



Fact or Fiction: Demystifying Renewable Fuel Certificates

M-RETS Presentation
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Benjamin Gerber, President & Chief Executive Officer, M-RETS Ben@mrets.org



Background



M-RETS creates and tracks Renewable Thermal Certificates (RTCs) and Renewable Electricity Certificates (RECs) across North America.



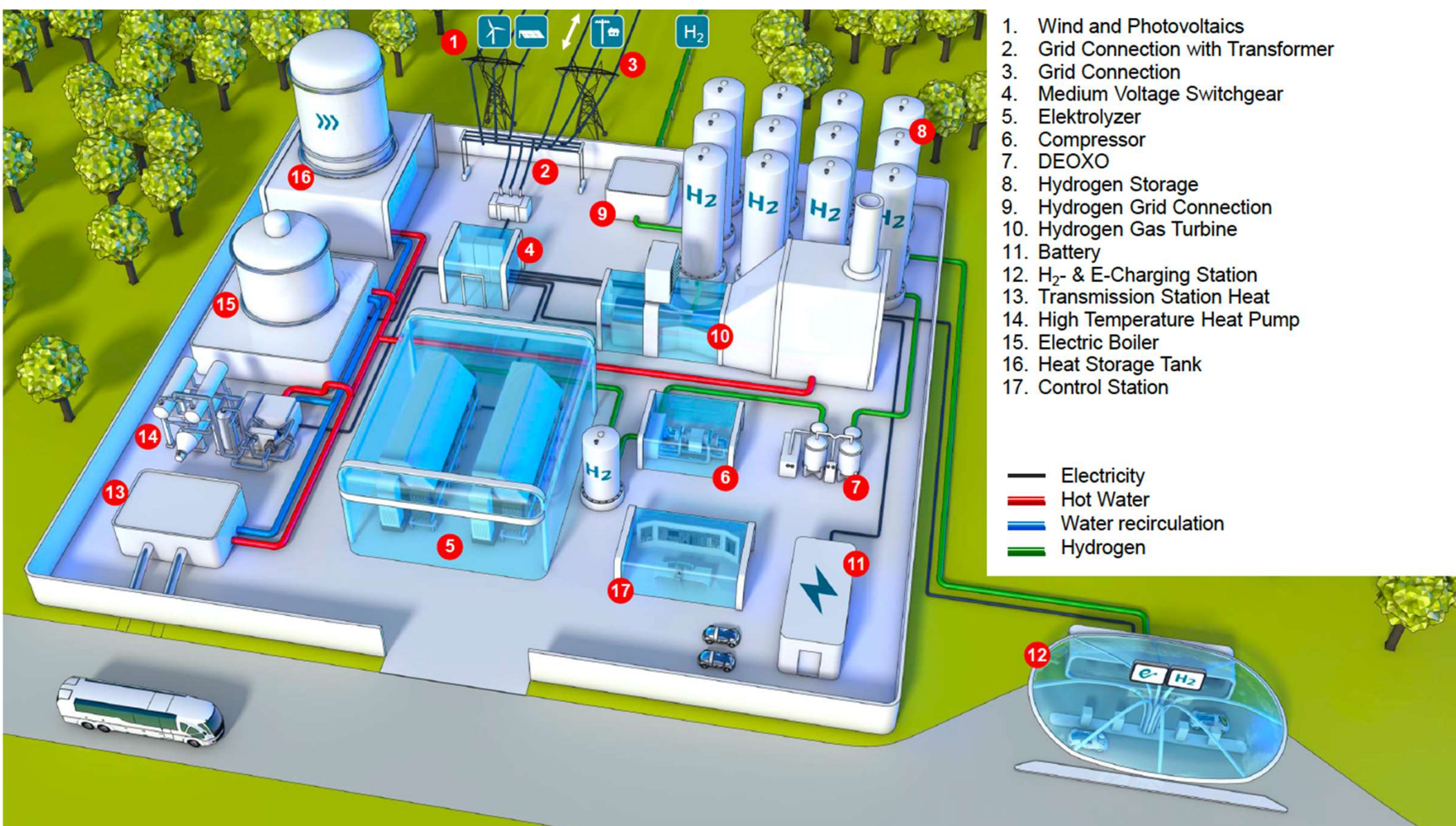
M-RETS RECs are able to contain hourly data information and peak/off-peak and RTC's may include verified carbon intensity data.



M-RETS supports RTC and REC compliance and voluntary markets in one easy to use platform that utilizes the latest software.

- **Mission:** M-RETS validates the environmental attributes of energy to serve as a trusted centralized gateway to environmental markets.
- Independent non-profit 501(c)(4) with a stakeholder board.
- M-RETS tracks in all states and provinces.

Clean electrons and clean molecules are the input to the fuels and decarbonized economy of the future.



What Does Renewable Thermal Mean?

- **Biogas** - means a mixture of CO₂ and hydrocarbons, primarily methane gas, from the biological decomposition of organics.
- **Renewable Natural Gas** - Biogas upgraded to meet pipeline quality standards so it may blend with, or substitute for, geologic natural gas.
- **Blue Hydrogen** - H produced from natural gas—usually via steam reforming with CCS.
- **Green Hydrogen** - H produced using renewable electricity—often curtailed—to produce hydrogen via electrolysis.
- **Low Carbon Fuels** – Ethanol, Biodiesel, Green Methanol, Green Ammonia, and other low carbon fuels may qualify (please speak with M-RETS staff).
- **Other** – heat pumps, waste heat recovery, solar thermal, renewable liquid fuels, etc.

Supported Thermal Resources



Thermal Resources

- Biogas
- Compost Heat Exchange System
- Heat Pumps
- Hydrogen
- Methanol
- Renewable Natural Gas
- Solar Thermal
- Woody Biomass System
- Biomethane/RNG (pipeline quality)
- Other?

State of the System in #'s Q2 2024 Data

- 73 Active Organizations
- 69 Active Generators
- 13,607,487 Certificates issued since 2020
- 1,775 unique transactions
- Retirements
 - Compliance - 425,889 (WA CFS/OR CFP)
 - Voluntary - 3,006,708

What does an RTC look like?

RTC Information

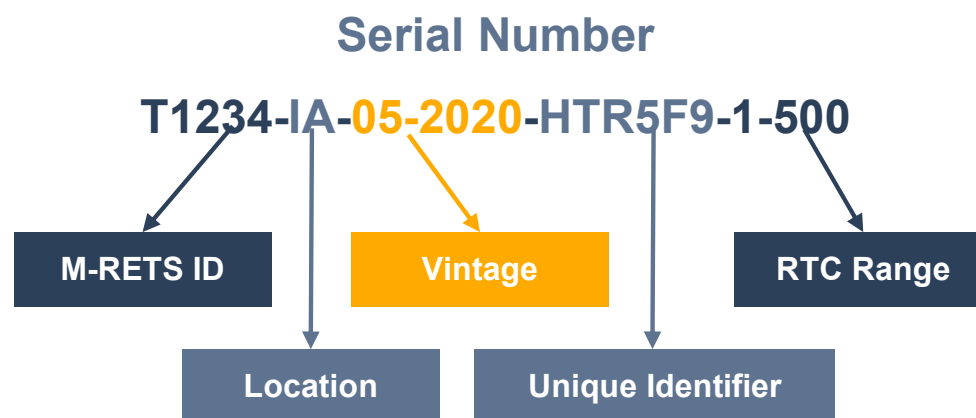
**Dekatherm (Dth) Renewable Thermal =
1 Renewable Thermal Certificate**

Certificate Details include:

- Serial Number (See Example)
- Account
- Project
- Thermal Resource
- Feedstock
- Vintage
- Location
- Quantity

Carbon Pathways (If Applicable)

IRE Verification (If Applicable)



*IRE stands for Independent Reporting Entity which is a third party that reports data
On behalf of a generator M-RETS.



RTC Batch Details



Serial Numbers T1111-ND-11-2023-4134E3B2-1 to 100

Generator Unit Name	My Biogas generator
Generator Facility Name	Jones Farm
Asset ID	M1111
Account	My biogas account
Thermal Resource	Biogas
Vintage	2023-11-01
Quantity (RTCs)	100

Carbon Pathways

Tool Name	Carbon Intensity	grams CO2 / Dth	Date Range	CP Endpoint	CP Endpoint Description
GREET v1.3.0.13239	-25.68	-27092.4	2023-01-01 - 2025-01-01	Injection Point	Higher CI example

Eligibilities

Oregon

Independent Report Entity verified

Injection Receipt: [MN_100__CFE_Memo_.docx](#)



M-RETS THANK YOU

Contact:

Benjamin Gerber, President &
Chief Executive Officer, M-RETS

Ben@mrets.org

