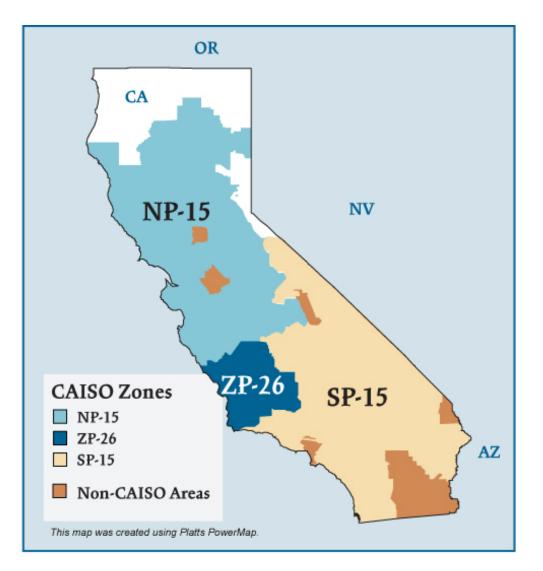
California (CAISO) Electric Regions



Overview

Geography

States covered: California (most of) and northern Baja California (Mexico)

Reliability region: California-Mexico Power Area (CAMX) sub-region of the Western Electric Coordinating Council (WECC)

Balancing authorities: California ISO (CAISO), Sacramento Municipal Utility District (SMUD), Turlock Irrigation District (TID), Los Angeles Department of Water and Power (LADWP), and Comision Federal de Electricidad (CFE).

Approximately 80% of demand in the CAMX subregion is within the area of the CAISO balancing authority. The portion of the CAMX area within Mexico is comparatively small. The remaining 20% of California's load is managed primarily by municipal utilities and irrigation districts such as the Los Angeles Department of Water and Power, the Sacramento Municipal Utility District, and the Imperial Irrigation District.

CAISO zones: NP-15, ZP-26, SP-15

RTO/ISO

California ISO (CAISO) (established 1998) operates the region's power grid and wholesale electric markets:

- Real-time imbalance energy,
- Ancillary services, and
- Transmission usage.

CAISO 2006 State of the Markets Report

Market Monitor: Keith Casey - Director, Department of Market Monitoring

Generation/Supply

Marginal fuel type: natural gas

Generating capacity (summer 2006): 56,347 MW

Capacity reserve (summer 2006): 6,077 MW

Reserve margin (summer 2006): 12%

Demand

All time peak demand: 50,270 MW (set July 24, 2006)

In July 2006, CAISO experienced an extreme heat wave that resulted in new records for peak loads and for temperatures across the state.

Peak demand growth: 10.7% (2006-2005)

| | 2004 | 2005 | 2006 |
|-------------------------|--------|--------|--------|
| Summer Peak Demand (MW) | 45,597 | 45,431 | 50,270 |

Source: Derived from CAISO data.

Load pockets: Humbolt, North Bay, Greater San Francisco Bay, Sierra, Stockton, Los Angeles Basin, and San Diego areas.

Prices (CAISO only)

Annual Average Price (ISO Real-time)

NP-15:

2004: \$38.52/MWh

2005: \$54.25/MWh

2006: \$43.38/MWh

SP-15:

2004: \$39.64/MWh

2005: \$55.52/MWh

2006: \$46.84/MWh

Prices increased in 2005 as a result of disturbances to the natural gas market. Prices declined in 2006 as natural gas storage levels remained above historical ranges throughout the injection season (April through October).

Interconnections/Seams

Load serving entities within CAISO rely on imports for approximately one-fourth of their annual energy needs.

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Focal Points

Price Differences: California ISO real-time prices differed from bilateral spot markets in 2006. Last year, average onpeak prices for CAISO real-time imbalance energy (\$48/MWh) were lower than bilateral spot prices (\$57/MWh). A recent CAISO study found that overscheduling of power deliveries required the majority of real time dispatches to reduce output. These decremental dispatches resulted in the lower real time prices. The new Market Redesign and Technology Upgrade (MRTU), to be implemented in 2008, is to contain mechanisms that are intended to improve dayahead and real time price convergence.

CAISO Bid Cap: On January 14, 2006, CAISO raised the bid cap for its real-time imbalance energy market from \$250/MWh to \$400/MWh. The Commission approved this proposal in response to CAISO concerns that having the bid cap remain at \$250/MWh might result in reduced bid volumes with gas prices on the rise as was occurring in the fall of 2005. (Both the previous and revised bid caps were "soft," where a soft bid cap permits market participants to submit bids above the cap subject to cost justification, but such bids are not allowed to set the market clearing price.)

Focal Points

Heat Wave Loads: In late July 2006, load records were set in regions covered by the California Independent System Operator (CAISO), Los Angeles Department of Water and Power (LADWP), and Sacramento Municipal Utility District (SMUD). A severe heat wave resulted in 100+ degree temperatures over most of the state, with some areas topping 110 degrees. California's utilities, the CAISO, and state officials urged consumers to conserve. CAISO declared a Stage 2 Emergency (calling for conservation) on July 24 when operating reserves dropped below 5 percent, which allowed CAISO to direct participating utilities to curtail nonfirm load and customers on interruptible programs.

Conservation efforts, curtailed load, and distribution system outages kept peak load under the 52,000 MW that CAISO anticipated that date, with the peak actually reaching 50,270 MW on July 24. No curtailment of nonfirm load was needed.

Power prices in the bilateral markets, where the majority of incremental power needs are met in California, rose to more than \$350/MWh. CAISO real-time prices rose to nearly \$400/MWh (which is the current soft bid cap in the real-time imbalance energy market) intermittently throughout the days of the almost two-week-long heat wave. High levels of day-ahead and hour-ahead scheduling occurred in CAISO as utilities and other load serving entities implemented the state's new resource adequacy requirements, which were set in June. Volumes in CAISO's real-time energy market were relatively moderate over the critical peak hours.

Supply and Demand Statistics for CAISO

| Supply Demand Statistics | | | |
|-----------------------------------|---------|---------|---------|
| | 2004 | 2005 | 2006 |
| Summer Generating Capacity MW (1) | 54,038 | 55,694 | 56,347 |
| Summer Peak Demand MW | 45,597 | 45,431 | 50,270 |
| Summer Reserves MW | 8,441 | 10,263 | 6,077 |
| Summer Reserve Margin: | 19% | 23% | 12% |
| Annual Load (GWh): | 239,788 | 236,449 | 240,259 |
| Annual Net Generation GWh | 178,304 | 179,188 | 177,757 |

Footnote (1): Generation capacity includes dynamically scheduled generation, and excludes any derates of the resources or imports.

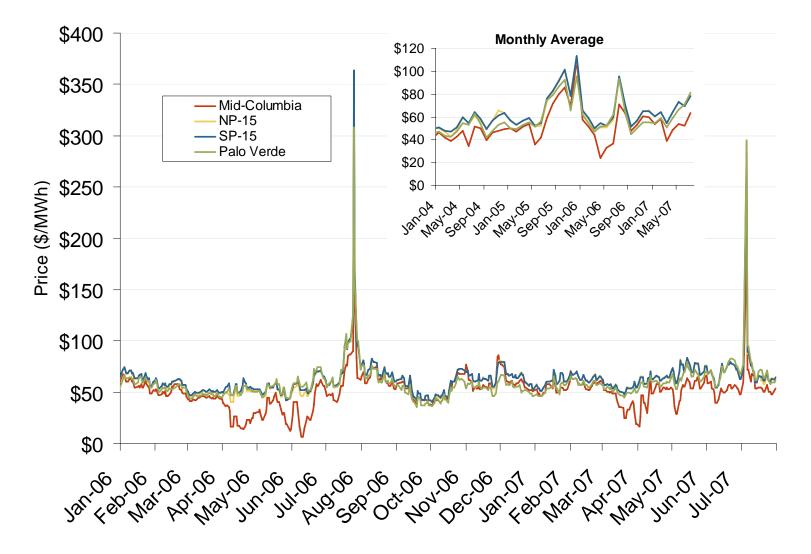
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Yearly Average of Bilateral DA On-Peak and ISO RT On-Peak Prices

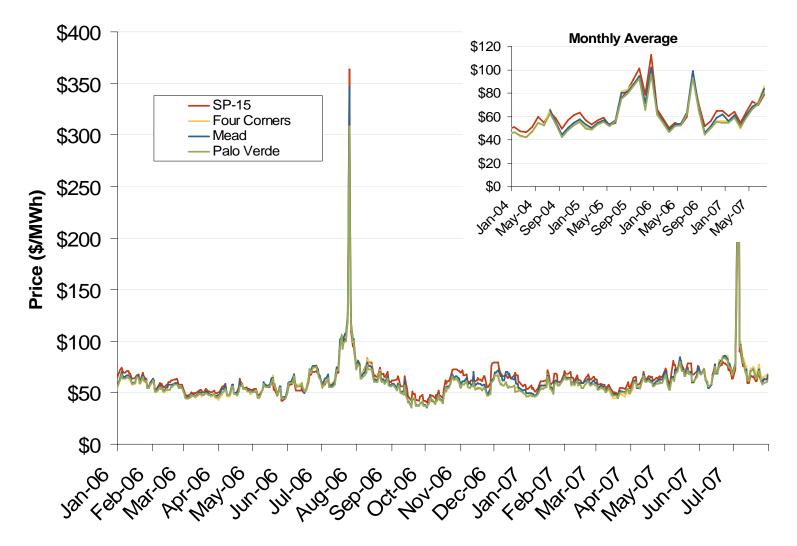
Annual Average Day Ahead Prices (\$/MWh) 2005 2006 5 Years NP-15 Bilateral \$72.54 \$61.09 \$54.07 NP-15 CAISO Real-time \$54.25 \$43.38 \$39.49 SP-15 Bilateral \$73.14 \$61.94 \$55.16 SP-15 CAISO Real-time \$55.52 \$46.84 \$40.93

Western Daily Bilateral Day-Ahead On-Peak Prices



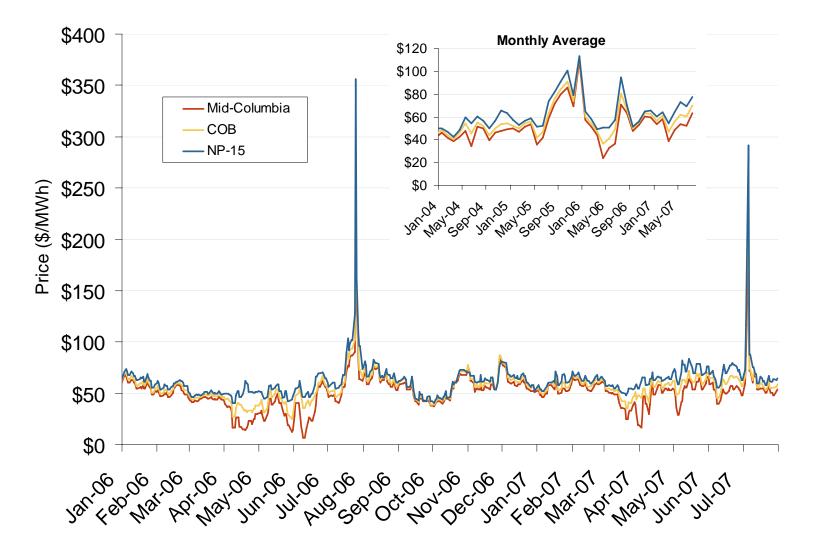
Source: Derived from Platts data.

Southwestern Daily Bilateral Day-Ahead On-Peak Prices



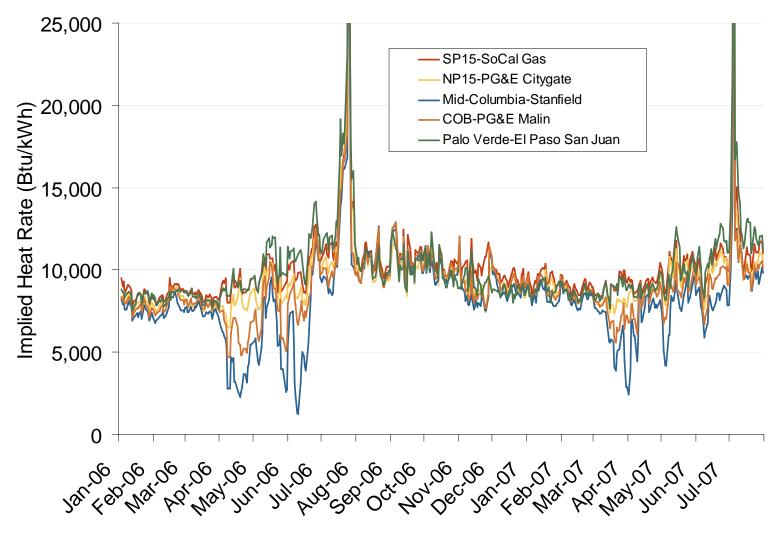
Source: Derived from Platts data.

Northwestern Daily Bilateral Day-Ahead On-Peak Prices



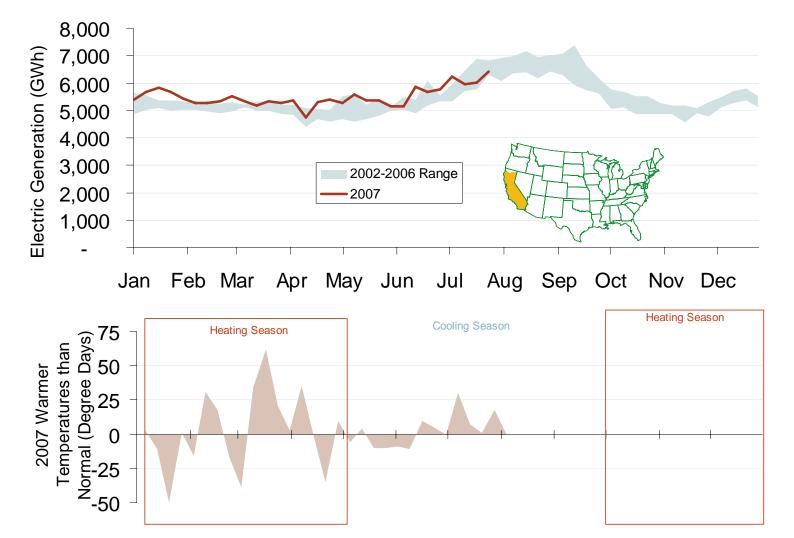
Source: Derived from *Platts* data.

Implied Heat Rates at Western Trading Points



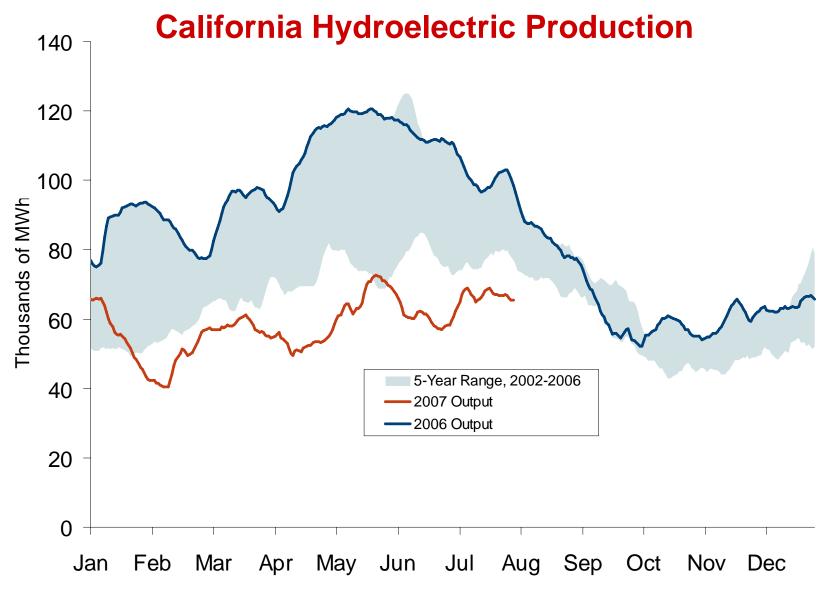
Source: Derived from *Platts* data

Weekly Electric Generation Output and Temperatures California



Source: Derived from EEI and NOAA data.

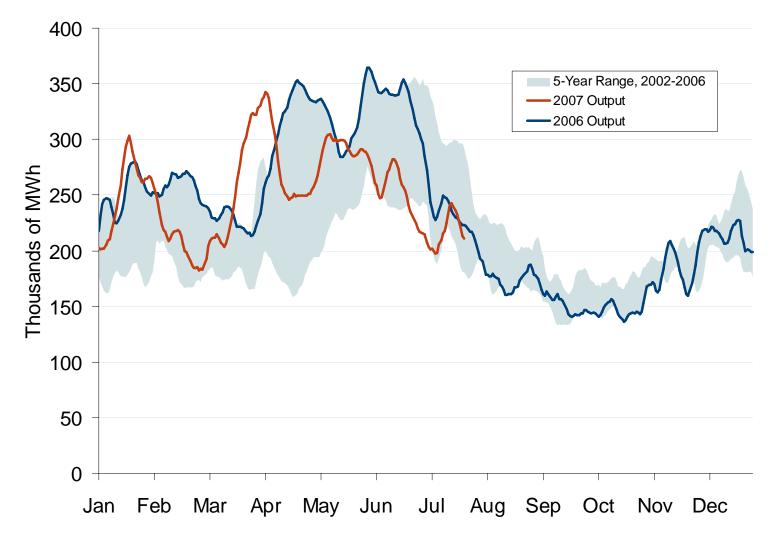
Updated August 3, 2007



Source: Derived from *CAISO* data. Trend lines are 7-day moving averages.

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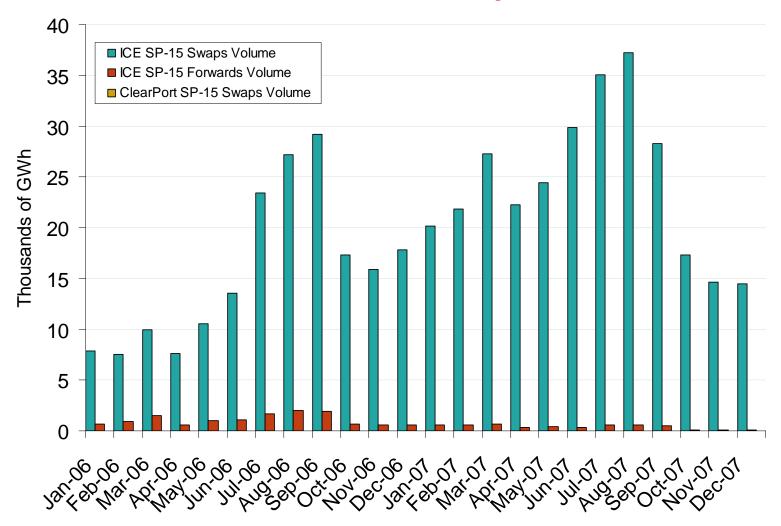
Pacific Northwest Hydroelectric Production



Source: Derived from *USACE* data. Trend lines are 7-day moving averages.

Updated August 3, 2007

SP-15 Forward and Swap Volumes



Source: Derived from *ICE* and *Nymex ClearPort*. ICE on-peak forward (physical) and swap (financial) volumes are for SP-15 and include monthly, dual monthly, quarterly, and calendar year contracts traded for each month. Nymex ClearPort on-peak swap (financial) volumes are for the SP-15 Hub traded by month.