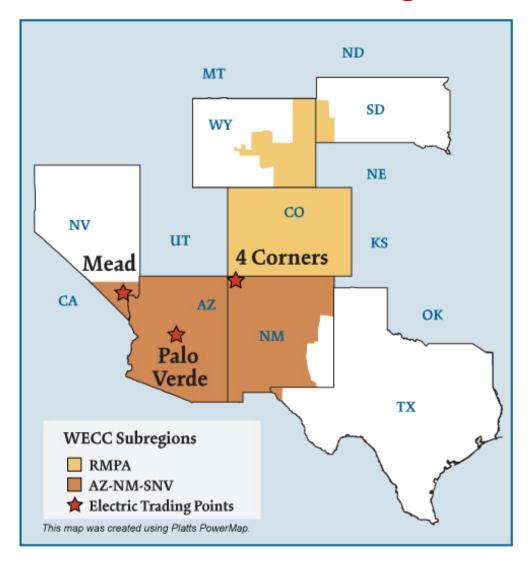
# **Southwest Electric Regions**



#### **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.

#### **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.

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# Balancing Authorities in the Southwest Electric Market

WECC Subregion and Balancing Authority	<b>NERC Acronym</b>		
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		

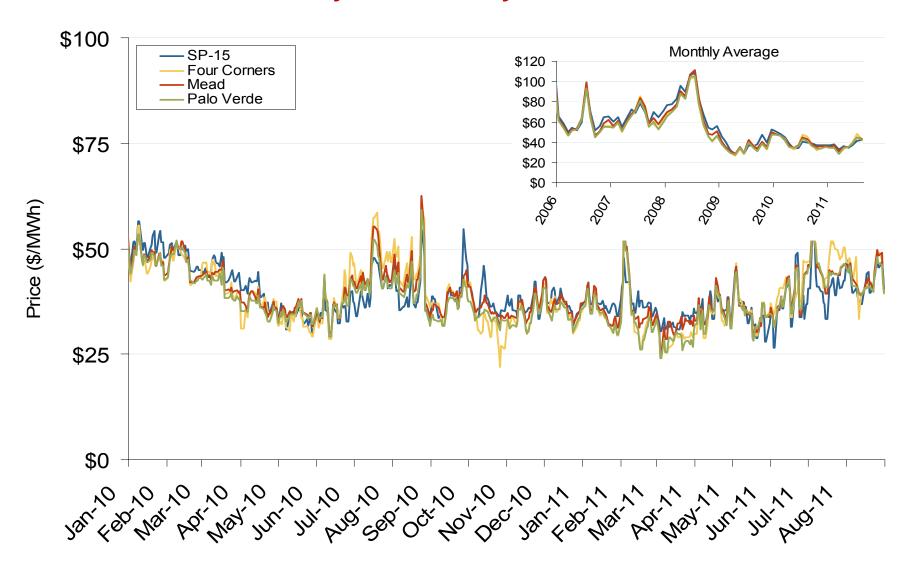
Source: NERC (www.tsin.com)

September 2011

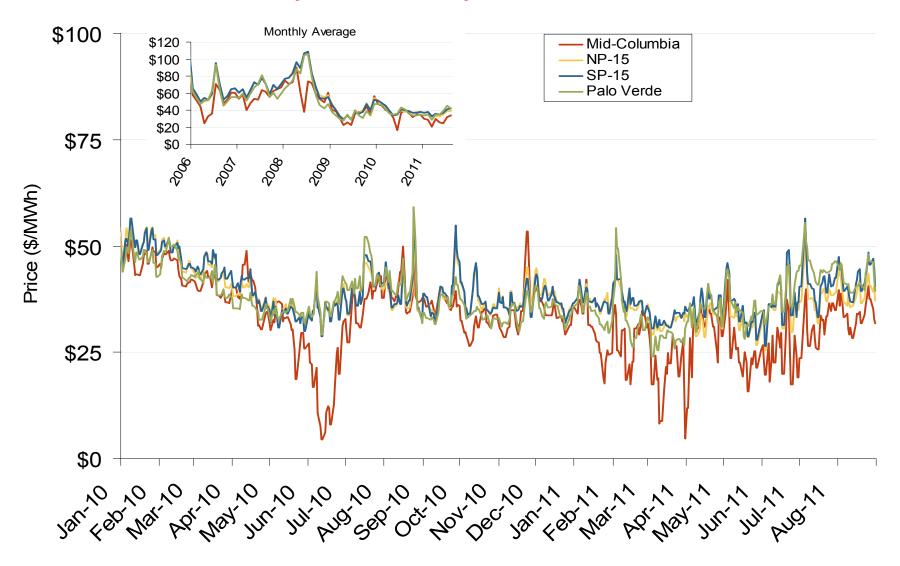
# **Southwest Annual Average Bilateral Prices**

<b>Annual Average Day Ahead On Peak Prices</b>						
	2006	2007	2008	2009	2010	5-Year Avg
Four Corners	\$58.52	\$63.21	\$71.84	\$35.38	\$39.68	\$53.74
Palo Verde	\$57.59	\$61.74	\$71.87	\$34.77	\$38.76	\$52.96
Mead	\$59.93	\$64.49	\$75.63	\$36.58	\$40.11	\$55.36

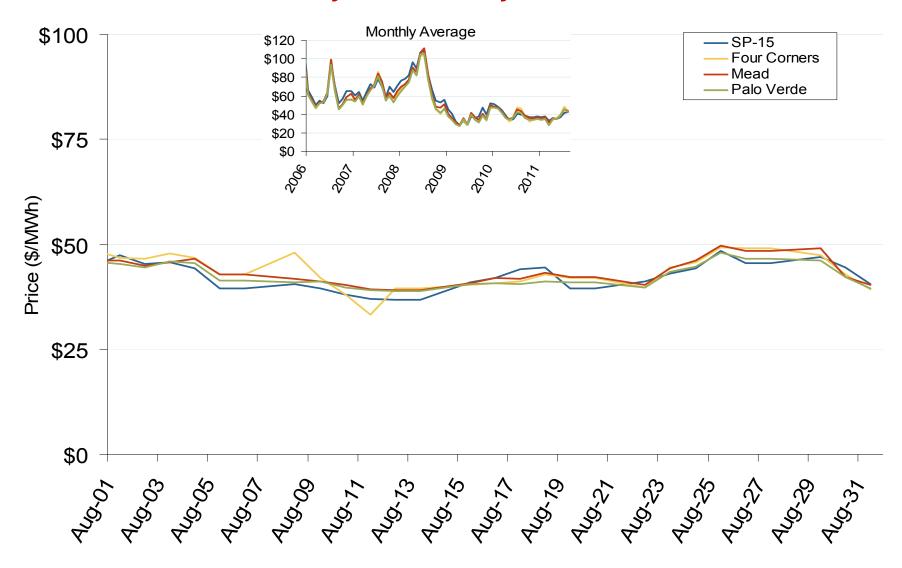
## Southwestern Daily Bilateral Day-Ahead On-Peak Prices



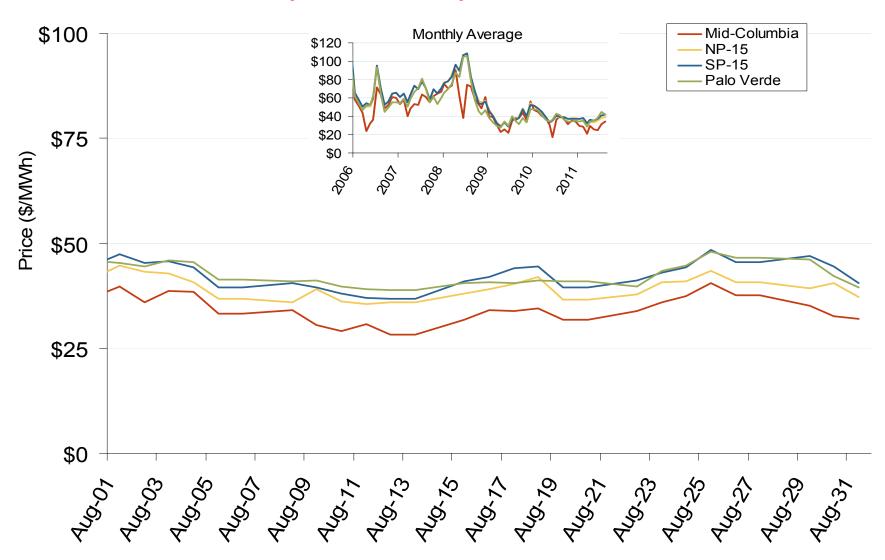
# Western Daily Bilateral Day-Ahead On-Peak Prices



## Southwestern Daily Bilateral Day-Ahead On-Peak Prices

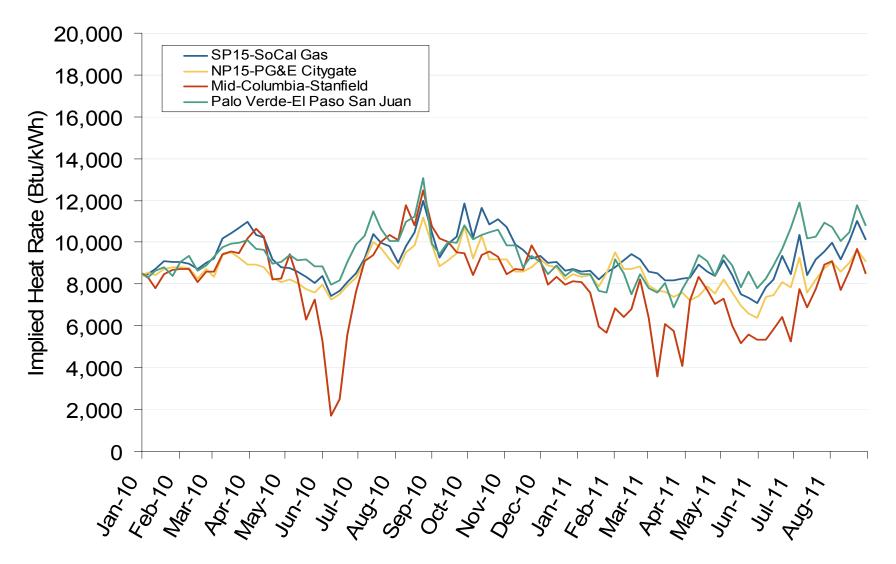


# Western Daily Bilateral Day-Ahead On-Peak Prices

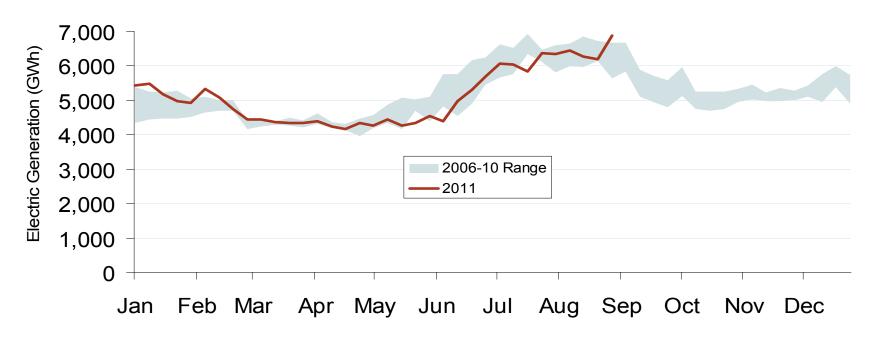


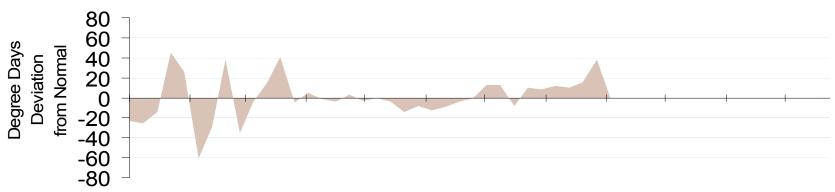
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# Implied Heat Rates at Western Trading Points - Weekly Avgs.

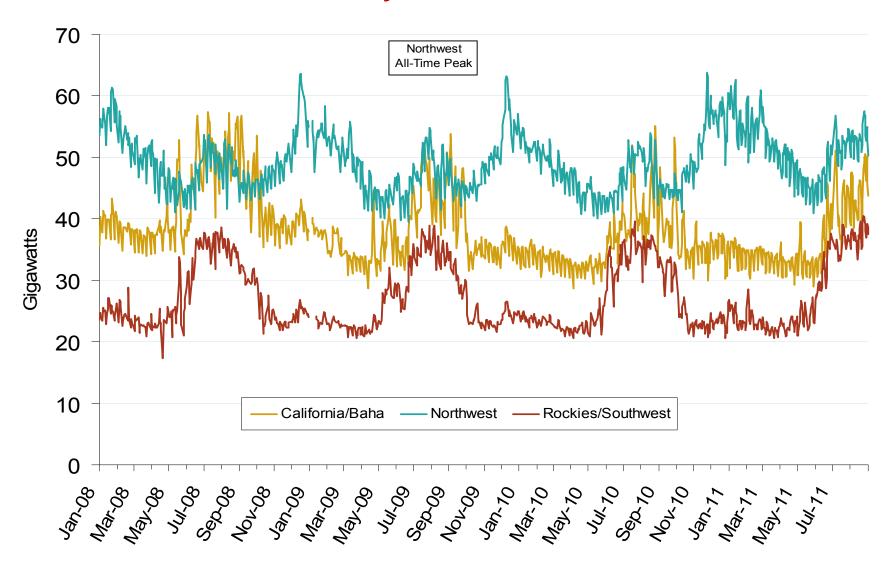


## **Weekly Power Generation & Temps. - Rocky Mountains**

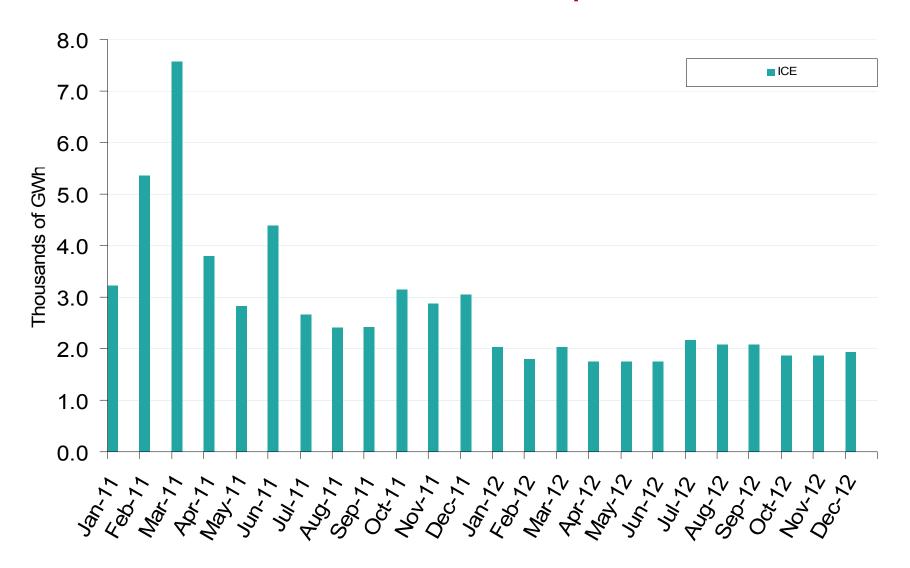




## **Western Daily Actual Peak Demand**



## **Palo Verde Forward and Swap Volumes**



Note: *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