

Intelligently Balancing Supply with Demand through Continuously Connected Customers





Future Innovation in Energy Planning

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Who is ENBALA?

- ENBALA Power Networks[®] is a Smart Grid technology company that enables utilities and electricity grid operators to intelligently connect to commercial and industrial customers to provide continuous value back to the power system.
- ENBALA's GOFlex[™], real-time demand-management platform delivers operational flexibility to the electricity grid addressing an increasingly complex management challenge.





Electricity Industry is in Transformation



The Power System Needs Real-Time Flexibility





Evolution of Demand Management



In a smart grid... demand management provides real-time **operational flexibility** to the power system.

Solutions for the Power System



Inherent Process Storage in Existing Assets



Customers Connecting to the Grid



Power of the Network



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ENBALA Sample Clients



Proven Technology in the Market Now



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Generation Fleet Needs To Follow Ramp





Wind Integration

- 1. Volatility maintaining system balance
- 2. Ramp losing wind at inconvenient times (during ramp)
- 3. Capacity different form of generation





Grid Balance[®]

Grid Balance (also known as Frequency Regulation) is the second-by-second balancing of supply and demand to maintain the grid's frequency balance (near 60 Hertz).



"Think of regulation service as a cruise control for the electric system." To go a steady 60 mph, your cruise control imperceptibly adjusts gas and brakes to keep your speed constant. "Regulation services do the same thing, adding or reducing power on the grid to keep its frequency in balance".

> Scott Baker, Analyst PJM Interconnection



Summary

There is nothing more cost effective than IT enabling resources that are already a part of the electricity system.





Thank You

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Market Policy Experience

The role of the Demand Side is not typically considered when policy framework is written. The Demand Side needs a level playing field.



Smart Grid-Enabled Demand Management

"Smart grid-enabled demand management can and must be expanded and improved. As part of our conservation framework, we will ensure that conservation and demand response are the first energy resources considered to address demand, before generation, wherever cost effective."

Bob Chiarelli

Ontario Minister of Energy

September 10, 2013



Benefits of the ENBALA GOFlex™ Platform

