Today's Speakers

- Tom Hassenboehler, Executive Director, EC- MAP
- Jason Iacobucci, President, PowerRunner
- Chris Villareal, President, Plugged In Strategies
- Robert King, President, Smart Global Meter
- Greg Poulos, Executive Director, Consumer Advocates-PJM States,

Inc.

EC-MAP

ENERGY CONSUMER MARKET ALIGNMENT PROJECT

Data, Markets, and the Role of Government

Aligning Public Policy with a Digital Energy Future

NARUC Meeting, November, 2018 Washington, D.C.

The Economist

The world's most valuable resource is no longer oil, but data

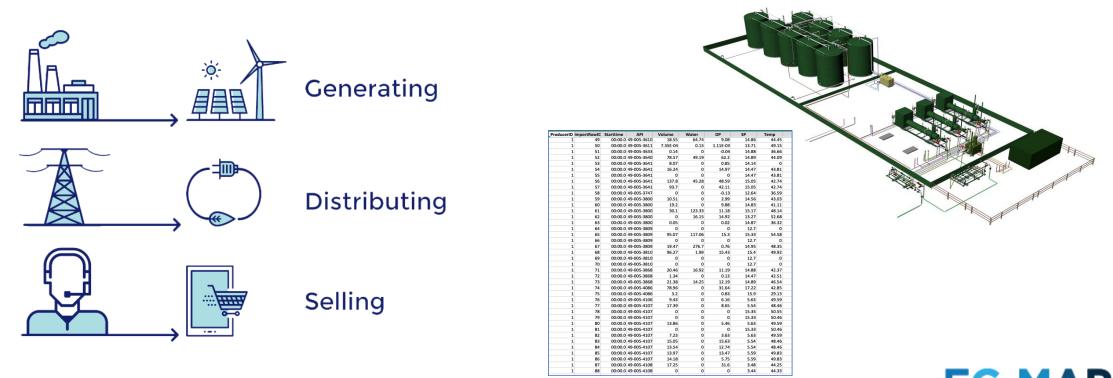


May 6, 2017

Digital Transformation of the Energy System

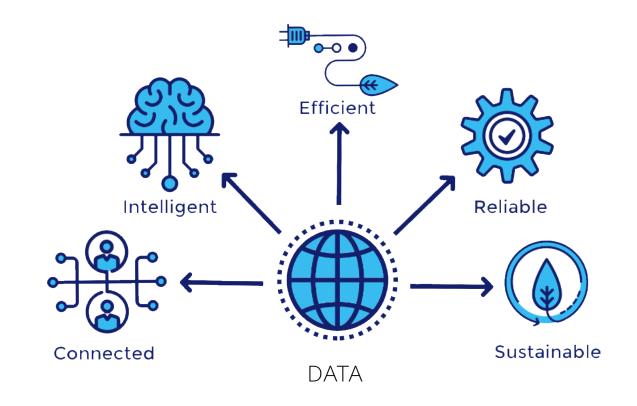
Energy data exists today, but is it being effectively used?

Data can empower efficiencies AND new markets in digital assets.



Empowering Market Innovation through Digitalization

Decentralization, Automation, and Connectivity Are Driving Data into Seamless, Usable New Formats





Digital MRV: Enabling Transparency, Traceability and Product Differentiation

11111





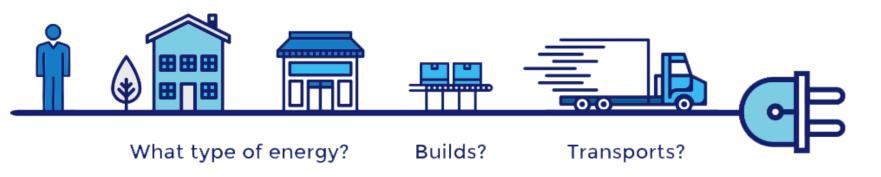
Monitor



Report



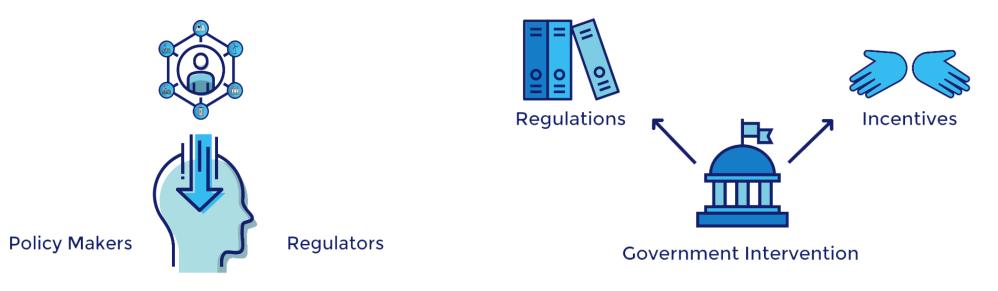




Identifying Business, Policy, and Market Inertia Barriers

Non Regulatory: How Do We Drive Data into Commodity Markets *AND* Facilitate Data-Driven Climate Disclosure/Risk Mitigation?

Regulatory: How Can We Enable More Seamless Integration to Accelerate Permitting *AND* Increase Transparency?



EC-MAP

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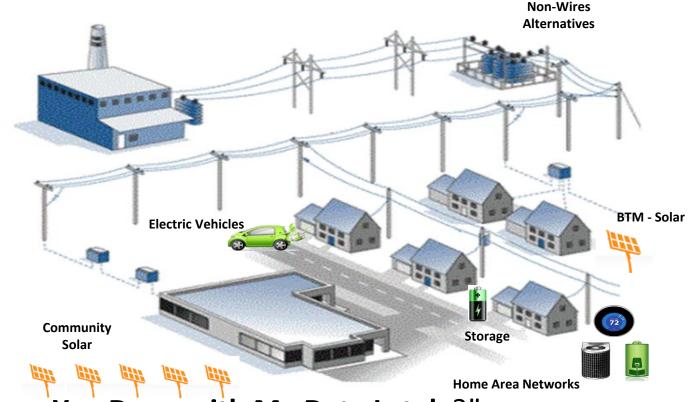
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The Value of Granular Transactional Data

The Bidirectional 21st Century Grid

Data Sources

- AMI
- CIS
- SCADA
- GIS
- Weather
- Behind-the-meter (HAN)
- and growing...





Data Supports:

- Locational Resource Planning - NWA
- DER Valuation
- DER Integration
- Demand Response
- Asset Optimization
- Equitable Rates
- and more...

"What Have You Done with My Data Lately?"

Whranylar data supports more dynamic and detailed regulatory filings

<u>SitheoinnetAwareness</u>tors and utilities and utilities with a set Utilization & Capital Optimization New Rate & Revenue Models Grid Regiliency and Eidelity with these data that with be useful? New Rate & Revenue Models

Chris Villareal

Plugged In Strategies

Robert King

Smart Global Meter

Greg Poulos

Consumer Advocates-

PJM States, Inc.

Audience Questions (submit through the app)

Panel Discussion

- Tom Hassenboehler, Executive Director, EC- MAP
- Jason Iacobucci, President, PowerRunner
- Chris Villareal, President, Plugged In Strategies
- Robert King, President, Smart Global Meter
- Greg Poulos, Executive Director, Consumer Advocates-PJM States,

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Please complete the session survey in the meeting app

A3 – What Have You Done...

Look under the "polls" button