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M-RETS Change Request Form

Project Issue Request ID: 0002	Requested by: Annette Bendish North Dakota Public Service Commission	Type of Change: Enhancement	Date Requested: 08/24/2009 Priority:
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Title: Recycled Energy: Using wasted flare gas to generate electricity

Description: Add a new fuel type Classification for Recycled Energy and fuel type 'flare gas'

Using otherwise wasted flare gas to generate electricity. By using this wasted resource CO₂e is reduced by 76% in comparison to flaring and new electricity is produced from waste product to offset other sources of power like coal.

Efficient gas generators or installed at the flaring facility. These generators use the otherwise flared gas to generate electricity on site and sell it back into the electric grid. This electricity is considered recycled in North Dakota.

APX Response:

Adding a new 'Recycled Energy' classification and associated fuel types will require modifications to the registration screen and certificate information screen. This change will also require a change to the M-RETS Operating Procedures to qualify Recycled Energy for the creation of certificates. The estimated scope of work assumes that the certification and functionality of the recycled energy certificate will remain the same as the current REC functionality. Any recommended changes to the existing functionality, such as certificate expiration, trading restrictions, special subaccounts etc, will affect the scope of work and cost estimate.

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Reason for Change:

M-RETS documents make reference to these sections in the North Dakota Century Code which have been updated as of August 1, 2009. The change request is to update the M-RETS documentation in order to recognize electricity generated from flare gas as recycled energy:

49-02-25. Renewable electricity and recycled energy defined. As used in section 49-02-24, renewable electricity and recycled energy include electricity generated from facilities using the following sources:

1. Solar, using the sun as the source of energy for producing electricity.
2. Wind, using the wind as the source of energy for producing electricity.
3. Hydroelectric, using water as the source of energy for producing electricity.
4. Biomass, using agricultural crops and agricultural wastes and residues, wood and wood wastes and residues, animal wastes, and landfill gas as the fuel to produce electricity.
5. Geothermal, using energy contained in heat that continuously flows outward from the earth as the source of energy to produce electricity.
6. Hydrogen, provided that the hydrogen is generated from a source listed in this section.
7. Recycled energy systems producing electricity from currently unused waste heat resulting from combustion or other processes into electricity and which do not use an additional combustion process. The term does not include any system whose primary purpose is the generation of electricity unless the generation system consumes wellhead gas that would otherwise be flared, vented, or wasted.

49-02-26. Qualifying for renewable electricity and recycled energy credits - Exception for certain hydroelectric facilities. Except as otherwise provided in this section, for purposes of qualifying for renewable electricity and recycled energy credits, electricity must be generated from a source identified in section 49-02-25. For electricity generated from hydroelectric facilities, the hydroelectric facility must have an in-service date of January 1, 2007 or later, or be new hydroelectric generation obtained from repowering or efficiency improvements to hydroelectric facilities existing on August 1, 2007.

Deliverables:

- Update the M-RETS Operating Procedures to reflect recent changes in the North Dakota Century Code to include Recycled Energy as a qualified classification for certificates..
- Update fuel type classification to include Renewable, Non Renewable and Recycled Energy
- Update Fuel Types Flare Gas

Risk & Issues Involved:

- Qualifying Recycled Energy for certificate Issuance needs Board Approval

External Impacts:

- Reduced CO2e emissions and a new source of RECs



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Attachments/References:
See North Dakota Century Code online.

APX Only:

Estimate for Scheduled Release:

Additional Qualified Fuel Type Classification and Fuel Type	5 Hours
System Test, Regression Test and UAT:	16 Hours
Operating Procedures	1 Hour

Cost Impact: Per contract, will be implemented on a Time & Material basis, at \$149.10/hour.

Total Cost Estimate: **\$3280.20 (22 Hours)**

Approvals

APX: Joe Varnas

Date:

[M-RETS Inc.]:

Date:

Notes:



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