DATA REQUIREMENTS & 3RD PARTY DEVELOPERS

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Introduction

• Anbaric background
  ◦ transmission
  ◦ microgrid

• focus on mid-stream assets

• understanding distribution system planning critical for successful projects
Data needs

- same data ISO provides on transmission system
- raw data are key
- additional helpful GIS & customer data

- 8760 (prior three years)
  - load
  - power factor
- distribution system data
  - one-line diagram (conductors, impedances...)
  - GIS of one-line
  - feeder/bank data
    - capacitor/voltage regulator settings
    - forecast
- DER mapping
- load flow models
- customer data
  - ICAP by location
  - load characterization/demographics
Three models for utility data access in US

• CA model
  ◦ open access

• NY model
  ◦ financial data service

• IL model
  ◦ registered 3rd party (market monitor for the commission - mostly technical)
California

https://www.arcgis.com/home/webmap/viewer.html?webmap=e62dfa24128b4329bfc8b27c4526f6b7

PG&E

SCE

https://www.arcgis.com/home/webmap/viewer.html?webmap=e62dfa24128b4329bfc8b27c4526f6b7
National Grid

http://ngrid.maps.arcgis.com/apps/MapSeries/index.html?appid=4c8cf75800b469abb8febc4d5dab596foldee
rid=8f8a74bf834643a04c19a68eeefb43bf

NG_System_Information_Portal_Online_Guide_v2.pdf
Best practices & challenges

• good practice
  ◦ provide data access as “distribution system version of ISO data”
  ◦ avoid oppressive data insurance policy requirements

• challenges
  ◦ managing utility customer privacy
  ◦ integrating customer sited resources into utility distribution planning models (reconciling utility and developer system modeling results)
  ◦ innovative companies & small developers have difficulty participating in single project NWAs
    - long evaluation time versus short RFP response window
    - data insurance costs