

# System Management Principles Statement



- Compliance report
- Summary of balancing actions and breaches
- Performance compared to last year

## Summary Report

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	<b>Jul-13</b>	<b>Aug-13</b>	<b>Sep-13</b>
Total Number of Buy Actions	13	16	9
Total Number of Sell Actions	12	11	11
Total	25	27	20

	<b>Jul-13</b>	<b>Aug-13</b>	<b>Sep-13</b>
Number of Material Breaches	0	0	0
Number of Non-Material Breaches	0	0	0

	<b>Sep-13</b>	<b>Sep-12</b>
Number of Balancing Actions (Calendar year to date)	293	286
Number of Material Breaches (Calendar year to date)	0	0
Number of Non-Material Breaches (Calendar year to date)	0	0

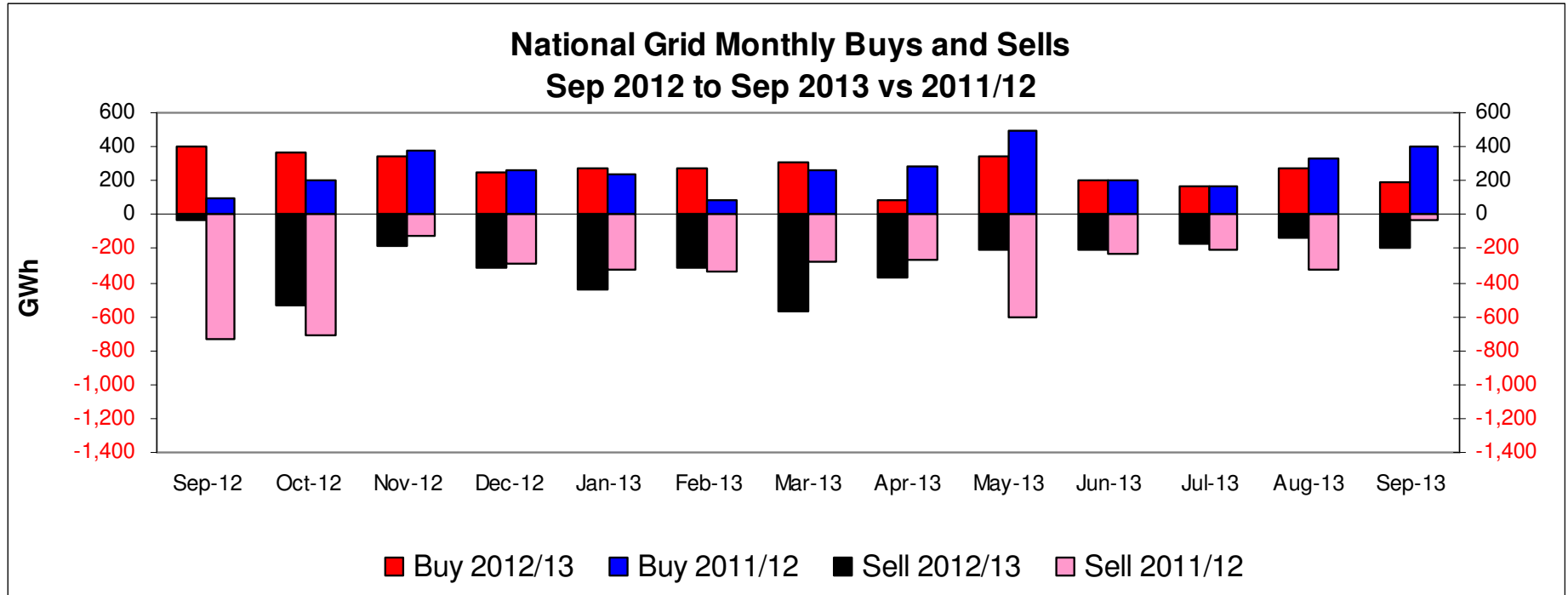
# Transporter Actions and Neutrality



- Energy Balancing
- Capacity

# Transporter Energy Traded on the OCM

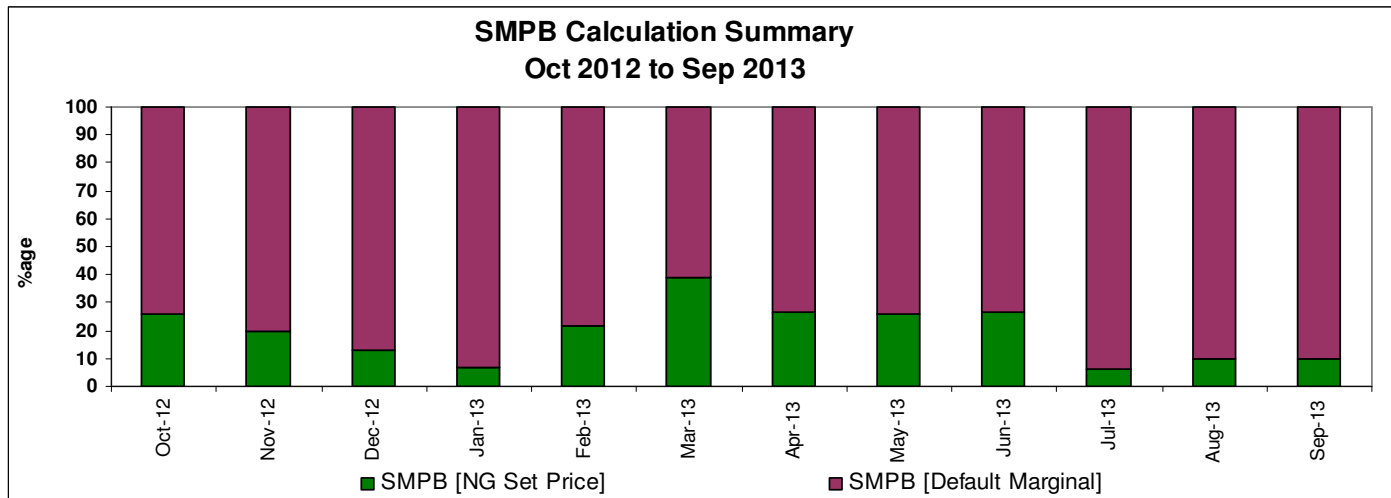
September 2012 to September 2013



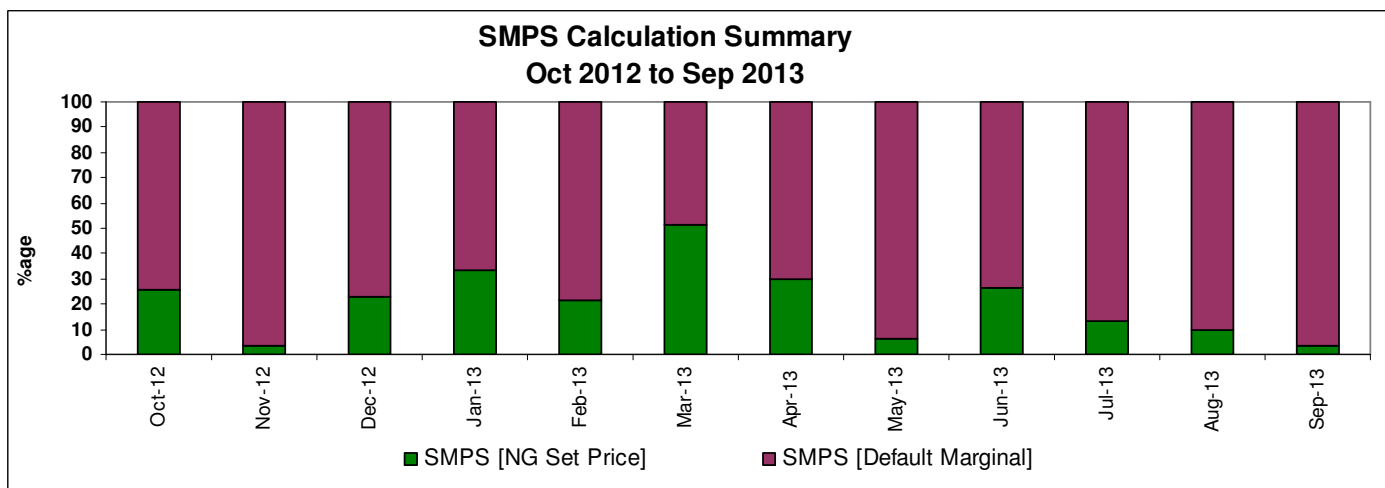
Year	Buy [GWh]	Sell [GWh]
2013 [YTD]	2119	-2619
2012	3405	-3624

# Days of Default SMP Prices

From October 2012 to September 2013



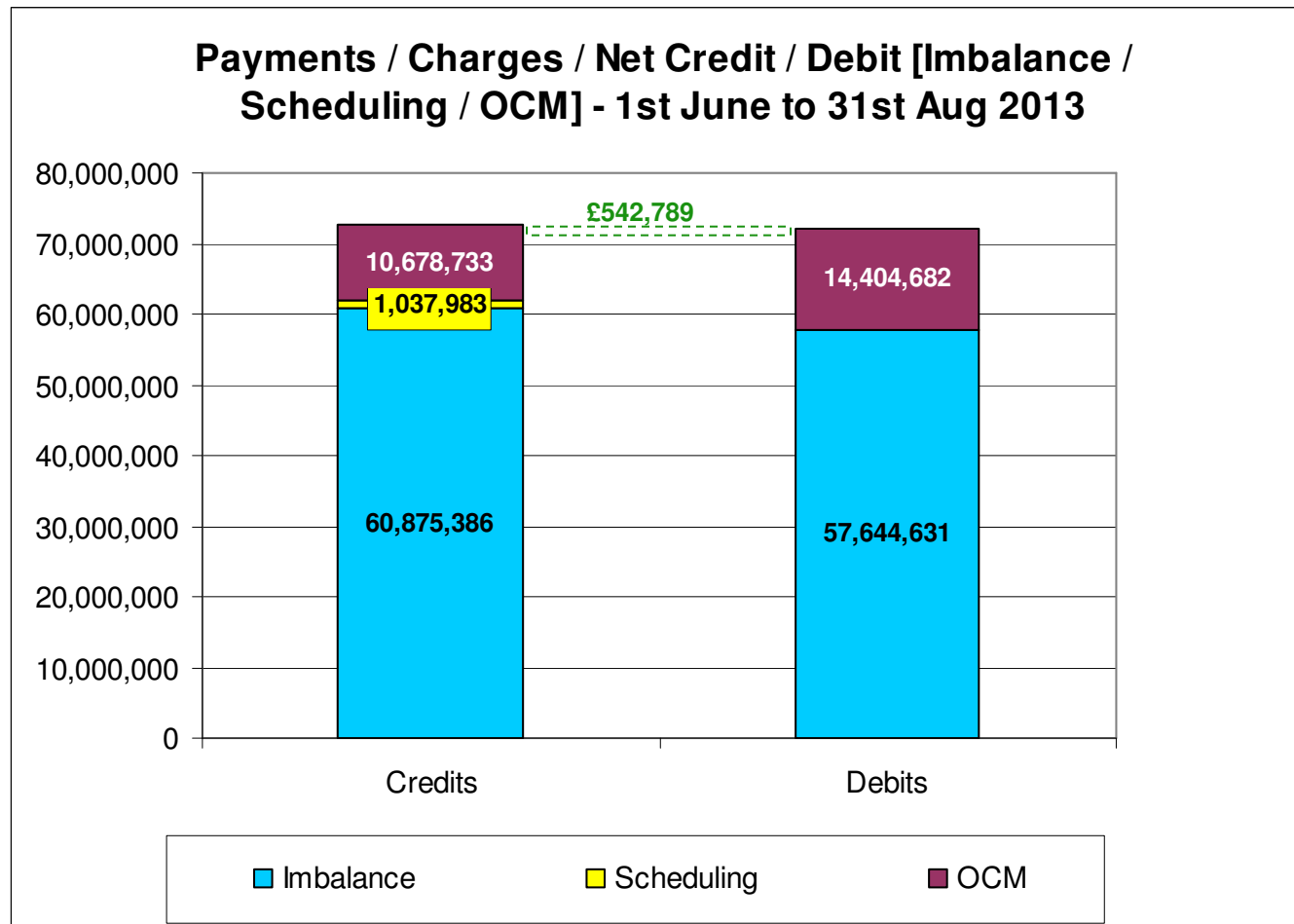
Month	SMPB	SMPS	Both
Sep 13	90%	97%	87%



# Energy Balancing – Balancing Costs

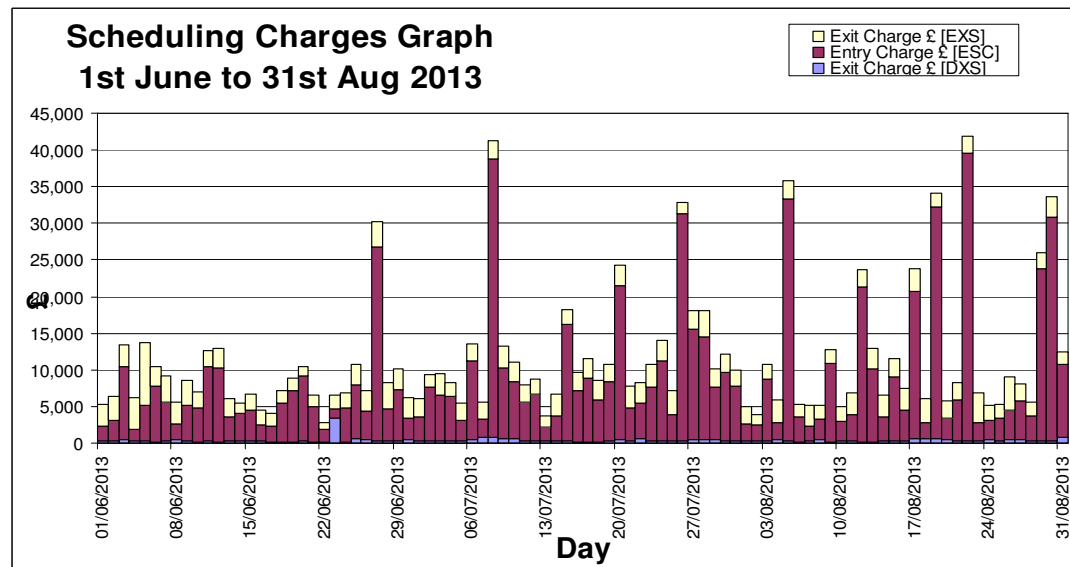
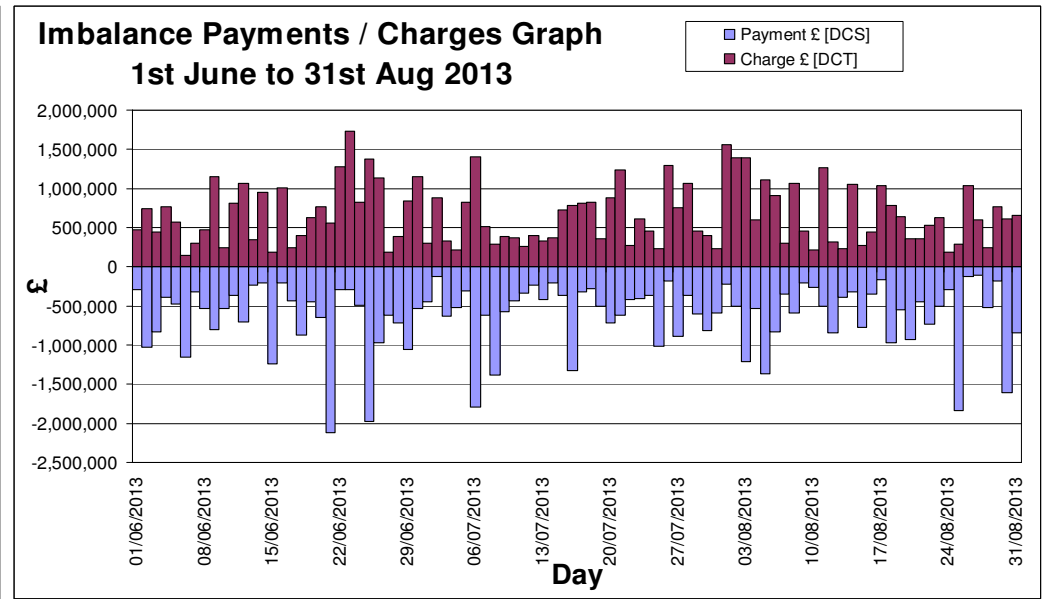
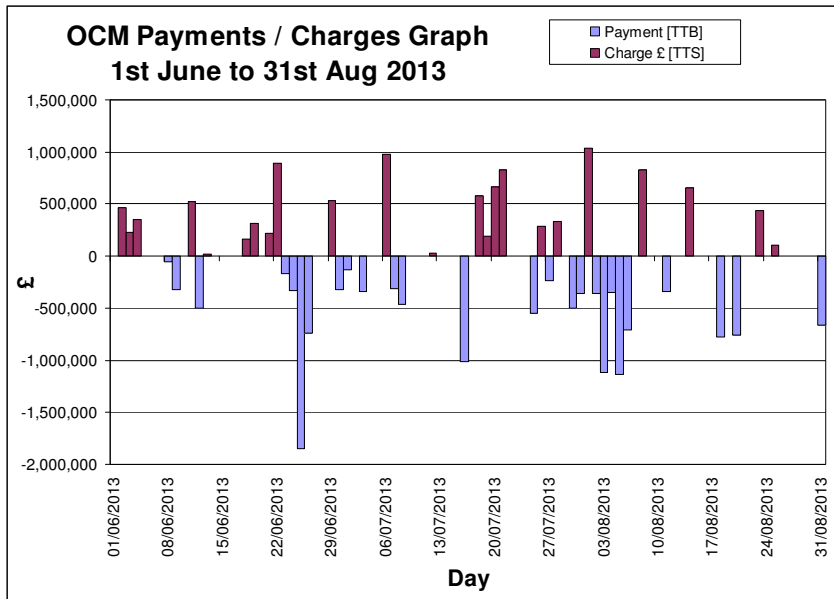
June - Aug 2013

Month	Imbalance		Scheduling			OCM		Balancing Costs
	Payment £ [DCS]	Charge £ [DCT]	Exit Charge £ [DXS]	Exit Charge £ [EXS]	Entry Charge £ [ESC]	Payment £ [TTB]	Charge £ [TTS]	Net £
Jun-13	-20,765,389	21,214,565	12,463	80,283	167,293	-4,285,883	3,717,786	141,118
Jul-13	-17,803,627	18,340,154	11,726	77,749	292,919	-3,909,513	3,892,445	901,854
Aug-13	-19,075,615	21,320,666	11,121	76,485	307,944	-6,209,286	3,068,502	-500,183



# Energy Balancing – Balancing Costs

June - August 2013



# Capacity Neutrality

Net Cost / Revenue From 1<sup>st</sup> April 2013 to 30<sup>th</sup> September 2013

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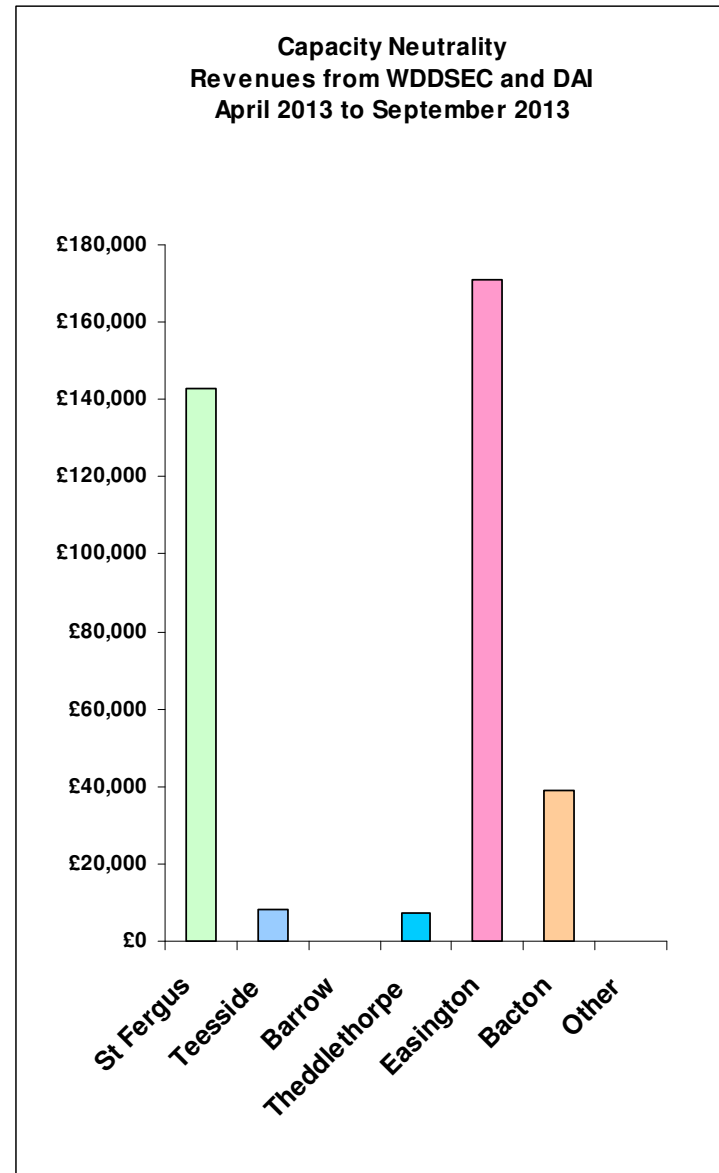
	Revenue/Costs
WDDSEC/DAI Entry Capacity Revenue	-£368,242
Total Entry Constraint Management Operational Costs	£0
Entry Capacity Overrun Revenue (As at August 13)	-£68,681
Non-Obligated Sales Revenue (Entry only)	-£175
Revenue from Locational Sells and PRI Charges	£0
<b>Net Revenue</b>	<b>-£437,098</b>



# Capacity Neutrality

Revenues from WDDSEC and DAI  
From 1<sup>st</sup> April 2013 to 30<sup>th</sup> September 2013

<b>ST FERGUS</b>	-£142,643
<b>TEESSIDE</b>	-£8,338
<b>BARROW</b>	£0
<b>THEDDLETHORPE</b>	-£7,289
<b>EASINGTON</b>	-£170,866
<b>BACTON</b>	-£39,106
<b>OTHER</b>	£0
<b>Net Revenue</b>	<b>-£368,242</b>



# Capacity Neutrality

Revenues from Entry Cap Overruns , Non-Obligated Sales [Entry], and Locational Sells and PRI Charges.

Totals From 1<sup>st</sup> April 2013 to 30<sup>th</sup> September 2013



Month	Entry Cap Overrun Revenue	Non-obligated sales revenue (entry)
Apr-13	-£4,972	-£175
May-13	-£7,376	-
Jun-13	-£33,996	-
Jul-13	-£16,257	-
Aug-13	-£6,080	-
Sep-13	Not Yet Available	-
Oct-13	-	-
Nov-13	-	-
Dec-13	-	-
Jan-14	-	-
Feb-14	-	-
Mar-14	-	-
Total	-£68,681 (FY13-14)	-£175 (FY13-14)

Month	Locational Sells and PRI charges revenue
Apr-13	£0
May-13	£0
Jun-13	£0
Jul-13	£0
Aug-13	£0
Sep-13	£0
Oct-13	-
Nov-13	-
Dec-13	-
Jan-14	-
Feb-14	-
Mar-14	-
Total	£0 (FY13/14)

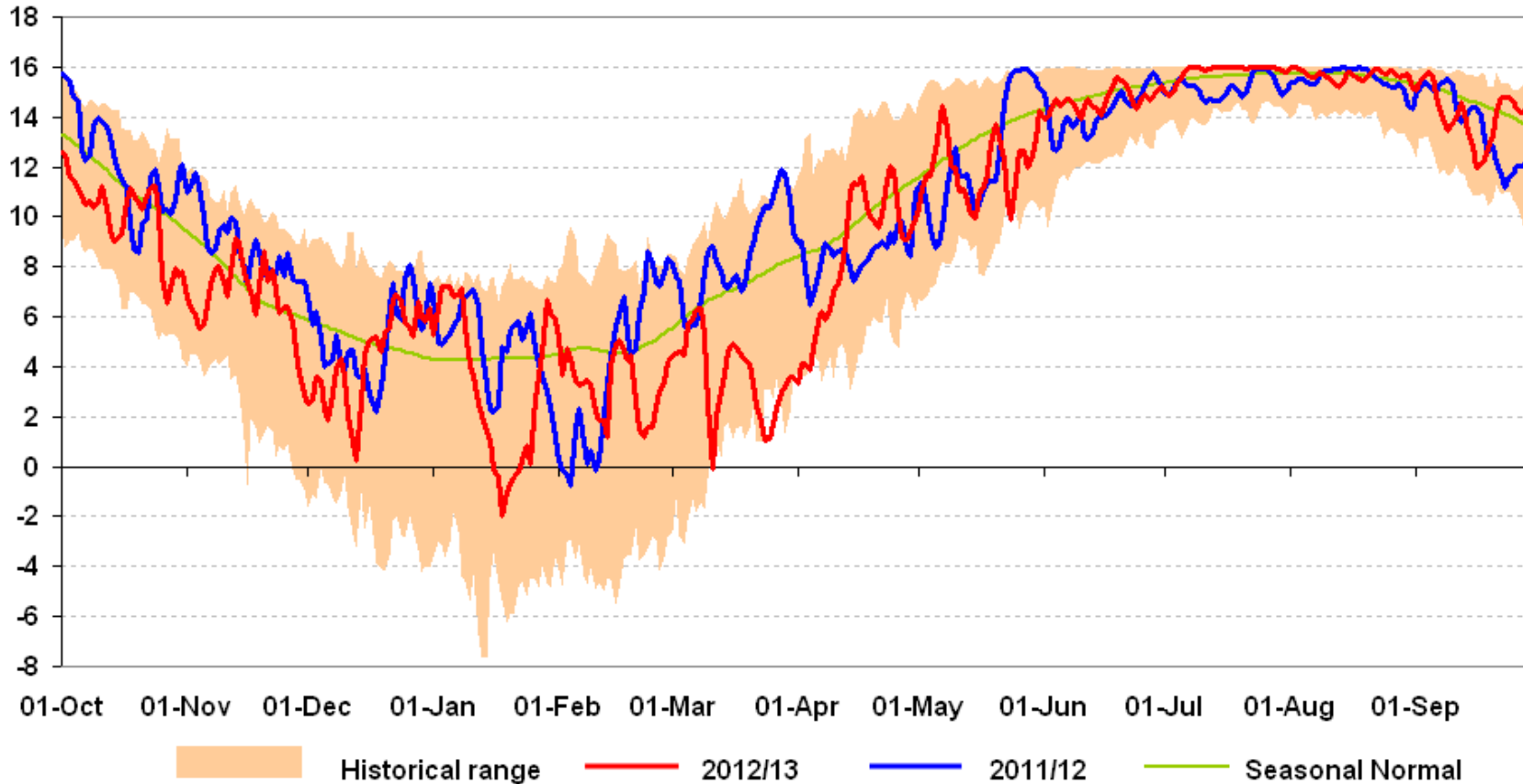
# Operational Overview



# National Composite Weather

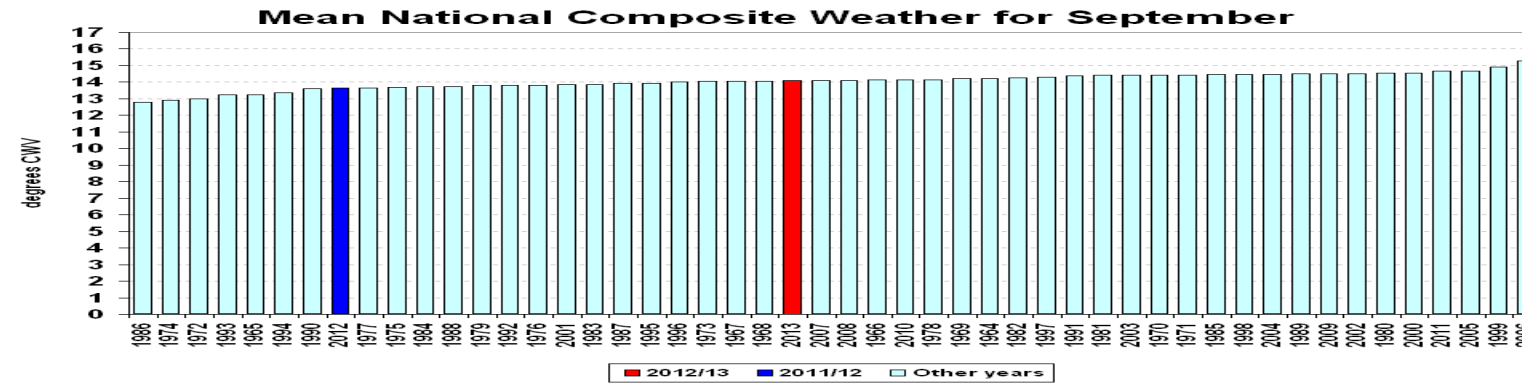
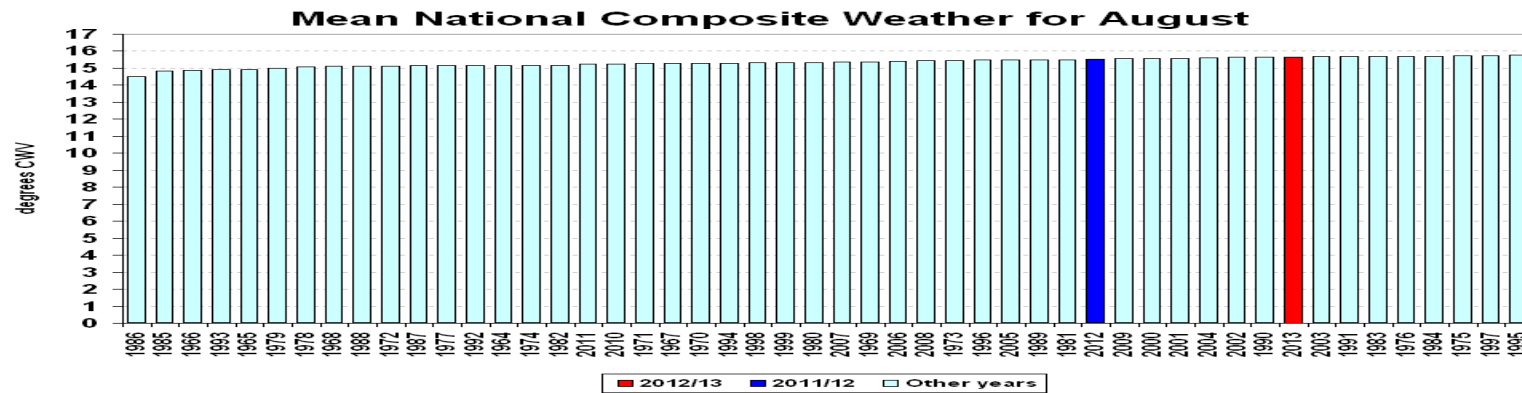
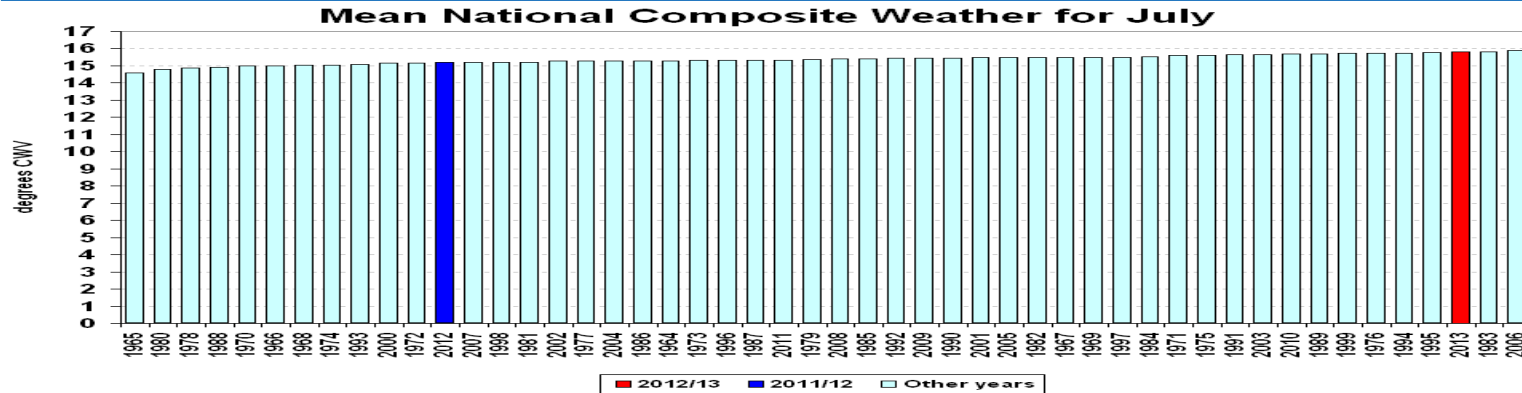
October to Sep 2012/13 vs. Historical Range

## National Composite Weather 2012/13 compared to 2011/12 and historical range



# Mean Composite Weather Variables

July - September 2013 vs. Previous Yrs



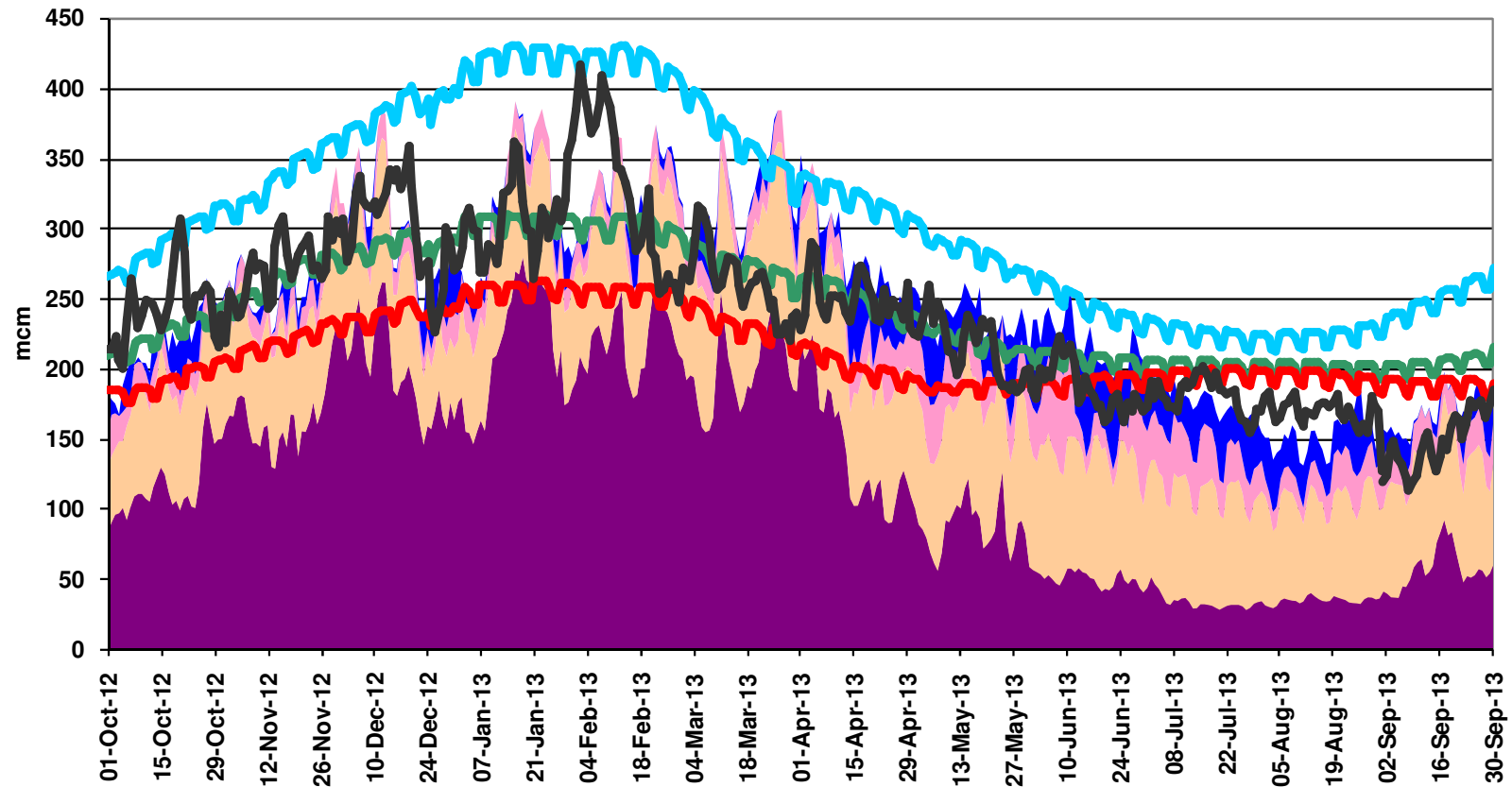
# Demands



# Gas Demand Breakdown

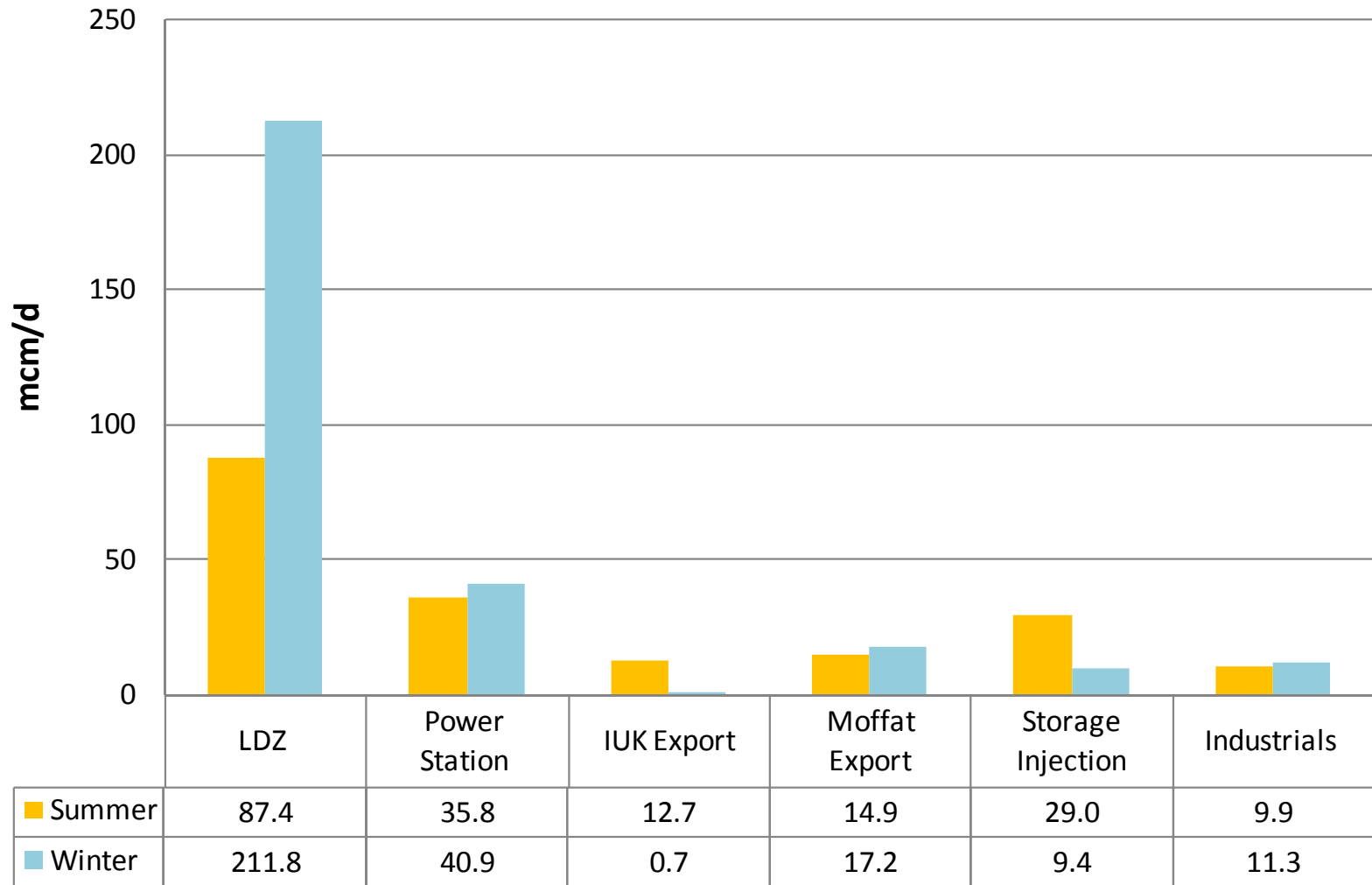
1st Oct 2012 to 30th September 2013

Gas Demand Breakdown  
1st October 2012 to 30th September 2013 vs 2011/12



# Demand Mix Comparison – Summer/Winter 2012/13

Average Daily Demand - Winter vs. Summer 2012/13

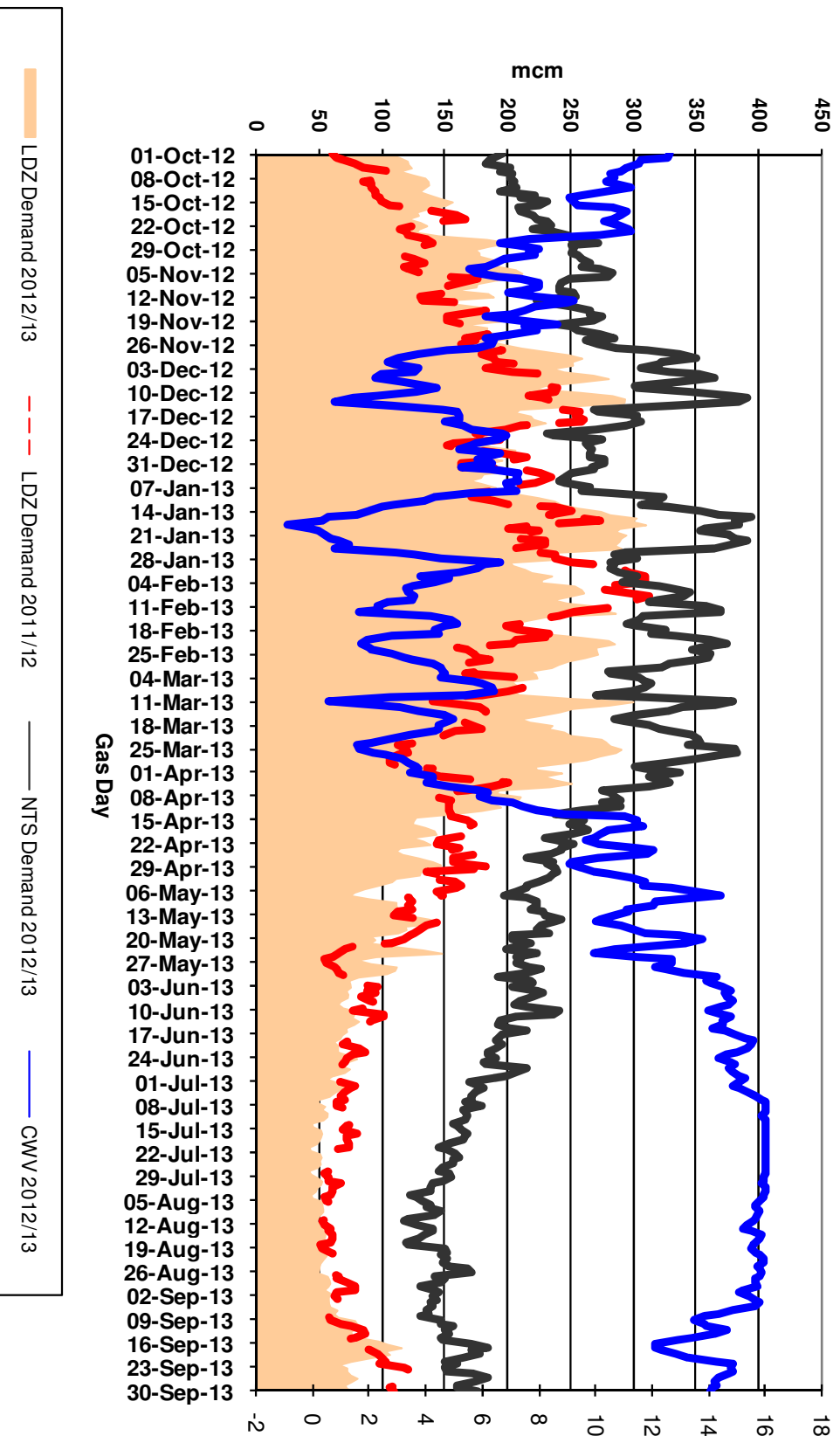




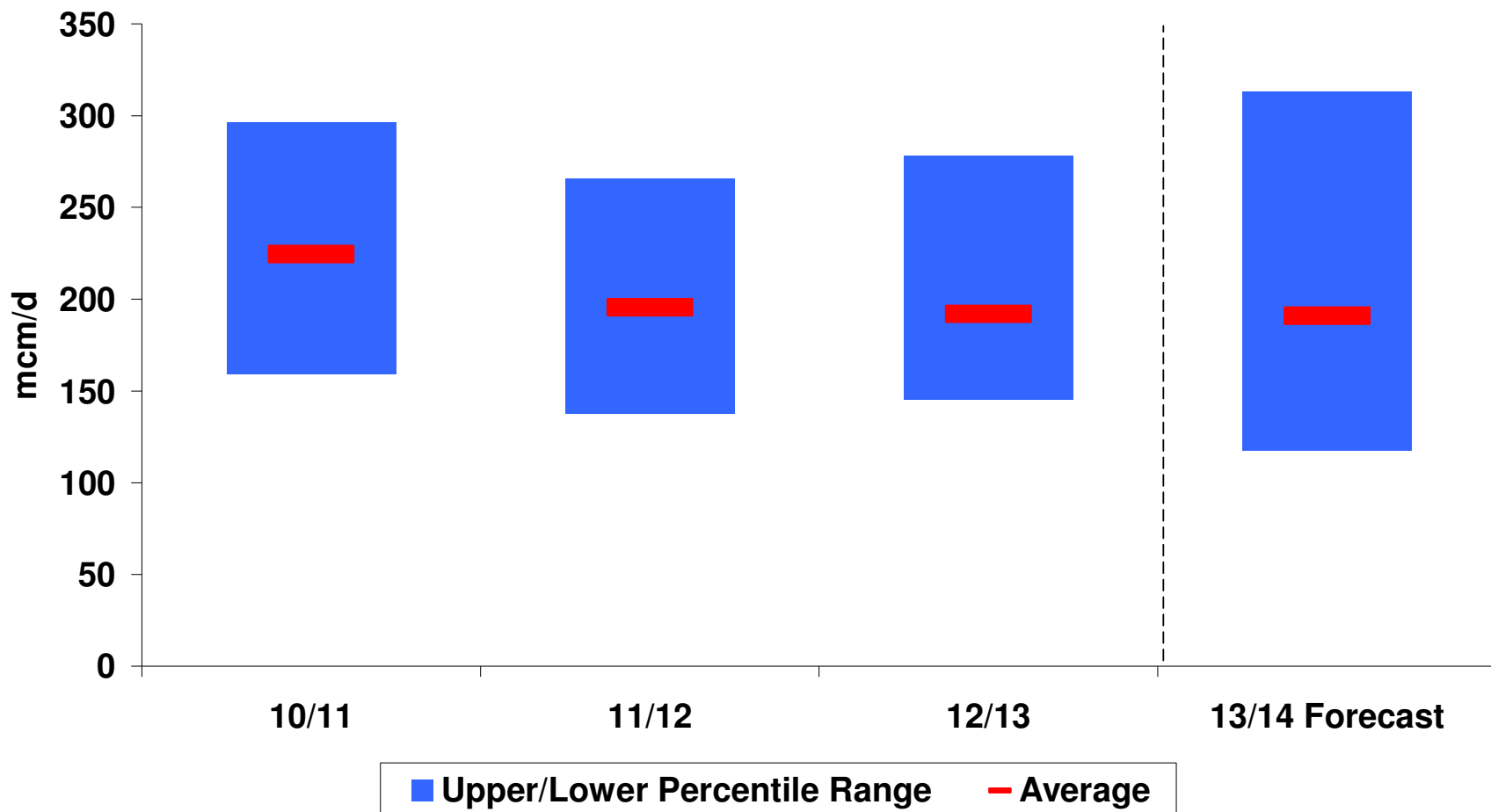
# LDZ Demand

1st Oct 2012 to 30th September 2013

Gas Demand Breakdown [LDZ 2012/13 vs 2011/12] vs NTS Demand / CWV's  
1st October 2012 to 30th September 2013



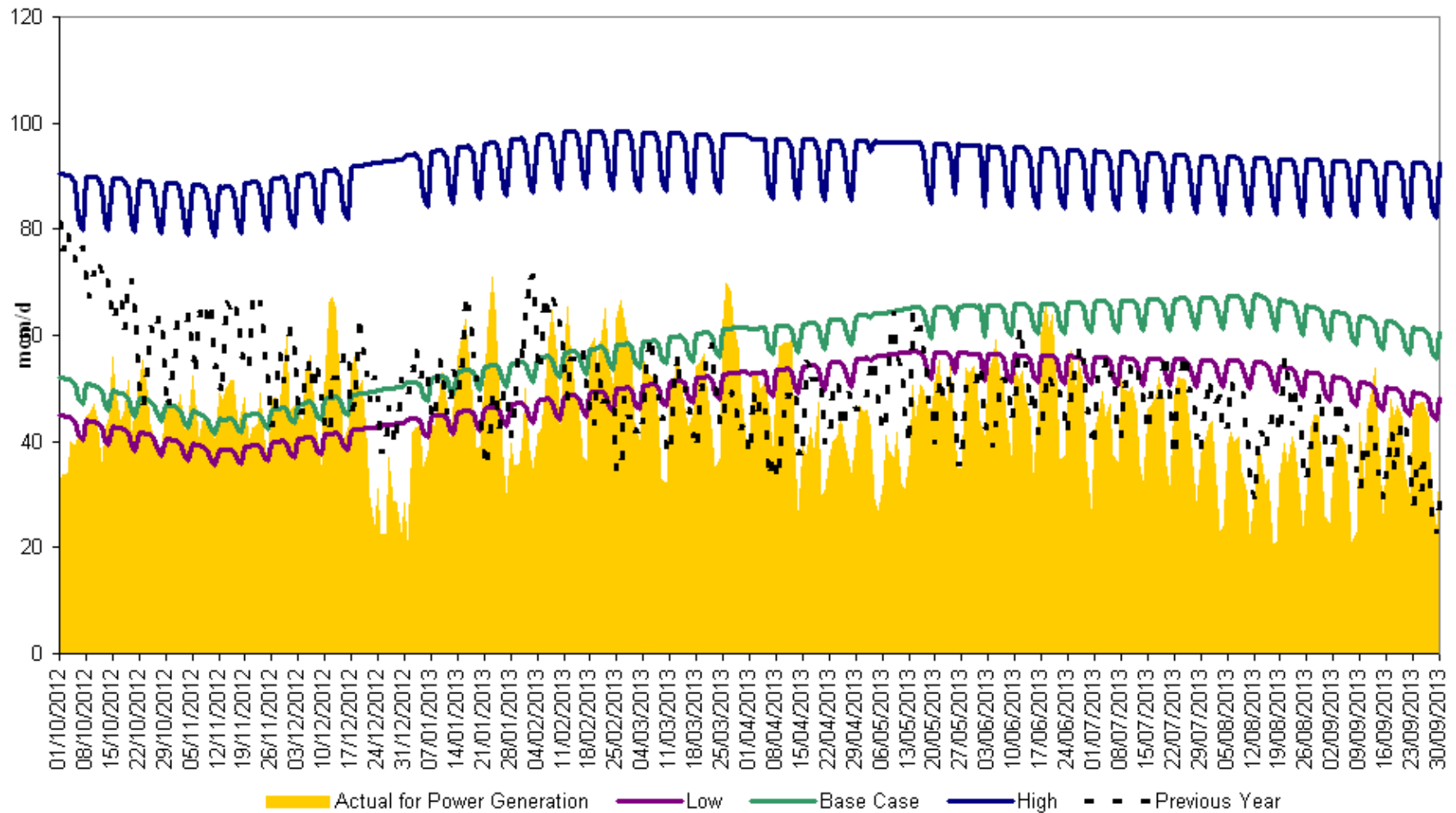
# NDM Historic Demand and 2013/14 Forecast



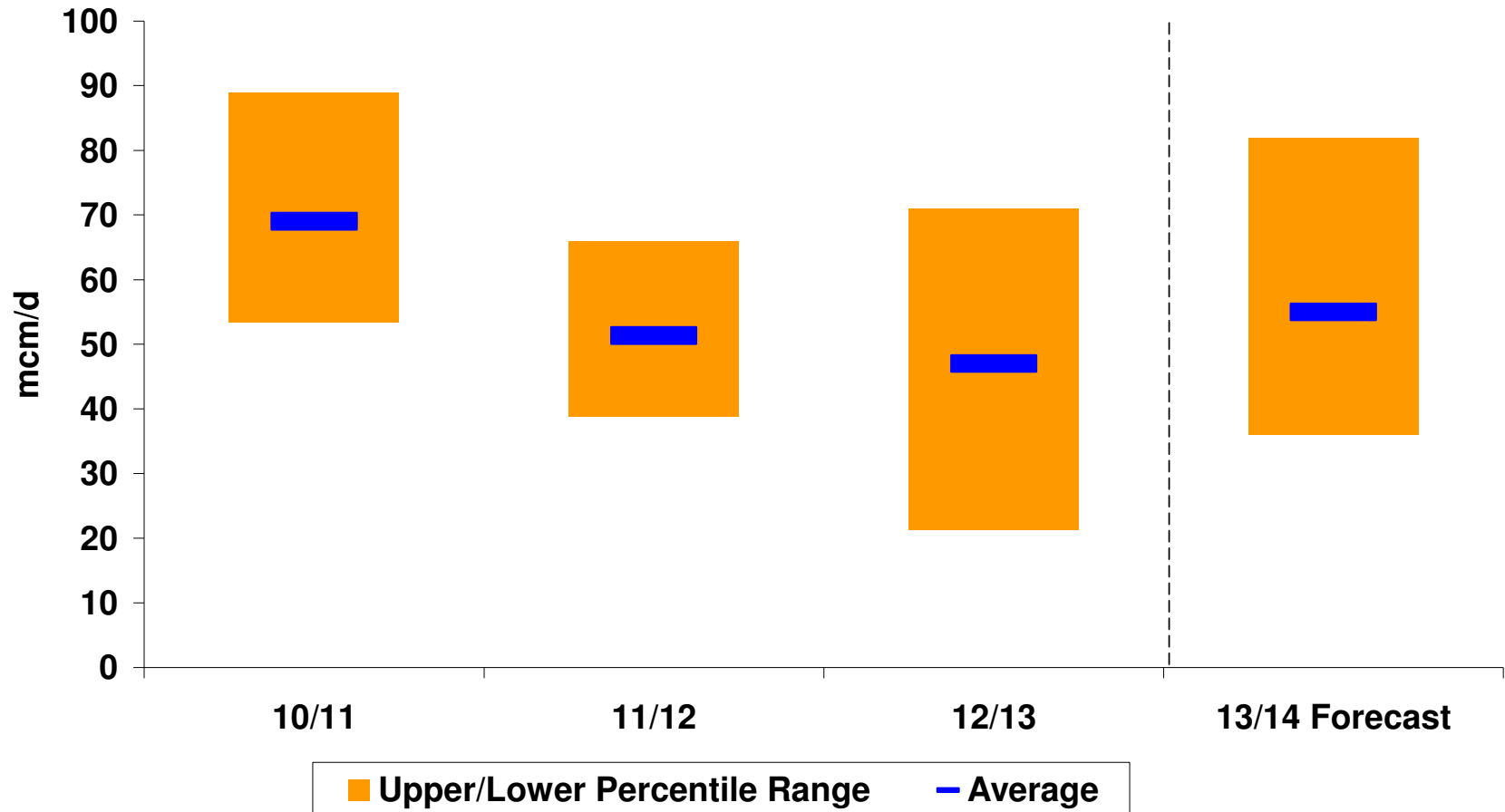
# Power Generation

1st October 2012 to 30<sup>th</sup> September 2013

## Gas Consumption for Power Generation



# Historic Power Gen Demand & 2013/14 Forecast



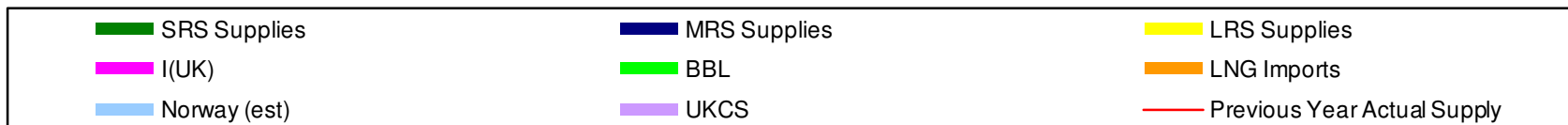
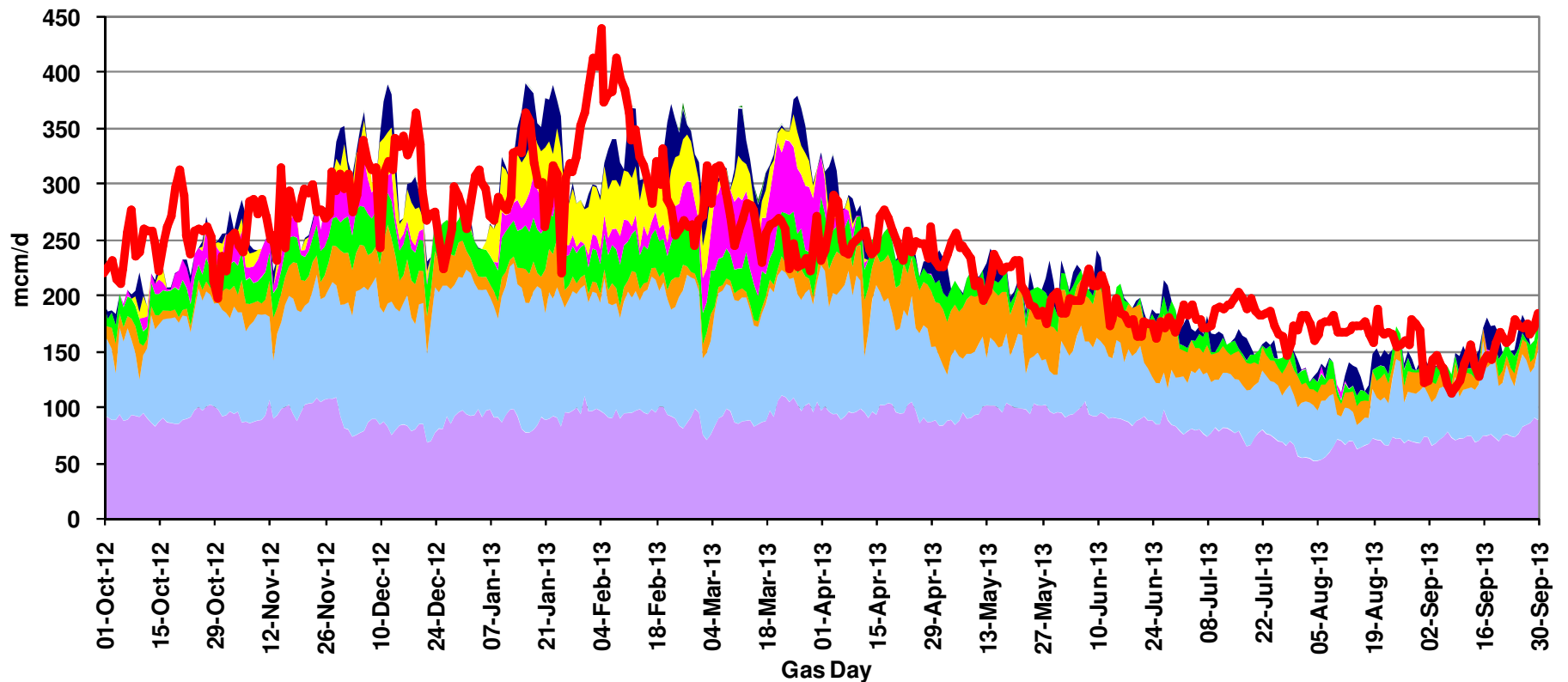
# Supplies



# Gas Supply Breakdown

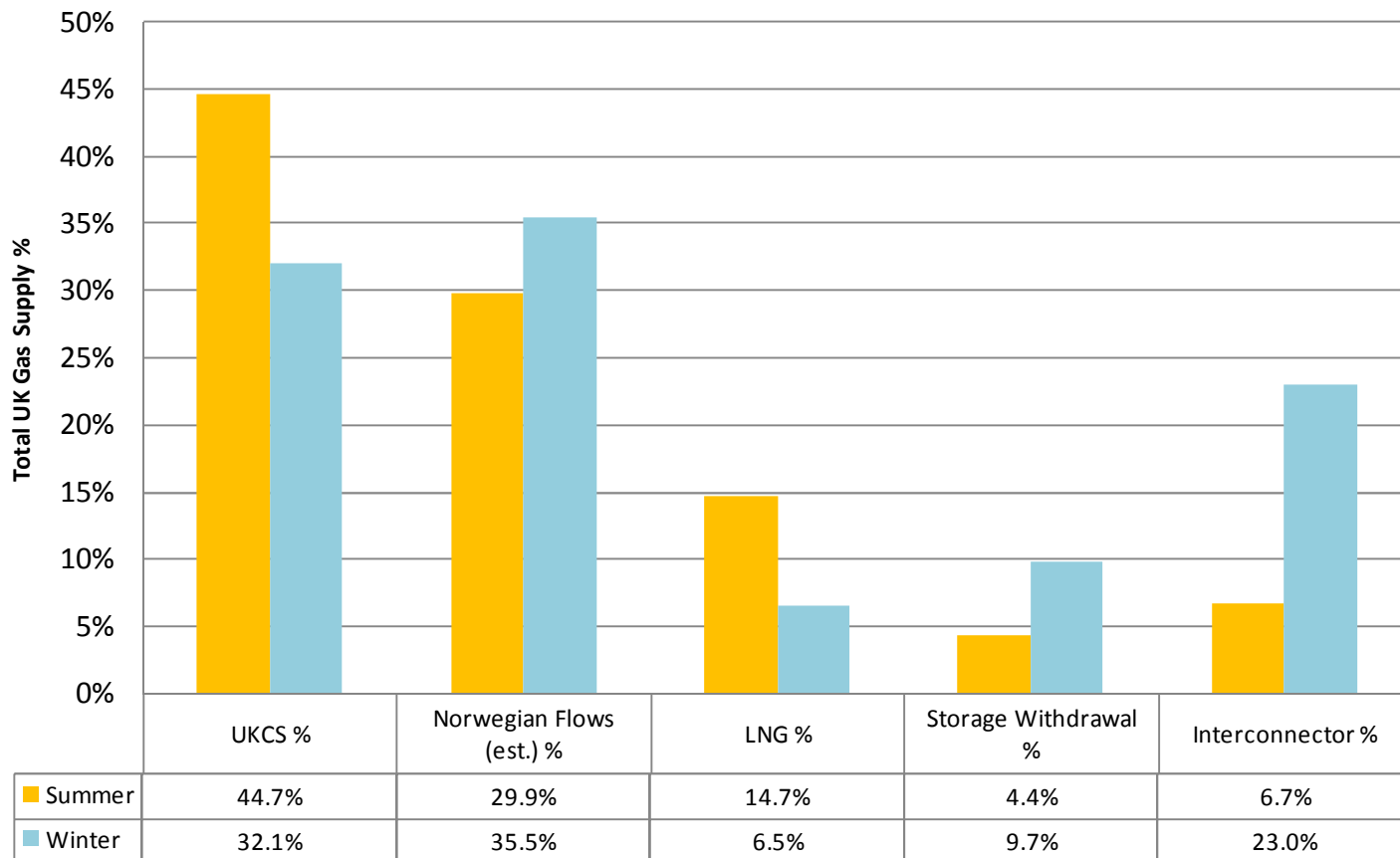
1<sup>st</sup> Oct 2012 to 30<sup>th</sup> September 2013

**Gas Supply Breakdown**  
1st October 2012 to 30th September 2013



# Supply Mix

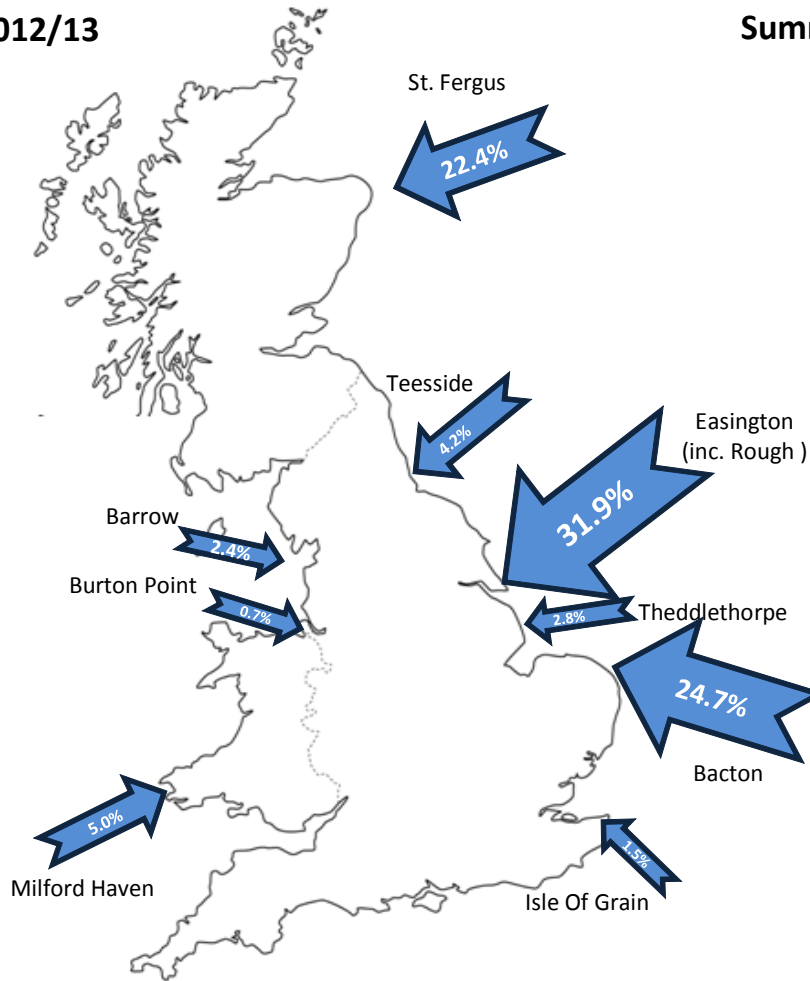
**Average Daily Supply % - Winter vs. Summer 2013**



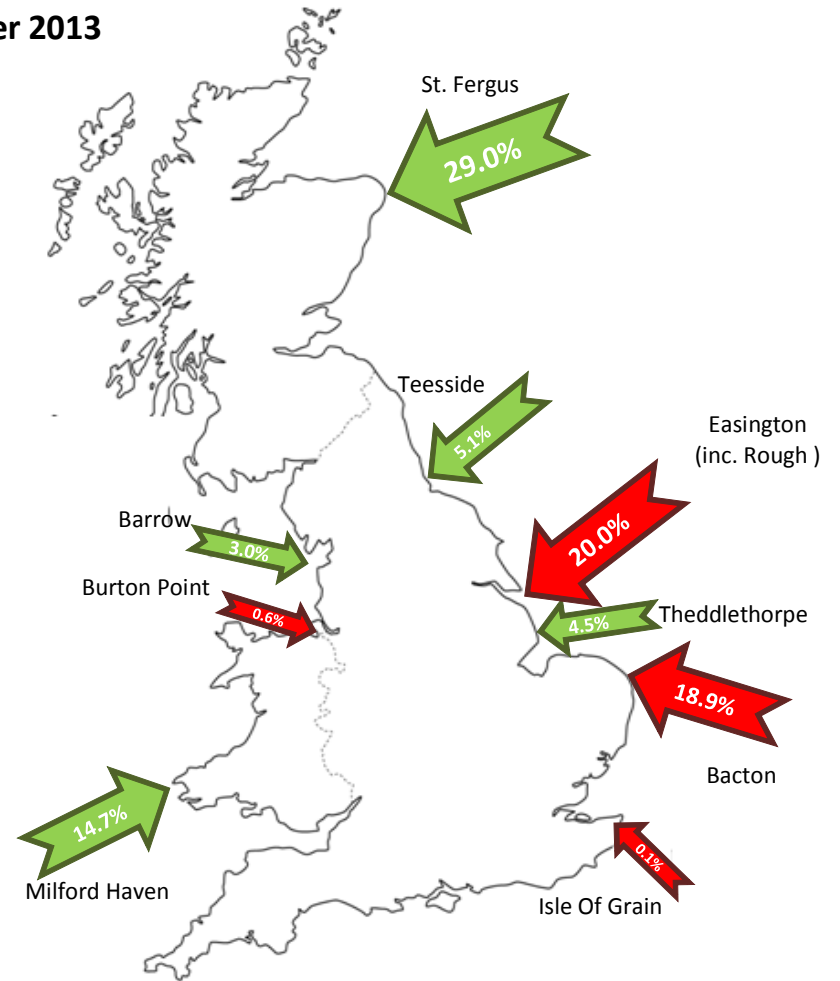
# Geographic Supply Profile – Winter vs. Summer 2012/13

nationalgrid

Winter 2012/13

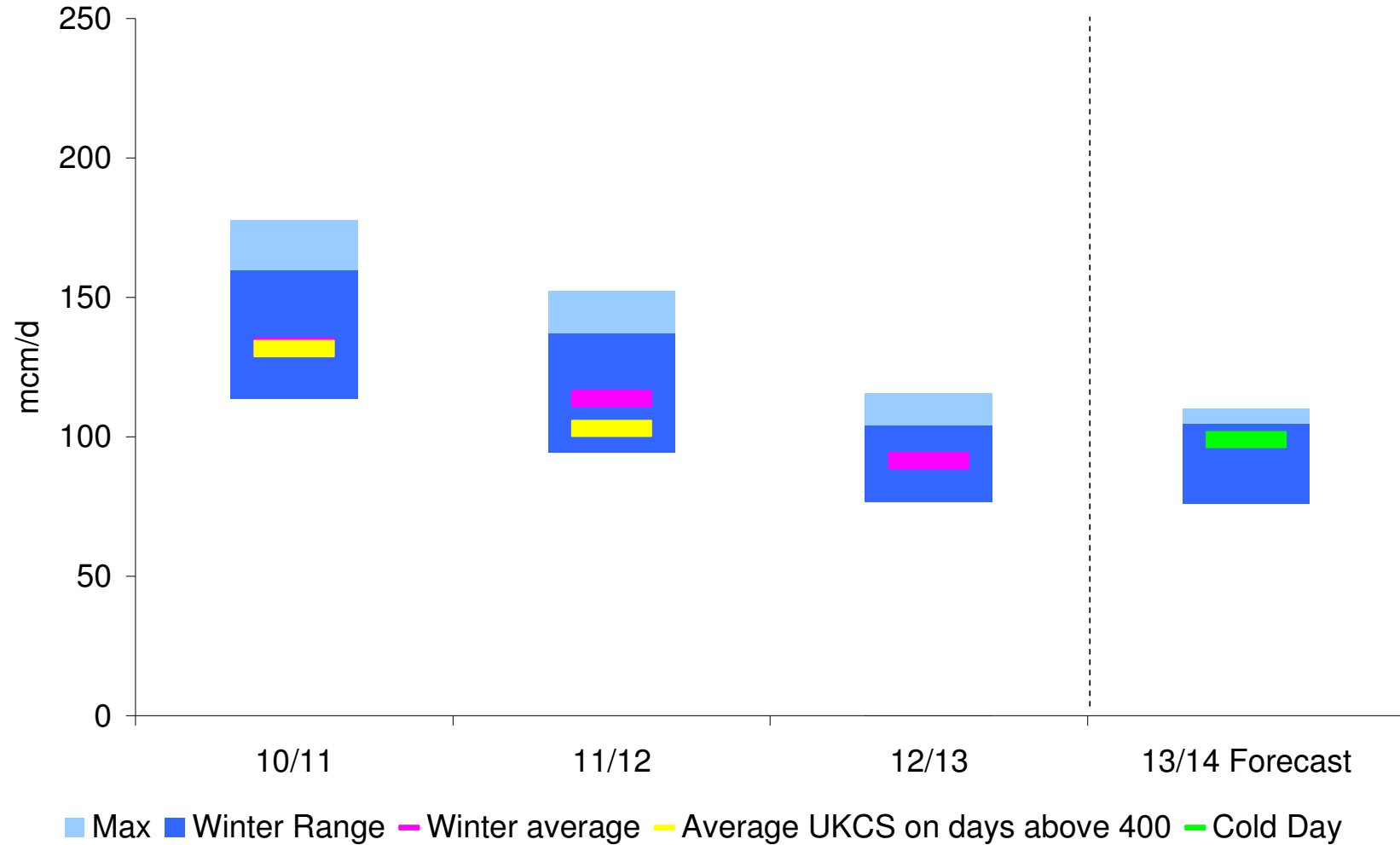


Summer 2013





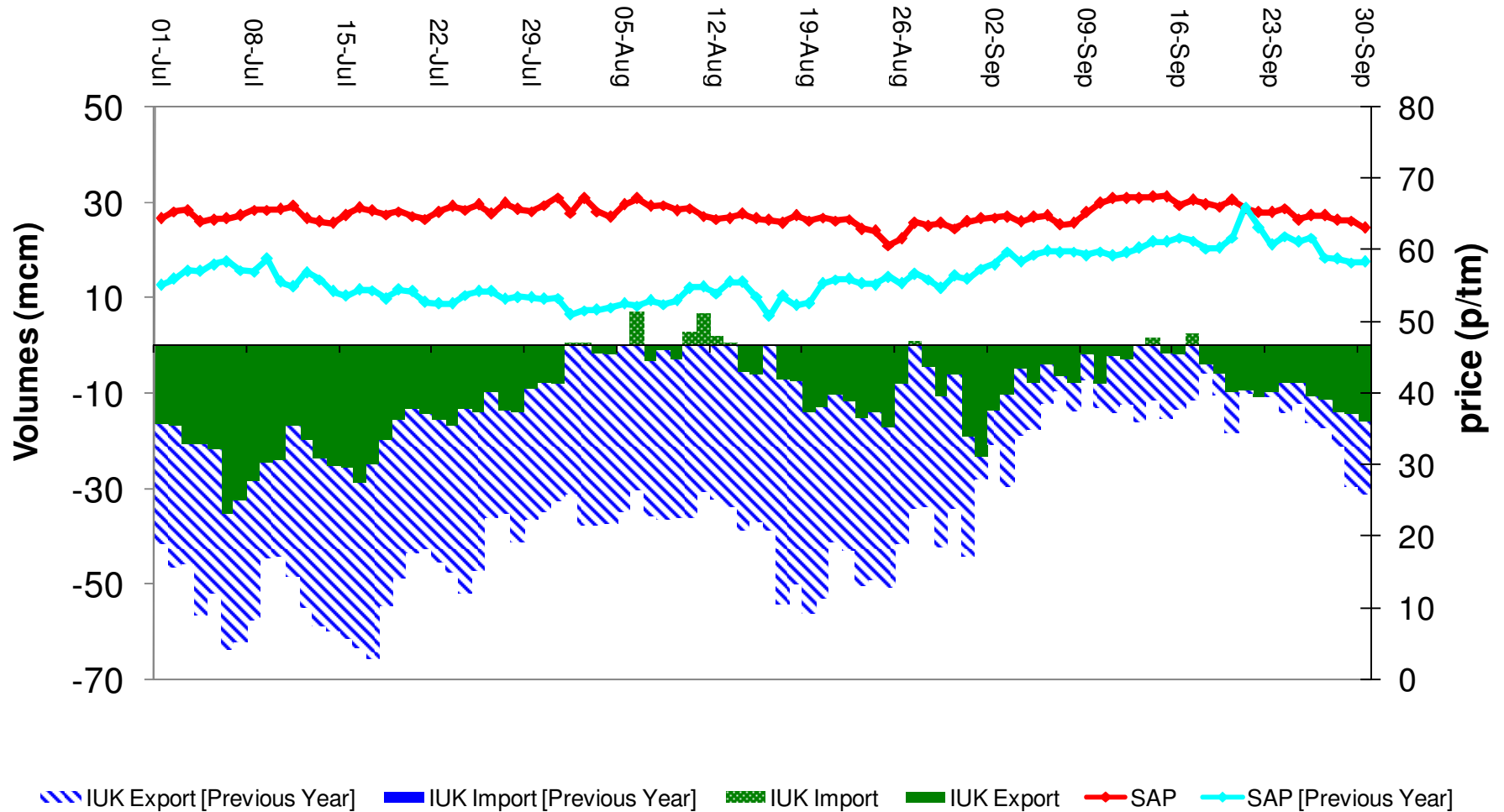
# UKCS Historic Flows and 2012/13 Forecast



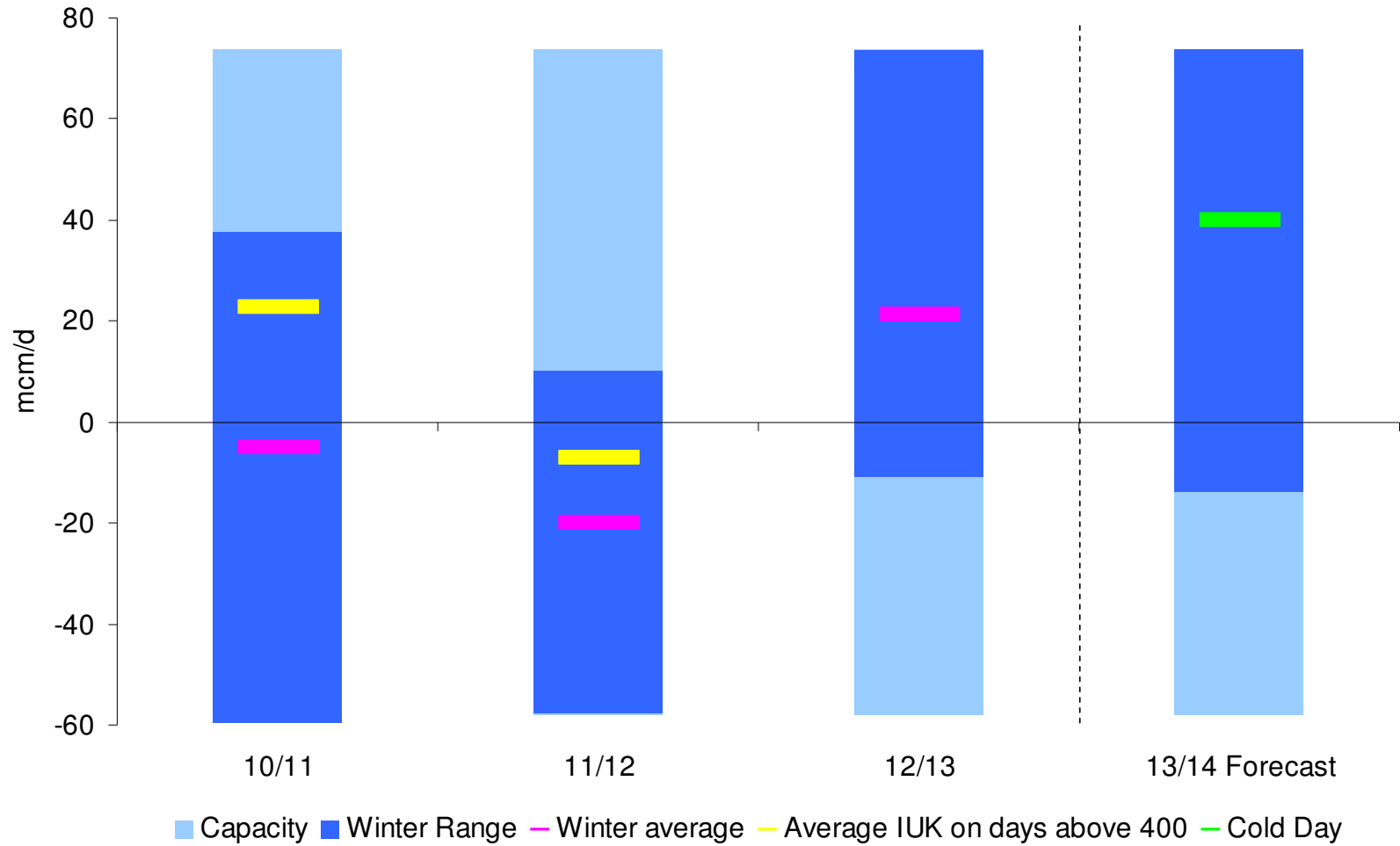
# Gas Supply Breakdown – IUK

1<sup>st</sup> July to 30<sup>th</sup> September 2013

IUK Export / Import volumes Jul - Sep 2013 vs Previous Year / SAP



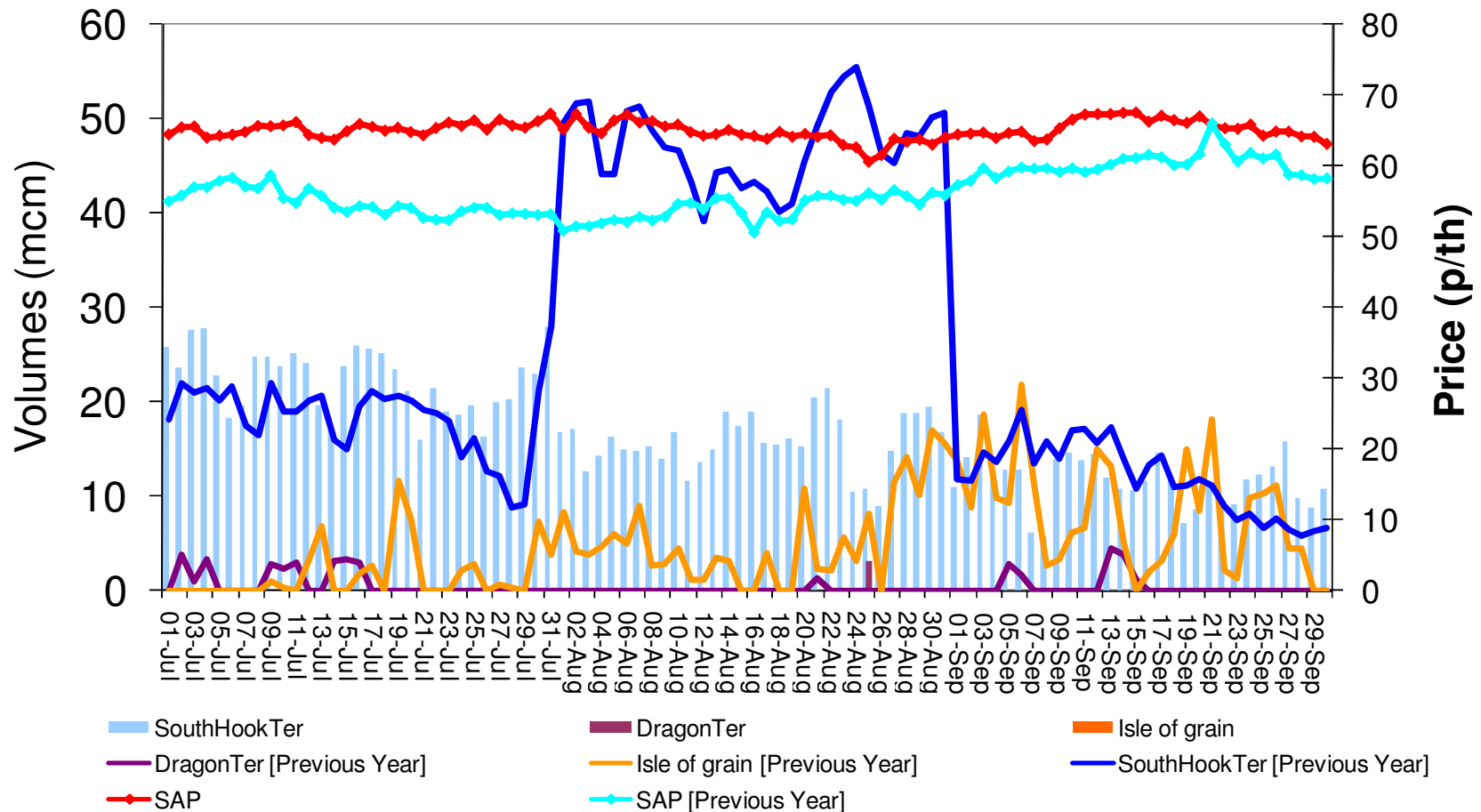
# IUK Historic Flows & 2013/14 Forecast



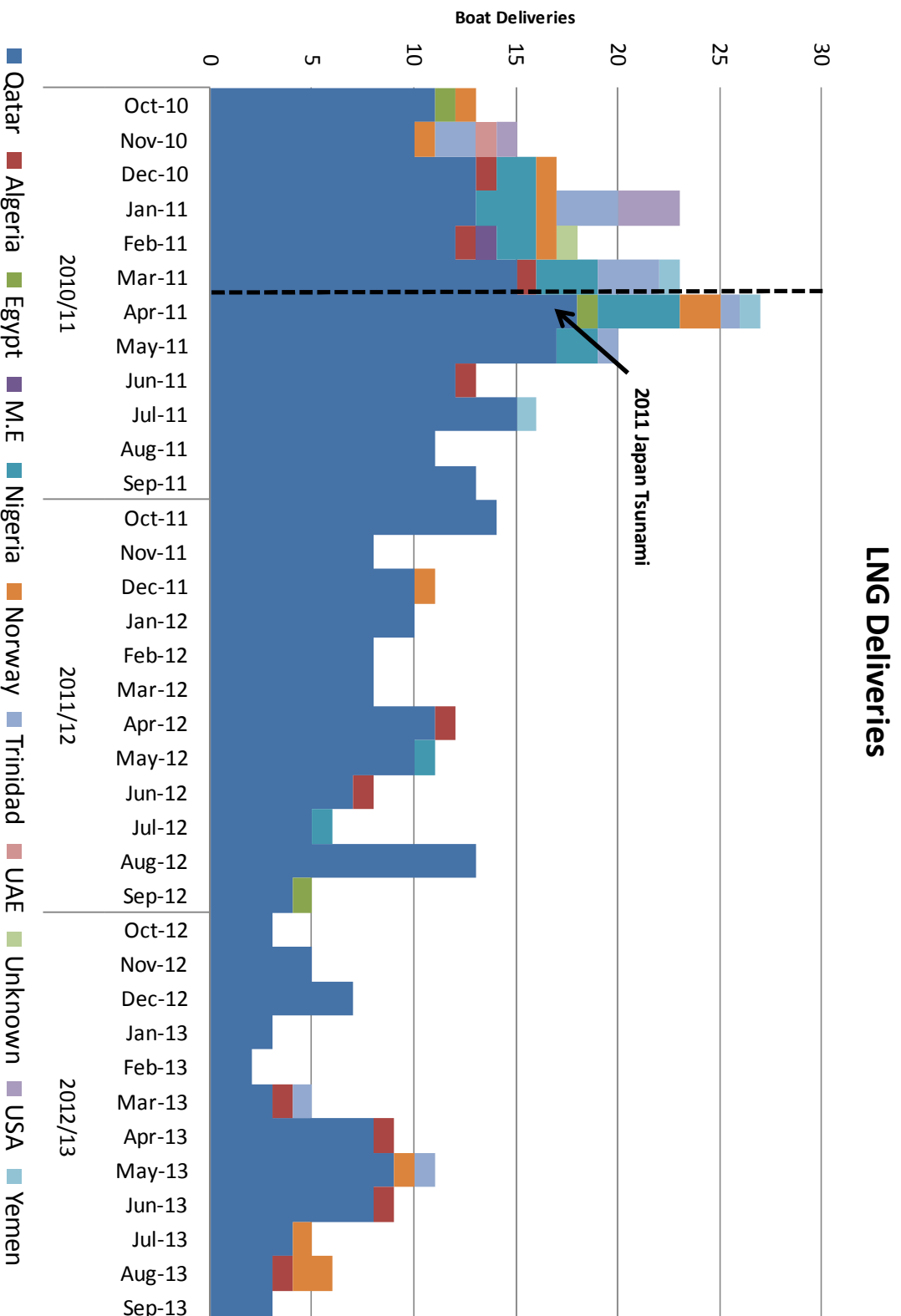
# Gas Supply Breakdown – LNG

1st July to 30th September 2013

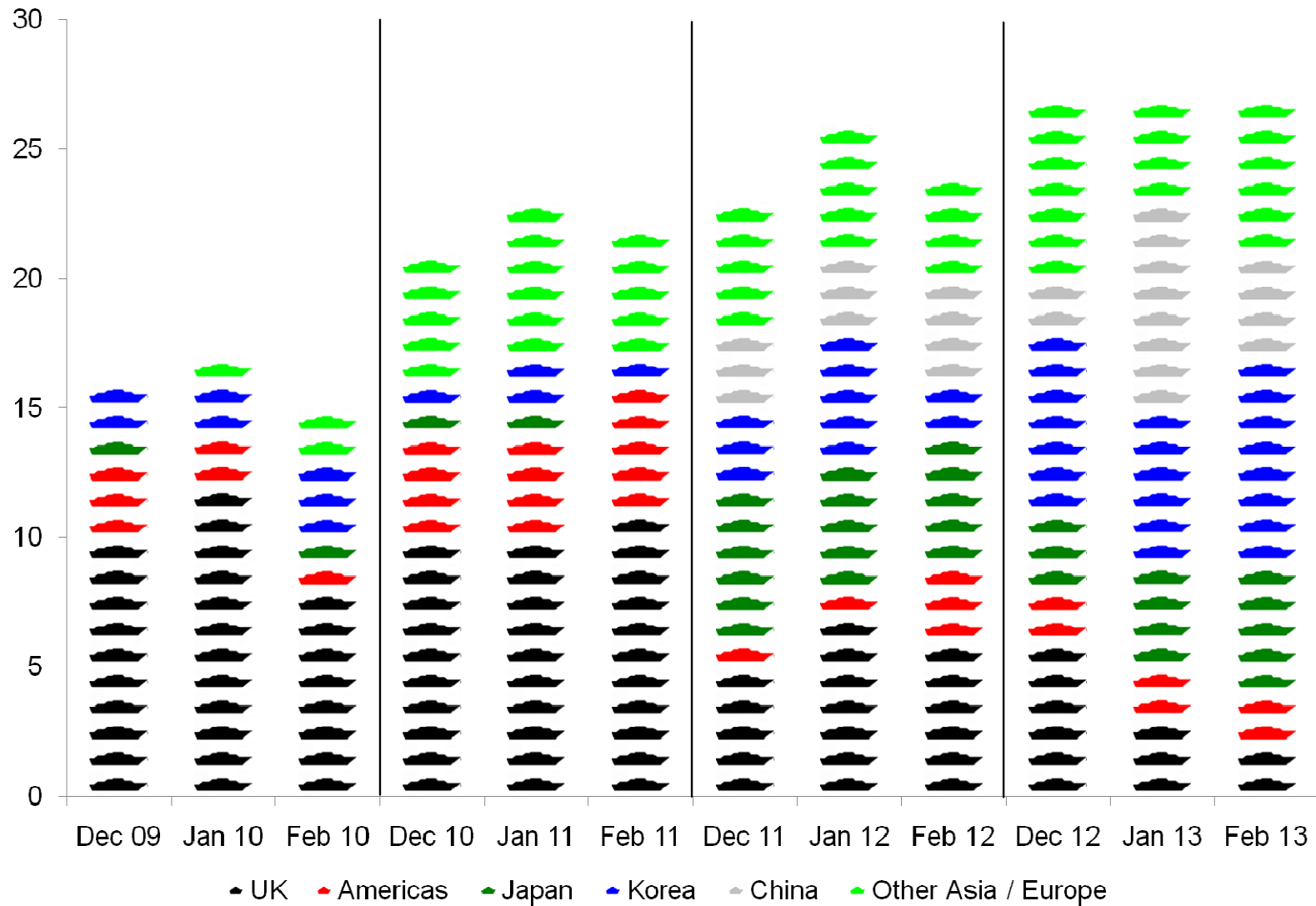
## LNG terminal flows Jul - Sep 2013 vs Previous Year / SAP



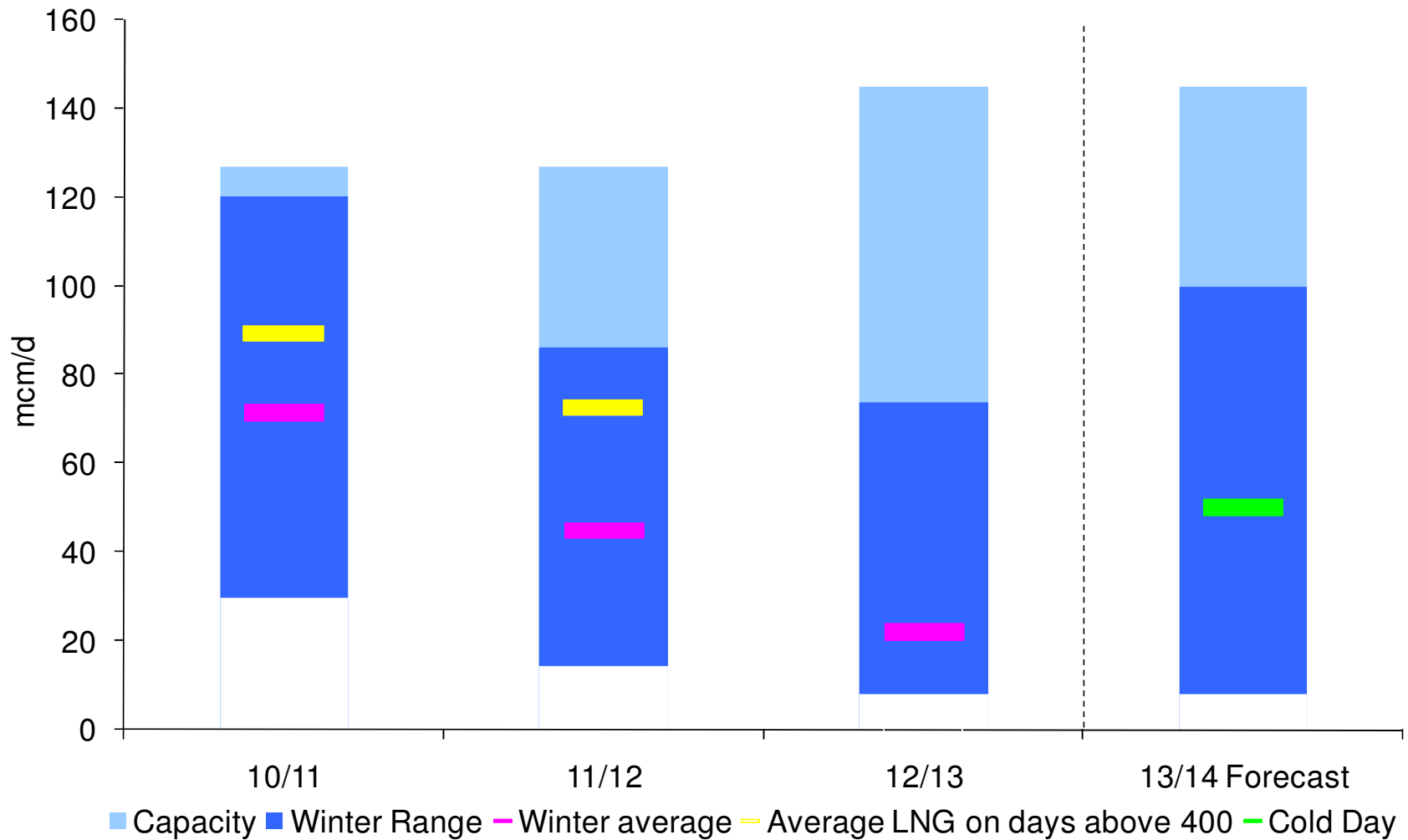
# Gas Supply Breakdown – LNG Deliveries



# Destinations of Top 30 Most Regular UK LNG Tankers



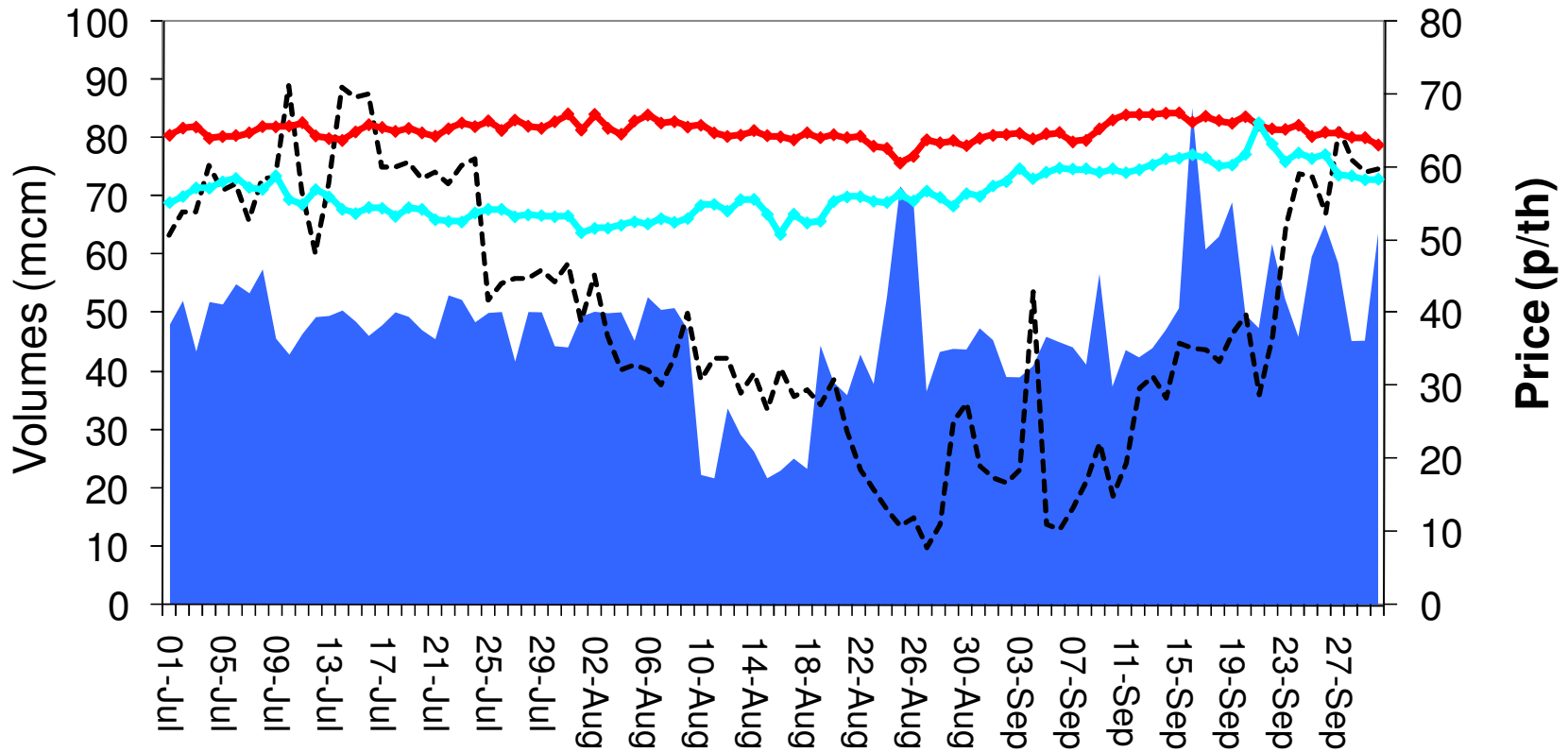
# LNG Historic Flows and 2013/14 Forecast



# Gas Supply Breakdown – Norway

1<sup>st</sup> July to 30<sup>th</sup> September 2013

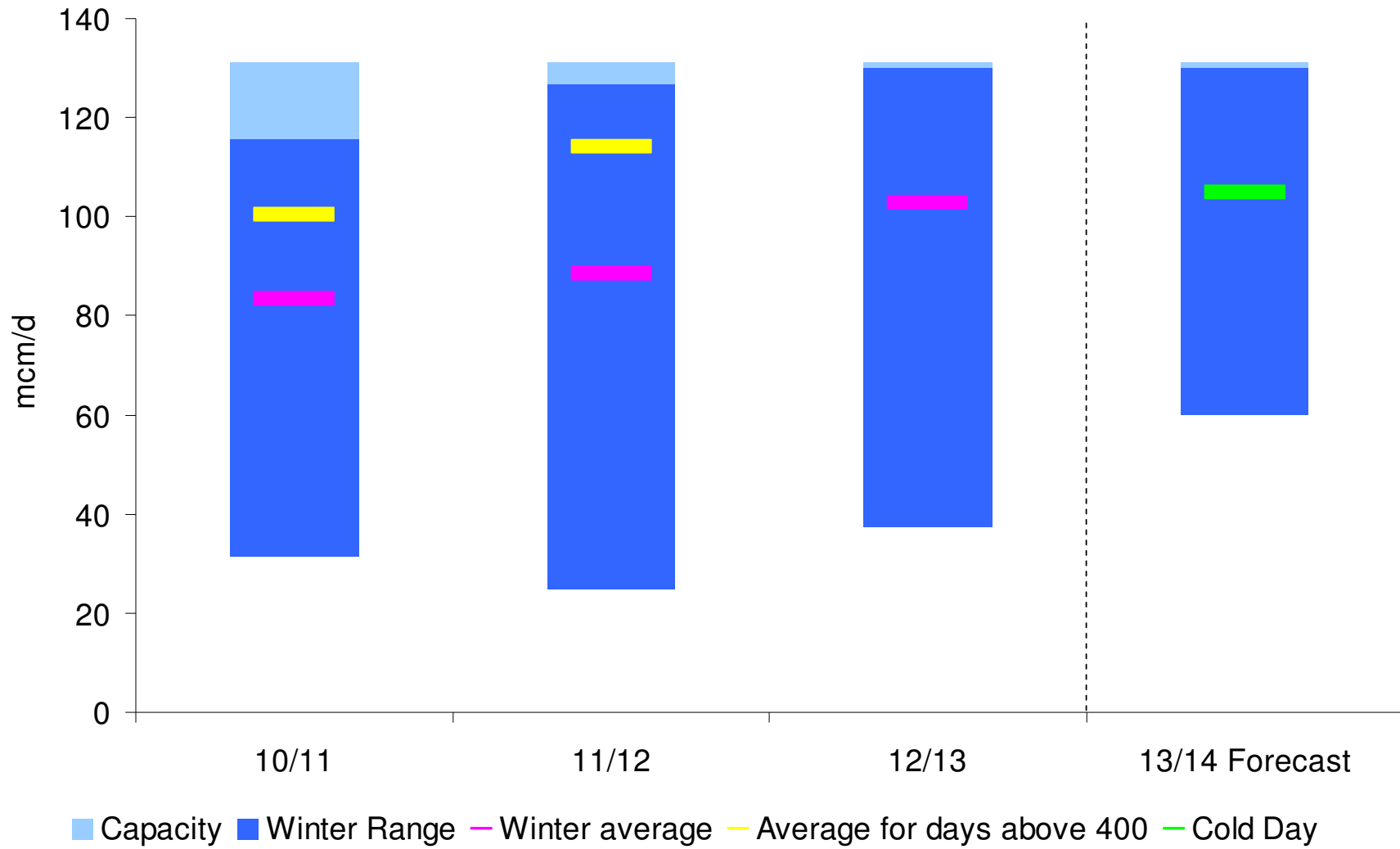
Norwegian\* supply volumes Jul - Sep 2013 vs Previous Year / SAP



\*Estimated  Norway\*  Norway\* [Previous Year]  SAP  SAP [Previous Year]



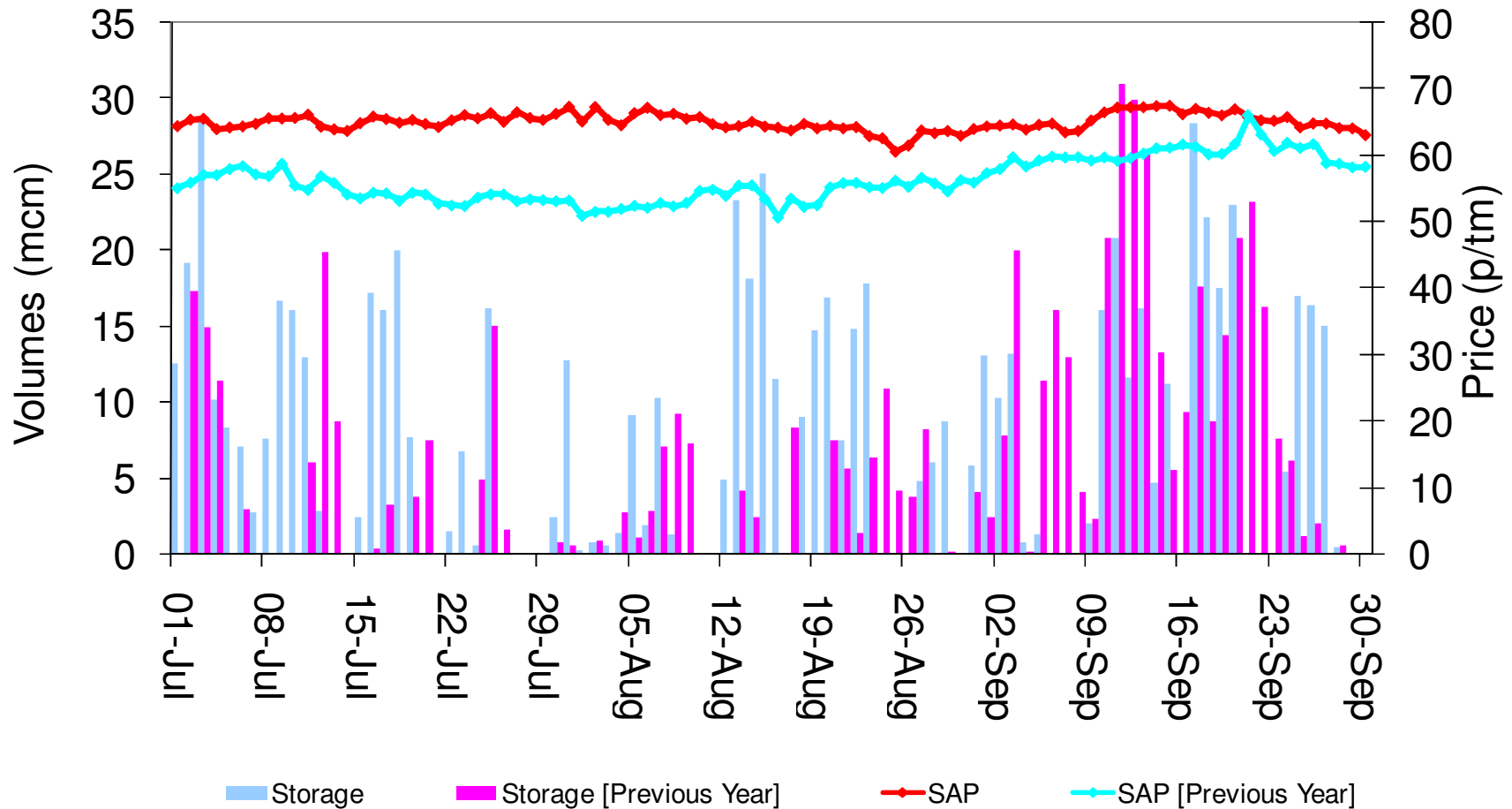
# Norwegian Historic Flows and 2012/13 Forecast



# Gas Supply Breakdown – Storage

1<sup>st</sup> July to 30<sup>th</sup> September 2013

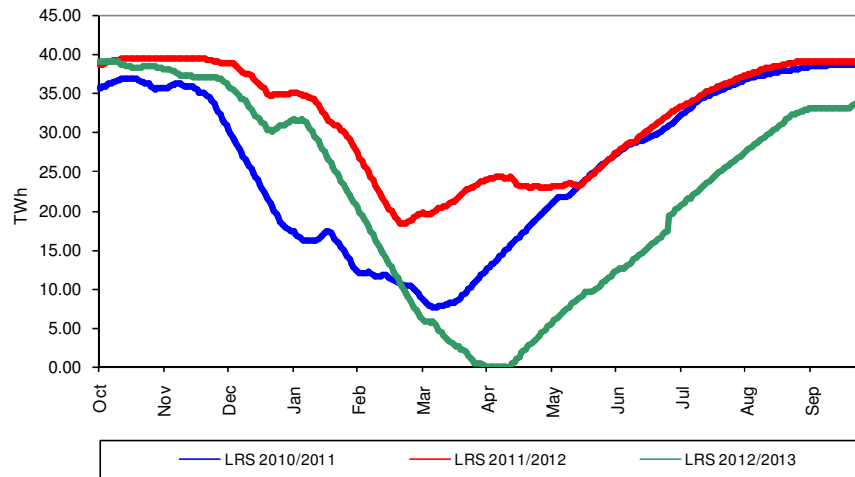
Storage flows Jul - Sep 2013 vs Previous Year / SAP



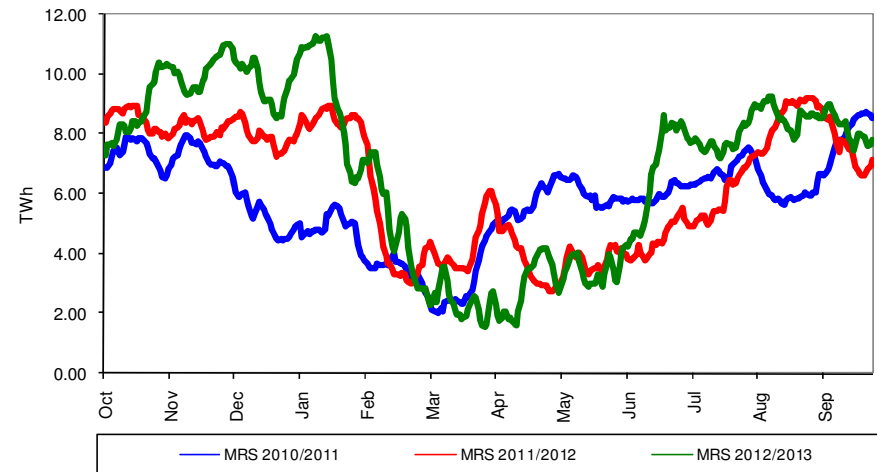
# Storage Stocks - UK

1<sup>st</sup> Oct 2012 to 30<sup>th</sup> September 2013

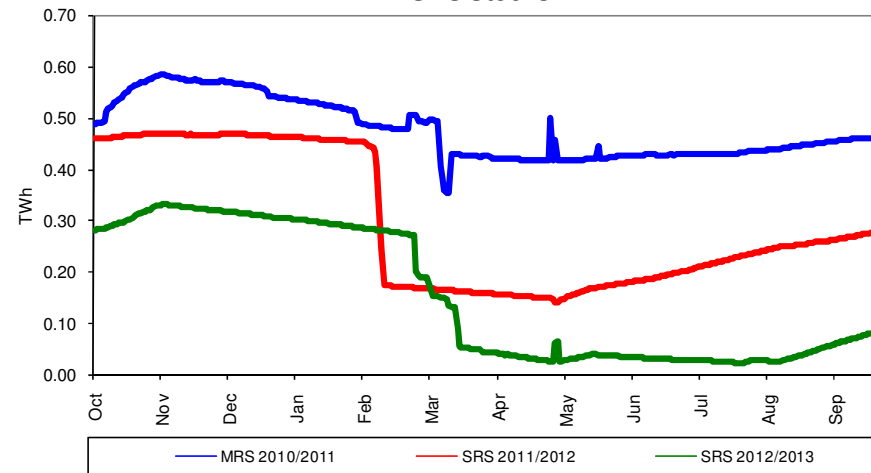
LRS Stocks



MRS Stocks

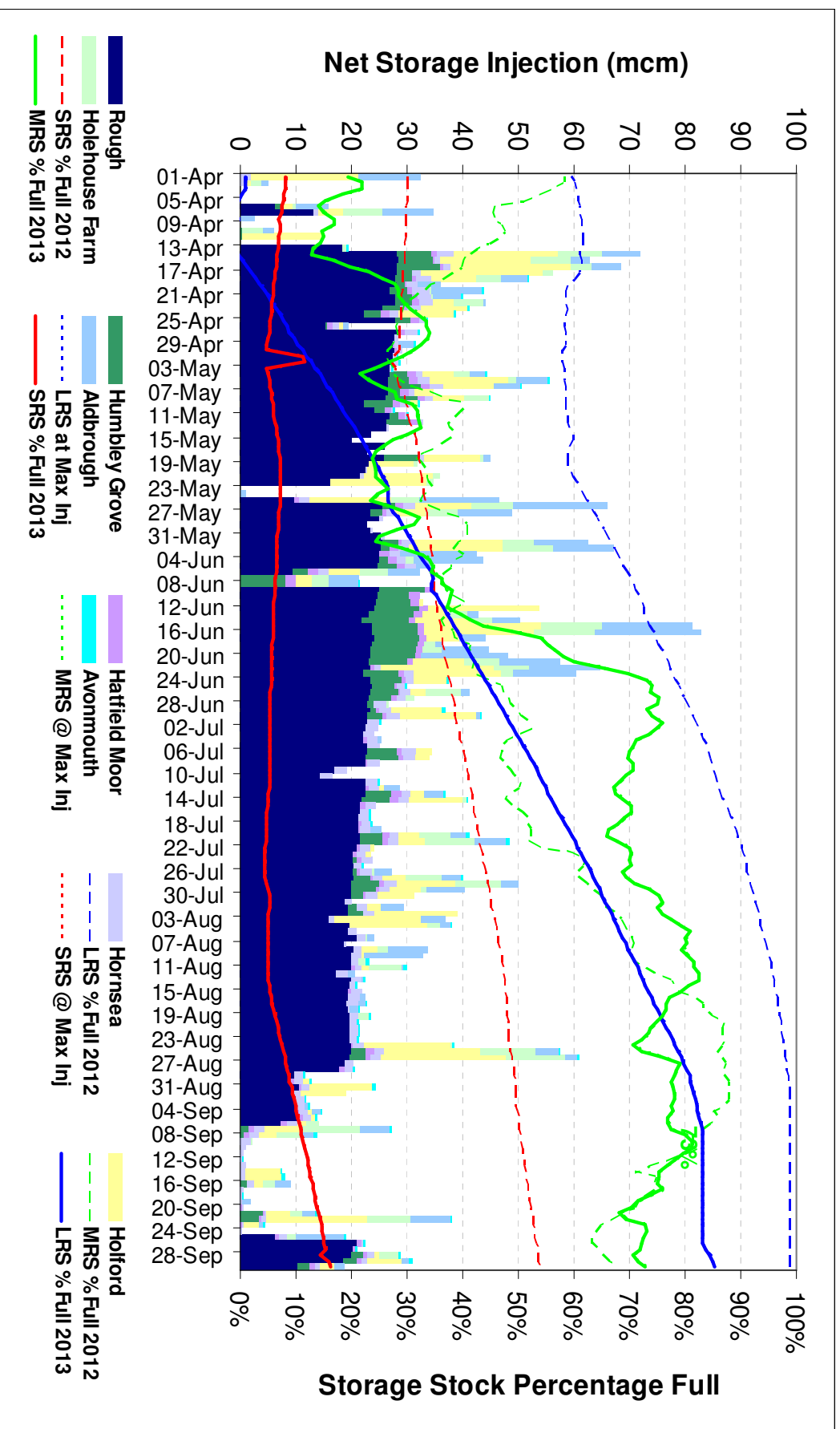


SRS Stocks

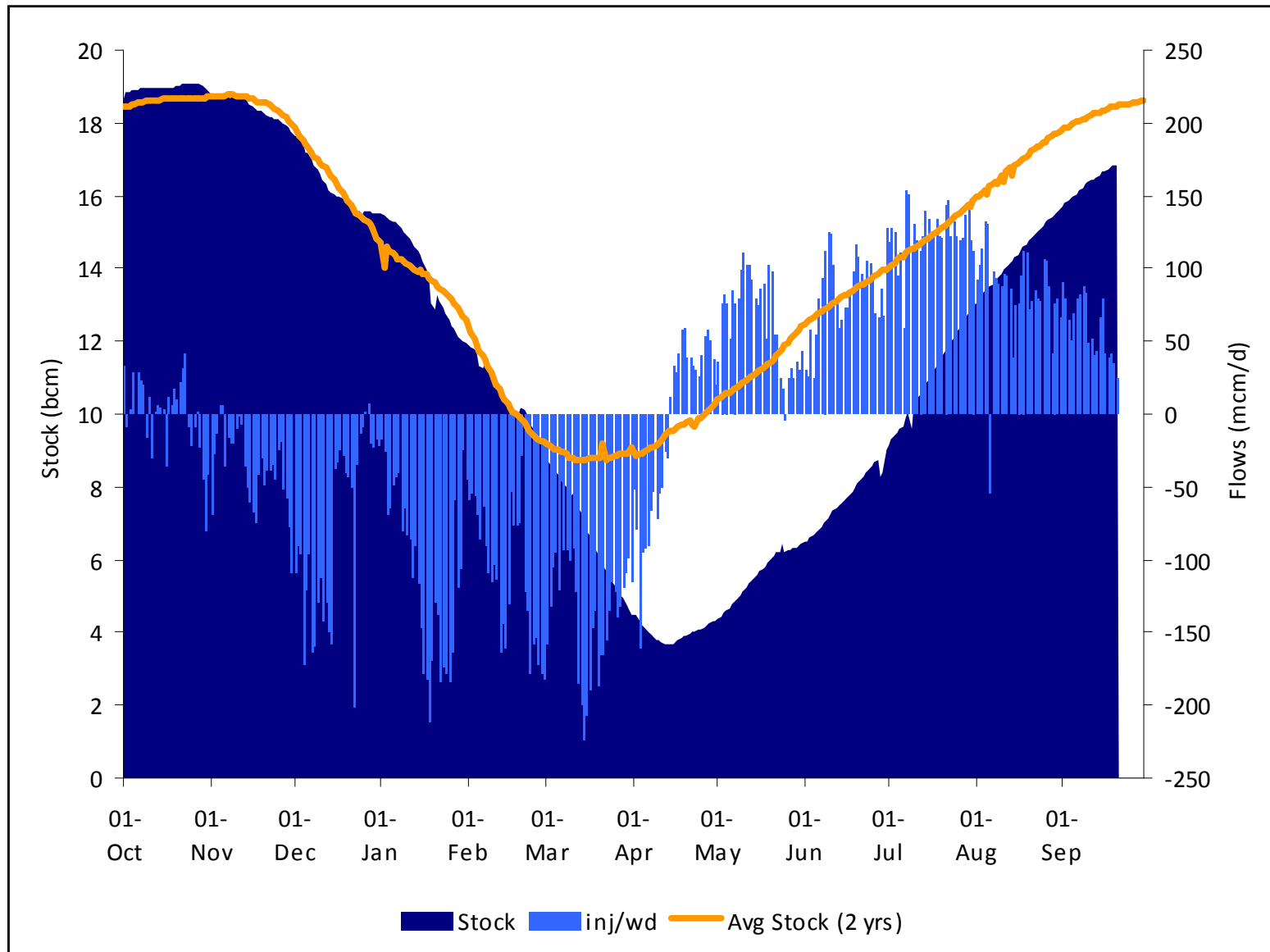


# 2012/13 Reflection

## Storage Stocks

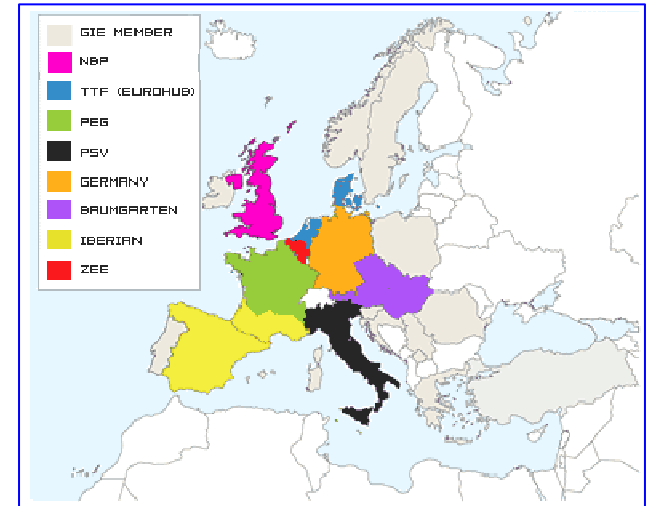
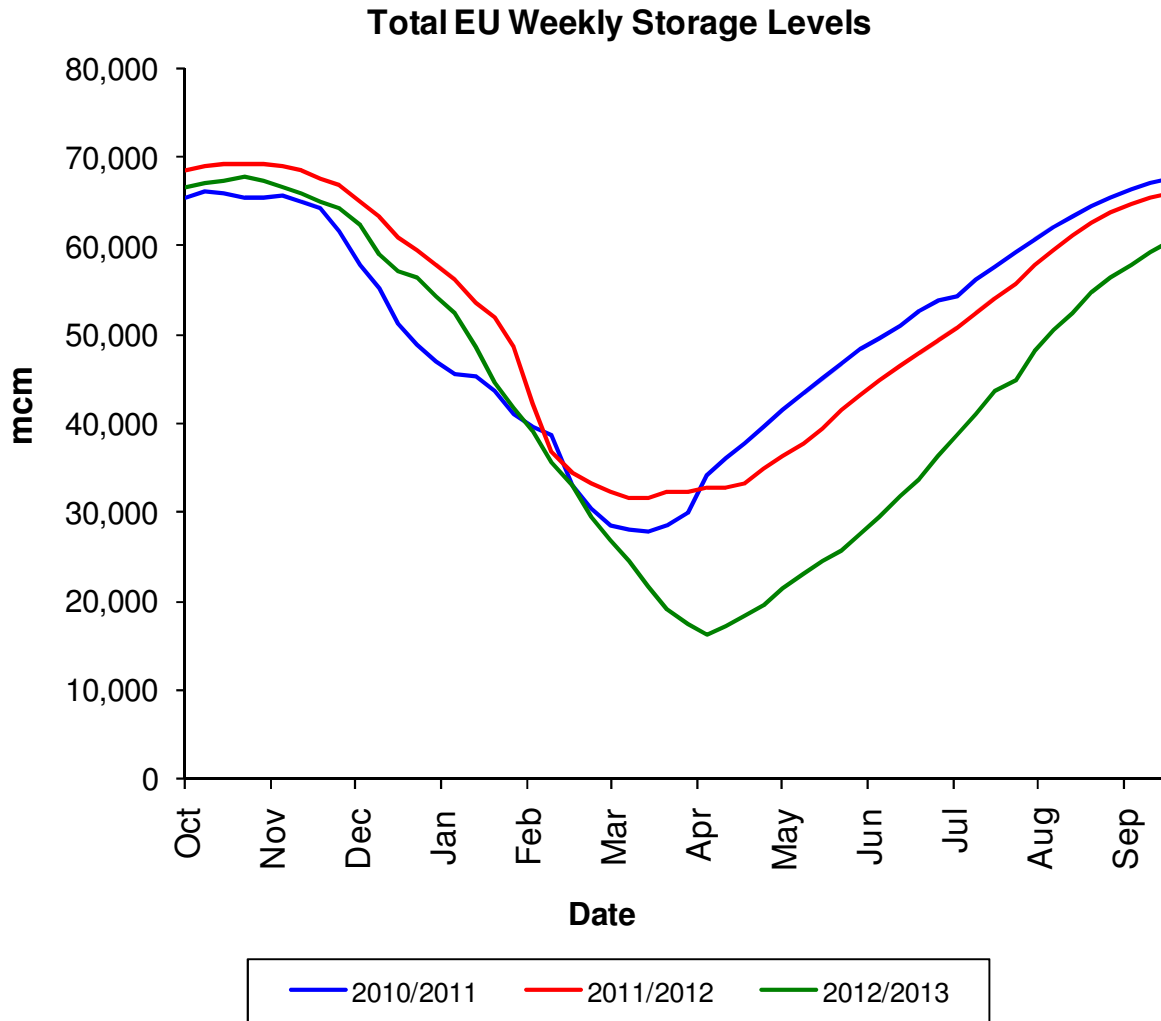


# German Storage



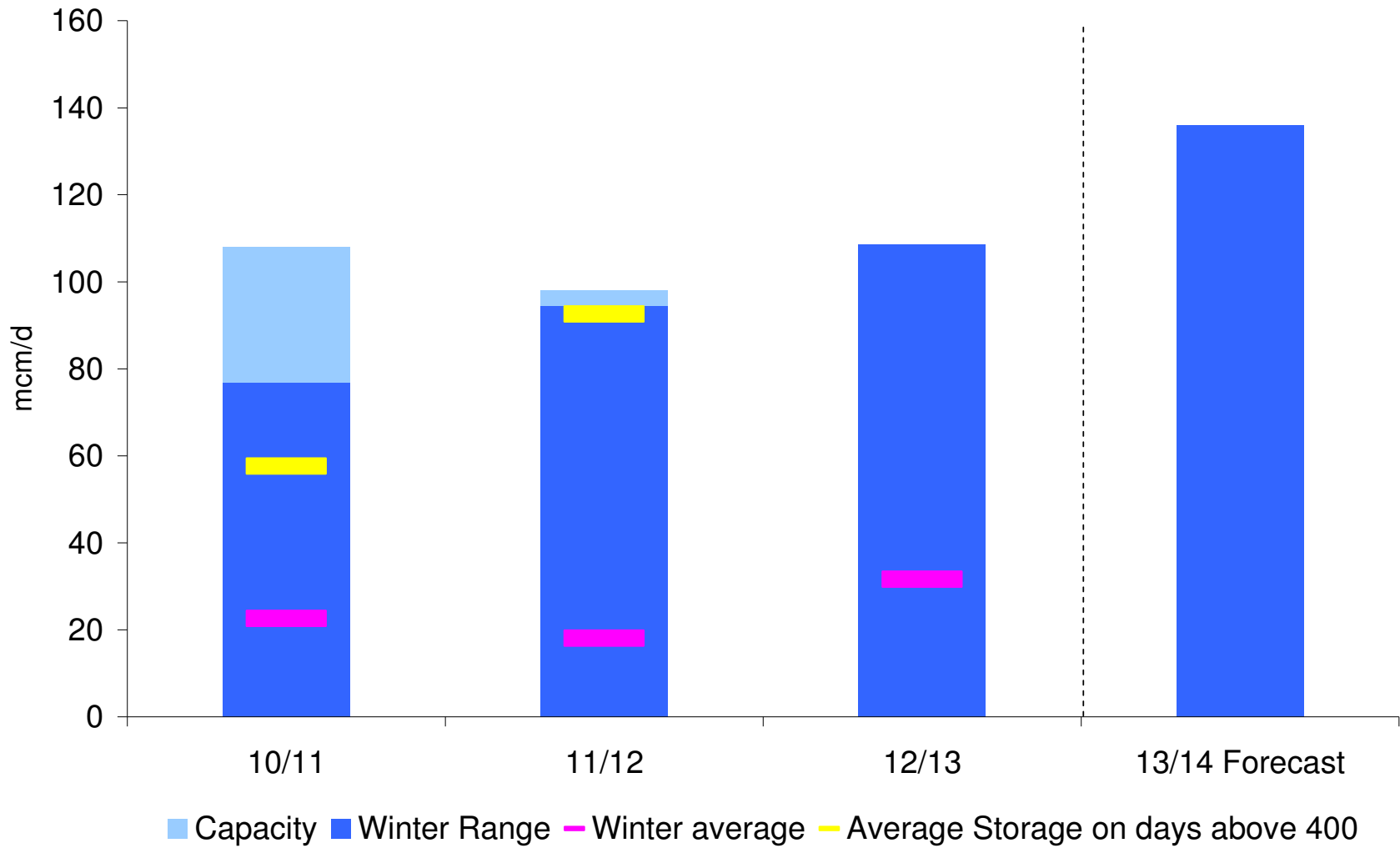
# Storage Stocks - EU

From 1<sup>st</sup> Oct 2012 to 30<sup>th</sup> September 2013 vs. Previous Years

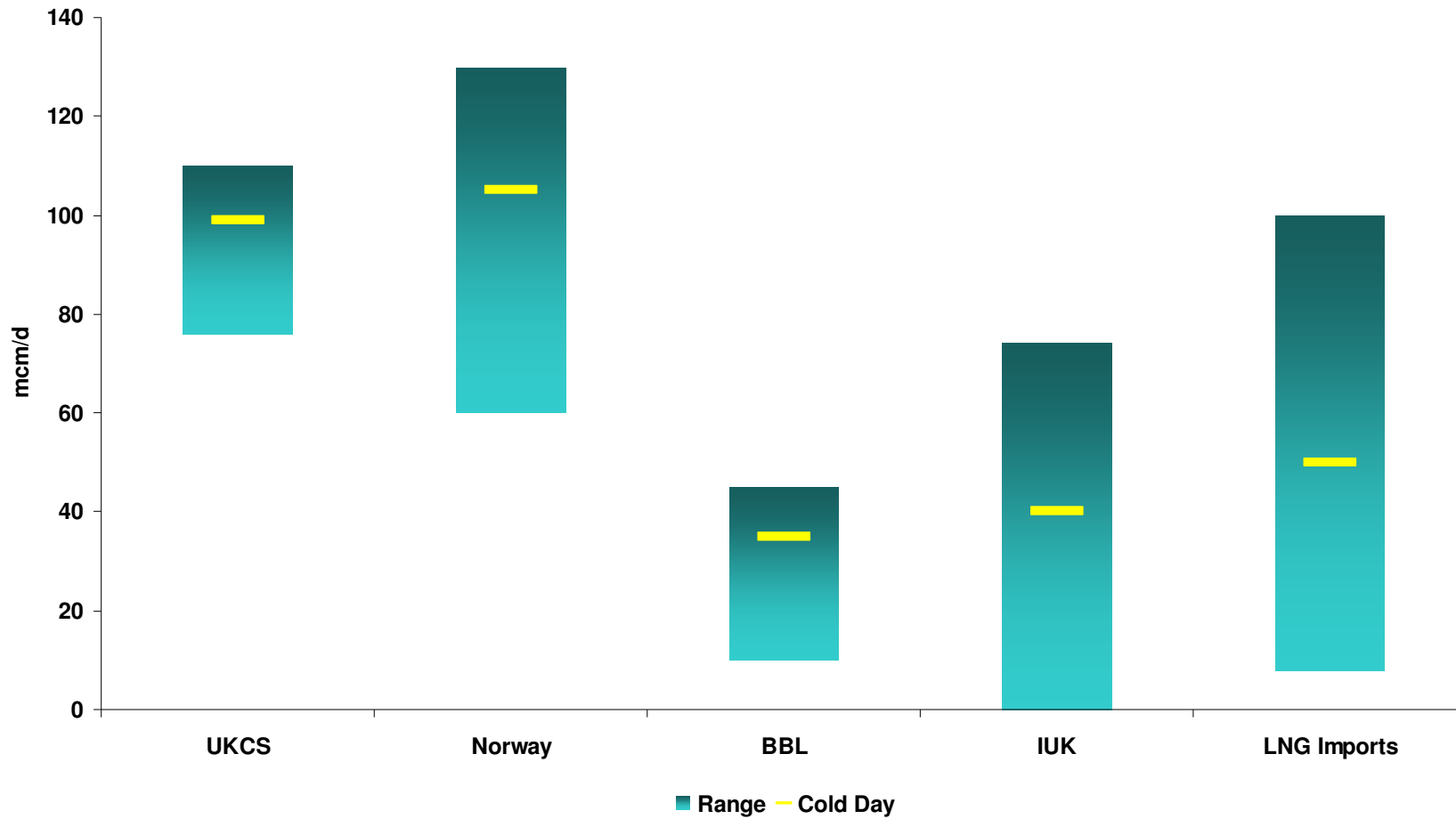


Stocklevel Status at 06:00CET on Wed 02/10/2013		
Hub Area	Stock Level (mcm)	% Full
Baumgarten	11628	68%
Germany	17394	75%
Iberian	2333	81%
NBP	4148	87%
France	9324	75%
PSV	13946	84%
SOUTH-EAST	391	71%
TTF (Eurohub)	1519	74%
ZEE	587	83%
<b>Total Hubs</b>	<b>61270</b>	<b>78%</b>

# Storage Historic Flows and 2013/14 Forecast



# Supply Ranges





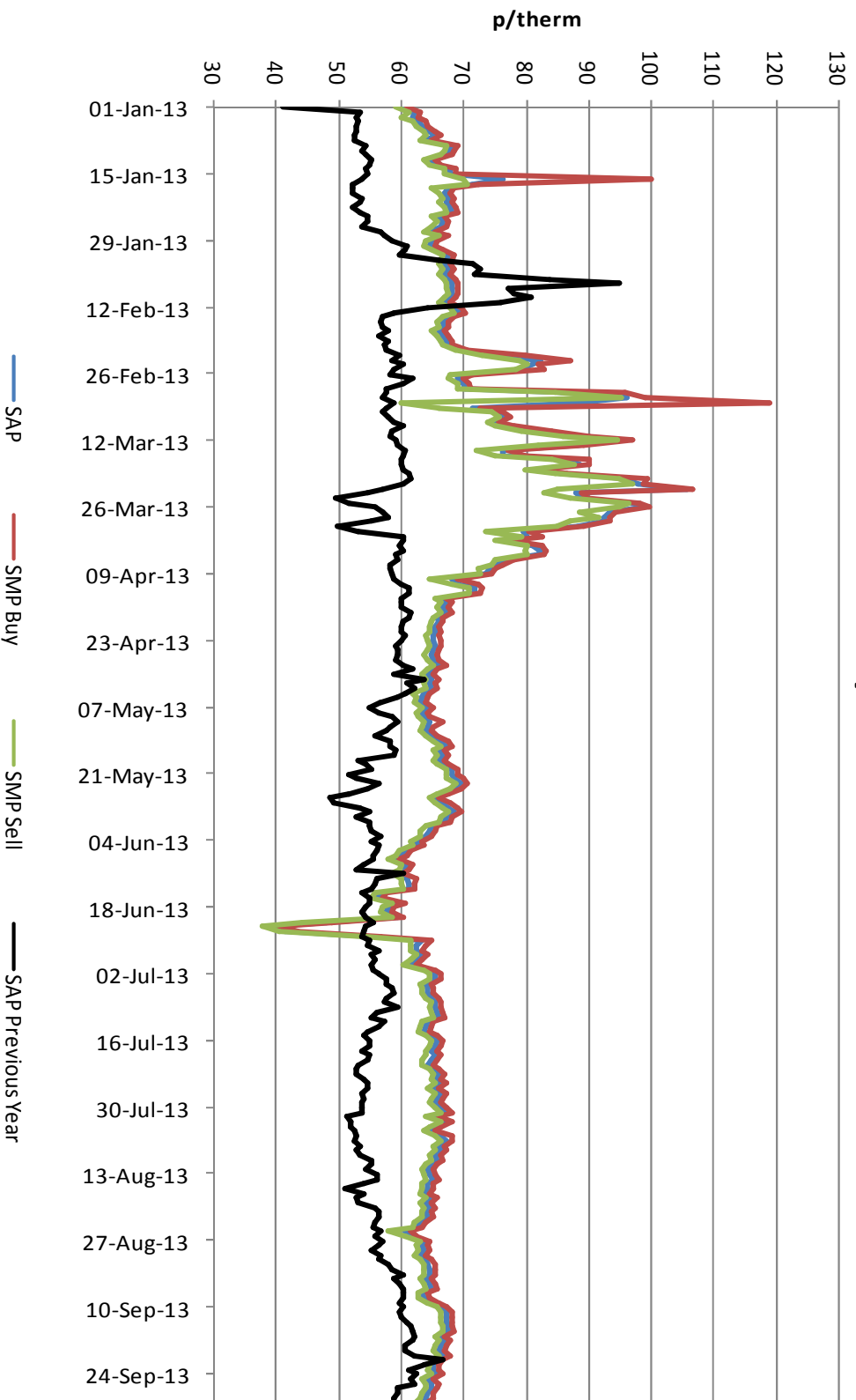
# Winter 2013/14 gas supply issues

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- UKCS similar to last year, expectation of new developments to offset further decline
- Norway, lower production due to long term outage at Troll
- Continental storage below last year but filling
- LNG
  - Upside
    - Increased global production
    - Increased coal burn in Japan and possible nuclear restarts
  - Downside
    - Increased global demand (new and established markets)
    - Continuing nuclear shutdown in Japan
    - Decline in LNG available for export
- UK storage about 80% full, expectation of near full by early November
- Increased deliverability and space at Aldbrough and Holford
- Commercial operations to commence at Hill Top
- Stublach commissioning late winter but commercial operations not expected

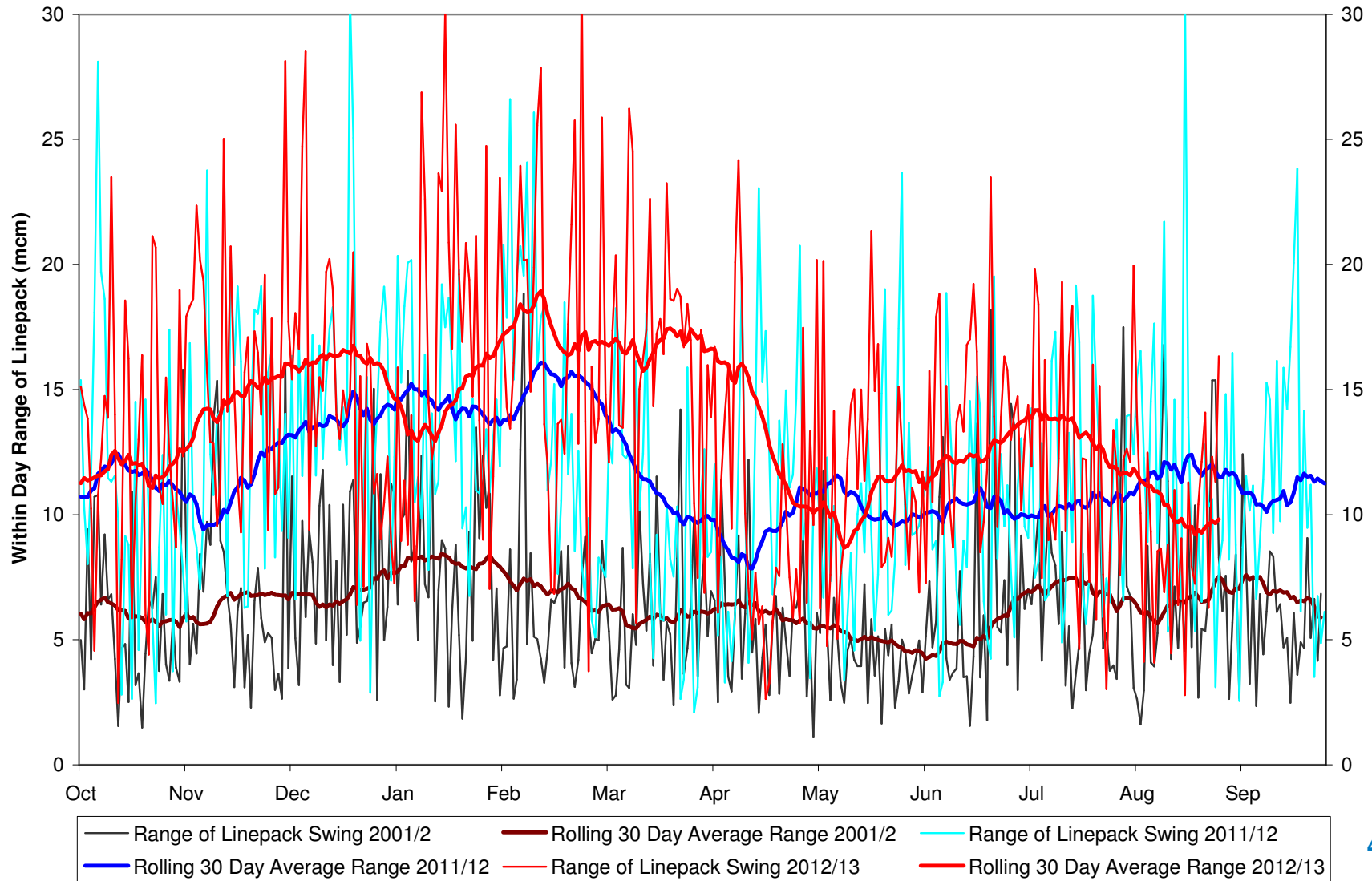
# UK Gas Prices

System Prices  
1st Jan 2013 to 30th September 2013 Vs Previous Years SAP



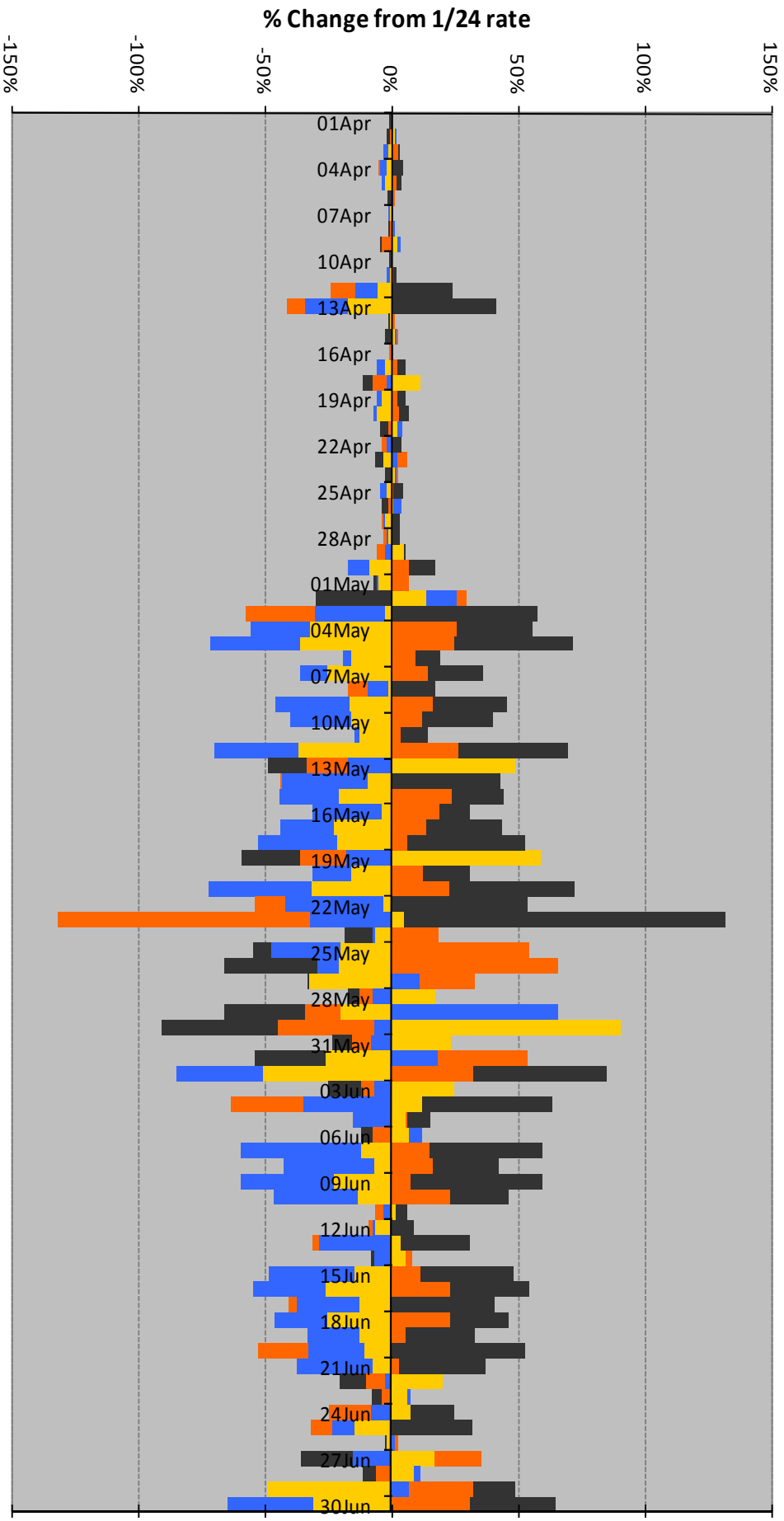
# Actual Linepack 2001/02 vs. 2011/12 & 2012/13

Comparison of Within Day Max-Min Range of NTS Linepack (mcm)



# Supply Dynamics

nationalgrid



# Supply Dynamics

