AMWG Change Request Form

Change Control Number: 2013-17
Implementation Version: Future

This Section Is Completed by Submitter of Change Request Only:

Submitter Name: Rob Bevill	Submitting Company Name: Green Mountain Energy Company	Phone Number: 512-657-0237
Date of Submission: 7/2/13	Affected Business Process: REP use of the API for energy usage on the SMT	Submitter's E-Mail Address: Rob.bevill@greenmountain.com
AMWG Issue cross-reference number:		Market Guide or other Market Impact (Y/N):

Detailed Description and Reason for Proposed Change(s):

The current volume limitations of the API for meter usage are preventing some market participants from implementing desired processes. This change increases the maximum number of ESI IDs per request that the API for meter usage will support.

Historical Usage for Daily Enrollments
REPs should have the ability to retrieve 12 months of historical data (interval, daily or monthly) for customers that they enroll. Over the past 12 months, there has been an average of 8,700 enrollments daily with the highest month averaging 11,300 per day. Below are the market-wide volumes of switches and move-ins for the past year.

(Enrollment volumes expressed in thousands)

Month	Switch	MVI	Sum	Daily Avg.
Jul-13	80	198	278	9.3
Jun-13	94	202	296	9.9
May-13	121	219	340	11.3
Apr-13	60	166	226	7.5
Mar-13	73	225	298	9.9
Feb-13	58	171	229	7.6
Jan-13	50	152	202	6.7
Dec-12	43	255	298	9.9
Nov-12	64	183	247	8.2
Oct-12	55	171	226	7.5
Sep-12	70	193	263	8.8
Aug-12	97	144	241	8.0
	865	2279	3144	8.7

For the sake of using a round number, assume daily enrollment volume is 10,000.
Below are hypothetical support volumes for daily requests for historical usage (interval, hourly or daily) for up to 75% of market enrollments. Regular batch processing could be leveraged to provide historical data for new enrollments based on the daily REP of Record synch files from the TDSPs.

25% * 10,000 = 2,500
50% * 10,000 = 5,000
75% * 10,000 = 7,500 - If >7,500, response time may be delayed up to an additional 24 hours.

Requirement: System should support a prescription service for REPs that automatically provides 12 complete months of historical usage each day for ESI IDs that are newly served by a specified DUNS number. REPs

should be able to select between 15-min, hourly or daily historical usage, by DUNS. The system should support delivery of up to 7,500 ESI IDs (market wide) within 24 hours of receiving the daily synch files from the TDSPs. If >7,500 ESI IDs are subscribed to, an additional 24 to 48 hours may be required for data delivery.

Backfilling and other Ad-hoc API Calls for Usage

As REPs begin to use AMS data in their business processes for the first time, there will be occasions when a REP with an existing customer base is a newcomer to SMT and desires to make a one-time retrieval of historical interval usage for some or all of its existing customer base ("backfilling"). Assume 3 broad sizes of customer bases.

Small: up to 100,000
Medium: 100,000 to 500,000
Large: >500,000

Assume backfilling over a period of several days or weeks is acceptable.
Assume large REPs will have limited or no need to backfill.

Backfilling Requirement: System should enable backfilling requests for interval, hourly or daily usage for up to 50,000 ESI IDs (market wide) per day and should support data delivery within one week.

Requirement for Other Ad-hoc API Calls for Usage: The tables below describe various sized data requests and their proposed respective response times.

15-min	a	b	c	d	e	f
	# of ESIIDs (market wide)	# of days requested	# of intervals per day	Total intervals requested	Response time (d)	Avg # intervals per day
	100	365	96	3,504,000	1	3,504,000
	1,000	365	96	35,040,000	2	35,040,000
	10,000	365	96	350,400,000	2	175,200,000
	25,000	365	96	876,000,000	4	219,000,000
	50,000	365	96	1,752,000,000	7	250,285,714

Hourly						
	5,000	365	24	43,800,000	1	43,800,000
	25,000	365	24	219,000,000	2	219,000,000
	50,000	365	24	438,000,000	2	219,000,000
	100,000	365	24	876,000,000	4	219,000,000
	200,000	365	24	1,752,000,000	7	250,285,714

Daily						
	5,000	365	1	1,825,000	1	1,825,000
	50,000	365	1	18,250,000	2	18,250,000
	100,000	365	1	36,500,000	2	18,250,000
	300,000	365	1	109,500,000	4	27,375,000
	500,000	365	1	182,500,000	7	26,071,429

Requirement: All data should be available in either .csv or .lse format, at the requesters choice.

This table is from the original version of this Change Request and has been retained for reference only.

Current

Number of ESIIDs (per API request)	Number of days (per API request)	Number of API requests per day	Max Estimated Response Time per API Request
500	365	20	24 hours
5,000	20	20	24 hours
25,000	4	20	24 hours
50,000	2	10	24 hours
250,000	1	10	24 hours

NOTE: Requester must complete above fields and include a redlined example of modifications to each impacted implementation guide. This must be included at the time the request form is submitted.

Please submit this completed form via e-mail to AMWG Leadership **and RMS Chair.**

For AMWG Leadership Use Only:

AMWG Recommendation:	Recommendation for Emergency (Y/N):	Date of AMWG Recommendation:
Detailed Description and Reason for Revision:		
RMS Decision:	**Emergency (Y/N):**	**Date of RMS Decision:**
Summary of RMS Discussion:		

Insert Applicable Documentation Here: