



North American Energy Standards Board

801 Travis, Suite 1675, Houston, Texas 77002

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Home Page: www.naesb.org

NAESB PAP10 Task 5 Energy Usage Communication Survey

Introduction

NAESB has been tasked by National Institute of Standards and Technology (“NIST”) Priority Action Plan (“PAP”) 10 to conduct this survey across the energy sector to gather the current practice and future plans for communicating energy usage information between energy suppliers, and customers, including providers of intermediary services. This effort is part of the larger national effort on smart grid standards. Please see the following link for additional information on the NIST smart grid standards effort and on PAP 10:

<http://collaborate.nist.gov/twiki-sgrid/bin/view/SmartGrid/PAP10EnergyUsagetoEMS>

PAP10: Standard Energy Usage Information

Customers will benefit from standardized energy usage information that enables them to make better decisions and take other actions consistent with the goals of Sections 1301 and 1305 of Energy Independence and Security Act (“EISA”) of 2007. An understanding of energy usage informs better decisions about energy use and conservation, and is the basis for performance feedback on the operation of customer owned energy management systems and understanding device energy usage and management. Some states have already mandated customer access to meter-based usage information. Work in the first half of 2010 in support of PAP 10 will drive a standardized information model for broader exchange of energy usage information.

NAESB has been assigned three tasks by NIST related to PAP 10, which are:

Task 5: Survey current practice. Gather existing usage communications between energy suppliers and consumers, including providers of intermediary services

Task 6: Consolidate use cases and requirements for existing and planned energy communications

Task 8: Develop a plan to expedite harmonized standards development and adoption within the associated standards bodies

The goal of Task 5 and this survey is to collect industry current practices, which will be used as input for tasks 6 and 8, for the analysis to identify gaps and overlaps as well as identify an expedited standards harmonization path.

This survey is primarily focused on interactions with Residential customers. However, to the extent that you currently support communications of energy usage information to Commercial & Industrial (C&I) customers and may extend that service to residential customers or will use that current process to inform the design of future energy usage data to residential customers, we would also be interested responses to questions that include C&I. However, we would ask that you please specify in your answer whether you are referring to C&I or residential customer classes.



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NAESB PAP10 Task 5

Energy Usage Communication Survey

Name:

Company:

Title:

Email:

Phone:

NAESB will not disclose any of the above information in reporting the results of this survey.

1. Have you generated use cases, business requirements and/or business process documentation for communicating customer usage data to either a customer authorized third party or the customer?
 Yes No
 - a. If yes, are they available to share as part of the NIST Smart Grid standards process?
 Yes No
 - b. If yes, please provide a link if publicly available or a contact from whom we may obtain the use case, business requirements and/or business process documentation?

2. Do you provide customer energy usage data to authorized third parties?
 Yes No
 - a. If yes, how is the third party authorized and who provides the authorization?

3. Are you aware of any best practices for residential energy usage data communication? If so, can you describe them or provide links to additional information?



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4. What type of energy usage information is communicated? Does the information differ by customer class?

	Peak Billing Demand	On Peak Usage	Off Peak Usage	Seasonal	Monthly	Time of Use	Hourly or less	Other
Residential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Commercial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Industrial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

a. Current Practice

i. Historical energy usage data – Typically, how much historical data is communicated at one time?

ii. Does the requester have the ability to specify a time range?

Yes No

If yes, at what interval?

iii. Do you use historical energy usage data to develop energy usage projections?

Yes No

If yes, is it done on a near real time basis or a longer term (e.g. next day, monthly)

iv. Do you provide forecast usage data to the end of the billing period?

Yes No

b. If not currently provided today, do you plan to provide any of the above in the future, and if so, which?

5. Do your customers provide any energy usage information *to you*?

Yes No

a. What type of information?

b. Is there any usage information that would be useful to receive from the customer?

Yes No

c. If so, then what type of information would you like to receive?



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6. Do you provide a means for customers to request energy usage data on-demand?

Yes No

a. How much usage data can they request (e.g. a year of usage history at hourly intervals or some other interval)?

7. How and how often is usage information communicated to the customer?

a. Currently (please check all that apply)

	Monthly	Daily	Hourly or less	Near real-time	Other
Paper bill	<input type="checkbox"/>				<input style="width: 100%; height: 20px;" type="text"/>
Email	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
Website	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
Other data exchange format	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>

b. Plan / wish for future (please check all that apply)

	Monthly	Daily	Hourly or less	Near real-time	Other
Paper bill	<input type="checkbox"/>				<input style="width: 100%; height: 20px;" type="text"/>
Email	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
Website	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%; height: 20px;" type="text"/>
Other data exchange format	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>

c. Does this vary by customer class? Yes No If so, please explain



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8. What is the current deployment status of your usage communication capability?

If not deployed, then please provide an approximate date for this capability to be available to customers.

	Investigating	Funded	Implementing	Deployed	Other / Date
With a bill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Event based (e.g. in case of dispute)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Published at regularly scheduled intervals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
On-demand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Other means	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

9. To what, if any, customer usage information exchange standards do you comply today? (Please check all that apply)

- IEC TC57 CIM Multispeak
 DLMS COSEM EDI 867
 MDMA C12.19 Tables None
 Other

In the future? (Please check all that apply)

- IEC TC57 CIM Multispeak
 DLMS COSEM EDI 867
 MDMA C12.19 Tables None
 Other



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10. In which, if any, NIST Smart Grid Interoperability Panel (“SGIP”) activities are you engaged?

(Please check all that apply)

- PAPs SGIP Committees

Please specify

a. In which, if any, other standards development activities or organizations are you engaged?

- OpenADE
 NAESB Smart Grid Standards Task Force
 Organization for the Advancement of Structured Information Standards (OASIS) Technical Committees

Other

b. If not, do you plan to engage?

- Yes, with NIST Yes, with other standards No

c. If not, is there a specific reason why not, or a particular barrier to participation (e.g. unsure of the NIST process, not enough time, regulatory barrier, etc.)?

11. Please provide any other comments related to your practice of providing customers with usage information, or any future applications you may be considering.

12. In which NERC region do you operate (<http://www.nerc.com/page.php?cid=19119>)?

(Please check all that apply)

- Electric Reliability Council of Texas
 Florida Reliability Coordinating Council
 Midwest Reliability Organization
 Northeast Power Coordinating Council
 ReliabilityFirst Corporation /Mid Atlantic Area Council
 Southeast Electric Reliability Council
 Southwest Power Pool
 Western Electricity Coordinating Council



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13. Please identify the stakeholder categories to which your company belongs?

(Please check all that apply)

- Appliance and Consumer Electronics Provider
- Commercial and Industrial Equipment Manufacturer and Automation Vendor
- Residential Consumer
- Commercial Consumer
- Industrial Consumer
- Electric Transportation Industry Stakeholder
- Electric Utility Company – Investor Owned Utility
- Electric Utility Company - Publicly Owned Utility
- Electric Utility Company – Municipal
- Electric Utility Company – Rural Electric Association
- Electricity and Financial Market Trader (includes Aggregators)
- Independent Power Producer
- Information and Communication Technologies Infrastructure and Service Provider
- Information Technology Application Developer and Integrator
- Professional Society, User Group, Trade Association and Industry Consortia
- R&D Organization and Academia
- Relevant Federal Government Agency
- Renewable Power Producer
- Retail Service Provider
- Standard and Specification Development Organization
- State and Local Regulator
- Testing and Certification Vendor
- Transmission Operators and Independent System Operators
- Venture Capital