

National Grid BETTA Project

Operational Forum 11 June 2003

AGENDA

- **Recap**
- **State of play**
- **Impact**
- **Transmission Arrangements in Control**

What is BETTA?

British Electricity Trading and Transmission Arrangements

- For Transmission GB wide
 - Framework (Codes)
 - Energy Balancing + Imbalance Settlement
 - Transmission connection + charging
 - Outage planning and switching
 - Investment Planning Co-ordination
 - GBSO independent of market activities
 - An SO -TO Code
- Scottish Interconnector ccts
- Requires primary legislation (ETT Bill)
- For National Grid (Designated as GBSO)-Big process changes

National Grid Transco

BETTA

State of Play

NG Project teams up and running

Key Assumptions (waiting June Conclusion documents)

Key dates

NGI BETA Programme

Programme Board
Chair: Nick Winsor

Programme Director
Charles Davies

Implementation Manager
Phil Lawton

Programme Manager
Adrian Jarvis

Issues & business design authority
Nigel Brooks

Programme Planner: Jim McHugh
 Programme Support: Debbie Trew

WS1 - Operational, Processes & Systems	WS2 - GB Codes	WS3 GB Charging	WS4 Investment Planning	WS5 Regulation
Sponsor: Edgar Goddard	Sponsor: Mike Calviou	Sponsor: Mike Calviou	Sponsor: Jon Carlton	Sponsor: Tim Tutton
Project Manager: O&T: David Coan	Project Manager: Andy Balkwill	Project Manager: Stuart Easterbrook	Project Manager: Andy Hiorns	Project Manager: Lewis Dale
Impln Manager: David Coan				
Implementation Manager : Kevin Broadbent				

 Operations and Trading

 Commercial

 Network Strategy

 Regulation

Key Assumptions / Conclusions (?)

- ETT draft Bill substantially un-changed
- Go-live Target Oct 04, (subject to ETT Bill progress)
- 132kV assets are Transmission
- GBSO will offer terms for connection and use of system
- Single T.Licence for NGC
- GBSO required to have GB Codes (based on E&W docs)
- SO-TO Code : Licence requirement of all three companies
- GBSO will configure the GB Transmission system
- SQSS - Operational Stds, single GB document

Key dates

- Ofgem & T.Ls plan baselined as '0'
- Due June/July 03
 - Various Conclusions (with 1st draft texts)
 - Agree transmission working arrangements
 - Ofgem/DTI Consult on
 - Trans. Charging
 - issues for T connected smaller generation
 - STC-Procedures (develop June-Apr 04)
- Designation of key docs - April 04
- Go-live target Tuesday 5 October 2004

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What does it mean for Us?

Impact on GB Customers from NGT Operations

- A single GB Balancing Mechanism optimised and despatched
- GB competition in BM and Balancing Services
- Mid year implementation - impact on BS tender process
 - Reactive (6 mthly, with 5th October)
 - Stand Reserve (2 tenders? April 04 and a BETTA Go-live)
- Testing and trialling stage
- OC2 Data exchange via web?

Grid Code OC2 Data exchange

- Responsibilities of Users and SO under Grid Code require an exchange of Data:
 - **Generators to provide outage and availability information**
 - **SO to provide details of outages that may affect users.**
 - **DNO to provide details of outages that may affect the SO**
- This enables us to:
 - **Run a safe secure and economical system**
 - **Harmonise generation & transmission outages**
 - **Provide National and Zonal Surpluses**
- The majority of data is submitted by fax. Some data supplied by an established electronic transfer.
- BETTA leads to significant increased OC2 data flows hence we are investigating an Internet based solution.

OC2 Data exchange

- This will enable generators to submit data by logging on to a web site with the following potential facilities:
 - Bulk upload data and view previous availability and generation outage submissions
 - Update current position and just flag changes to make a new submission.
 - Down load data eg. view the transmission outages that may affect a User.
- Note, current E&W Grid Code (and Scottish Grid Code) currently allow for the 'electronic' transfer of data.
- Next steps will be firm up plans and decide how to take forward with users.

Impact on Operations in National Grid Transco (some metrics)

- Registration of all Scottish BM Units (200+)
- Moyle (Irish-Scottish) Interconnector users interface
- Network size : 50+% increase on E&W (mostly due to 132kV)
 - 132kV adds significant complexity and issues of scale. There are >150 s/stn at 132kV. > 5000 route Km 132kV in SSE alone.
- Many new roles to fill and train (Very significant Training overhead)
- GB demand forecast in all timescales
 - 7 GW on E&W 54GW max
 - 60% increase in nodal demand points
- SO-TO code, ability to emulate efficiency of TSO in E&W in managing Balancing Services costs

BETTA Project

Transmission Switching Arrangements

GBSO Energy Balancing activities

GBSO staff at ENCC

GB Demand Forecasting

GB Gen Outage Data

GB Constraint Management

GB Energy Balancing

GB Balancing Services

Scottish Transmission - 400/275KV and 132KV

Transmission Despatch arrangements for Go-live?

GBSO staff at ENCC

GB Asset Release approval

GB System Security

GB System Configuration

GB Gen Reactive Dispatch

TO staff at SGCCs

- Safety Management
 - interface to DNO, users
- TO outage requests
- Fault mgt interface (TO staff)

GB Trans'n Switching

Scottish Transmission - 400/275KV and 132KV

What Next?

IT development commencing in NGT
Drafting SO-TO Code and Code sub-documents
Resourcing up / training enduring roles
Bill progress
Trialling (summer 04)

Q&A

Further information:

Contact us via: Beta.project@uk.ngrid.com

[Ofgem website](#)