PAP-25 – HARMONIZED FINANCIAL DATA

ABSTRACT

SGIP should be active in the development of the XBRL (eXtensible Business Reporting Language) Extension Construction Energy Transportation (XBRL-CET) to promote interoperability with financial services for building the nation's Smart Grid.

XBRL is a financial reporting data that all publicly traded companies use to provide standardized financial reporting to the Securities and Exchange using XBRL, utilizing established "Data Sets". The XBRL data standard, and "Data Sets" are specifically designed for business, can be expanded through the use of extensions to accommodate industry needs and can synergize with other standards like Acord for insurance and agcXML for construction and IEP XML for solar energy.

How the Construction Energy Transportation extension to XBRL will be developed, and how it will respond to the energy industry, was the topic at the XBRL convention on September 16, 2014 followed by a presentation at the SGIP convention September 18th

The initial Green Button established a formally adopted a Smart Meter Data Set that prompted the development of a wide-range of new applications to perform analytics on energy usage to better manage consumption. XBRL-CET is designed to promote the same level of innovation in application development

by demonstrating the potential of XBRL for building the Smart Grid, and letting multiple industry system developers know about the effort to establish XBRL-CET to enable interoperability for use by energy related entities, public and private.

Building the nation's energy infrastructure will involve numerous stakeholders. Each has their own systems designed for their specific industry or need, and most systems cannot efficiently exchange data creating lost productivity and increased costs. The need for common standards and interoperability is well recognized and the government has lead the effort with the 2009 "Interactive Data to Improve Financial Reporting" legislation that created the XBRL standard for financial reporting to the SEC, the 2007 Energy Independence Act which established the Smart Grid Interoperability Panel and regulations such as the Data Act that requires all federally funded projects to utilize open standards for financial reporting.

This PAP will support the development of a standard informational model (GWAC Stack Level 4 Semantic Model) for reporting financial information for energy-related projects that can be utilized for a wide variety of reporting and analytical tools. It will begin by utilizing existing standards such as XBRL and leveraging prior work from the DOE and Solar Nexus to identify the "dictionary of terms" for Construction Energy Transportation industries. We will leverage the SGIP's diverse stakeholder community to involve multi-stakeholder concerns for data needs and utilizing the standard once completed.

For publicly-traded utility companies, this standard will dramatically streamline their Federal (FERC) reporting requirements while also feeding important financial data to financial service organizations for analytics and reporting information. Financial service organizations can use this information for several different tasks, including construction status information; measuring requirements compliance, schedule, and cost; and supporting decision-making around project financing. In fact, the information may be utilized in ways we never anticipated since it is common data used by a variety of stakeholder industries and governmental reporting requirements. Some of the key stakeholders include ISOs, Utilities, the DOE, construction companies, banks, and other financial service organizations.

The project will focus on three (3) primary areas:

1. Coordinate with existing XBRL standard. The PAP team will develop a "dictionary of terms" that are common in the construction, energy, and transportation industries. These terms will be provided to the XBR-US team as requirements to extend the XBRL standard to XBRL-CET.
2. Coordinate with CAISO to provide their Excel spreadsheet in a XBRL-CEL format. This is a simple conversion of Excel into an XML file formatted to support XBRL-CEL.
3. Create an interconnection bond form as an example of how XBRL-CEL can help streamline and auto-populate forms using a common information standard.

The prototype Dashboard is part of the AGC Surety Connection Project at CSU Chico (California State University Chico) and represents collaboration with Associated General Contractors of America (AGC), XBRL US along with many public and private entities. New applications created by interoperability are only enabled when data standards are universally adopted and implemented, and that takes a catalyst like the Green Button Data Set, or the Next Green Button Data Set – XBRL-CET.

KEY QUESTIONS TO CONSIDER

The mission of the SGIP is to promote interoperability and best business practices, however it has not extended its influence beyond manufacturers, and governmental policy and procedures. By expanding SGIP influence to include financial services provided by banks and other lenders along with surety companies and insurance companies the increased efficiency in building the nation's energy infrastructure would be greatly improved for all stakeholders.

Key Question: Does building the nation's Smart Grid involve financial services, and are the current members of SGIP impacted by the Data ACT thereby required to provide financial reporting using open standards? If so then SGIP working with XBRL will enable interoperability and compliance with the Data Act for SGIP member's private companies and public agencies.

D#	Deliverable
	Establish XBRL-CET initial taxonomy An open standards based XBRL semantic extension
D1	specifically for Construction, Energy and Transportation to enable interoperability between stakeholders.
D2	Create a prototype Construction Performance Measurement Dashboard using the XBRL -CET. On September 16th we have submitted the Dashboard to DOE App's for Energy contest – Data By Design
D3	CAISO currently publishes online an excel worksheet that provides status updates to stakeholders on all projects in queue. With CAISO support we will have their publicly posted excel spreadsheet properly tagged with XBRL-CET so that stakeholders can better utilize and/or import the information provided.
D4	There are over 3,600 utilities that implement the single FERC regulation for interconnection security, and understandably there are numerous versions of surety bond forms, each with their own interpretation of the security obligations. This unnecessarily complicates the ability of the surety industry to develop consistent underwriting policies and procedures and undermines the reliability and predictability of the surety claims handling process. We will work to develop a national standardized interconnection payment bond that can be electronically delivered to any utility consistent with FERC regulations.
D5	Solar Nexus, the developer of the Integrated Energy Project Model (IEP XML) recently received a grant from the DOE to continue its development of IEP XML to establishing data standards for the solar industry. We will work with IEP XML so that it synergizes and harmonizes with XBRL-CET taxonomy.

T#	Task Planned	Date	Responsible	D#
	Have XBRL US schedule a session at their national conference to introduce the PAP to the XBRL community.	9/16/2014	K Dixon Wright	D1
	Submit the Prototype Construction Performance Measurement Dashboard using XBRL Extension Construction Energy Transportation (XBRL-CET) to the DOE Apps for Energy Contest – Data By Design	7/16/14	K Dixon Wright	D2
	Work with CAISO to have their publicly posted excel spreadsheet properly tagged with XBRL. Provide more background for the novice.	November 2014	PAP Team	
	Have the utilities accept a national standardized interconnection payment bond that can be electronically delivered to any utility consistent with FERC regulations. Explain relationship of data act/DoE/utility	March 2015	PAP Team	
	Incorporate IEP XML (Solar) into XBRLCET	March 2015	PAP Team	

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