



## **Preparing for the Midwest Renewable Energy Tracking System (M-RETS)**

June, 25 2007

- Logistics
- Panelist Introductions
- Introduction to M-RETS
- Participating in M-RETS
- Program status and timeline
- Next steps & upcoming events
- Q&A

- All attendees are muted
- All attendees will receive a copy of the presentation after the event.

## Logistics – Q&A



- To submit questions, type in your question in the “chat” window on the right.

A screenshot of a web-based chat window. The window has a title bar that says "Chat" with a speech bubble icon and a close button. The main area is a large, empty white rectangle. At the bottom, there is a text input field with the placeholder text "Type chat message here...." and a "Send" button to its right. Below the input field is a "Send to:" label followed by a dropdown menu currently set to "All Participants".

# Today's Panelists



- Sakis Asteriadis – APX
- Pat Keily - We Energies
- Kate O'Connell - Minnesota Department of Commerce
- Chela O'Connor - Public Service Commission of Wisconsin
- Brian Rounds - South Dakota Public Utilities Commission
- Devon Walton (M-RETS Administrator) - APX



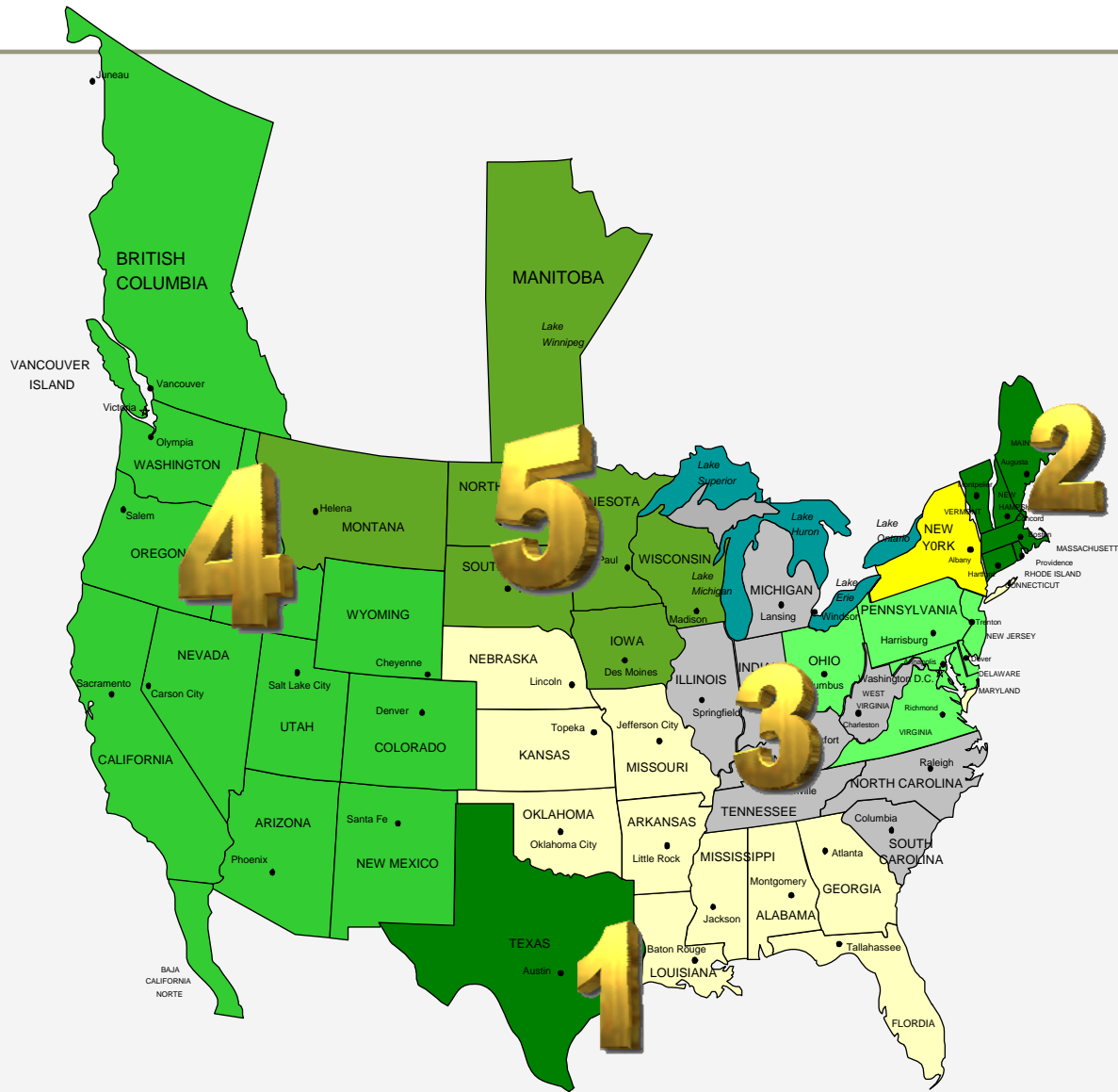


## **M-RETS Functional Overview**

Tracking Systems Fundamentals  
M-RETS Functional Overview  
M-RETS Data Sources  
M-RETS Account Structure  
Certificate Creation Process & Timeline  
Imports & Exports

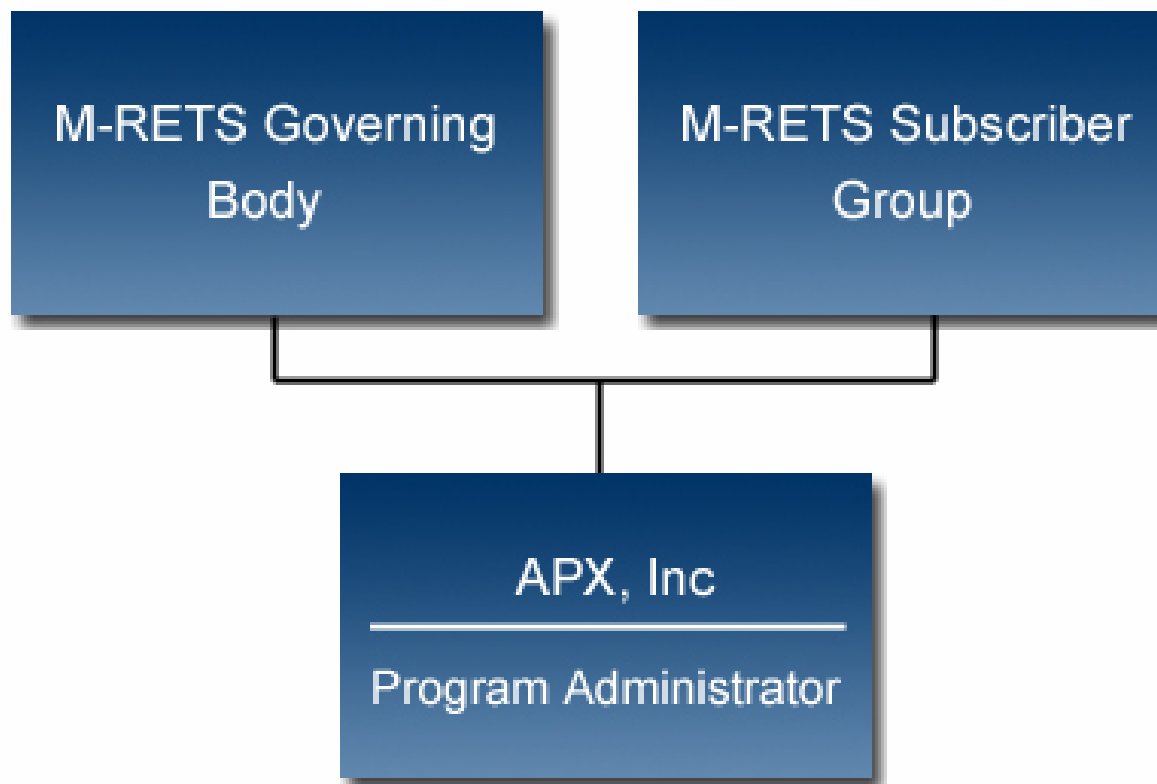


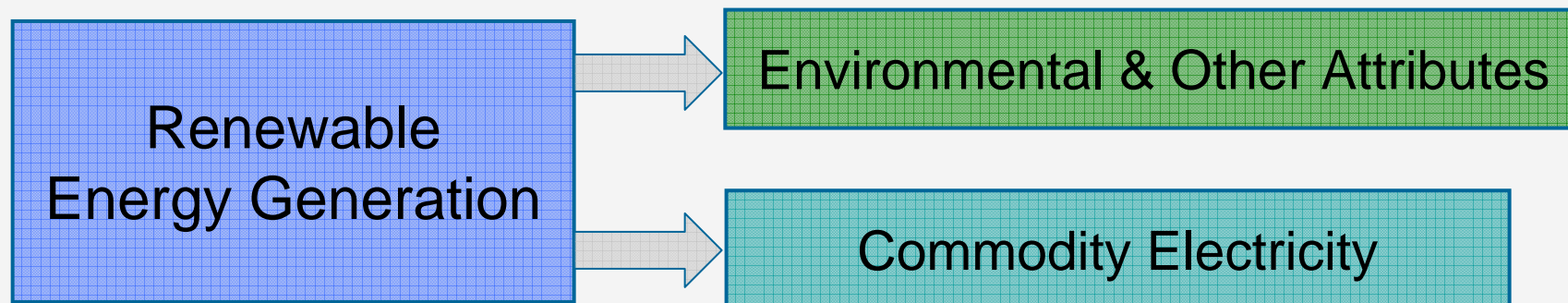
# Regional Tracking Systems in the US



Region	Launch
1: ERCOT	2001
2: NEPOOL GIS	2002
3: PJM GATS	2005
4: WREGIS	6/2007
5: M-RETS	7/2007

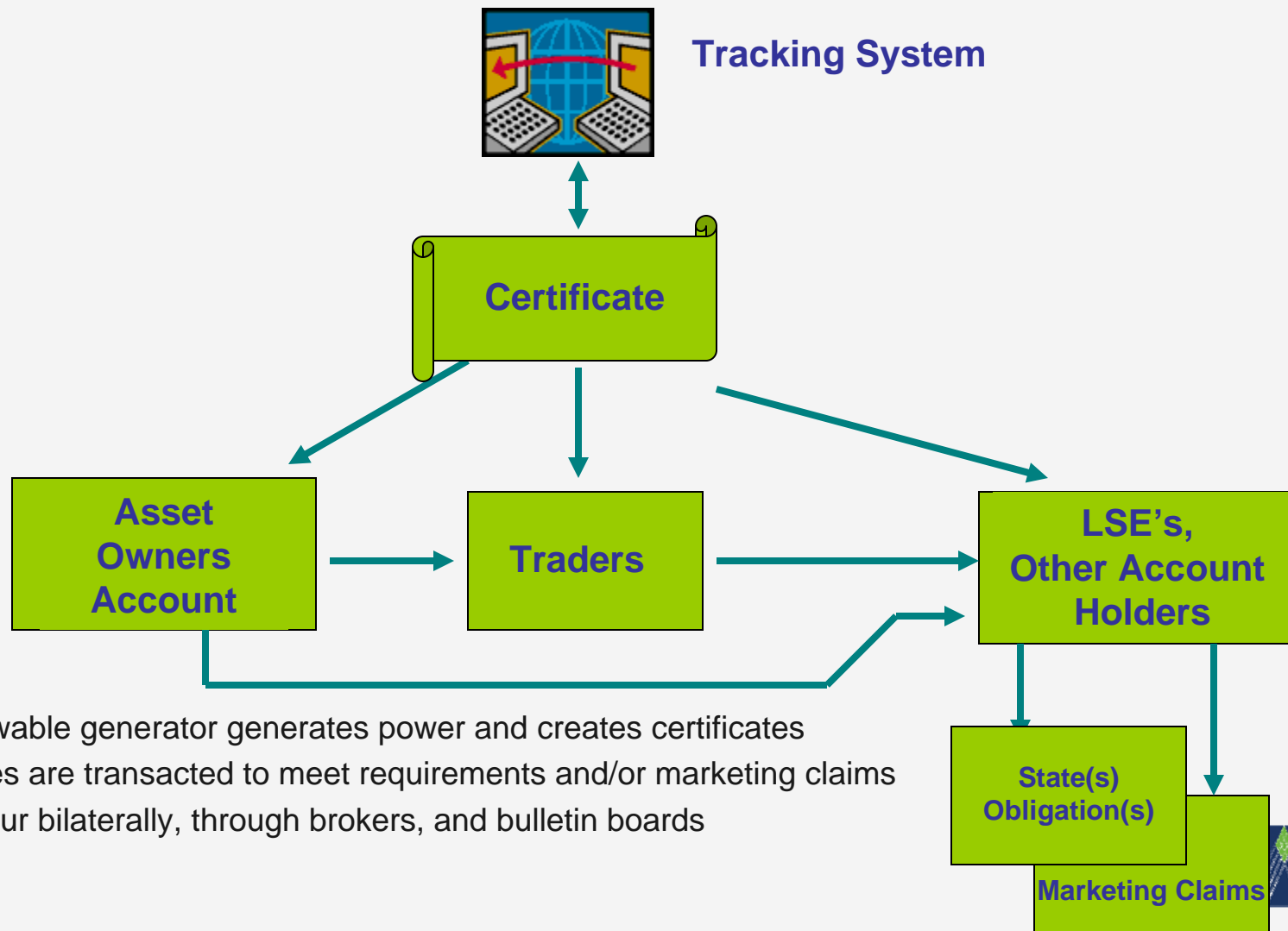






- Certificates represent the right to claim environmental and other attributes associated with electricity generated from a renewable energy facility
- Two tradeable commodities now exist: **Renewable Energy Credits (REC)** and **Commodity Electricity** (each priced separately)
- RECs represent the environmental attributes associated with 1 MWh of renewable energy

# REC Tracking System Overview - Trading/Settlements



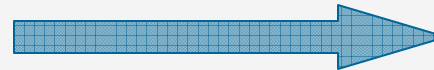
- 1) The renewable generator generates power and creates certificates
- 2) Certificates are transacted to meet requirements and/or marketing claims
- 3) Deals occur bilaterally, through brokers, and bulletin boards

# REC Tracking Systems – Process Flow



## Account Registration (3 User Types)

- Account Holder (Generator Owner, LSE, Marketer, Broker, etc)
- Qualified Reporting Entity (QRE)
- State/Provincial/Voluntary Program Administrator



## Generator Registration

- Plant location, capacity
- Fuel Type/Fuel Source
- RPS/Voluntary/Other Program Eligibility



## Certificates (M-RETS/RRC) Created and Assigned

- One certificate for each MWh of renewable generation reported by a QRE
- One converted RRC upon request (including fractional) for each qualifying M-RETS Certificate (in an Active Sub-Account from the previous year)
- Sub-Accounts for Active transactions and Retirement (including RRC and Export)



## Certificate Management

- Certificate transfers to other Active Sub-Accounts, M-RETS Account Holders, Retirement, Export, Bulletin Board, Forward Certificate Transfers and Standing Orders



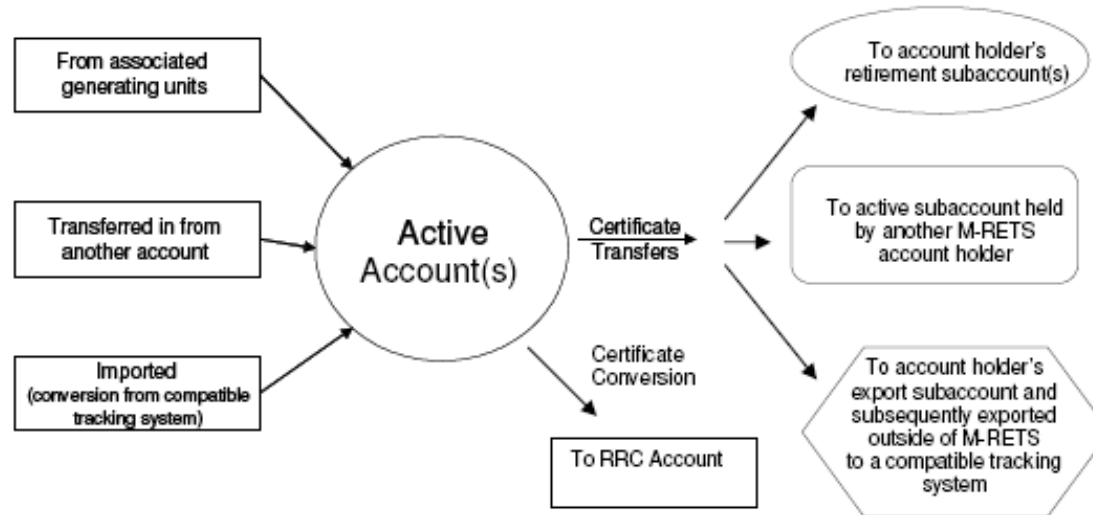
## Compliance Reporting/Monitoring

- Account Holders submit reports for RPS, disclosure, EPS, etc
- Program Administrators monitor compliance in their respective programs



- Basic M-RETS Account types contain:
  - An Active Sub-Account
  - A Retirement Sub-Account
  - An Export Sub-Account
- RRC Sub-Account for WI Electric Providers
- Certificates initially deposited into Active Sub-Account – can be transferred to other Sub-Accounts and/or M-RETS Account Holders

# Certificate Transfers



- Standing Orders
- Forward Certificate Transfers



## M-RETS Data Sources



Data	Source	Comment
Generator Output (MWh)	<ul style="list-style-type: none"><li>• Midwest ISO Settlement</li><li>• Qualified Reporting Entity (QRE)</li><li>• Self-reporting</li></ul>	QRE and self-reporting are options if MISO data not available
Fuel Sources / Generator Characteristics	Generator Entered – M-RETS Admin Verified	Information such as fuel type(s), vintage, capacity, location etc
RPS Eligibility (by State/Province)	Generator Entered – Regulator Verified	State certification number required



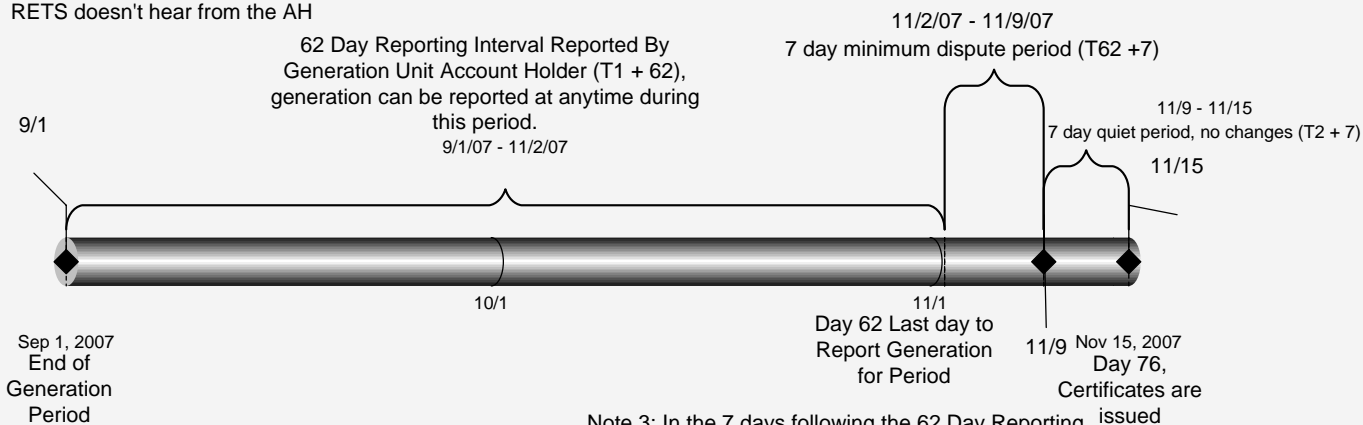
# M-RETS Certificate Creation Timeline



## Current Period Certificate Creation Time Line

One Condition must be met for Certificate Creation:

- 1) Posted Generation must be accepted by the Account holder, or
- 2) Generation is auto-accepted if M-RETS doesn't hear from the AH



Note 1: Once Generation is reported by the reporting entity, M-RETS posts the generation. At that point, the Account Holder will accept or dispute the results, or the system will auto-accept (Day 69) if no action is taken.

Note 2: During the 7 day quiet period, disputes may not be logged.

Note 3: In the 7 days following the 62 Day Reporting interval, (Day 62 - Day 69 Period), only disputed data can be resolved by reporting entities or the WREGIS Administrator through posting of the resolved data. As specified in Note 2, after day 69 (Day 69 - Day 76), no disputes will be allowed and no dispute resolution posting will be allowed. All unresolved disputes will have to be handled as prior-period adjustments.

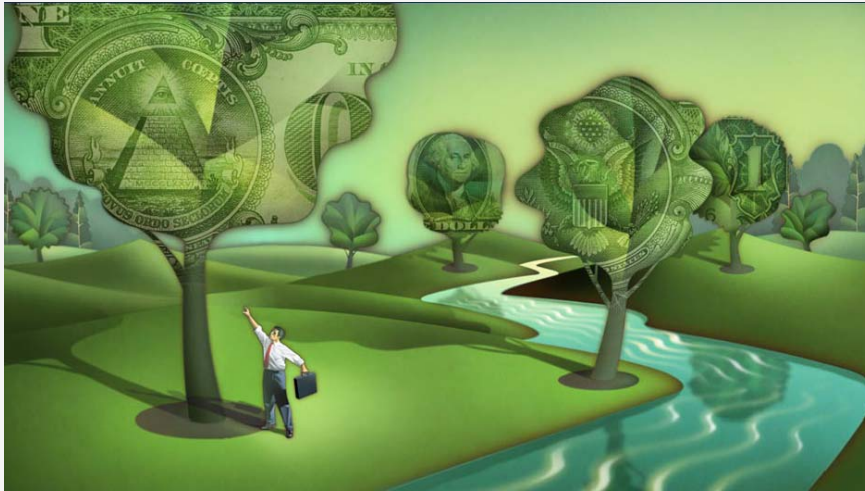




- M-RETS Operating Procedures allow certificate transfers with other compatible tracking systems
- M-RETS must establish protocol with Administrators of other tracking systems
- Process will involve retiring the certificate in the Exporting System.
- All attributes will remain

- **Public Reports**
  - Account Holders
  - Registered Generators
  - Certificate Activity
  - RRC Offers/Bulletin Board
  - RRC Program
- **Private User Reports**
  - Sub-Account Activity
  - Generator Activity
  - Certificate Transfers
  - RRC Status
- **Regulator Reports**
  - Compliance Monitoring
  - Certificate Serial Number Look-Up





## Participating in M-RETS

Benefits of participating in M-RETS  
Who should participate  
Registration Requirements  
Fees and Billing process



# Who can participate in M-RETS



- Generator Owners
  - Generators, aggregators all the way down to Home Owners – everyone can have an account and generate Certificates
- Load Serving Entities
  - If you serve load in the M-RETS states, the M-RETS system will assist in reporting RPS and voluntary compliance
- Traders
  - M-RETS serves as a Certificate accounting mechanism for the physical transfer of the Certificates
- Regulators
  - Provides access to account information and data for purposes of tracking State RPS Compliance reporting
- Public
  - Provides access to various data elements related to the purpose of M-RETS
  - Certificate statistics, and generation.
- System Administrator
  - Responsible for all of the day-to-day operations of the system



# Benefits to M-RETS participants



- Overall Benefits:
  - Facilitates clean/green power and green tag markets
  - Reduces transaction costs for generators and suppliers
  - Introduces administrative and cost efficiencies
  - Unbiased third-party verification
  - Addresses data confidentiality concerns
- Benefits for Generator Owners
  - The key challenge for clean and green generators is capturing their environmental value. Certificate trading:
    - Creates a platform that places a dollar value on environmental benefits
    - Allows clean and green generators to access an additional revenue stream or “green” premium
    - Ensures more liquid commodity pricing
- Load Serving Entities
  - Assist in reporting RPS and voluntary compliance
- Traders
  - Increased market liquidity
- Regulators
  - Verify compliance with RPS, EPS, state purchase requirements, etc.
  - Provide data for environmental disclosure labels
  - Verify product claims



# Registration Requirements



- All Account Holders must sign Terms of Use agreement prior to opening an account
- Generators reporting data through Midwest ISO must sign release form
- Visit [www.m-rets.com](http://www.m-rets.com) for details. Forms will be available for download July 2<sup>nd</sup>.



# M-RETS Fees (proposed)



<b>1) One-time Registration fees</b>	Large Generator (>10 MW)	\$	750
	Medium Generator (1-10 MW)	\$	350
	Small Generator (<1 MW)	\$	100
	"Micro" Generator (<40KW)	\$	50
	Large LSE (>1,000,000)	\$	750
	Medium LSE	\$	350
	Small LSE (<100,000)	\$	50
	Marketers	\$	750
<b>2) Subscription Fees (annual)</b>	Large Generator (>10 MW)	\$	1,500
	Medium Generator (1-10 MW)	\$	750
	Small Generator (<1 MW)	\$	250
	"Micro" Generator (<40KW)	\$	100
	Large LSE (>1,000,000)	\$	1,500
	Medium LSE	\$	750
	Small LSE (<100,000)	\$	50
	Marketers	\$	3,000
<b>3) Volumetric fees</b>	\$/MWh on total Load (LSE's pay)	\$	0.0018
	Secondary transfer Fee	\$	0.005



- Registration/subscription fee based on Nameplate capacity
- For volumetric fee, retail load sales from previous year will be used.
- Example: Assume a state load of 60,000,000 MWh. LSE A has 20,000,000 sales, LSE B 30,000,000, LSE C 10,000,000
  - Total volumetric fees:  $60,000,000 \times \$0.0018 = \$108,000$
  - LSE A fees: \$36,000 – LSE B fees: \$54,000 – LSE C fees: \$18,000
- No fees for REC creation, transfer or retirement.
- What's a Secondary transfer fee



- APX will bill Account Holders directly
- LSE and Generator aggregations will be billed based on their aggregate size
- Volumetric fees billed quarterly
- 2007 subscription fees will be prorated. Full subscription fees for 2008, billed Jan. '08
- Seller pays secondary transfer fees
- Additional fee may be added for import/export of RECs to another Tracking System

# Comparison to other Programs' Fees



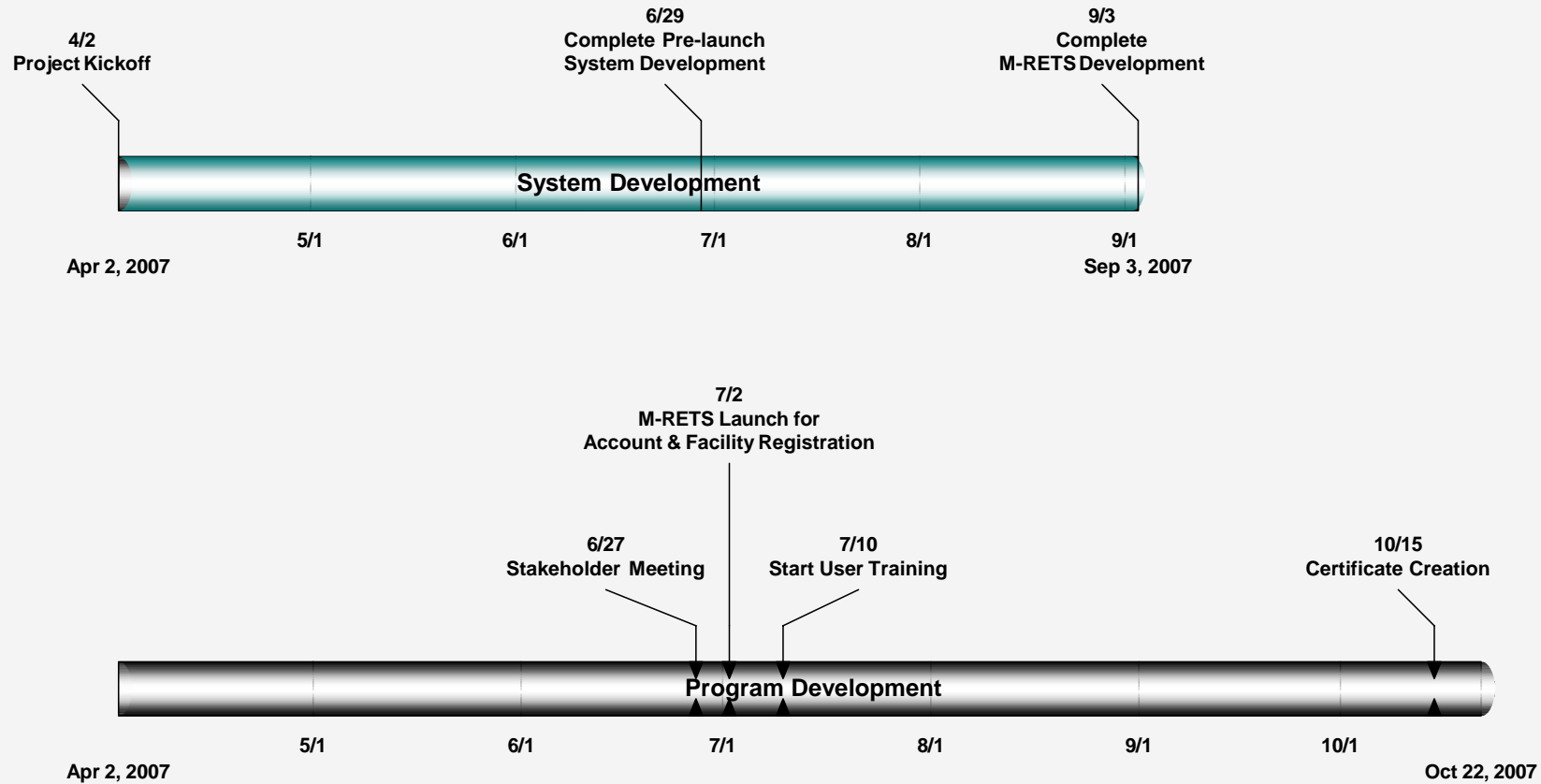
	PJM GATS	WREGIS	NEPOOL GIS
<b>Volume fee</b>	<ul style="list-style-type: none"> <li>LSEs fee of \$0.008/MWh determined against net load served in states in which the LSE uses GATS.</li> <li>Fee of \$0.25/MWh for certificates transferred into a reserve sub-account, unless it is used for compliance with a PJM-state RPS.</li> </ul>	\$0.03 per MWh (\$0.01 Retirement fee, \$0.005 issuance fee, \$0.005 transfer fee)	2002: \$0.0176 per MWh 2003: \$0.0173 2004: \$0.0123 2005: \$0.0098 2006: \$0.0074 2007: \$0.0070  (APX fees paid by LSE's in RPS states)
<b>Usage fee</b>	<ul style="list-style-type: none"> <li>\$2,000/year fee for PJM LSEs</li> <li>\$1,000/year for non-LSEs, brokers, traders and renewable generators (No annual fee for renewable generators with aggregate generation under 10 MW)</li> </ul>	<ul style="list-style-type: none"> <li>Annual Account Fee: \$1,500 for LSE, Marketers, Generators (Large). \$850 for Generators (Med), \$250 Generators (Small), \$200 Generators (Micro)</li> </ul>	None





## **M-RETS Status and Timeline**

# M-RETS Timeline – Key Dates



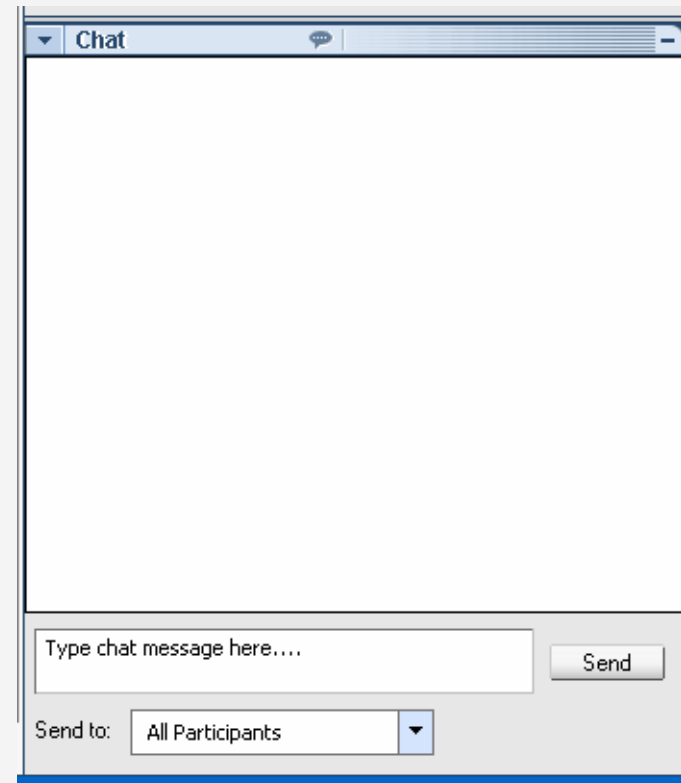
## Upcoming Events



- Additional Webinars
- First Stakeholders Meeting: June 27
- Registration Begins: July 2
- Visit [www.m-rets.com](http://www.m-rets.com) for additional updates



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**Thank you for your time today.**



- For more information visit [www.m-rets.com](http://www.m-rets.com)

