



### Midwest Renewable Energy Tracking System (M-RETS)

Presentation to M-RETS Stakeholder Group

June, 27 2007



# Agenda



- Introductions
- M-RETS Status Update
- Overview of M-RETS fees and subscriber agreement
- Overview of M-RETS functionality
- Overview of M-RETS governance
- Updates from States on policy and rulemaking
- Next Stakeholder meeting





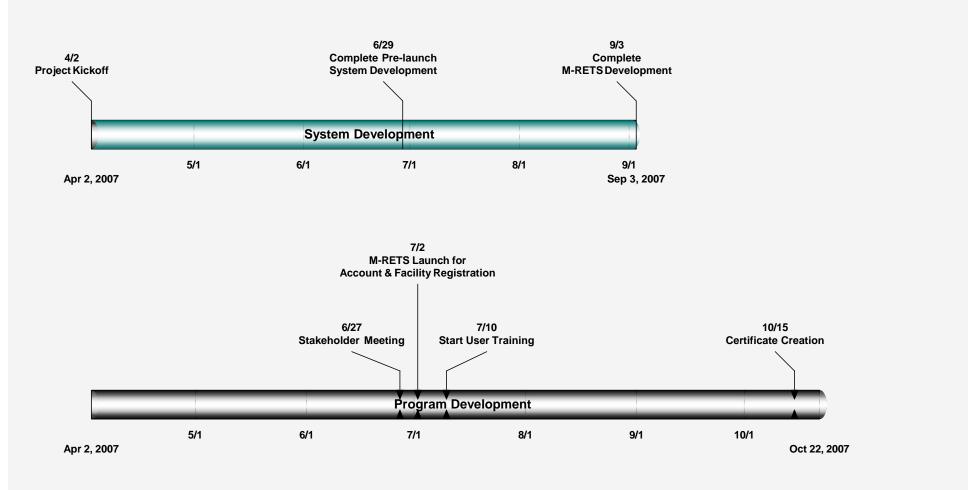


## **M-RETS Status Update**





# **M-RETS** Timeline









## **M-RETS Fees and Subscriber Agreement**

M-RETS Subscriber Agreement Midwest ISO Release Form M-RETS Fees Structure M-RETS Billing Process



### **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 <u>www.m-rets.com</u> for details. Forms will be available for download July 2<sup>nd</sup>.







- M-RETS will be incorporated in the future. APX provides services to M-RETS in running the program on a day-to-day basis, and owns the system
- The agreement will define the Terms of Use, Business Rules and M-RETS fees
- M-RETS Subscribers will enter into a user agreement with APX to use the system







- Subscriber will have non-exclusive rights to use the M-RETS system
- Subscribers attest the accuracy of information, and compliance with M-RETS Operating Procedures
- Agreement is perpetual, unless terminated by one of the parties. Reasons of termination are described in the Terms of Use
- The Terms of Use also describe a dispute resolution process, and limitation of liability



## **M-RETS Fees (proposed)**



1) One-time Registration fees	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
2) Subscription Fees (annual)	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
3) Volumetric fees	\$/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 x \$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.
- No fees for State Regulators and Reporting Entities
- What's a Secondary transfer fee



# Billing



- 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
- Invoices will be sent via email. Users will be able to view & download invoice via an M-RETS webpage
- Wire payments due 30 days from invoice date







	PJM GATS	WREGIS	NEPOOL GIS
Volume fee	<ul> <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)
Usage fee	<ul> <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> <li>Annual Account Fee: \$1,500 for LSE, Marketers, Generators (Large). \$850 for Generators (Med), \$250 Generators (Small), \$200 Generators (Micro)</li> </ul>	None





- Form needs to be signed by M-RETS generator owners that will have their monthly production data reported by the Midwest ISO
- Form can be downloaded from M-RETS website <u>www.m-rets.com</u>
- Signed form must be sent to M-RETS Program Administrator who will provide to MISO



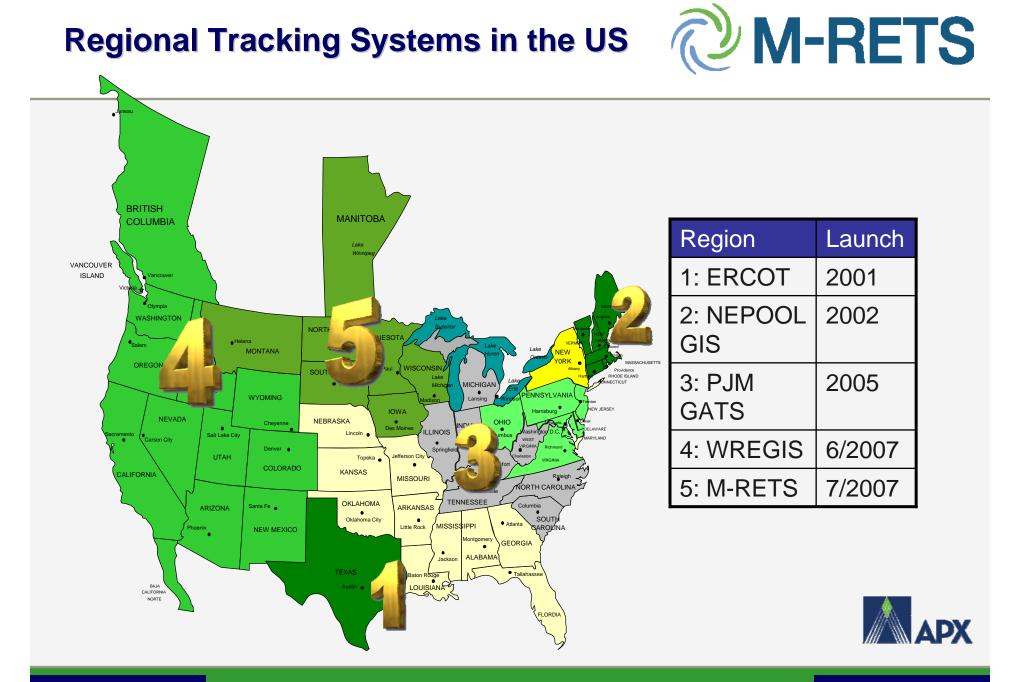




## **M-RETS Functional Overview**

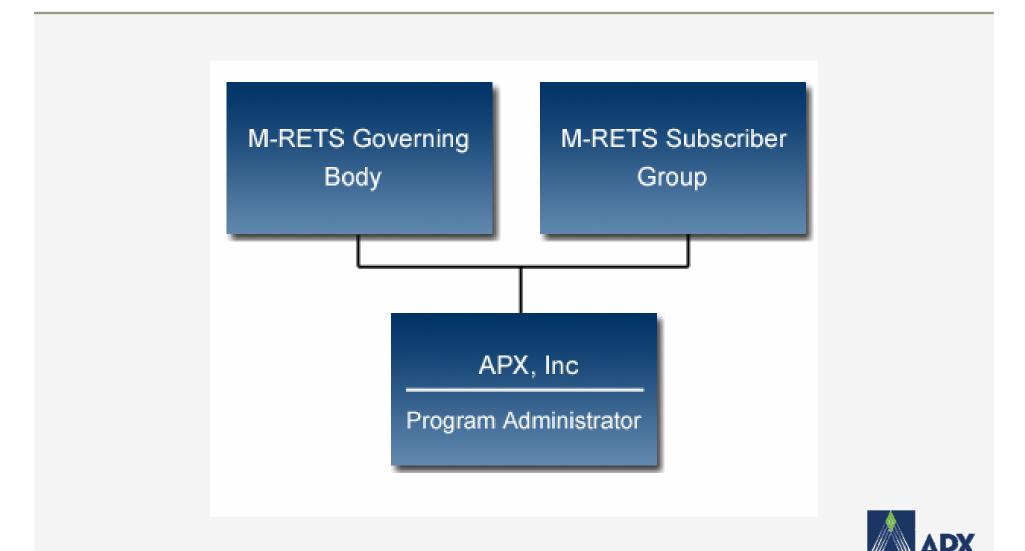
Tracking Systems Fundamentals M-RETS Functional Overview M-RETS Data Sources M-RETS Account Structure Certificate Creation Process & Timeline Imports & Exports





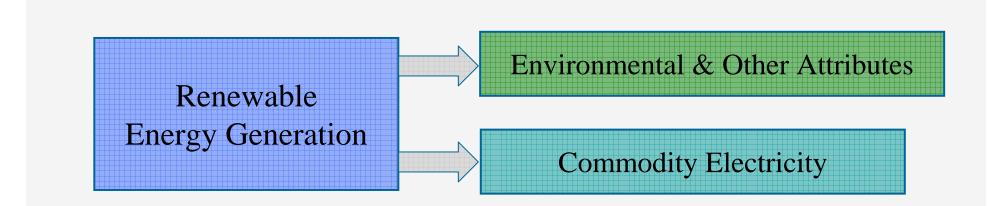
## **M-RETS Governance**





### **Introduction to Certificate-based Renewable Energy Trading**



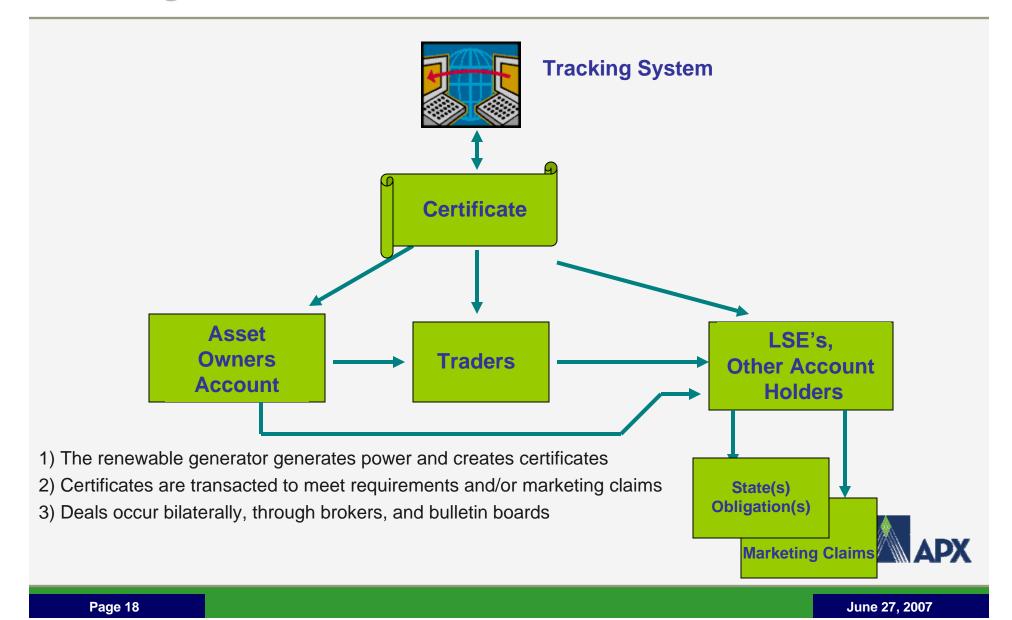


- Certificates represent the right to claim environmental and other attributes associated with electricity generated from a renewable energy facility
- Two tradeable commodities now exist: **Renewable Energy Credits (REC)** and **Commodity Electricity** (each priced separately)
- RECs represent the environmental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



### **REC Tracking System Overview -Trading/Settlements**





### REC Tracking Systems – Process Flow

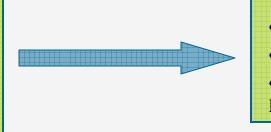


#### **Account Registration (3 User Types)**

- Account Holder (Generator Owner, LSE, Marketer, Broker, etc)
- Qualified Reporting Entity (QRE)

Administrator

State/Provincial/Voluntary Program



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



### **M-RETS Accounts**



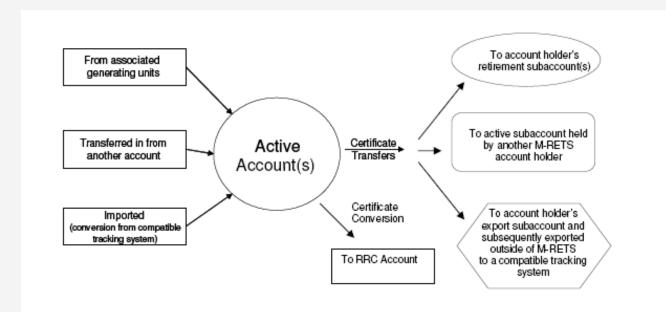
## • Basic M-RETS Account types contain:

- 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



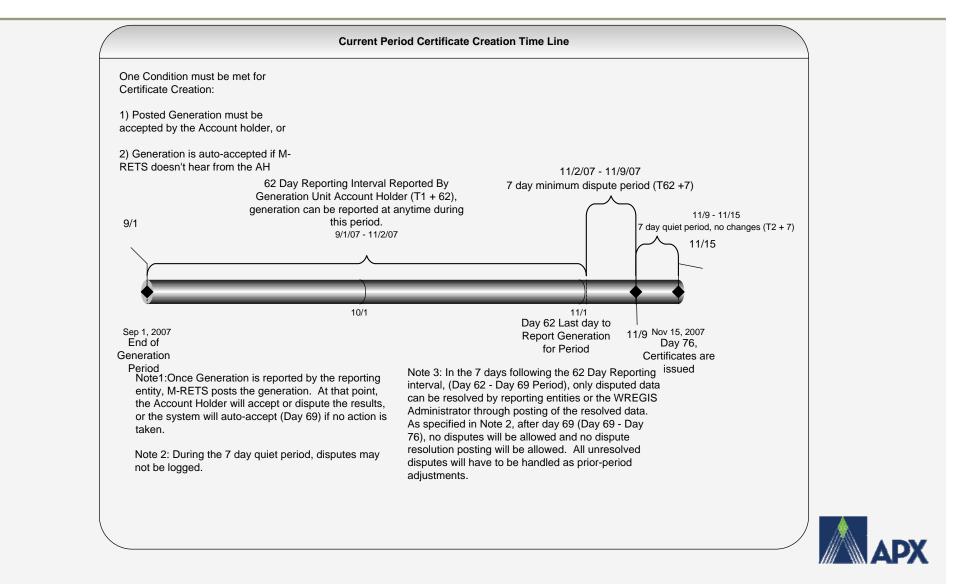
### **M-RETS Data Sources**



<ul> <li>Midwest ISO</li> <li>Settlement</li> <li>Qualified Reporting</li> <li>Entity (QRE)</li> <li>Self-reporting</li> </ul>	QRE and self- reporting are options if MISO data not available
Generator Entered – M-RETS Admin Verified	Information such as fuel type(s), vintage, capacity, location etc
Generator Entered – Regulator Verified	State certification number required
	Settlement • Qualified Reporting Entity (QRE) • Self-reporting Generator Entered – M-RETS Admin Verified Generator Entered –

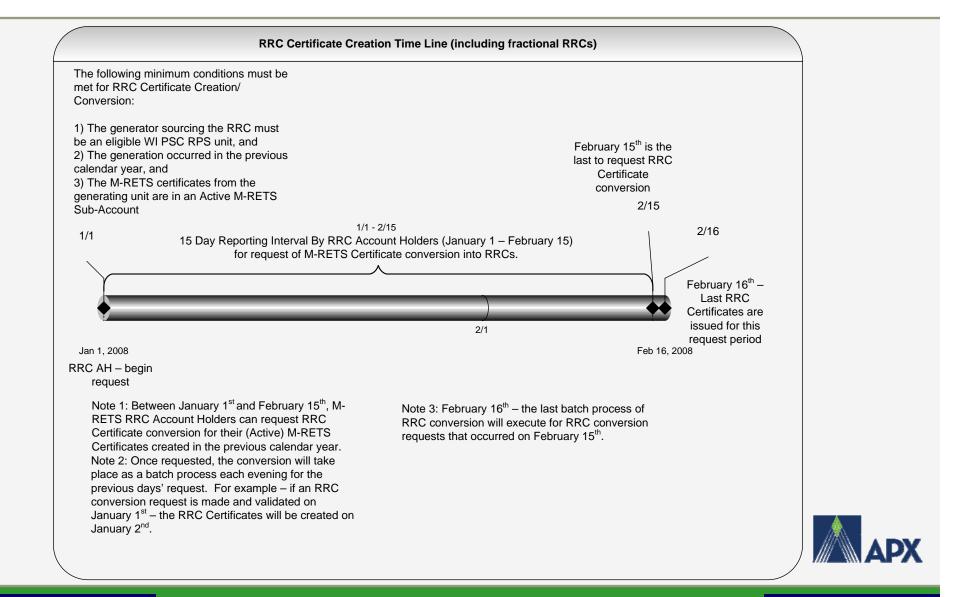
### **M-RETS** Certificate Creation Timeline





### **WI RRC Certificate Creation Timeline**







- 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







## **Updates from M-RETS States**

Roundtable – State Representatives provide update on RPS status and rulemaking



## **Upcoming Events**



- Additional Webinars
- First Stakeholders Meeting: June 27
- M-RETS Open for Registration: July 2
- Visit <u>www.m-rets.com</u> for all updates







For more information visit www.m-rets.com

