



## **ABT Monitoring System**

Product brochure

**Power Generation Applications**  
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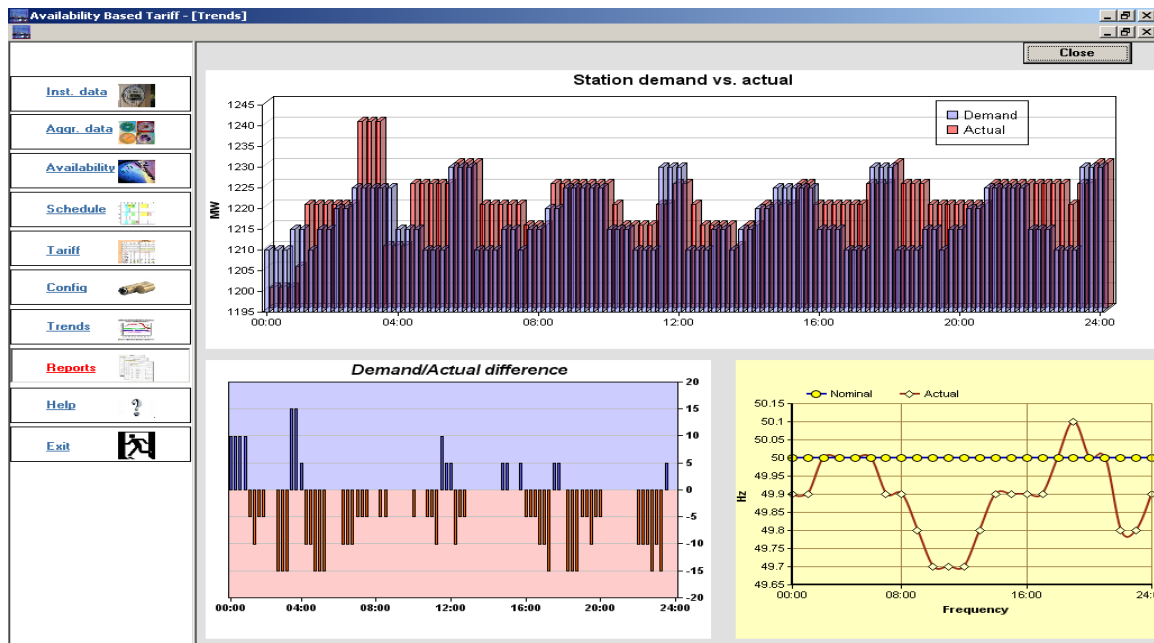
## Availability Based Tariff

Availability based tariff (ABT) regulations were introduced by the Central Electricity Regulatory Commission (CERC) of India with the following objectives:

- Enhanced grid discipline by participants
- Encouragement for private sector to invest
- Participation of IPPs/CPPs in the power market
- Migration towards a self-regulating power market

prescribed schedules rather than generating at the maximum. Revenue for generation is linked to several factors such as declared availability, prescribed schedule and grid conditions in addition to actual energy delivered.

ABT monitoring solution from Kalki Communications is a state-of-the-art solution to enable a generating utility to monitor the power exported to the grid from the perspective of ABT maxims. This is a flexible solution with an extensive set of features that allows a generating station to



Initially, central power generating stations were brought under the purview of ABT. Successively, all participants in the power sector including generating stations, transmission companies, distribution companies etc. were all brought under the purview of ABT.

Under the ABT regime, the generating stations are required to output power adhering to

effectively monitor different parameters within the ABT regime.

### Key benefits

Some of the key benefits offered by ABT monitoring solution include:

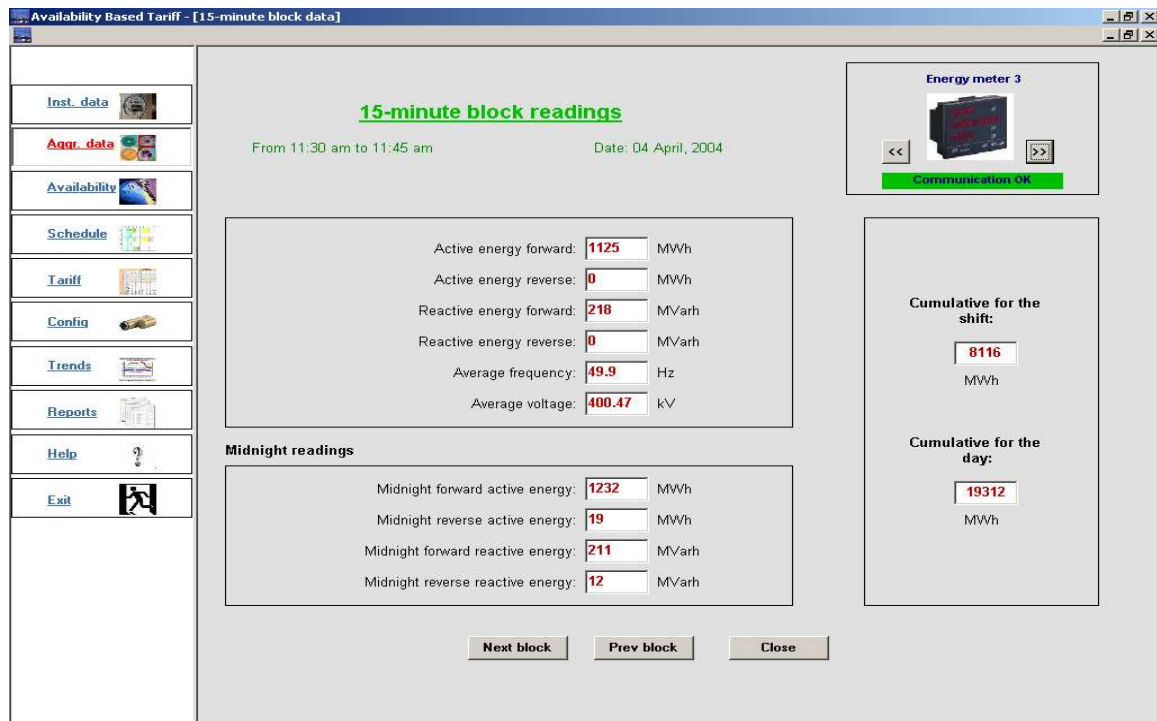
- The solution is based on a standards based open communication architecture

allowing for easy and quick integration with multiple devices

- The solution comes with a simple and easy to use configuration utility
- The solution comes with a flexible tariff calculation module that allows user to modify tariff calculation to some extent as when CERC revises the guidelines

handles collection of data from the energy meters. Instantaneous data as well as 15-minute block aggregate data are collected from the meters and stored in the ABT server. User is allowed to navigate through data display of both instantaneous and aggregate data for each of the meters in the network.

Day ahead generation schedule for



- The solution comes with extensive reports and trends that provides comprehensive and intuitive information to the user
- The solution allows reports and other data to be exported to spreadsheets allowing for ease of maintenance and exchange

the ninety-six 15-minute blocks of the day can be directly entered into the system or can be imported from an MS Excel workbook.

The ABT solution then monitors the actual generation versus the scheduled generation. Grid frequency is monitored separately. Tariff calculations are then performed for the energy supplied to the grid. Unscheduled Interchange (UI) charges, if applicable are also calculated

### ABT solution details

The ABT monitoring solution comes with a communication module that

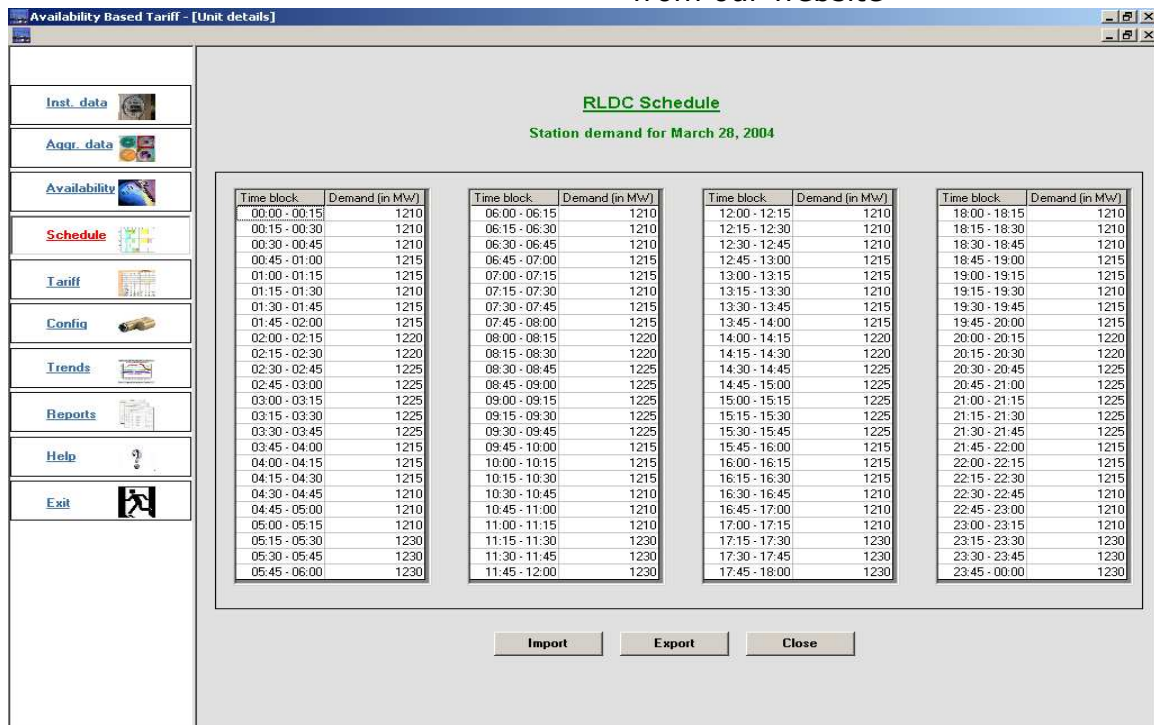
based on grid frequency and energy exported. Energy price calculations, availability calculations (for capital cost) and UI charge calculation formulae used by the solution can be configured through the tariff calculation module. An extensive tariff calculation report is then generated indicating positive and negative revenue under different heads for each of the 15-minute blocks.

## Technical details

Platform: Windows 2000  
 Software requirements: MS Excel  
 Communication Interface: DDE (Dynamic Data Exchange), OPC (OLE for Process Control)

## Further details

For further details on PPC, please write to [sales@kalkitech.com](mailto:sales@kalkitech.com). Phone, fax and mailing details can be had from our website



User can also generate daily, weekly, monthly and shift-wise (eight hour) reports for different details available in the solution including meter data, tariffs, energy exported and imported etc. Trending for key parameters tracked such as scheduled generation, actual generation, grid frequency etc. is also provided.

<http://www.kalkitech.com/Contactus.htm>.  
 Details on other solutions like Plant Performance Calculation, Merit Order Dispatch, Plant Simulation software, Alarm analysis package etc. can be had from the PGA home page at <http://www.kalkitech.com/powergen.htm>