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Energy Data and Capabilities

Jason Harville, Director
Enterprise Data and Analytics

Agenda

- Update on current status
- Near term efforts and new capabilities
- Security and privacy

Status Update

Data Visualizations	Data Submission Portal	Interval Meter Data
• 5 new • 5 in review • Many in development	• 5 apps in development • SB-2 support	• 5/6 utilities up to date • 5 years of data

Staffing Up

Significantly increasing workload capacity

- New data engineering unit in ITSB
- Project management and data visualization positions
- Contractor support

Filling 6 positions total, with potentially 2 more in support of SB-2

Data Warehouse v2.0

Data Warehouse Redesign

- New tooling and contractor support
- Performance optimizations → cost savings
- Our first data mart
- Complete by end of Summer

Widespread staff access across multiple datasets

Data Catalog

Commission-wide inventory of data assets

- All of our most important data
- Foundation for prioritizing new data pipelines
- Targeting end of year for completion

The resulting catalog will enable

- Precise data lineage
- Quick identification of data quality issues
- Searchable interface for staff to find and understand our data

Security and Privacy

Physical security met via certified cloud partners and best practices for access and permissions.

Privacy concerns require collaboration

- Data sharing and privacy workshop last January
- Contractor developing framework for privacy and data access standards
- A foundation to build on with external experts and public input

Summary

- 5 years of interval meter data
- Scaling up data onboarding
- Improving capabilities to work with and access data
- Intergovernmental data sharing at scale
- Rapidly building interactive visualizations for the public
- Exploring partnership with CPUC for visualizing statewide energy and demographic data
- Building out data and dashboards to support reliability
- Mandates for hourly demand forecasting and hourly analysis of energy efficiency measures
- Developing standards to protect privacy while getting data where it is needed