Discussion on Markets
June 30, 2016

Argonne Market Evaluation
Dave Neumayer
for
Thomas Veselka
Argonne National Laboratory
Phoenix, Arizona
Argonne Markets Evaluation

Dave Neumayer for Thomas Veselka | Principal
Argonne National Laboratory
WAPA contracted with Argonne National Laboratory, specifically Thomas Veselka, to assist WAPA with:

1. **EIM Analysis:**
   - Review and analyze multiple EIM studies to help inform WAPA on study methodologies and benefits to entities that join CAISO EIM

2. **MWTG Brattle Market Study:**
   - Scope and frame approach and methodology for CRSP and LAP
   - Interpret, analyze and understand WAPA implications of Market Study results
   - Extend Market Study results across additional hydro conditions
LAP Modeling Structure (1st Draft)

- Historical Hourly Customer Energy Requests
- Historical Hydropower Production
- Hourly Long & Short Positions
- Financial & Economic Probability Distributions
- Brattle LMP Results

Ignores feedbacks between LMPs and LAP Hydropower Productions

Discussion on Markets: Argonne Markets Evaluation
CRSP Modeling Structure (1st Draft)

- CRSS
  - GTMax-Lite AHP Mode
    - Firm SHP Contract
    - STF Offer
      - Customer Request
    - Brattle LMP Results
      - GTMax-Lite Dispatch Mode
        - Financial & Economic Probability Distributions
          - Operating Criteria

*Ignores feedbacks between LMPs and CRSS hydrology*

Discussion on Markets: Argonne Markets Evaluation