



## NORTH AMERICAN ENERGY STANDARDS BOARD

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### About the North American Energy Standards Board

The North American Energy Standards Board (NAESB) is an American National Standards Institute (ANSI) accredited, non-profit 501(c)(6) corporation formed with the support of the U.S. Department of Energy (DoE) for the purpose of developing voluntary business practice standards designed to promote more competitive and efficient natural gas and electric markets. For nearly 25 years, NAESB and its predecessor organization, the Gas Industry Standards Board (GISB), have developed consensus-based standards that promote more competitive, efficient, and transparent business processes for the natural gas and electric industries in both the wholesale and retail markets. The organization's history of successful standards development has been made possible with the strong support of the DoE, the Federal Energy Regulatory Commission (FERC), the North American Electric Reliability Corporation (NERC), the National Association of Regulatory Utility Commissioners (NARUC), and state utility commissions, among many other governmental agencies at both the federal and state level.

Since 1994, NAESB has developed over 4,000 business practice standards through its process and maintains a membership of over three hundred corporations representing the wholesale gas, wholesale electric, retail gas and retail electric markets. With very few exceptions, all NAESB wholesale market standards have been adopted by the FERC and mandated as federal regulation for federally jurisdictional entities through the incorporation by reference process, and many of the NAESB retail market standards have served as a basis for regulations adopted by various state commissions. This course of action has been taken by the FERC in compliance with the current requirements of the National Technology Transfer and Advancement Act (NTTAA) and the Office of Management and Budget Circular A-119.

More than two-thousand participants are active in NAESB's standards development activities, and through the NAESB process, all entities that may be affected by a standard have an opportunity to voice their opinions and vote through a balanced process, regardless of membership status. This ensures that no one segment of the market is dominated by others and provides all entities the opportunity to have a seat at the table for the development of standards that may be made mandatory and require implementation. As noted, NAESB is an ANSI accredited standards development organization. This requires that the NAESB process adhere to the ANSI principles of openness, balance of interests, due process, consensus and the availability of an appeals process. Every step of the NAESB process is fully documented through agendas, work papers, minutes and transcripts to provide complete transparency of all actions taken and decisions made during the standards development process. This is of the utmost importance for regulators who evaluate the NAESB standards for potential rulemaking processes. Requests for standards development activities may be submitted in a number of ways and come from many sources, including the FERC, state commissions, other government agencies and NAESB members and non-members alike. To date, a large majority of the NAESB standards development activity has been initiated by the FERC for the wholesale market and by state commissions for the retail market.

Our work products include business practices, interpretations, transactional information requirements, data layouts and schemas, and coding along with telecommunication protocols and cybersecurity schemes – all of which make up the standards. We also have contracts and agreements templates, industry tools, certification programs, and offer training and courses related to our standards. The NAESB standards and work products are divided into publications specific to the wholesale electric market, the wholesale gas market and the retail markets. The following standards areas are included in the market specific publications.

#### **WHOLESALE ELECTRIC WORK PRODUCTS: (9 VERSIONS, MORE THAN 2000 STANDARDS IN THE MOST RECENT VERSION)**

OASIS Business Practices

OASIS S&CP

OASIS Data Dictionaries

Standards of Conduct

Coordinate Interchange\*

ACE Equation Special Cases\*

Manual Time Error Correction\*

Inadvertent Interchange Payback\*

Transmission Loading Relief\*

Contracts

Gas/Electric Coordination

Public Key Infrastructure/Cybersecurity

eTariff

Demand Response M & V



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Energy Efficiency M & V  
Smart Grid Standards – PAPs 03, 04, 09, 10  
Green Button

Electric Industry Registry (EIR)  
Modeling\*

*Last Published: March 30, 2020, Version 003.3. Version 003 adopted by FERC on May 20, 2021 (Docket Nos. RM05-5-029 and RM05-5-030; Order No. 676-J)*

*\* Complementary to NERC reliability standards.*

### **RETAIL WORK PRODUCTS: (10 VERSIONS, MORE THAN 1500 STANDARDS IN THE MOST RECENT VERSION)**

Market Participant Interactions  
Creditworthiness  
Billing and Payments in Competitive Energy Markets  
Electronic Delivery Mechanism  
Contracts  
Internet Electronic Transport  
Electronic Invoicing  
Registration Agent  
Retail Customer Information  
Disputes Resolution  
Payment Notification via UET  
Open Field Message Bus (OpenFMB)  
Retail Customer Enrollments, Drops & Account Information Change  
Inquiries

Demand Response M&V  
Smart Grid Standards – PAPs 03, 04, 09, 10  
Green Button  
Energy Efficiency Programs M&V  
Enrollment, Drop, and Account Information Change in Demand Response Programs  
Supplier Certification  
Data Privacy  
Net Metering  
Enrollment, Drop and Account Information Change for Demand Response Programs in a Registration Agent Marketplace  
Self-Deployment of a Demand Response Program by a Demand Response Service Provider in the Registration Agent Model

*Last Published: January 30, 2020, Version 3.3.*

### **WHOLESALE GAS WORK PRODUCTS: (15 VERSIONS, MORE THAN 600 STANDARDS IN THE MOST RECENT VERSION)**

Common Codes  
Capacity Release  
Creditworthiness  
Contracts  
Nominations  
Internet Electronic Transport

Flowing Gas  
Gas-Electric Coordination  
Invoicing  
eTariff  
Electronic Delivery Mechanisms  
Gas Quality

*Last Published: August 15, 2020, Version 3.2. Version 3.2 adopted by FERC on July 15, 2021 (Docket No. RM96-1-042; Order No. 587-Z)*