Managing Emissions Data in the Supply Chain
February 2021
Webinar
ANTI-TRUST REMINDER

PIDX, Inc is committed to compliance with all applicable Anti-trust laws.

Conversations must be related to PIDX’s mission, which is the development and publication of technology, process and information standards that facilitate the adoption of efficient and effective standards for electronic business in the oil and natural gas industry and its trading community.

Conversations should not include Members’ prices, terms of commercial contracts, bids or similar competitively sensitive information.
Let’s talk Scope

PIDX current standards and schemas can be used and extended to support Scope 2 and 3 efforts.

e.g. Extending PIDX Catalog Schema with Emission data

What are some of the hurdles

| Lots of industry efforts occurring – just do a google search on “energy transition” | Methodology has not been locked down |
| Focus is cross industry not just within a certain sector due to the interdependencies related to Scope 2 and Scope 3 | Resource challenges – most efforts highly dependent on volunteer resources who are stretched thin due to current industry environment |
## Current State of PIDX Emissions Transparency Data Exchange (ETDX) workgroup

<table>
<thead>
<tr>
<th>Participants include: Baker Hughes, BP, Chevron, Independent Data Services, Microsoft, OFS Portal, Sullexis</th>
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<tbody>
<tr>
<td>Developed “straw-dog” on how existing PIDX schema could be extended to support transfer of Emissions data from Supplier to Operator and vice/versa.</td>
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<td>Memo of Understanding with “Shell sponsored” Open Group/Open Footprint forum to understand emissions data architecture as an input to extend PIDX standard schemas.</td>
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<td>Reference: <a href="https://www.opengroup.org/openfootprint-forum">https://www.opengroup.org/openfootprint-forum</a></td>
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<td>Investigating other forums for mutual collaboration in developing an MVP</td>
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Benefits of Collaboration: Example of Enhancing PIDX Standards with Open Group/Open Footprint Data Model

Emissions Transparency Data Exchange – ETDX
Development of PIDX Library Data Elements

Open Footprint

PIDX Data Element
Benefits of Collaboration: Example of Enhancing PIDX Standards with Open Group/Open Footprint Data Model

PIDX Data Element

PIDX Invoice and Purchase Order Standards
Benefits of Collaboration: Example of Open Group/Open Footprint Data Model leveraging PIDX Reference Data

DOWNSTREAM CODES
PRODUCT CODES
COMPANY CODES
TERMINAL CODES
REGIONAL CODES
ADDITIVE BLEND INDICATOR CODES FOR FUELS

REGULATORY CODES
REGULATORY CODES

REFERENCE
The Petroleum Industry Data Dictionary (PIDD) has over 4,100 templates made up with a Noun:Modifier (think Bearing:Ball) and related attributes (such as inside and outside diameter).

The Petroleum Industry Glossary (PING)