MetrixLT™

Hourly Load Forecasting Solution

HOURLY LOAD SHAPES MADE EASY

Itron MetrixLT is designed specifically for developing hourly and sub-hourly load shape forecasts to support utility generation, transmission and distribution planning. With MetrixLT, it's easy to create "bottom-up" system load forecasts that build from the end-use, rate class, or revenue class level. Built-in functionality allows you to calibrate load shape profiles or day-type load shapes to annual or monthly energy forecasts. MetrixLT provides functionality for calibrating a long-run forecast consistent with actual system loads or with short-run load forecasts, while robust reporting capabilities allow the user to summarize hourly data or forecasts into daily, monthly, or annual tables.

MetrixLT supports the following types of functionality:

- Import monthly, daily, hourly, and sub-hourly data and forecasts
- Import day-type load shapes
- Scale load shape data or forecasts to agree with sales and peak inputs
- Adjust load shape data or forecasts for losses
- Aggregate load shape components to the system level
- Scale one load shape to be consistent with another based on an overlap period
- Create annual or monthly reports that summarize sales and peaks for a load shape

MetrixLT can import energy forecasts and load shape data directly from the MetrixND® forecasting engine,providing unlimited modeling flexibility. MetrixND is widely used by the top energy forecasters at leading utilities and energy providers throughout the world. MetrixND features the most advanced modeling techniques available, including regression, neural networks, exponential smoothing and ARIMA

UNPARALLELED CAPABILITIES

Easy to Use

MetrixLT's user interface features tree controls and folders for each element. Toolbars, drag-and-drop architecture, quick graphs, and data grids streamline development and analysis of load shape forecasts.

Built-in Functionality

MetrixLT modeling objects provide the capability to scale a load shape to energy and peak forecasts, adjust for system losses, build up to a system load shape from end use or segment level shapes, and calibrate to actual system loads or a shortterm load forecast.

User-Friendly Data

MetrixLT's set of on-line graphs enables you to easily see and analyze your data. Seasonal, monthly, weekly, and daily load graphs, as well as load duration curves, are available at the click of a button.

Interval Data Tables

MetrixLT supports hourly and sub-hourly interval data. Data can be imported from a variety of sources and can be quickly viewed in graphs that show full-year, monthly, weekly, or single day reports.

Day-Type Tables

MetrixLT can be used to convert interval data into day-type averages, which are stored in a database. The day-types are user-defined, providing the user with the flexibility to define day types based on calendar events, weather, system loads, or other factors. Day-type shapes can then be scaled and converted back to interval data for use in bottom-up forecasts.

Weather Transformations

Users can create normal, mild and extreme weather patterns that support long-term energy forecasts under alternative weather scenarios. MetrixLT computes billing-cycle weighted heating and cooling degree variables for user-defined temperature break points.

Batch Transformations

MetrixLT allows the construction of new data series that calibrate interval data to annual, monthly, or daily energy. It also adjusts for losses, aggregates across end users within a segment or across segments, and adjusts load shapes to hit specified monthly energy and peak forecasts. With batch transforms, system load forecasts can be built-up from end-use or rate class data.

Scaling Transformation

MetrixLT uses scaling transformations to ensure data series consistency. They can be used to adjust a long-term forecast to be consistent with actual data for a historical period or a short-term forecast.

Reports

Interval data can be summarized on a report to the daily, monthly or annual level, and the reports can calculate energy, average loads, peak values and coincident peak values.

Compare Reports

This feature allows a direct graphical comparison of interval data series that have the same frequency. Visual Basic for Applications Module Microsoft VBA is integrated into MetrixLT. With this module, you can write macros to automate calculation processes in MetrixLT, including updating data links, executing batch transforms, executing scaling transforms, computing reports and exporting results.

Integrates with Existing Databases

MetrixLT works with Microsoft Excel spreadsheets and a variety of databases and formats, including Microsoft Access, EEI, Itron MV-90 xi, ORACLE, and Microsoft SQL Server.

A Knowledgeable User Community

Hundreds of utilities, ISOs, municipals, cooperatives and other energy service providers use Itron MetrixND. Licensed users have unique access to industry experts in energy forecasting. Additional benefits include a quarterly newsletter that keeps you abreast of the latest forecasting techniques, and an annual meeting that covers the latest trends in energy forecasting and brings you together to network with industry peers.

For additional information or to view a demo, visit www.itron.com/forecasting, call 1-800-755-9585 or email forecasting@itron.com.

Itron is a global technology company. We build solutions that help utilities measure, manage and analyze energy and water. Our broad product portfolio includes electricity, gas, water and thermal energy measurement and control technology; communications systems; software; and professional services. With thousands of employees supporting nearly 8,000 utilities in more than 100 countries, Itron empowers utilities to responsibly and efficiently manage energy and water resources.

Join us in creating a more resourceful world; start here: **www.itron.com**

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