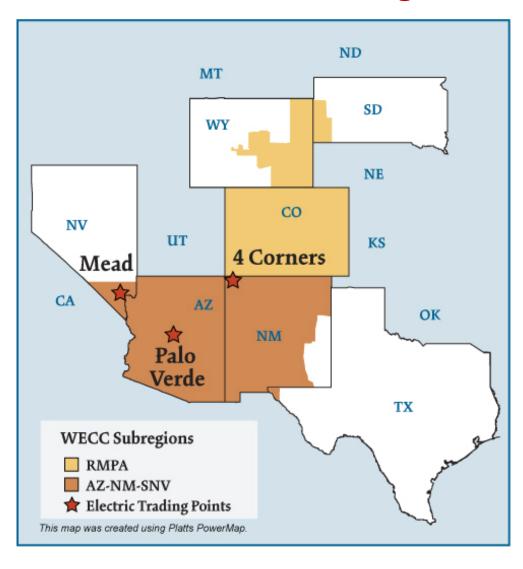
Southwest Electric Regions



Southwest Electric Market: Overview and Focal Points

Federal Energy Regulatory Commission • Market Oversight @ FERC.gov

Overview

Geography

States covered: All or most of Arizona, New Mexico, Colorado and parts of Nevada, Wyoming and South Dakota.

Reliability region: Rocky Mountain Power Area (RMPA) and Arizona/New Mexico/Southern Nevada Power Area (AZNMSNV) sub-regions of the Western Electric Coordinating Council (WECC)

Balancing authorities: See list on page 5.

Hubs: Four Corners, Mead, Palo Verde

RTO/ISO

None

Generation/Supply

Marginal fuel type: Natural gas

Generating capacity: 45,459 MW (2005)

Capacity reserve: 8,940 MW (2005)

Reserve margin: 24% (2005)

The region has a surplus of generating capacity, with much of the generation in Arizona and the Four Corners area. Transmission capacity to the California market is often fully utilized in the high load periods of the summer. In 2005, the regional reserve margin decreased from 2004 as demand growth outpaced supply additions.

Southwest Electric Market: Overview and Focal Points

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Demand

Peak demand: 36,519 MW (2005)

Peak demand growth: 3.5% (2004–2005)

Prices

Annual Average of Daily Bilateral Day Ahead On-Peak Prices

Platts "Palo Verde" Index

2004: \$50.09/MWh

2005: \$67.39/MWh

2006: \$57.59/MWh

2007: \$61.74/MWh

Interconnections/Seams

Generation suppliers export excess power to the rest of the West and particularly to California.

Balancing Authorities in the Southwest Electric Market

| WECC Subregion and Balancing Authority | NERC Acronym | | |
|-------------------------------------------------------|--------------|--|--|
| AZNMSNV | | | |
| Arizona Public Service Company | AZPS | | |
| DECA, LLC - Arlington Valley | DEAA | | |
| El Paso Electric Company | EPE | | |
| Gila River Maricopa Arizona | GRMA | | |
| Harquahala L.L.C. | HGMA | | |
| Imperial Irrigation District | IID | | |
| Nevada Power Company | NEVP | | |
| Public Service Company of New Mexico | PNM | | |
| Salt River Project | SRP | | |
| Tucson Electric Power Company | TEPC | | |
| Western Area Power Administration - Lower Colorado | WALC | | |
| RMPA | | | |
| Public Service Company of Colorado | PSCO | | |
| Western Area Power Administration - Colorado-Missouri | WACM | | |

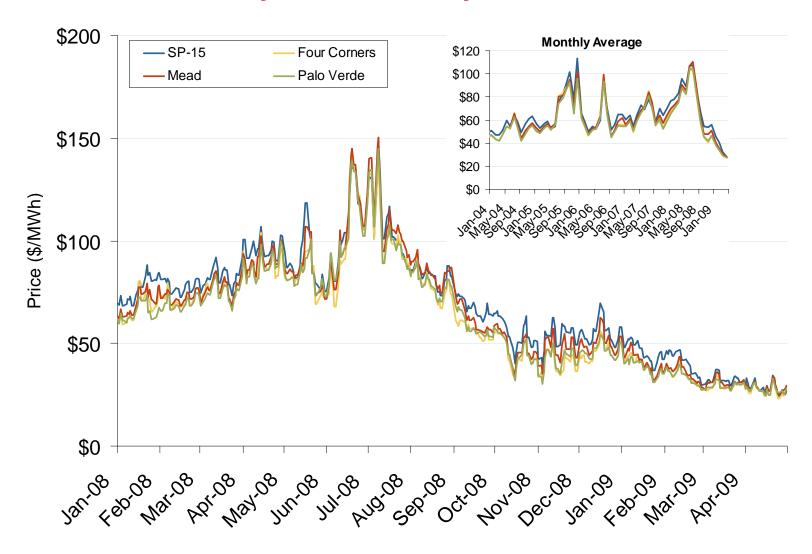
Supply and Demand Statistics for the Southwest

| Supply Demand Statistics | | | |
|-------------------------------|---------|---------|---------|
| | 2003 | 2004 | 2005 |
| Summer Generating Capacity MW | 41,646 | 45,588 | 45,459 |
| Summer Peak Demand MW | 35,815 | 35,280 | 36,519 |
| Summer Reserves MW | 5,831 | 10,308 | 8,940 |
| Summer Reserve Margin: | 16% | 29% | 24% |
| Annual Load (GWh): | 177,401 | 180,154 | 185,730 |
| Annual Net Generation GWh | NA | NA | NA |

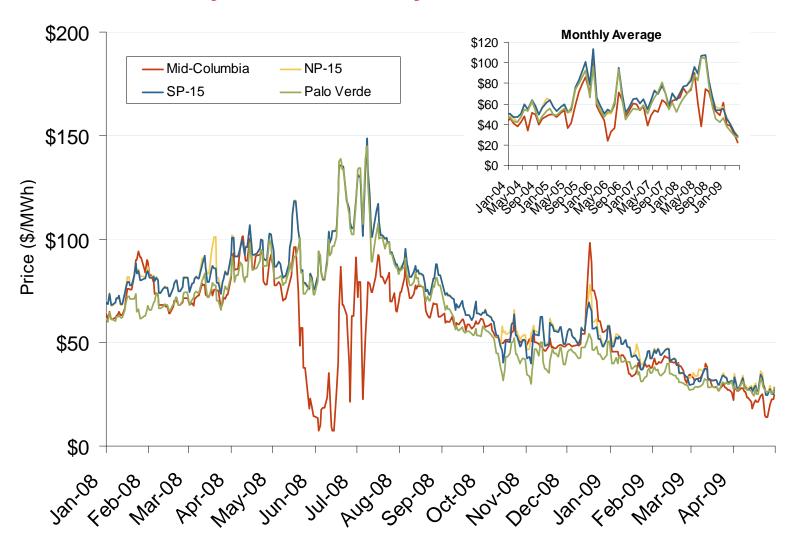
Annual Average Bilateral Prices

| Annual Average Day Ahead On Peak Prices | | | | | | |
|-----------------------------------------|---------|---------|---------|---------|---------|------------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 5-Year Avg |
| Four Corners | \$50.48 | \$69.39 | \$58.52 | \$63.21 | \$71.84 | \$62.69 |
| Palo Verde | \$50.06 | \$67.39 | \$57.59 | \$61.74 | \$71.87 | \$61.73 |
| Mead | \$52.34 | \$70.17 | \$59.93 | \$64.49 | \$75.63 | \$64.72 |

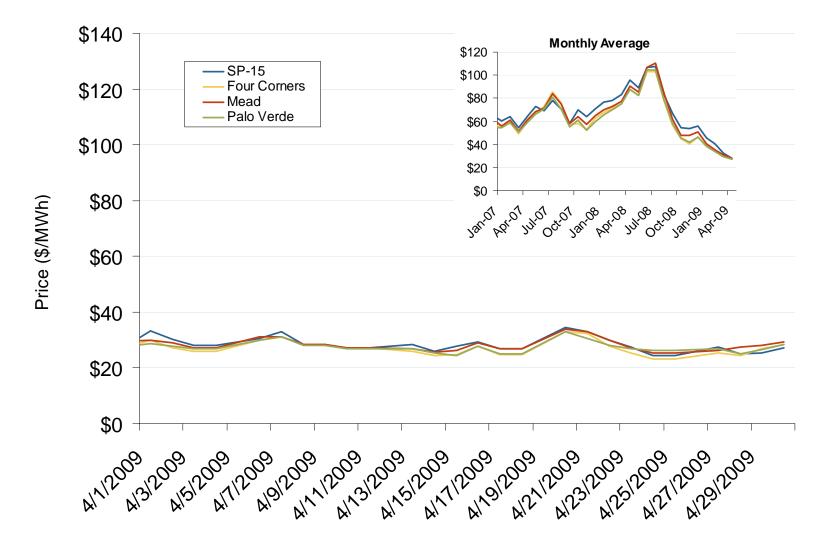
Southwestern Daily Bilateral Day-Ahead On-Peak Prices



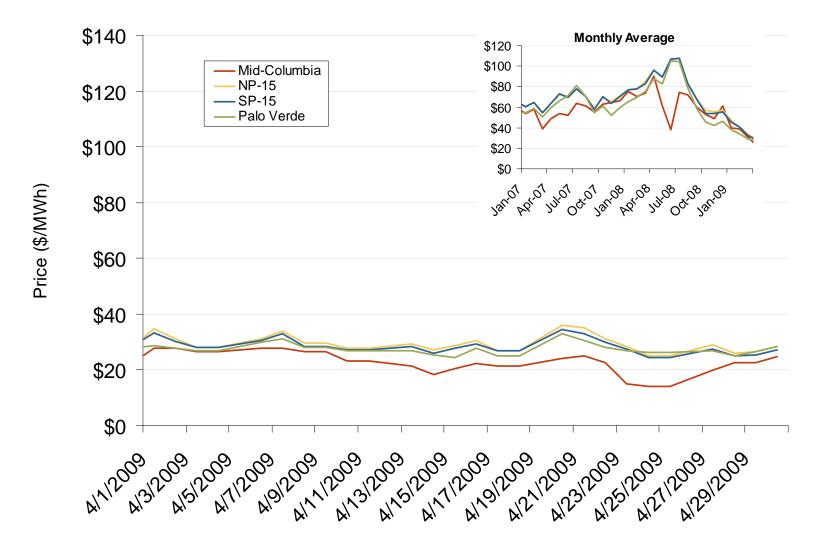
Western Daily Bilateral Day-Ahead On-Peak Prices



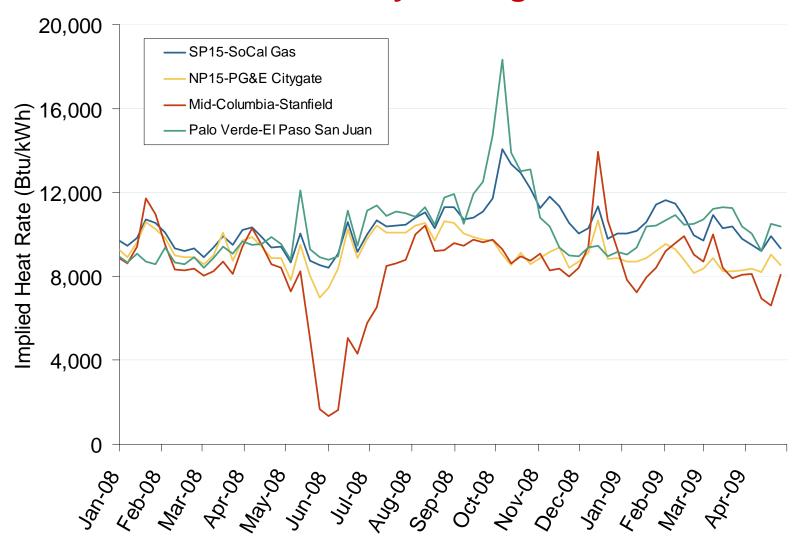
Southwestern Daily Bilateral Day-Ahead On-Peak Prices

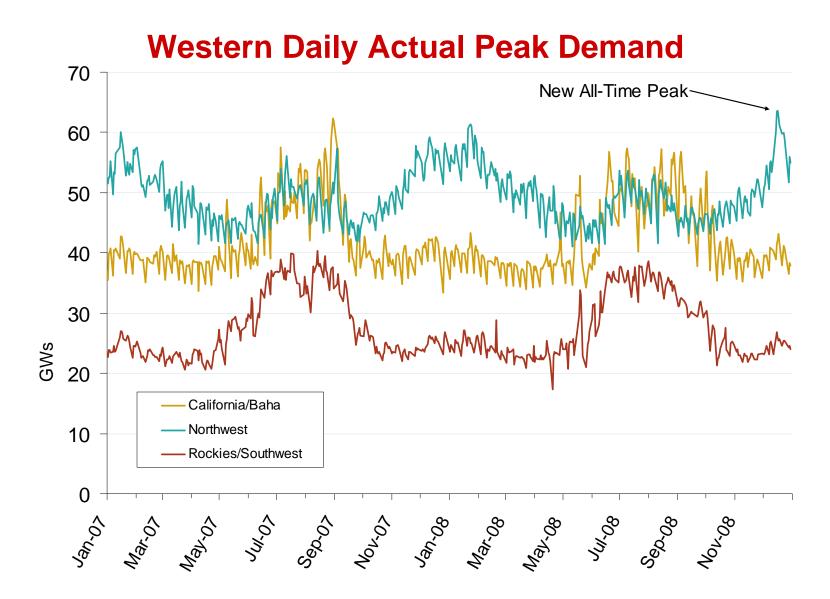


Western Daily Bilateral Day-Ahead On-Peak Prices



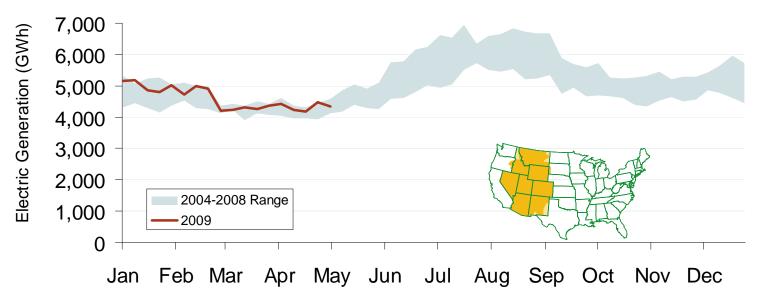
Implied Heat Rates at Western Trading Points Weekly Average

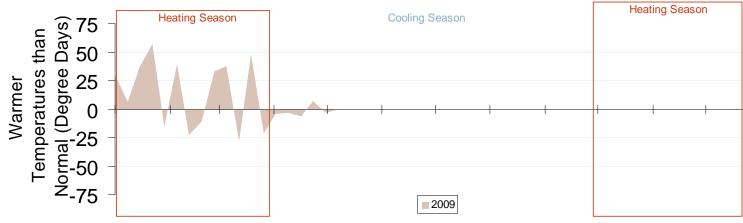




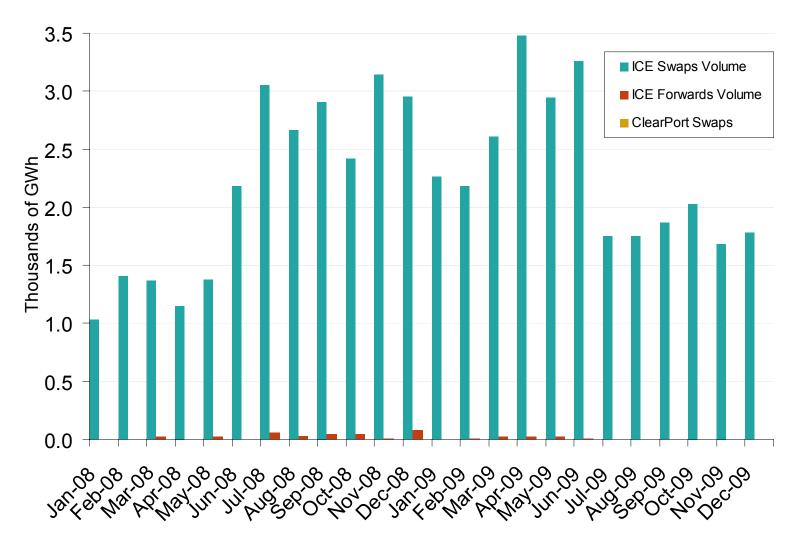
Source: Derived from WECC Daily Report data available at http://wecc.biz. Data shown is generally Sunday through Thursday due to limitations of daily reports.

Weekly Electric Generation Output and Temperatures Rocky Mountains Region



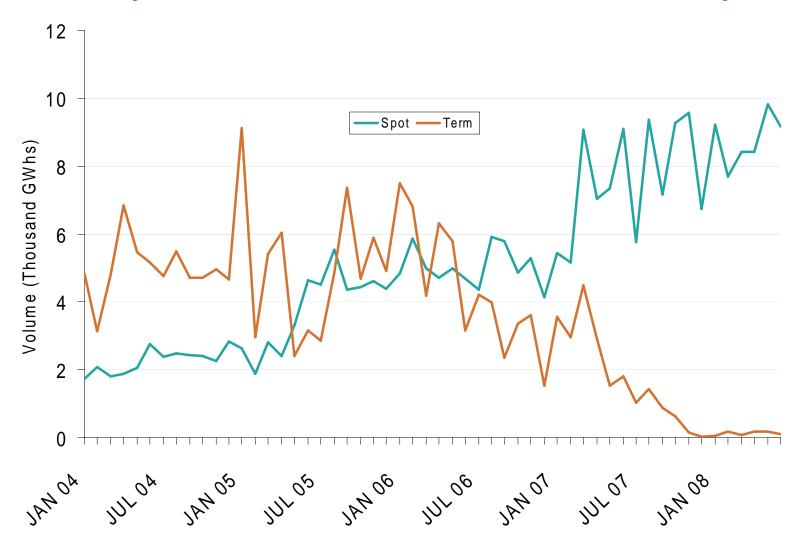


Palo Verde Forward and Swap Volumes



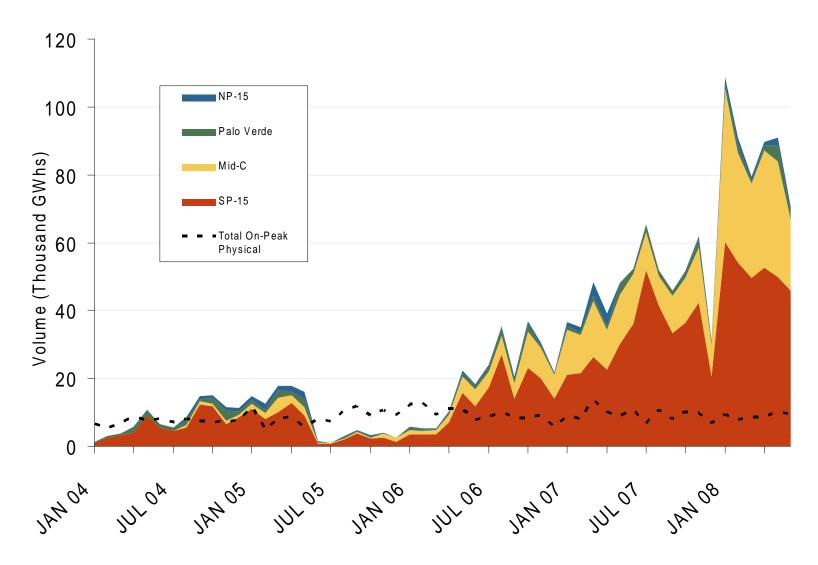
Source: Derived from *ICE* and *Nymex ClearPort* data. ICE on-peak forward (physical) and swap (financial) volumes are for Palo Verde and include monthly, dual monthly, quarterly, and calendar year contracts traded for each month. Nymex ClearPort on-peak swap (financial) volumes are for Palo Verde and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

Western Physical Power Volumes Traded on ICE by Month



Source: Derived from ICE data.

Western Financial On-Peak Products Traded on ICE by Hub



Source: Derived from ICE data.