



PG&E's Drought Response

Emergency Operations, Hydroelectric Generation,
Agricultural Customers

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PG&E's Drought Response

EMERGENCY OPERATIONS

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Gas and Electric Infrastructure

- 22,000 employees
- 4 Regions, 19 Divisions
- 70,000 square miles
- 141,215 circuit miles of electric distribution lines
- 18,616 circuit miles of interconnected transmission lines
- 42,141 miles of natural gas distribution pipelines
- 6,438 miles of transportation pipelines
- 5.1 million electric customer accounts
- 4.3 million natural gas customer accounts



EMERGENCY OPERATIONS

Power Generation

PG&E's Hydroelectric System:

- 16 river basins stretching nearly 500 miles from Redding in the north to Bakersfield in the south
- 98 reservoirs
- 67 powerhouses
- Generating capacity of 3,896 megawatts
- Powering nearly 4 million homes

Diablo Canyon Power Plant

- 9,000 acres on the Pacific Coast
- Operated safely since 1985
- Units are licensed until 2024 and 2025
- 18,000 gigawatt-hours of clean and reliable electricity annually
- 10% of California's energy portfolio and 20% of the power that PG&E provides throughout its service area

Fossil Fuel Generation

- Humboldt Bay- 163 MW
- Gateway Generation Station- 580 MW
- Colusa Generation Station- 657 MW



EMERGENCY OPERATIONS

Drought Impacts



Fire Risk

- Forecast for a very busy fire season
- Increased damage to the infrastructure and impact to customers
- Increased support for wildland fire suppression with incident management teams, vegetation management, pole pre-treatment, field resources and mobile command vehicle

Information Used

- Currently we use twitter feeds and blog entries on fire ignition
- PG&E GIS provides facility incident maps to support situational awareness and responder safety

What do we need?

- Access to the Cal Fire and USFS CAD (computer aided dispatch) for real time, accurate awareness of wildland fire ignitions
- Access to the Cal Fire FTP (file transfer protocol) to get fire perimeter information for ongoing fires to provide updated maps timely.

PG&E's Drought Response

HYDRO GENERATION

HYDROELECTRIC GENERATION

Assets

- 67 powerhouses
- 26 FERC licenses
- 3,896 MW of capacity
- 98 reservoirs
- > 350 miles of conveyance



2014 DROUGHT – PINECREST LAKE, JANUARY



HYDROELECTRIC GENERATION

Compliance and Water Management during Drought:

- Less water demands more management attention
- 15+ variances and extensions so far this year
- Alignment of interests

Needs

- Continued partnership and sharing of snow survey data.

PG&E's Drought Response

AG CUSTOMERS

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Drought/Energy Efficiency Action Team Kick Off – March 2014

Creation and simplification of measures that save water/energy:

- Adding energy efficiency programs and incentives for Ag pumping, irrigation, early motor replacement
- Market availability in Q2 and extending to Q3/Q4.
- Continue scoping/assessment of additional Emerging Technologies

Identification/Targeting of opportunities via Audits:

- Leverage various audit tools to promote water/energy savings

Greater Marketing:

- Develop sector based marketing materials for Water Agencies, Agriculture, Industrial, and Food Processing industries for targeted promotions

Additional Incentives:

- Identified opportunities to provide additional financial incentives that deliver water/energy savings

Educational Outreach:

- Communicate drought messages and solutions for partners (vendors, trade professionals) attending PG&E energy efficiency training programs.

QUESTIONS
