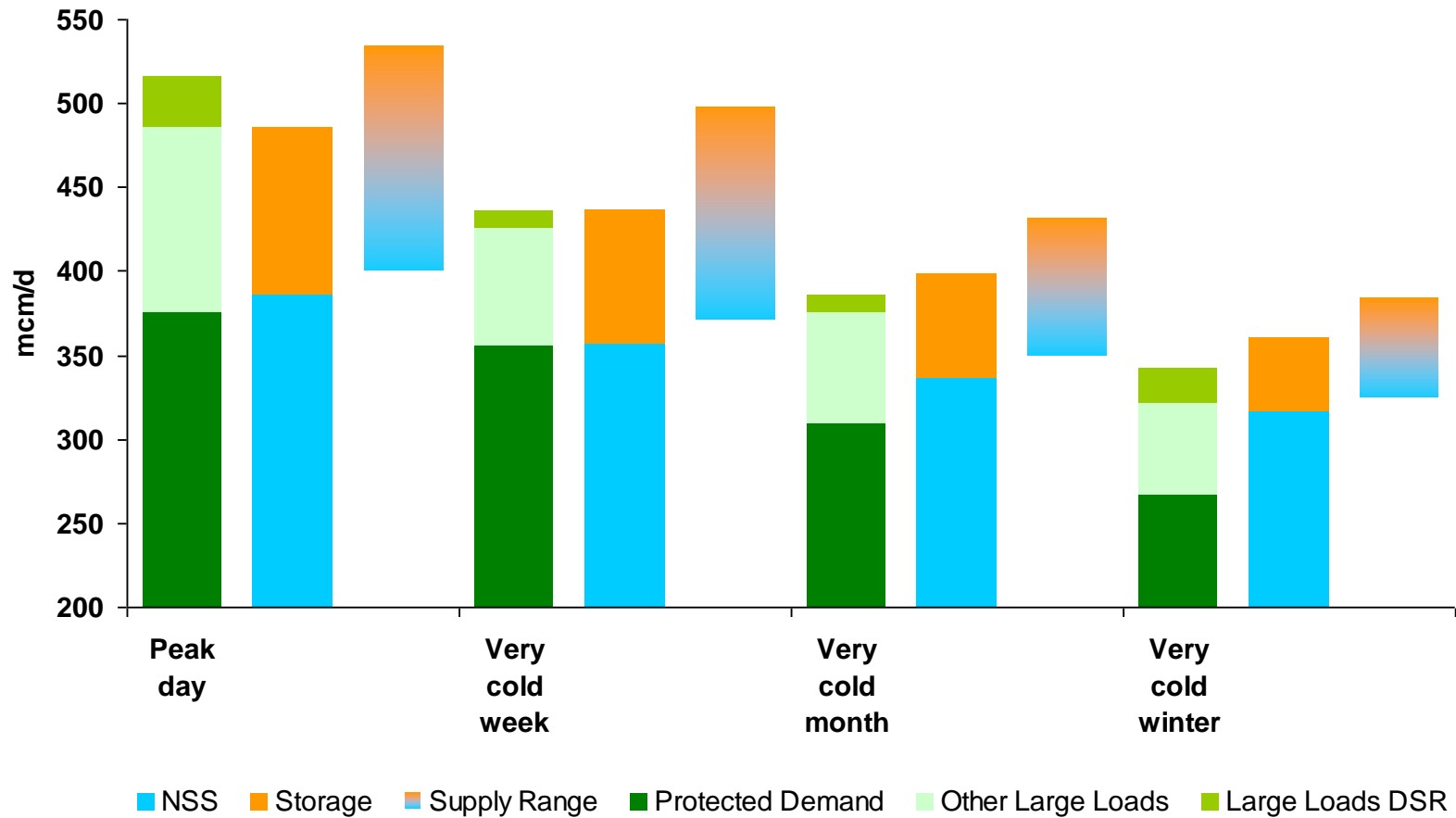
Global LNG

- A year-on-year increase in global LNG demand of ~5%
- Increase in LNG liquefaction capacity since last winter
- LNG market (on a global basis) continue to remain tight over winter 2012/13

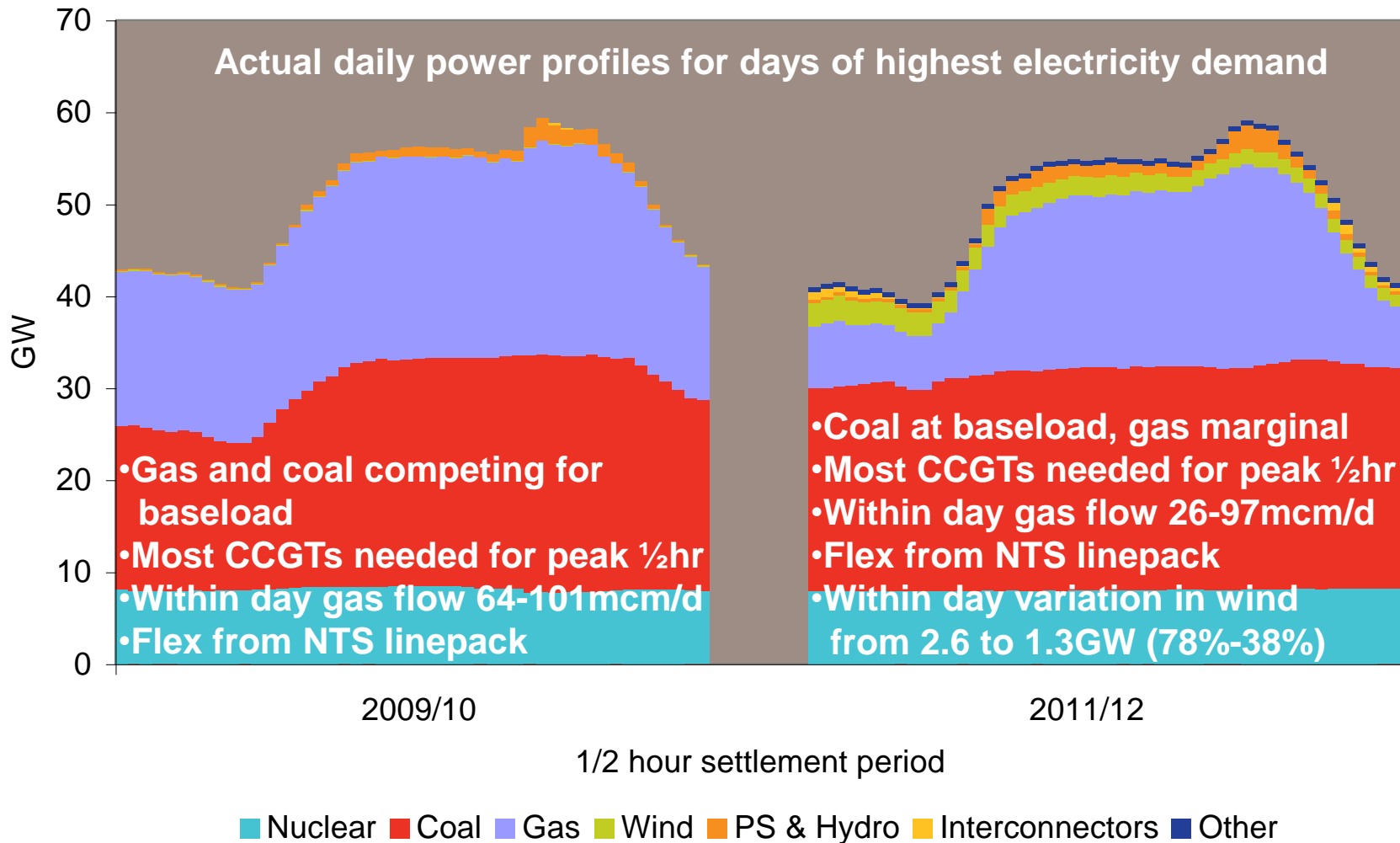
Japanese Power Generation Mix

- Restart of nuclear plants remains uncertain, with some unofficial reports suggesting no restarts until summer 2013

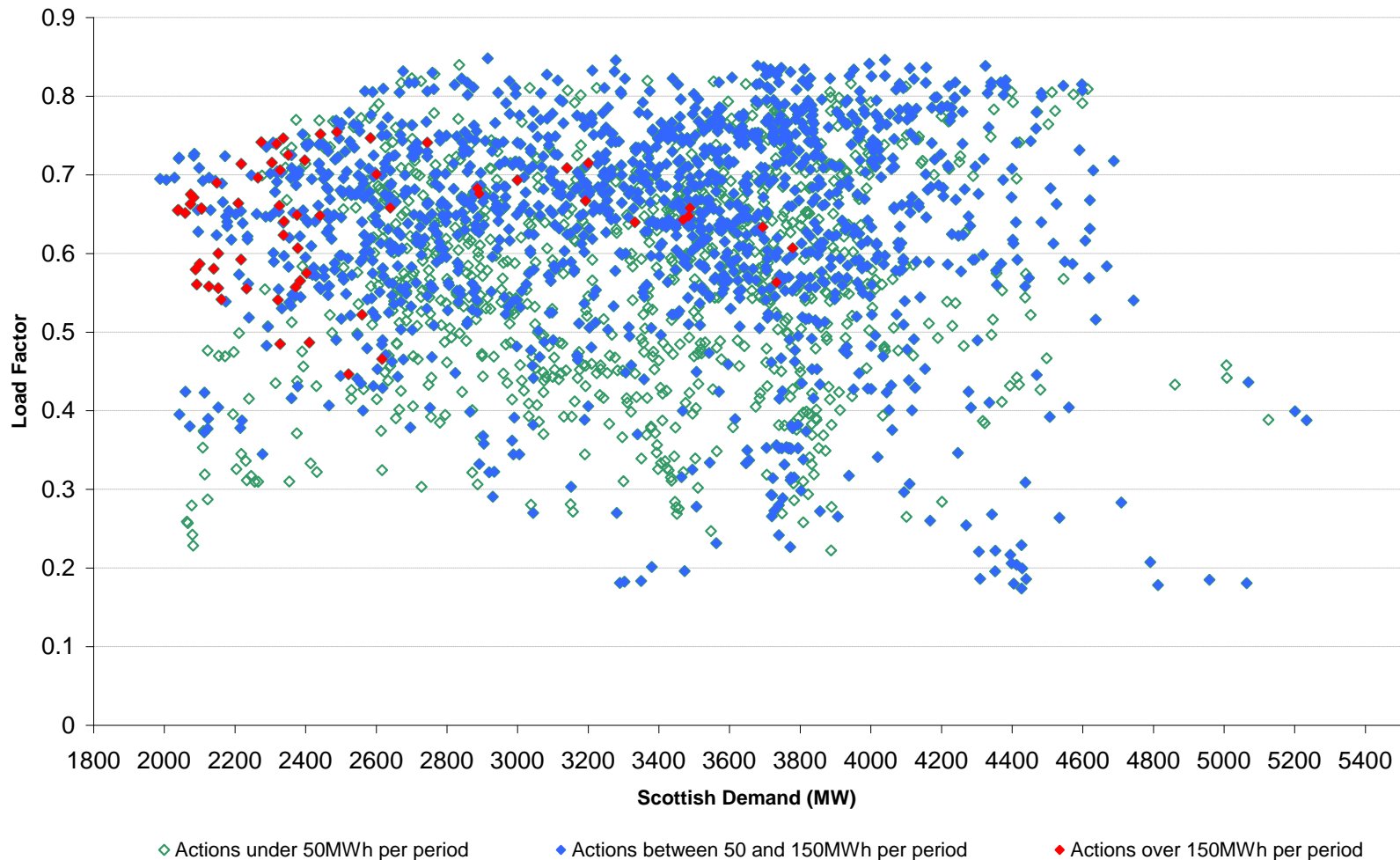
Gas - Cold Spell Analysis for Severe Conditions



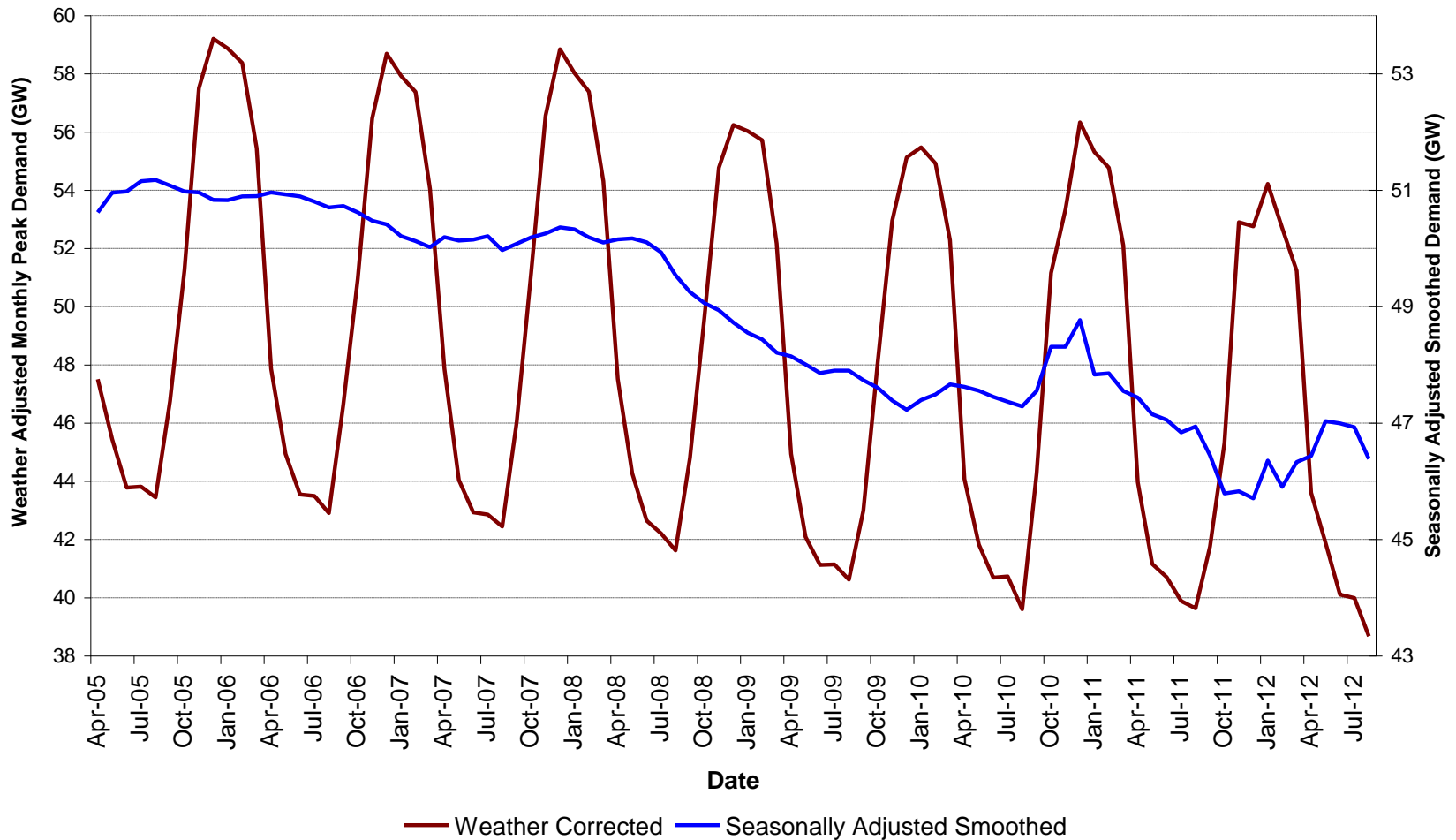
Gas / Electricity Interaction



Electricity – Wind Curtailment in Scotland



Electricity - Demand

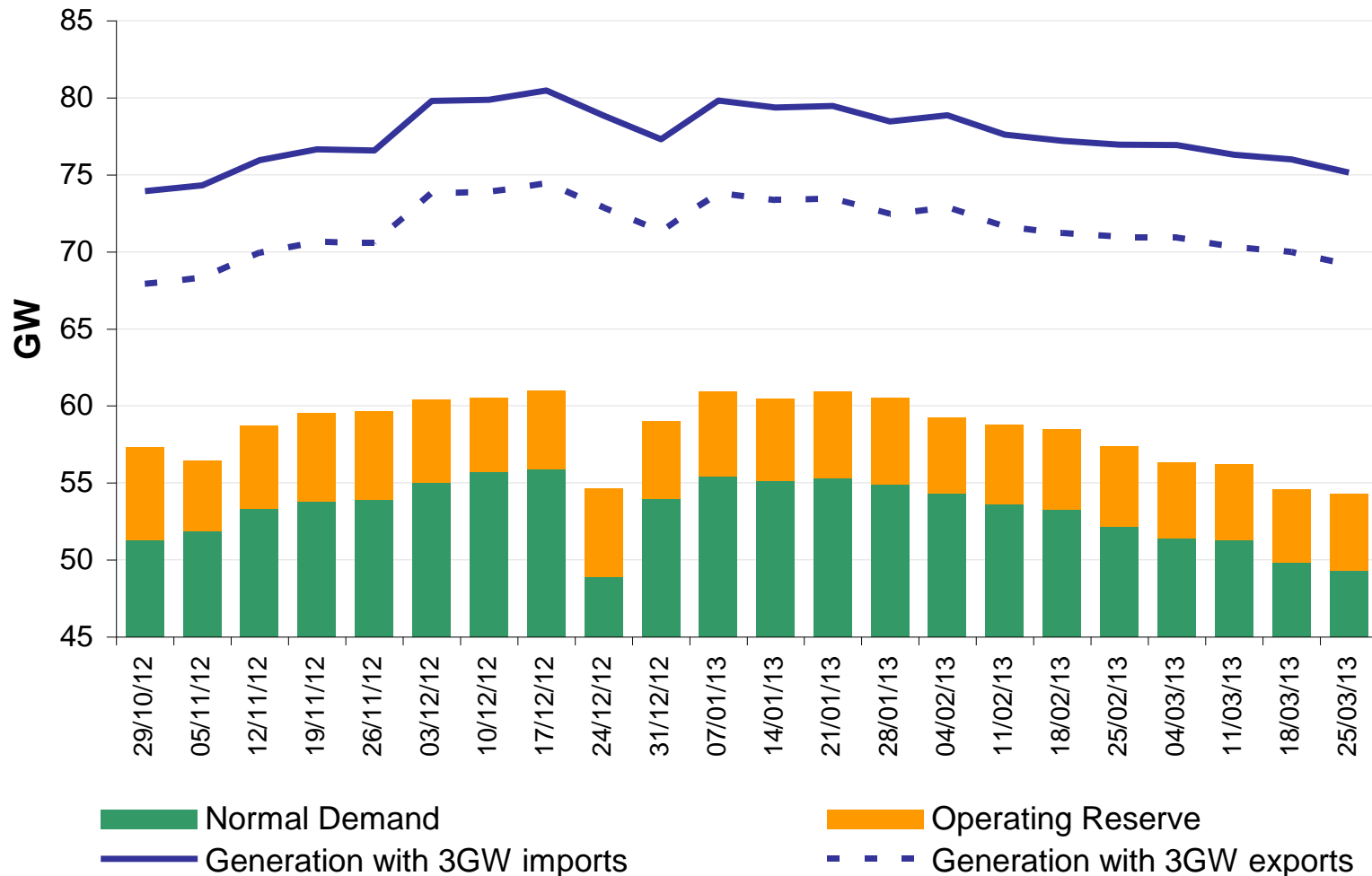


Electricity – Generation Capacity

Operational View

Power Station Type	Capacity (GW)
Nuclear	9.5 ↓
Interconnectors	3.0 —
Hydro	1.0 —
Wind	4.7 ↑
Coal	26.1 ↓
Biomass	0.8 ↑
Oil	2.1 —
Pumped storage	2.7 —
OCGT	1.2 ↓
CCGT	28.0 ↓
Total	79.1

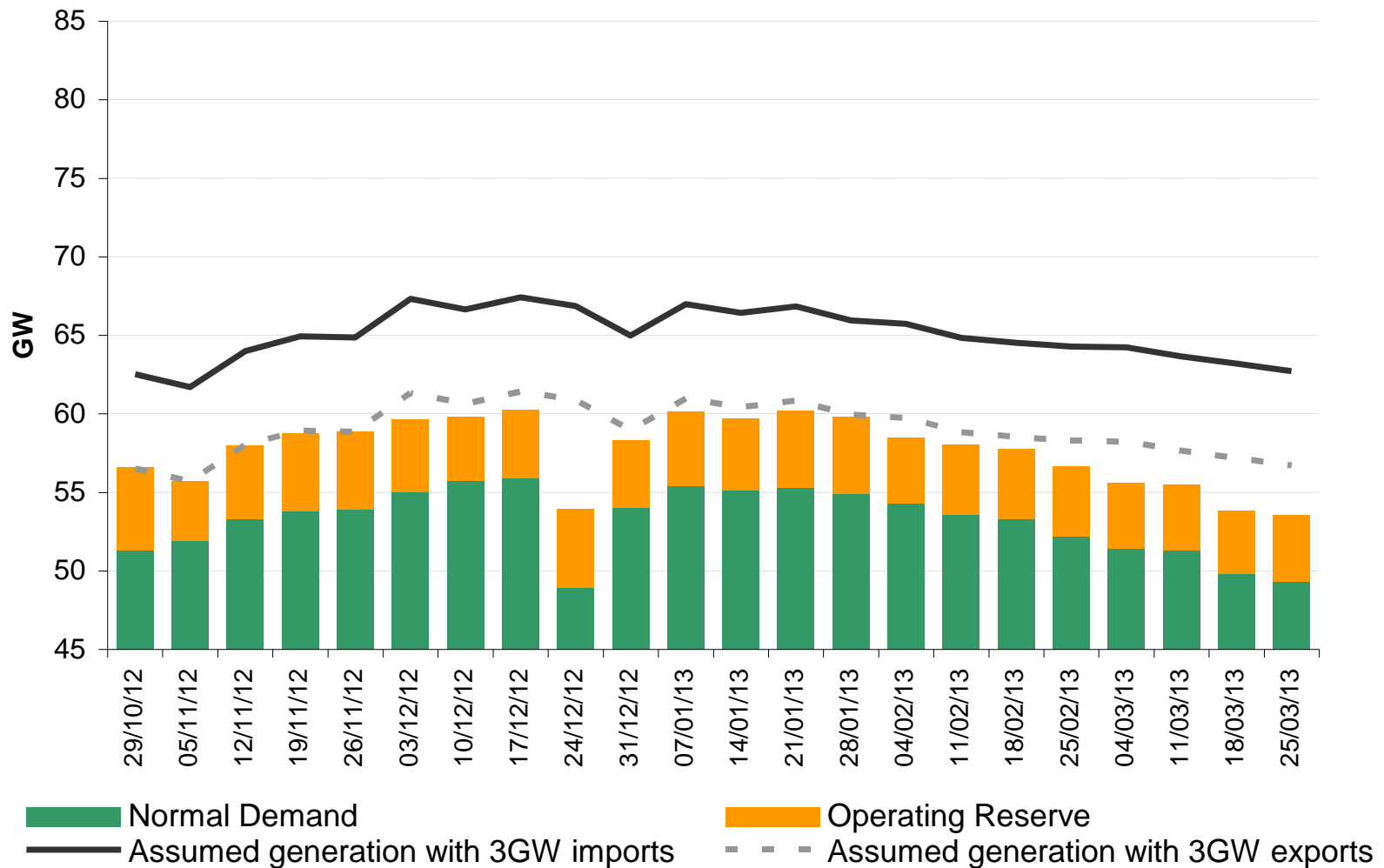
Electricity – Normal Demand and Notified Generation Availability



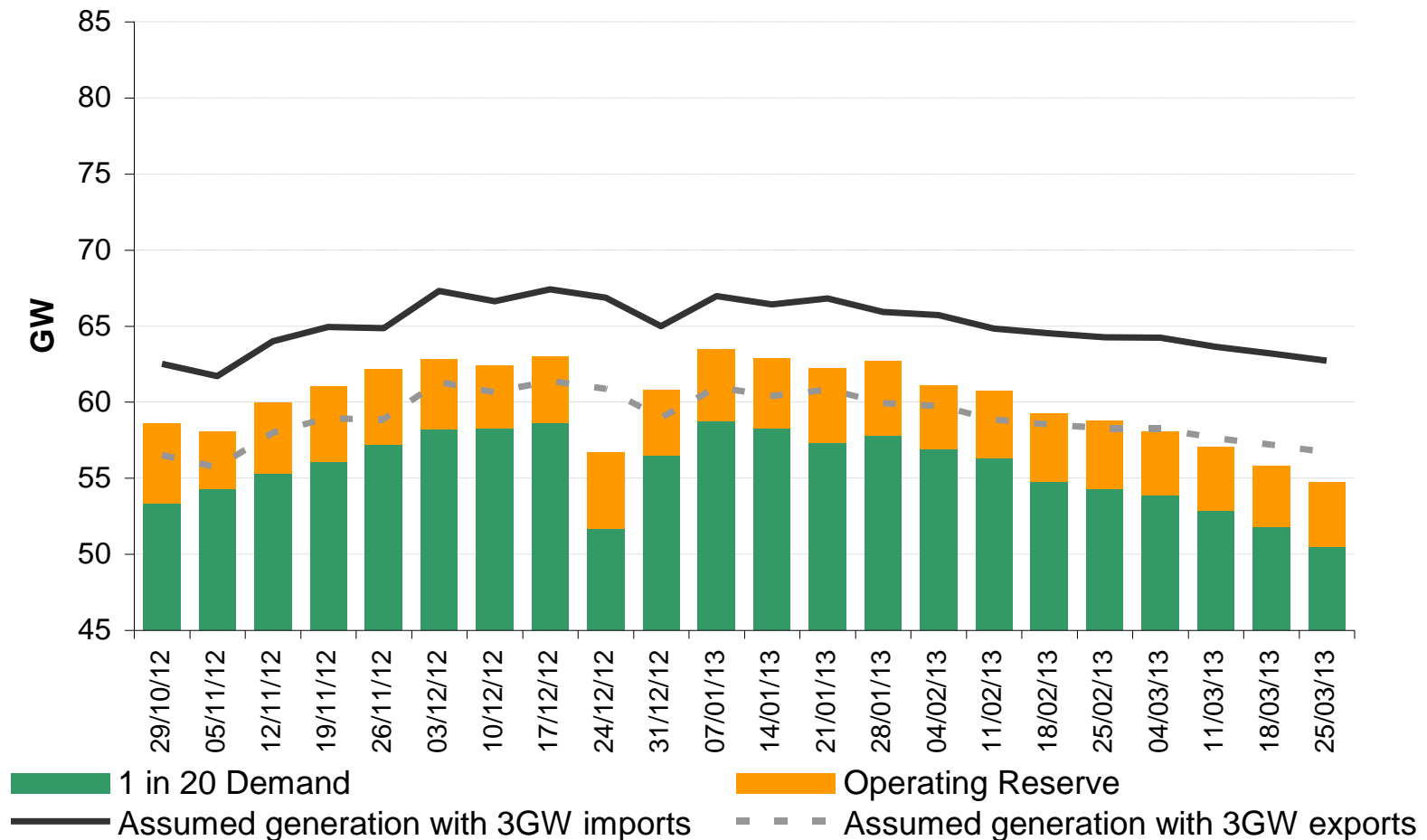
Electricity – Assumed Availability

Power Station Type	Assumed Availability
Nuclear	84%
Interconnectors	100%
Hydro	75%
Wind	10%
Coal	85%
Biomass	85%
Oil	85%
Pumped storage	98%
OCGT	94%
CCGT	87%
Total	83%

Electricity – Normal Demand and Assumed Generation Availability



Electricity – 1 in 20 Demand and Assumed Generation Availability



Winter Outlook 2012 / 13 - Summary

■ Gas

- Forward winter fuel prices strongly favour coal burn over gas
- Weather corrected gas demand forecast to be lower than last winter
- Forecast non storage supplies are slightly lower than last winter
- LNG uncertainty given increased global demand
- 2012/13 storage deliverability – higher than previous winter, should increase further within winter when new facilities are commissioned

■ Electricity

- Average cold spell demand forecast 0.9 GW higher than last winter
- Notified and Assumed Generation availability has increased by approximately 1 GW from last winter
- Demand and full interconnector exports are expected to be met in 1 in 20 conditions