

## **National Grid Company**

### **INFORMATION NOTE ON TOGA FACILITIES**

#### ***Introduction***

TOGA (Transmission Outages, Generation Availability) is NGC's new facility to enable it to manage the increased Grid Code OC2 data volumes associated with the introduction of the British Electricity Transmission and Trading Arrangements (BETTA). More details of BETTA can be found on NGC's or Ofgem's web sites. This system is web based and will enable Users to log on to the new TOGA database to enter and retrieve data that is required by the Grid Code. It also provides Users with additional flexibility over above that covered by current systems.

This database will be introduced in December 2004. A user guide and details of how it can be accessed will be published in November when TOGA should be available for testing. The "DECNET" submission format will continue to be accepted.

#### ***Facilities***

##### **Secure Log on facilities.**

Each user requiring access will be allocated an ID and password. For Generators this can be at a Power Station or Company level. There are two levels of access:

- Read only
- Update giving ability to submit data

A named person from each company will be required to manage their own user requirements and informing NGC of the authorised list of a users and any changes to these users. There are automatic facilities to detect attempts at unauthorised access to the database.

##### **Availability**

The database will normally be available daily between 0700 and 1900 hours and subject to outages will also be available at all other times

##### **Generation Data**

Data required to meet the requirements of Grid Code OC2 can be supplied in two different ways.

##### **Entry of Output Useable (OU) by:**

Simple interactive screen entry of data, using drop down menus, on a BMU by BMU basis for all Grid Code timescales. When making any entry, except an initial 5 year ahead plan, the system will display the last set of previously entered data and the user can update the appropriate daily or weekly (peak of the day/week) data. When entering this data, previously entered generation outages for each unit will be visible. For daily data it is possible to make more than one entry for the day for each BMU. If this is done the system will work out what is the peak of the day.

Or

Uploading a file in the correct format (see separate interface specification). This requires a minimum of one valid value per day and must be for a recognised BMU.

### **Entry of generation outage data:**

Simple interactive screen entry of data on an individual generator by generator basis for all Grid Code time scales. Data entry requirements are a valid generating unit ID, which is chosen from a drop down list, outage dates and the amount of reduction in output of the associated BMU. For the chosen period previous outages will be shown and these can be amended.

Or

Uploading a file in the correct format (see separate interface specification). This will require the file to provide a valid generating unit ID and details of all outages for the period of the file. Details of these ID's will be provided by National Grid.

The database has some intuitive checking of entered data including comparison of OU data to outage data, which will flag warnings to the user if there appears to be inconsistencies in the data. The system will also check to ensure OU data is a possible value for the selected BMU.

### ***Other Features***

A history of entries is maintained in the database and it is possible to retrieve a previously entered submission made up to a year in the past and print these or download in a CSV format.

The database will guide you to the entries that are needed and these should be made within the time scales specified in the Grid Code. It will be possible to enter daily data anytime (subject to system outages) between midnight and approximately 1100 on a normal working day. And weekly data can be submitted any time from Monday to Wednesday. (There is no Grid Code requirement to enter data on weekends or bank holidays)

On line help will be available.

### **Viewing of Aggregated margin reports.**

After National Grid has completed it's processes it will make available on the web site the national and zonal margins for the day or week as is appropriate. If required the system will also e-mail a copy of the reports to designated persons within your company. It will be possible to view historical reports. There may be some format differences to current reports.

## **Viewing of National Grid Transmission outages**

The system will also provide access to National Grid's transmission outages so you can view or print outages that may affect your Network or Power Station. It is possible to carry out live searches to find these outages and also to find outages that have changed since you last looked at the system. If required the system will also be able to e-mail out relevant reports.

## ***Technical***

The system requires Internet Explorer 5.5 or greater and an Internet Connection with a recommended bandwidth of 512K. Any reasonable PC capable of running IE 5.5 will be suitable. When using the system it will not download any data on to your PC unless you specifically request a download of data for further analysis. The displays are designed around a resolution of 1024x768 pixels best displayed on a 17" screen or equivalent LCD screen.

Generating unit ID's. If a file upload of outages is provided then the system will need to recognise the generator ID. For BMU's where there is only one generating unit the ID will be the same as the BMU name. If more than one generating unit is associated with a BMU then the ID will be in the format of BMU name followed by a unique suffix.

## ***Training***

Training requirements are still being assessed but the system will be easy to use and it is anticipated that the user guide should provide sufficient information to enable users to quickly understand the system.

## ***Current Progress***

The System is being acceptance tested but the ability to enable wider Internet access is taking longer than expected. We are targeting early November for this, so Users should be able to log on to TOGA and try the application in a test environment. Mid December is currently targeted for the introduction of the new service.