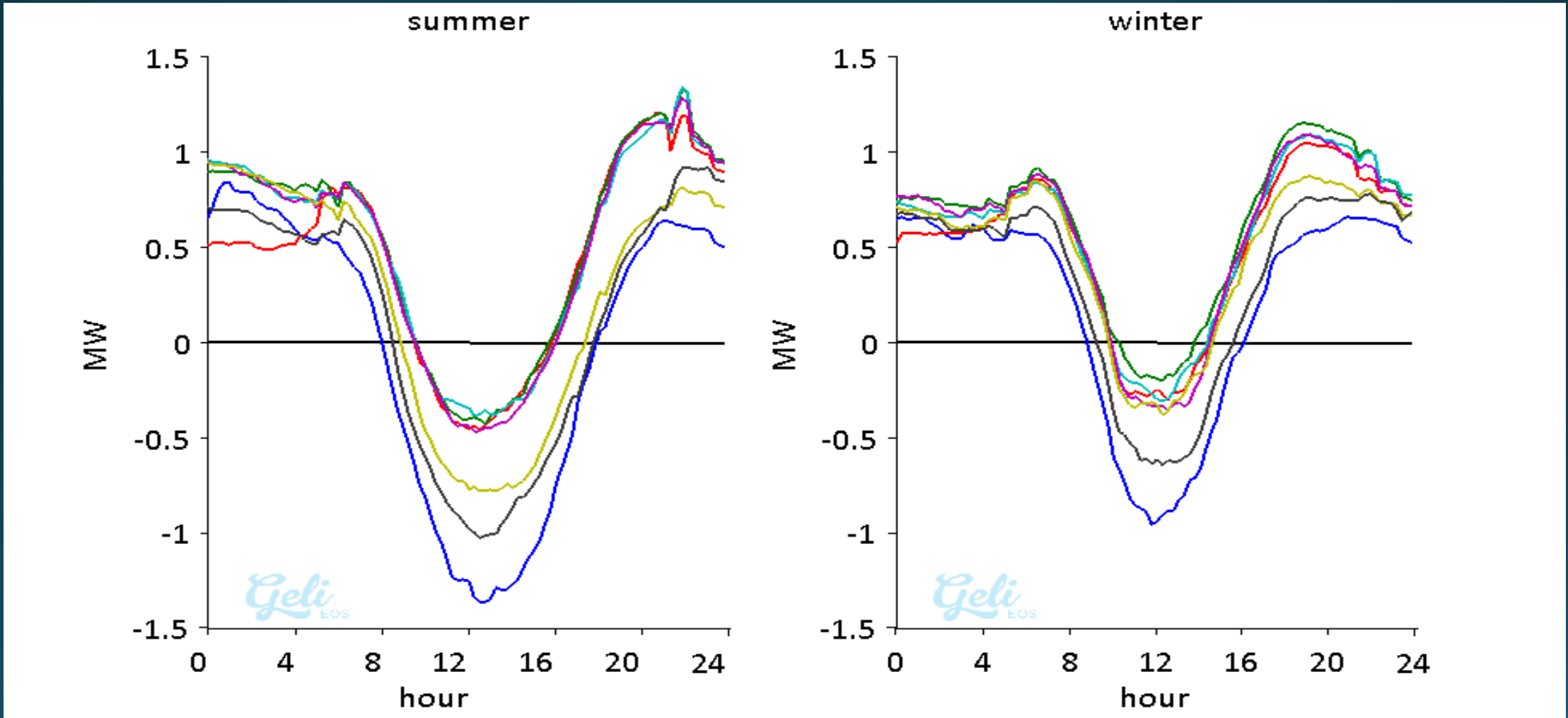
Las Positas Microgrid

EPIC Grant PON-14-301

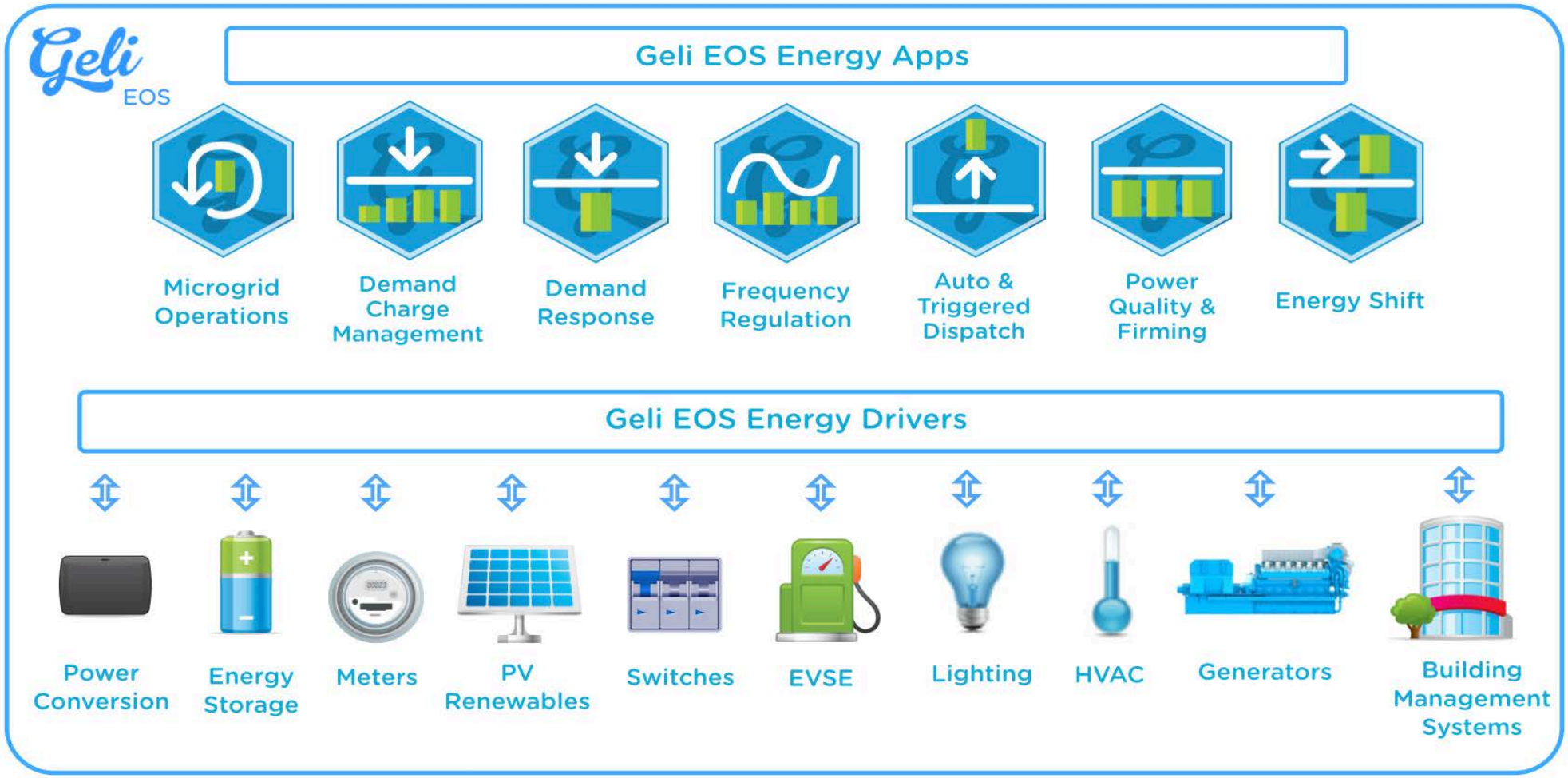
EPIC Symposium December 3, 2015

Las Positas Microgrid

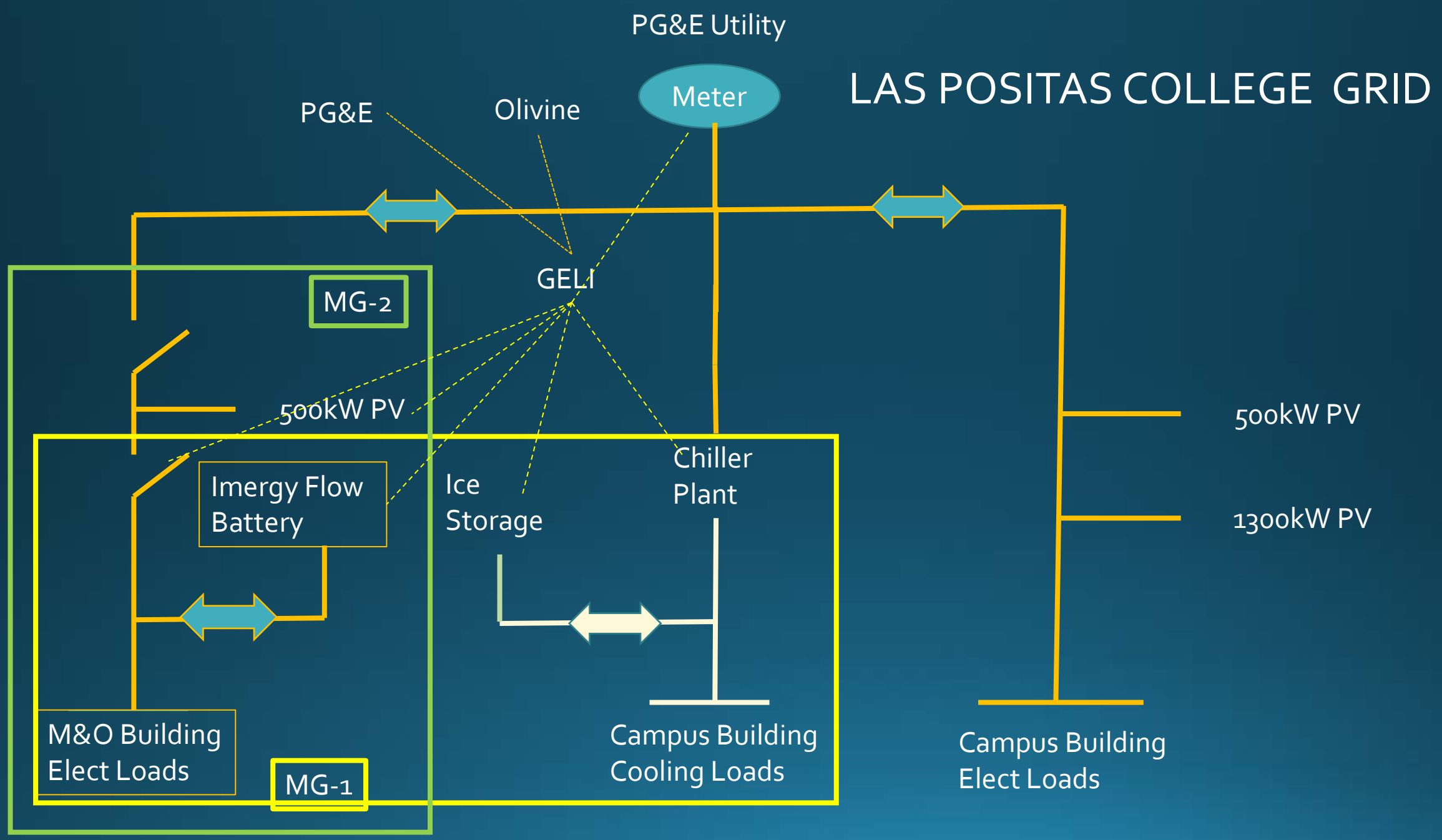
Las Positas 7 Day PG&E Power Profiles



Las Positas Microgrid Concept



LAS POSITAS COLLEGE GRID



Issues

- Siting
  - Battery location, foundations
  - Location on Campus Grid
- Network Security
  - External Access Protocol
- DR Participation with Solar Net Metering
  - Utility or Market
- Imbalance PV Solar to M&O Load
  - 500kW PV with 120kW Building Load and 1 MWH Battery
- Balance Demand Management, Demand Response, Services to Grid, College Operations

Las Positas Microgrid- Future Topics

- Demand Response Participation
- DR Cash Flow Predictability
- Other Services to Grid
  - Local Circuit,
  - Regional
- AB 2514 Energy Storage Procurement Plan
- Changing Peak Demand Charge Periods
- On-Site Generation Greater Than 1 MW

Las Positas Microgrid- Project Team

- Chabot-Las Positas Community College District
- Las Positas College- Host
- Parsons Brinckerhoff- Project Management
- Growing Energy Labs (GELI)- Microgrid Control
- Imergy- Vanadium Flow Battery
- Olivine- DR + Services to the Grid
- PG&E- Services to the Grid
- Contractors
  - PDE Total Energy Solutions- Electrical
  - Southland Mechanical- Mechanical
  - Syserco- Building Automation

Las Positas Microgrid-Contacts

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