

# **Business Intelligence (BI) Task Force**

March 1, 2006

# Presentation Outline

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- ◆ Business Intelligence (BI) – General Overview
- ◆ New Data Mart - Deliverable Summary
- ◆ Value Proposition
- ◆ Benefits
  - *Customer benefits*
  - *Business benefits*
- ◆ Estimated Cost

# Business Intelligence - Overview

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- ◆ 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

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- ◆ 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><b>Date</b> <b>From:</b> <input type="text" value="01/01/2006"/> <b>To:</b> <input type="text" value="01/31/2006"/></p> <div style="border: 1px solid black; padding: 5px;"><input checked="" type="radio"/> Get latest version of prices <input checked="" type="radio"/> 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

# Value Proposition

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To improve the transparency of the NYISO markets and provide a single source for NYISO data both internally and externally for better audit control for our customers.

# Benefits

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- ◆ Market Participants (Gens, TOs, Loads, Power Marketers), Regulatory, Other ISOs
  - *Provide a history of OASIS prices accessible via [www.nyiso.com](http://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](http://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

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