

Pricing Data Mart for DSS

Business Intelligence (BI)

March 8, 2006

Presentation Outline

- ◆ Business Intelligence (BI) – General Overview
- ◆ New Data Mart - Deliverable Summary
- ◆ Benefits
 - *Customer benefits*
 - *Business benefits*
- ◆ Estimated Timeline
- ◆ Input to Design

Business Intelligence - Overview

- ◆ Definition of Business Intelligence (BI)
- ◆ Business Intelligence strategy within NYISO
 - *How Decision Support Systems (DSS) support BI strategy*
 - *Current NYISO DSS product*
 - *Future BI and DSS solutions*
 - Historic data warehousing (requires bulk loads and can be up to 24 hours old)
 - Access to current data (data is up to date within a few minutes)

Deliverable Summary

- ◆ New Pricing data mart in the Decision Support System (DSS) environment
 - ◆ It will contain a versioned history of posted OASIS prices
 - *Including DAM / HAM / RT - Energy / Ancillary Services ***
 - ◆ It will also contain history of additional price related OASIS information
 - *Including Loads / Flows / Forecasts ***
- ** length of time for data retention will be subject to cost/benefit analysis*
- ◆ Will build on existing DSS foundation allowing access to analysis, trending and reporting tools currently available with the Customer Settlements data mart (Business Objects functionality)
 - ◆ Will have ‘up to date’ prices which are posted to OASIS. It will not require waiting overnight for access to “today’s data”.
 - ◆ Is readily expandable to add additional sets of data in the future.
 - ◆ There will be limits on size of data sets requested per user query.

Deliverable Summary

Example

Day Ahead Zonal LBMP

<input checked="" type="checkbox"/> Capital <input type="checkbox"/> Central <input checked="" type="checkbox"/> Dunwoodie <input type="checkbox"/> Genesee <input type="checkbox"/> Hudson Valley <input checked="" type="checkbox"/> Long Island <input type="checkbox"/> Mohawk Valley <input type="checkbox"/> Etc . . .	<p>Date</p> <p>From: <input type="text" value="01/01/2006"/></p> <p>To: <input type="text" value="01/31/2006"/></p> <div style="border: 1px solid black; padding: 5px;"><input checked="" type="checkbox"/> Get latest version of prices <input checked="" type="checkbox"/> Get All versions of prices</div>
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Get results as:

CSV XML

** example provided for describing user access approach

Does not represent final look and feel

Benefits

- ◆ Market Participants (Gens, TOs, Loads, Power Marketers), Regulatory, Other ISOs
 - *Provide a history of OASIS prices accessible via www.nyiso.com (NYISO's web portal)*
 - *Prices will be versioned and not overwritten*
 - *CSV files will not need to be downloaded for every 5 minute posting on OASIS, this complete history will be available on demand from the DSS environment*
 - *Simple requests for data can be made directly from the portal (www.nyiso.com) without user authentication (like OASIS today)*
 - *More complex queries, including slicing and dicing, will be available using Business Objects (BO) analysis and report writing tools (WebIntelligence)*
 - *User defined reports may be created and saved using BO*
 - *Graphing features may be used for graphical presentation of data using BO*
- ◆ NYISO
 - *Price Validation and Market Monitoring will have a common, easily accessed source of data*

Estimated Timeline

- ◆ Phased delivery –
 - *Internal NYISO release – mid year*
 - Primarily for use by Price Validation and MMP
 - *External release – 3rd quarter*
 - Available to all customers
 - *Additional data sets added – 1st quarter 2007*

Input to Design

- ◆ Presentation & discussion at DSS Task Force call
- ◆ Presentation & discussion at S&P Working Group
- ◆ Presentation to PPT
- ◆ Formed new Task Force under S&P (Business Intelligence Task Force) and had first teleconference call
- ◆ Presentation & discussion at BIC

- ◆ Future
 - *Additional presentations at standing committees/working groups?*
 - *Increased participation at BI Task Force?*
 - *Focus group at NYISO location?*
 - *Other?*