IEEE PES BDA Working Group on Big Data Access Panel:

Best Practices in Sharing Big Data in Power Systems

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IEEE PES General Meeting 2018
OC-E144, Portland, OR, USA

08/08/2018 (1:00-3:00pm)

Analytic Methods for Power Systems (AMPS) Committee

Big Data Analytics Subcommittee (BDAS) ⬅

Computing and Analytic Methods Subcommittee (CAMS)

Distribution System Analysis Subcommittee (DSAS)

Intelligent Systems Subcommittee (ISS)

Risk, Reliability and Probability Applications Subcommittee (RRPAS)

Transient Analysis and Simulation Subcommittee (TASS)

Big Data Analytics Subcommittee (BDAS)

Working Group 1: Big Data Access ⬅

- Co-Chairs: Hamed Mohsenian-Rad (hamed@ee.ucr.edu)
- Co-Chairs: Ning Zhou (ningzhou@Binghamton.edu)
- Secretary: Payman Dehghanian (payman@gwu.edu)

Task Force 1: Big Data Webinar Series

Task Force 2: Big Data Applications

Big Data Access Working Group

Objective: Promote research, development and education in Big Data Analytics in power systems by **facilitating access to "Big Data".**

- Identify Available Data,

- Make More Data Available

- Use Cases and Examples

- Share Success Story

- Facilitate Collaboration and Communication

WG Meeting from Last Year

- **Time:** 11AM to 12PM, 07/18/2017

- **Location:**
  Sheraton Arkansas Room,
  Sheraton Grand Chicago Hotel, Chicago, IL

- **Number of Attendees:** 19

- **Discussions:**
  – Websites
  – Panels

Activities of the Past Year

- Website is Launched (More Soon)
- Panels:
  - PESGM 2018, "Big Data Analytics for Emerging Power Sensors and Internet-of-Things," 08/07/18, 10-12, OC-P245
  - PESGM 2018, "Best Practices in Sharing Big Data in Power System," 08/08/18, 1-3pm, OC-E144
- Other: Special Issues, Liaisons, Papers, etc.

→ Call for Panel Proposals for Next Year
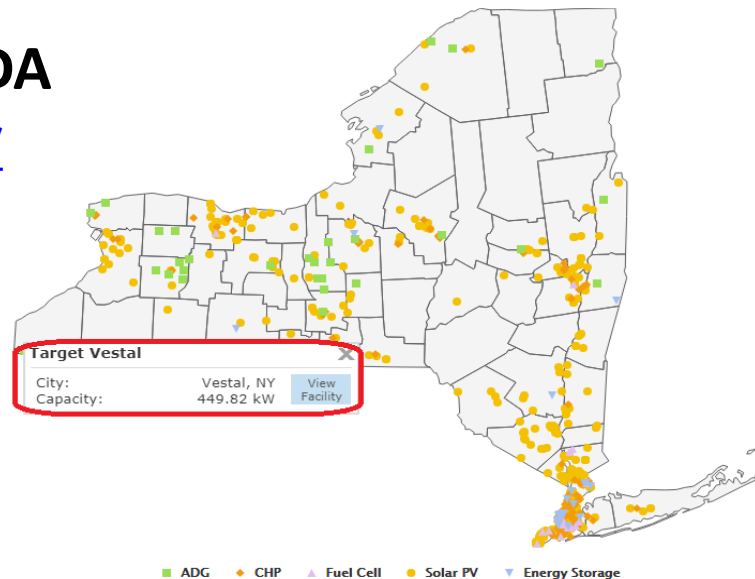
Website

- Website links
  - https://bigdata.seas.gwu.edu/

Example on DER Data

DER projects supported by NYSERDA

- Website: **https://der.nyserda.ny.gov/map/**

- **Data for over 400 DER projects in NY state**

- **Street Address**

- **Installation Capacities**

- **Downloadable hourly data**

Target Vestal
City: Vestal, NY
Capacity: 449.82 kW [View Facility]

ADG ◆ CHP ▲ Fuel Cell ● Solar PV ▼ Energy Storage

Monthly Plot | Monthly Table | Time Series

Date Range: 07/01/2018 to 07/07/2018
Time Step: HR | DAY | Go

Hourly Average Electricity

● Electric Generation
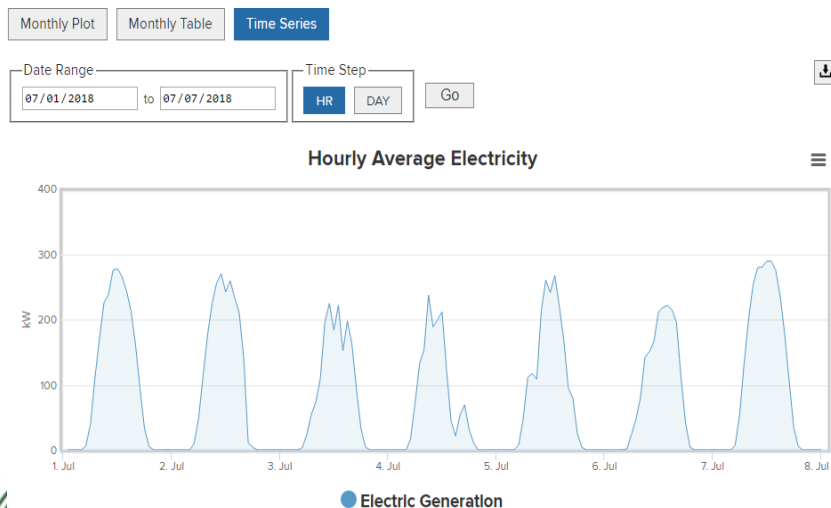
Target Vestal

3112 Vestal Pkwy E
Vestal, NY 13850

SOLAR 450 kW

Facility Details   [View Data]

Category	Mercantile (Retail Other Than Malls)
Subcategory	Retail Store
Electric Utility	New York State Electric and Gas
Gas Utility	New York State Electric and Gas
NYISO Zone	C - Central

Target Vestal   449.82 kW   [View Data] +

Example on DER Data

https://bigdata.seas.gwu.edu/

Big Data Analytics Subcommittee

> **Subcommittee Meeting:**
>
> - Today (08/08/2018), 3:00 PM-5:00 PM
>
> - OC-D138+D139

Big Data Access Working Group

> **Membership Forms**

Panel Discussion

Qing (Power) Zhao
Oncor

Xiaochuan Luo
ISO NE

Terry Nielsen
GridBright Inc.