


Broader Price Transparency & Common Reporting



**Joint and Common Market
Carmel, In
August 25, 2005**



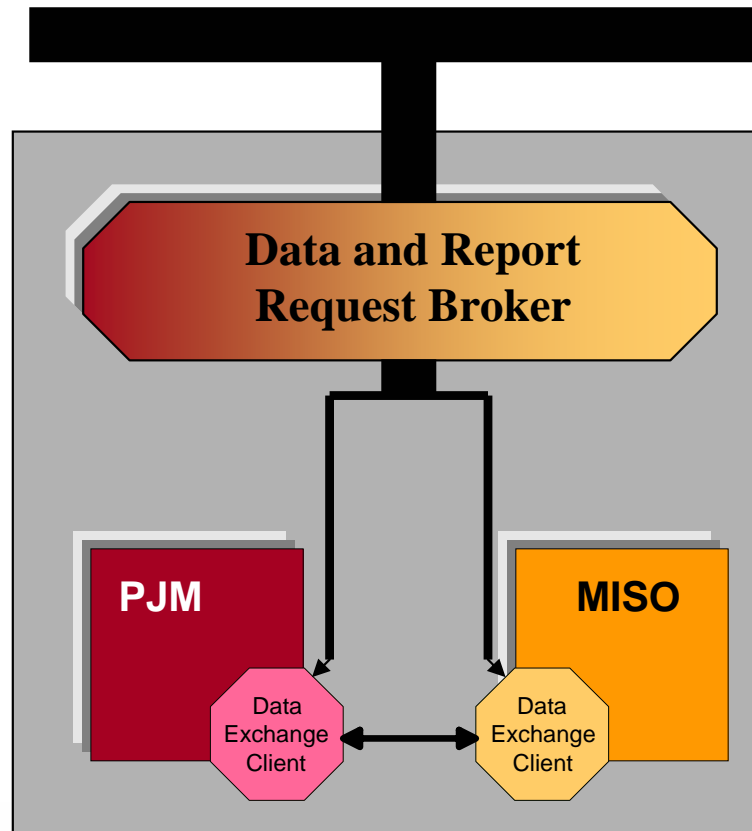
MISO-PJM Data Consolidation Framework

Guiding Principles

- Create a single view of data and reports
- Allow secure exchange of Business-to-Business transactions
- Provide Reliability, redundancy, and scalability.
- Support large volumes of data.
- Build upon open standards and mainstream technologies to minimize participant cost of entry



Consolidated View of Data & Reports

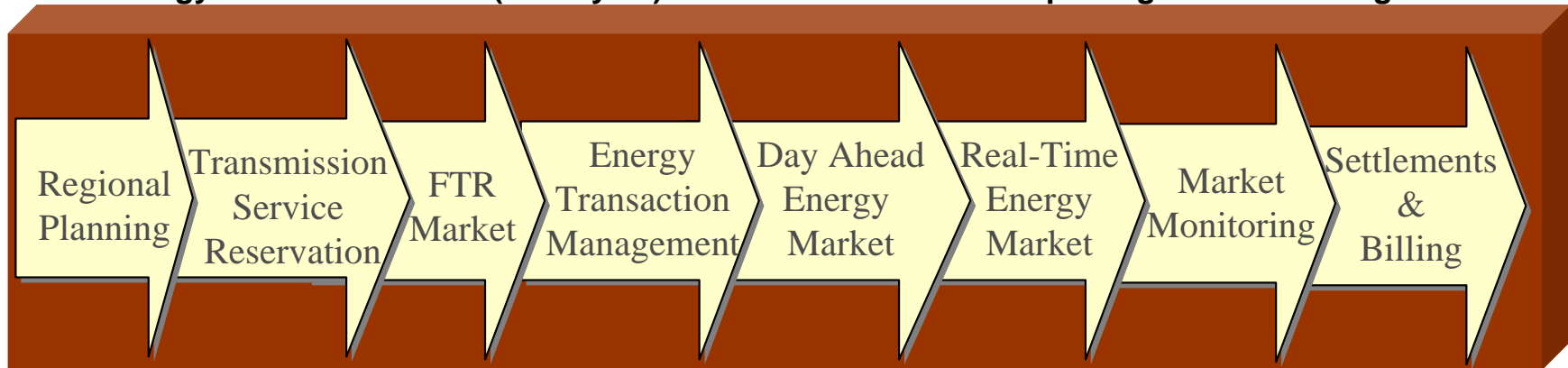


Architecture

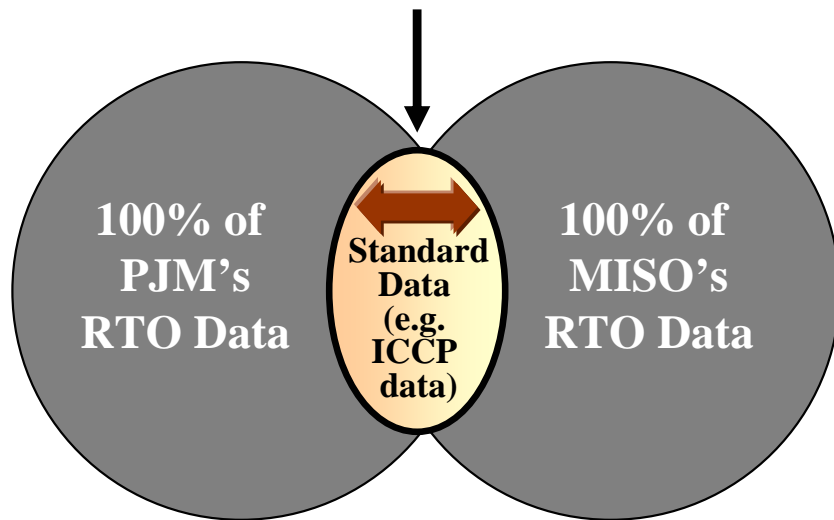
- Decentralized architecture, with each RTO equipped with a full-featured data exchange client.
- Each data exchange client is a single point of entry to an RTO, and will contain the components necessary to exchange data with other RTOs.
- A data exchange client provides integration services for other RTOs, so participants can request and provide (reply) data. It is responsible for all access control and routing.
- Two clients may talk to each other directly, or can relay messages via a third client if direct communication is not possible

Requirement for Development of Standards

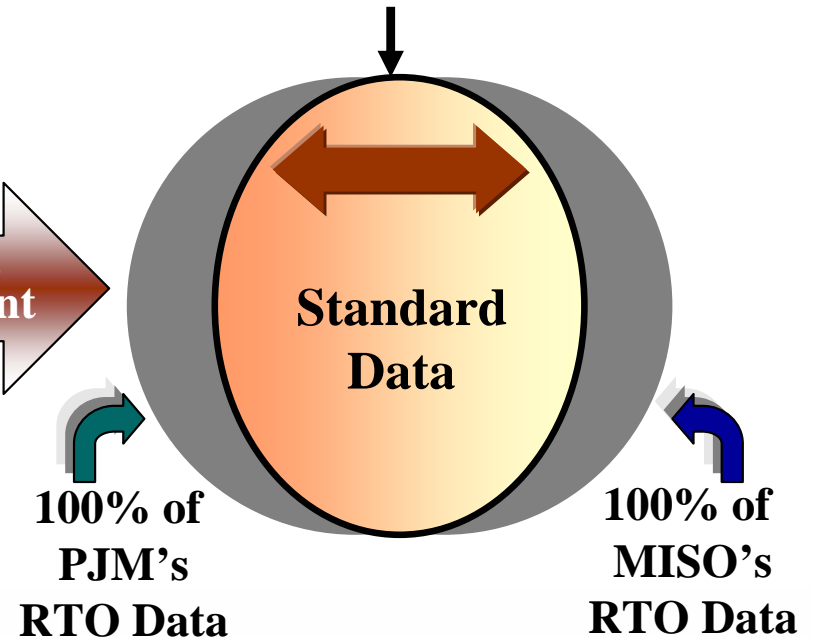
Energy Market Functions (Life Cycle) – Data Extraction and Reporting Occurs Throughout



Today's Single Data View



Future Single Data View



Commercial: Broader Price Transparency

		Short-term			Mid-term	Long-term	
<i>Deliverable</i>		Common Search Capability	Link Existing eData / PTP sites	Joint Website Development	Standard Data Exchange	Standard Data Visualization, Reporting	Joint and Common Website
<i>Description</i>		Implement one search engine that searches both the PJM and MISO public websites.	Link the existing PJM eData and MISO PTP sites together. Exchange a subset of data between the two sites (e.g. LMP, Instantaneous Load, Tie Flows) and make it available for display and download.	Create one new joint website that hosts PJM and MISO common information (e.g. joint meeting and event calendars).	Develop standard architecture (e.g. Broker engine) and data exchange mechanisms (e.g. Web Services (APIs)) that exchange data between PJM and MISO and make available the data to stakeholders.	Implementation of a single, redundant, data and report portal and supporting architecture that has backup capability shared between PJM and MISO; transparent participant joint access; and personalization capability.	Migrate PJM and MISO websites to one joint and common website. Individual websites for each RTO go away.
<i>Value Proposition</i>		<ul style="list-style-type: none"> Reduce stakeholder time spent searching two sites More coordination and collaboration between the two entities 	<ul style="list-style-type: none"> Reduce stakeholder time spent logging into and analyzing both sites to get common information Potential reduction in stakeholders' costs (less development time required to interface with one system instead of two) More coordination and collaboration between the two entities 	<ul style="list-style-type: none"> Less overlapping meetings between the two entities / better coordination which may enable more participation Reduced stakeholder time spent searching for meetings / events on individual websites and coordinating calendars / activities themselves 	<ul style="list-style-type: none"> Reduced stakeholders' costs to design, develop, test, and implement to one standard versus two Quicker rollout of new functionality for stakeholders due to reduced time to implement Potential savings in HW and SW licenses required by stakeholders 	<ul style="list-style-type: none"> Reduced stakeholders' costs to design, develop, test, and implement to one standard versus two Quicker rollout of new functionality for stakeholders Potential savings in HW and SW licenses required by stakeholders and RTOs Reduced time spent training stakeholders on new systems, reports, information 	<ul style="list-style-type: none"> Less overlapping meetings between the two entities / better coordination which may enable more participation Reduced stakeholder time spent searching for meetings / events on individual websites and coordinating calendars / activities themselves Potential savings in HW and SW licenses and development costs by stakeholders to access two different
<i>Cost</i>	<i>Implement</i>	\$100k – \$200k	\$400k – \$ 500k	\$500k – 600k	\$2.5mm – \$ 3mm	\$7mm – \$8.5mm	\$500k - \$750k
	<i>Ongoing (annual)</i>	\$25k - \$50k	\$75k - \$100k	\$75k - \$100k	\$100k - \$200k	\$250k – \$500k	\$100k - \$200k
<i>Obstacles</i>		Difference in terminology and business rules between the two entities will not be addressed, but could impact search results.	<ul style="list-style-type: none"> Synchronization of data delivery timeframes Differences in the way data is calculated and used (business definition) 	<ul style="list-style-type: none"> Developing the process to maintain the website, keep it current, and determine what to post. Determining the best way to jointly, technically, support the website. 	<ul style="list-style-type: none"> Synchronization of data delivery timeframes Differences in the way data is calculated and used (business definition) 	<ul style="list-style-type: none"> Synchronization of data delivery timeframes Alignment of business reporting and data retention practices Differences in the way data is calculated and used (business definition) 	Difference in terminology and business rules between the two entities.
<i>Action Plan to address obstacles</i>		Develop more consistency in business rules, practices, and terminology through the other JCM initiatives.	Identify the differences and develop ways to work around or at least communicate these differences to the stakeholder.	Develop a governance that addresses how to maintain and support the site between the two entities.	Identify the differences and develop ways to work around the differences.	Identify the differences and develop ways to work around the differences.	Develop more consistency in business rules, practices, and terminology through the other JCM initiatives.