

National Grid Transco

Operational Forum

15th February 2005

System Operations - Cutover

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AGENDA

System Operations - BETTA Cut-over

- Recap / key message
- Grid Code Consultations
- Market data provision
- Balancing Mechanism
- Transmission Despatch

Recap / Key Message

- **Go-Live 1 April 2005**
- **NGT System Operations assumes responsible for GB**
 - energy balancing
 - transmission system outage planning
 - real time secure transmission operation
- **Impact of NGT Operations cut-over on you**
 - If you are a E&W generator only, almost none
 - if you are a Directly Connected site and/or Scottish BMU then more significant
- **GB is more of the same in most areas**
 - eg. Balancing Services, no new services, just greater volumes

GB Grid Code Consultations: Cut-over

Grid Code Consultations

Cut-over

- **GB Grid Code - GB OC2 data provision switch-on**
 - Ofgem direction published 18 January 05
 - Scottish Users OC2.4.1.2.3 : 2-52 week submissions start, for periods after GL, from 19 January
 - GB margins on Elexon website in transition
 - E&W forward reporting continues up to GL
- **GB Grid Code - Balancing Codes cut-over**
 - Consultation ref T02/04, closed 31 January
 - Covers last few days and hours before GL
 - Focus on BMU data obligations (eg, 1100 hrs on day ahead)
 - GB Gate Closure 2300hrs on day ahead, BOAs issued

NGT Market data provision - Cut-over

NGT GB Market Data - Transitional provision (1)

- **BMRA data beyond day ahead**
 - E&W only until after GL
 - eg. 2-52 week data currently displayed is E&W only, even beyond 1st April 05

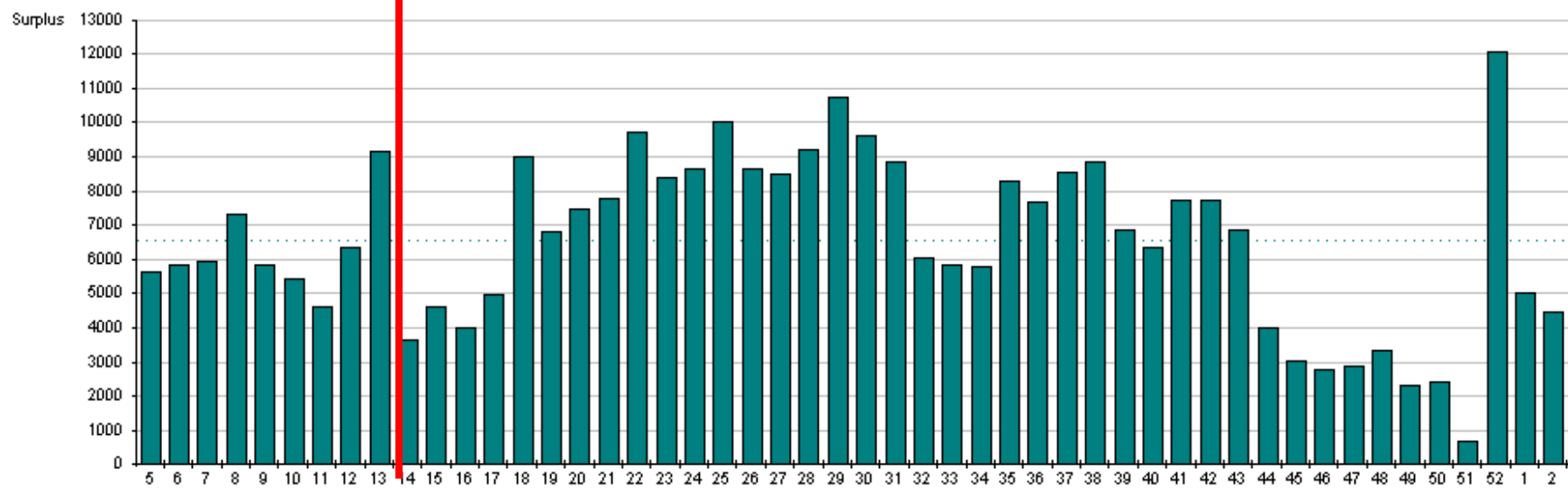
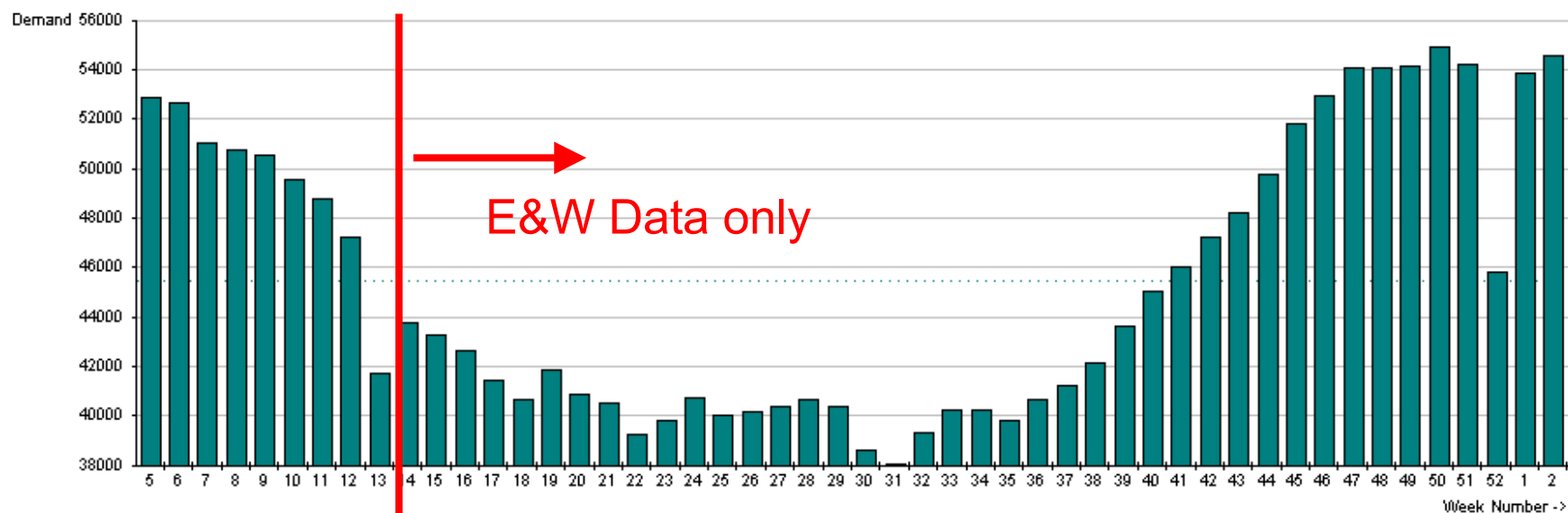
52 Week Ahead Data

Note that from 18/7/03 the numbers included in the calculation of the Surplus assume a float (i.e. zero MW) transfer across the French Interconnector. The actual transfer could be anything between 2000MW import to England & Wales and 2000MW export from England & Wales dependent upon the price differential between England & Wales and France. Prior to this date a 2000MW import to England & Wales is assumed.



[Current data in CSV](#)

BETTA Go-Live



NGT GB Market Data - Transitional provision (1)

- BMRA data beyond day ahead
 - E&W only until after GL
 - eg. 2-52 week data currently displayed is E&W only, even beyond 1 April 05
- Elexon website data
 - E&W data forecast continue (as per BMRA)
 - GB data provision in separate area
 - 2-52 week GB data started (20/1/05), updates each fortnight
 - http://www.elexon.co.uk/marketdata/transition_period_forecast_data/default.aspx

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Transition Period Forecast GB I

Following the implementation of Proposed Transitional published on the BSC (ELEXON) website, on a GB wide BETTA Effective Date. Output Usable and Generating continues to be published in the [Physical Data](#) section

GB Wide Forecast Data

To view forecast data on a GB-wide basis please select forecasts provided after the BETTA Effective Date, please

<input type="text" value="Output Usable"/>	<input type="button" value="Go"/>
<input type="text" value="2-52 Weeks Ahead"/>	<input type="button" value="Go"/>
<input type="text" value="National"/>	<input type="button" value="Go"/>
<input type="text" value="31/01/2005"/>	<input type="button" value="Go"/>

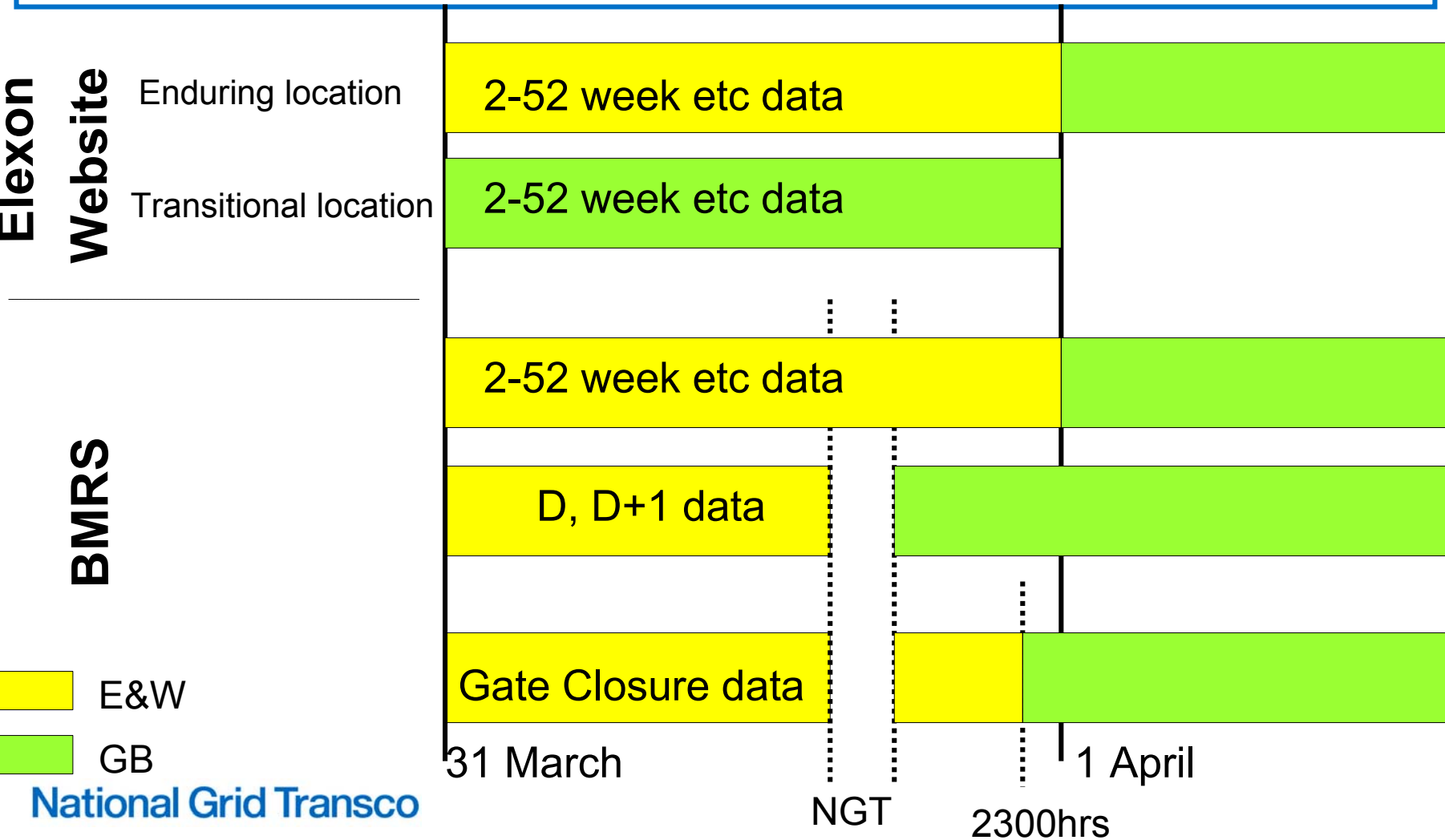
To view a System Zone Map, refer to the publish date/ for this date from the table below.

File Edit View Insert Format Tools Data Window Help						
Arial 10 B I U						
K1 =						
	A	E	C	D	E	F
1	*NOU2T52W_20050131_00001.bmr					
2	*					
3	*National Output Usable MWh Based on OC2 (2 - 52					
4	*					
5	*Data	F Syst	Eng. V	Eng. Year	Output Usable(M	
6	NOU2T52v	N	14	2005	61407	
7	NOU2T52v	N	15	2005	61873	
8	NOU2T52v	N	16	2005	60167	
9	NOU2T52v	N	17	2005	60253	
10	NOU2T52v	N	18	2005	63221	
11	NOU2T52v	N	19	2005	60536	
12	NOU2T52v	N	20	2005	61179	
13	NOU2T52v	N	21	2005	61045	
14	NOU2T52v	N	22	2005	60536	
15	NOU2T52v	N	23	2005	59779	
16	NOU2T52v	N	24	2005	60238	
17	NOU2T52v	N	25	2005	59916	
18	NOU2T52v	N	26	2005	60114	
19	NOU2T52v	N	27	2005	59361	
20	NOU2T52v	N	28	2005	59933	
21	NOU2T52v	N	29	2005	61442	
22	NOU2T52v	N	30	2005	59578	
23	NOU2T52v	N	31	2005	59610	
24	NOU2T52v	N	32	2005	58087	
25	NOU2T52v	N	33	2005	59894	
26	NOU2T52v	N	34	2005	59372	
27	NOU2T52v	N	35	2005	61615	
28	NOU2T52v	N	36	2005	59713	
29	NOU2T52v	N	37	2005	62878	
30	NOU2T52v	N	38	2005	62860	
31	NOU2T52v	N	39	2005	62611	
32	NOU2T52v	N	40	2005	64589	
33	NOU2T52v	N	41	2005	66357	
34	NOU2T52v	N	42	2005	63668	

NGT GB Market Data - Transitional provision (2)

- BMRA data - day ahead
 - Will continue to be E&W only until IT outage on D -1
- BMRA data - gate closure
 - as per enduring, GB BMU data (0000-0030) available soon after gate closure (2300 hrs)

NGT GB Market Forecast Data



OC2 Data provision - via web

TOGA software

- Project has run late versus plan
- E&W TOGA based process forecast to implement on 21 Feb
- GB TOGA implementation week or two later
- Communications to Generation contacts will be sent to confirm latest position wrt implementation of TOGA

Balancing Mechanism - Cut-over

Balancing Mechanism : Cut over (1)

- **NGT Balancing Mechanism IT system outages**
 - All outages notified in advance using existing process
 - IT outage in early March (provisional)
 - IT outage on day ahead, Thursday 31 March 05 (late afternoon)
- **New Scottish BMU data via EDT**
 - Live submissions can be made from 0900hrs on Tuesday 29 March
 - Data can cover pre and post GL periods
 - Pre-GL data for NGT shadow running purposes only
 - No obligation for pre-GL data, but NGT will encourage key Scottish generation participants to submit to assist with smooth transition

Balancing Mechanism : Cut over (2)

- **Grid Code BC1 - GB BMU data obligations**

- By 1100 hrs on day ahead (D-1, 31 March), for new GB BMUs
- Covering 0000 - 0500hrs (D) plus normal 0500 - 0500hrs (D+1)
- Defaulting & Validation rules applied as normal
- BC1 obligations to keep updated

- **GB Balancing Mechanism**

- first GB gate closure 2300 hrs (D -1)
- NGT can begin to issue GB BOAs (for start delivery from 0000hrs)

Balancing Mechanism :

D-1 IT System Outage

- **Planned for Late Afternoon, expected 2 hours max**
- **Nominally expected 1600 - 1800hrs**
- **Normal notification process of outage times to be used**
- **What external changes after IT outage?**
 - For all GB BMUs EDT interface nothing (same IP address)
 - For Scottish BMUs with EDL interface
 - EDL moved from NGT shadow GB IT system to enduring production
 - can submit redeclarations from Control Points
 - GB BMRA data feed will commence (forecast data)

Balancing Mechanism - Gate Closure

- **First GB gate closure 2300 hrs (D -1)**
 - first Settlement period closed, no more updates
 - Scottish BMU updates only via EDL from control point
 - GB BMU gate-closure file (FPNs etc) sent to BMRA
- **GB Instructions**
 - NGT can begin to issue GB BOAs (for start times from 0000hrs)
 - Close liaison with existing Scottish System Operators in final hours
 - sharing with NGT Scottish SO instructions and generation plans where it will impact on their ability to be at FPN at point of GL
 - Scottish BMUs must follow Scottish SO instructions upto 0000hrs

Balancing Mechanism - Live

- **Grid Code obligations effective (meet FPN or redeclare)**
- **BOAs issued for first GB period can begin to be delivered**
- **Scottish BMU at 0001hrs left materially away from FPN as result of last few hours of Scottish SO despatch**
 - ramps to meet FPN
 - BOA issued by GBSO only if assists GB balancing
- **Ancillary Services instructed by Scottish SO**
 - absent of instruction from GBSO at point of GL
 - on freq response in Scotland at GL, move to LFSM
 - reactive output maintained until GBSO instruct otherwise

Transmission Despatch : Cut-over

Transmission Despatch - Cutover

- **Shadow GB operation**
 - from Tuesday 29th, working as close as possible to GB way
 - **Scottish SO responsible**
- **Cut-over is administrative, SQSS responsibility moves to GBSO**
 - GBSO reactive despatch instructions to users start
 - Scottish users follow Local Switching Procedure for their site as agreed with Scottish TO / GBSO
- **Communiqué to users to confirm GB is live**

Q&A

Further information:

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