LADWP Planning Area Forecast

Staff Presentation

June 30, 2005

CED 2006 Forecast Differences

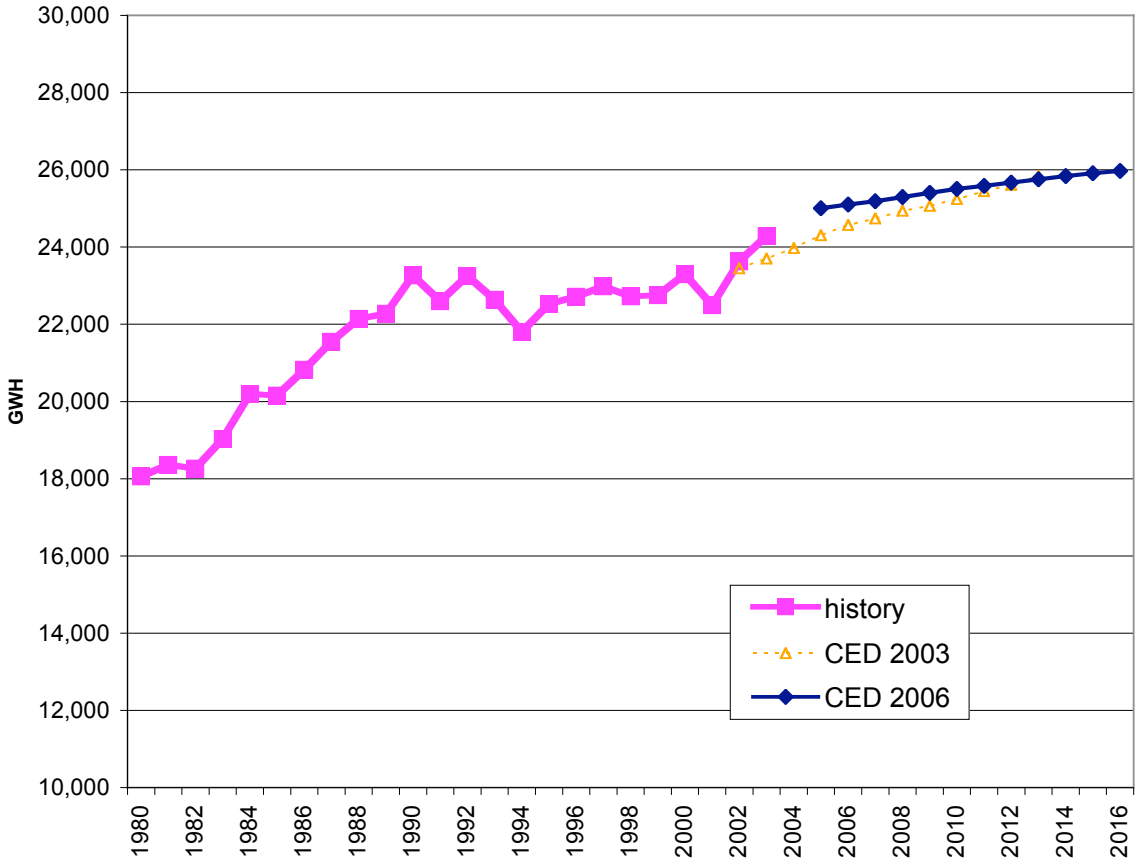
- Historic consumption as reported by LADWP changed
- CED 2006 forecasts grow at a slightly lower rates due to lower econ/demo growth and standards impacts
- Per capita forecasts are constant
- Load factor is constant

LADWP Planning Area Forecast Results

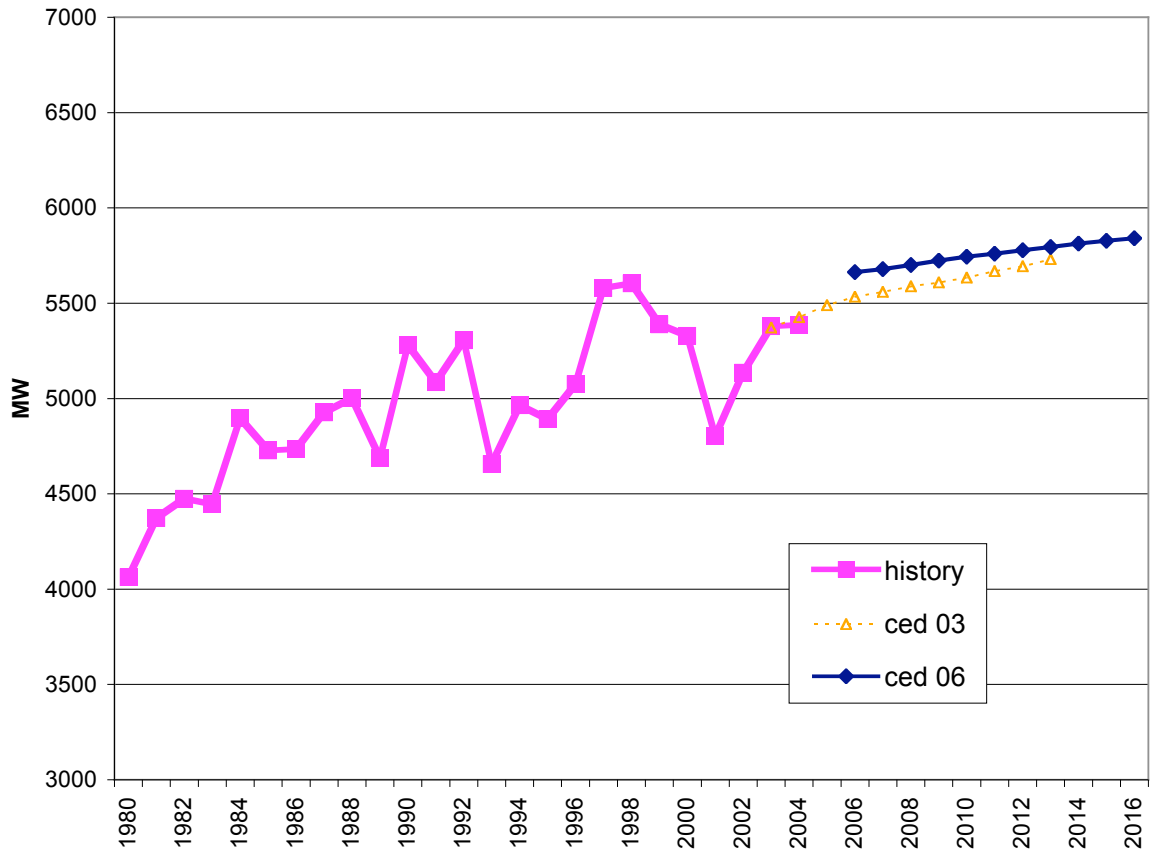
	Consumption (GWH)				Peak (MW)		
	CED 2003	CED 2006	%difference		CED 2003	CED 2006	%difference
1990	21,971	23,263	5.88%		4,803	5,281	9.95%
2000	23,803	23,296	-2.13%		5,344	5,330	-0.27%
2003	23,703	24,285	2.46%		5,372	5,378	0.12%
2008	24,935	25,296	1.45%		5,588	5,701	2.03%
2013	25,839	25,752	-0.34%		5,731	5,795	1.11%
2016	n/a	25,969			n/a	5,841	
Annual Average Growth Rates							
1990-2000	0.80%	0.01%			1.07%	0.09%	
2000-2003	-0.14%	1.40%			0.17%	0.30%	
2003-2008	1.02%	0.82%			0.79%	1.17%	
2003-2013	0.87%	0.59%			0.65%	0.75%	

Historic values are shaded

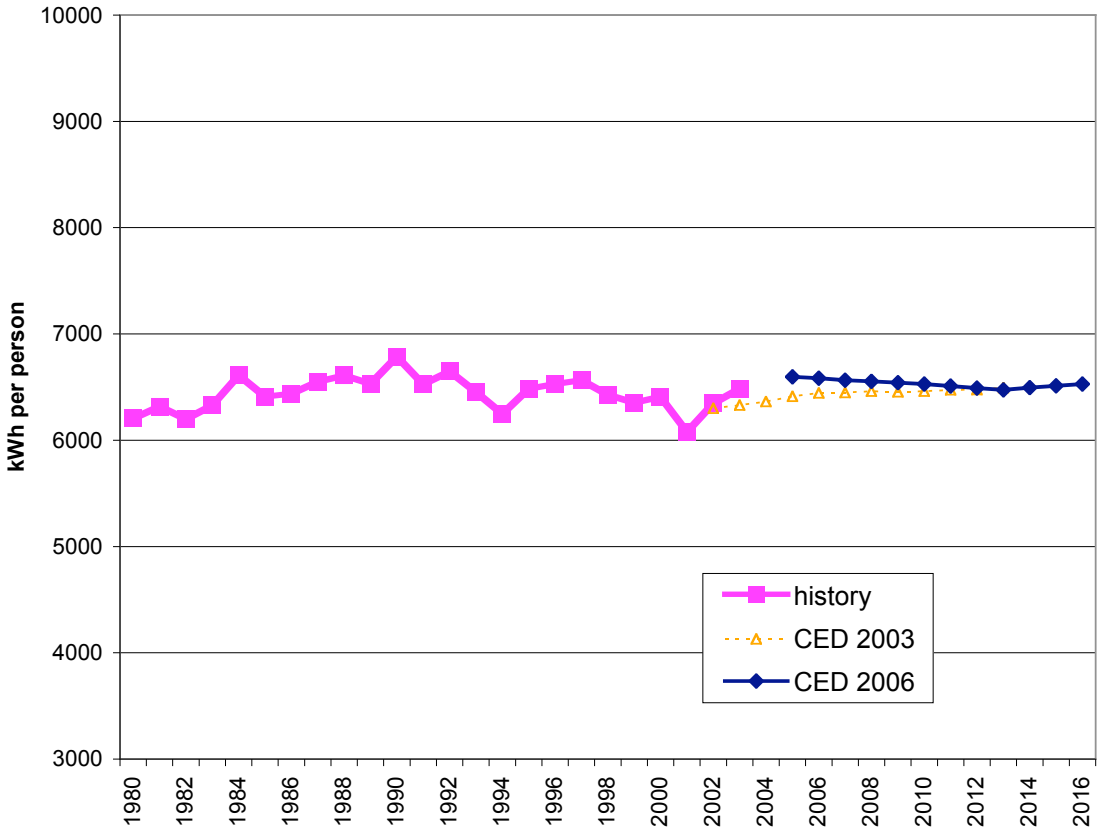
LADWP Planning Area Forecast



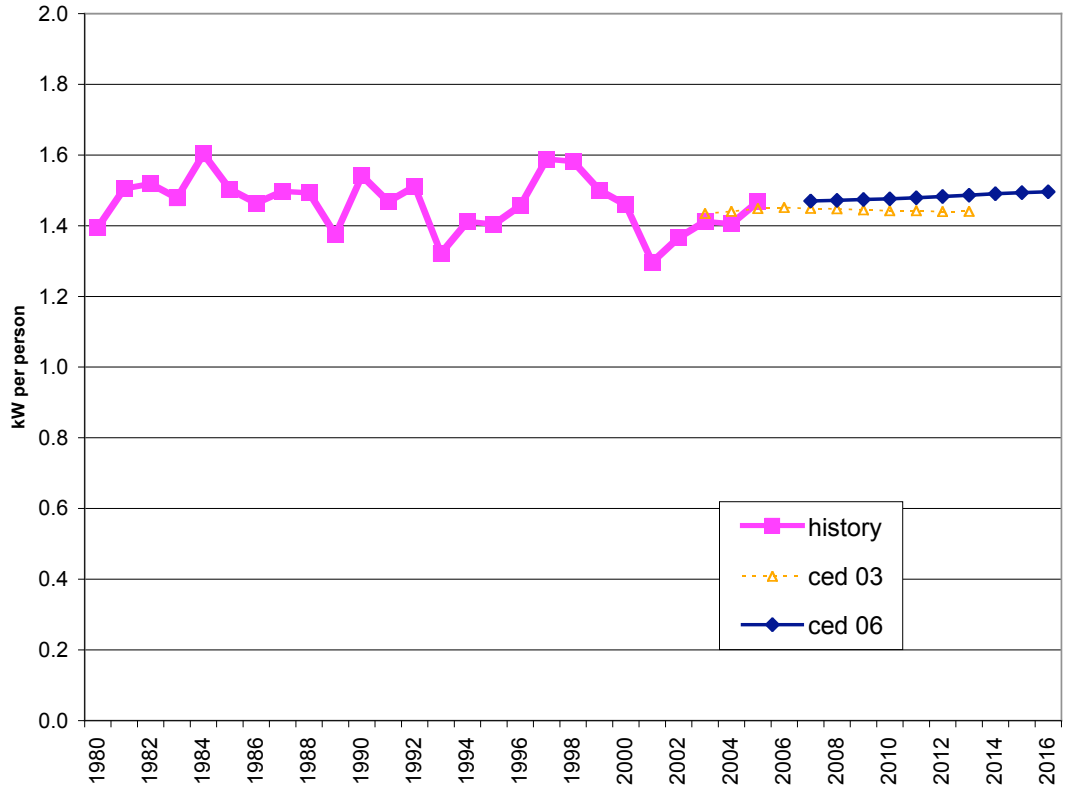
LADWP Planning Area Peak Forecast



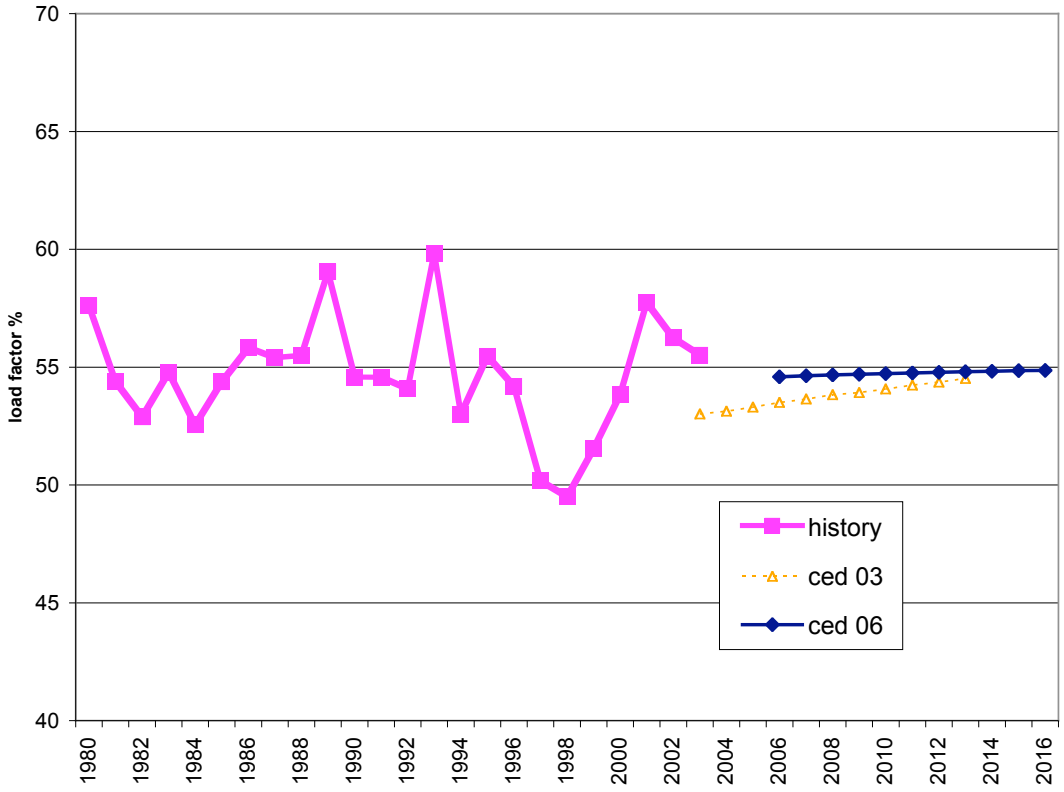
LADWP per Capita Consumption



LADWP per Capita Peak



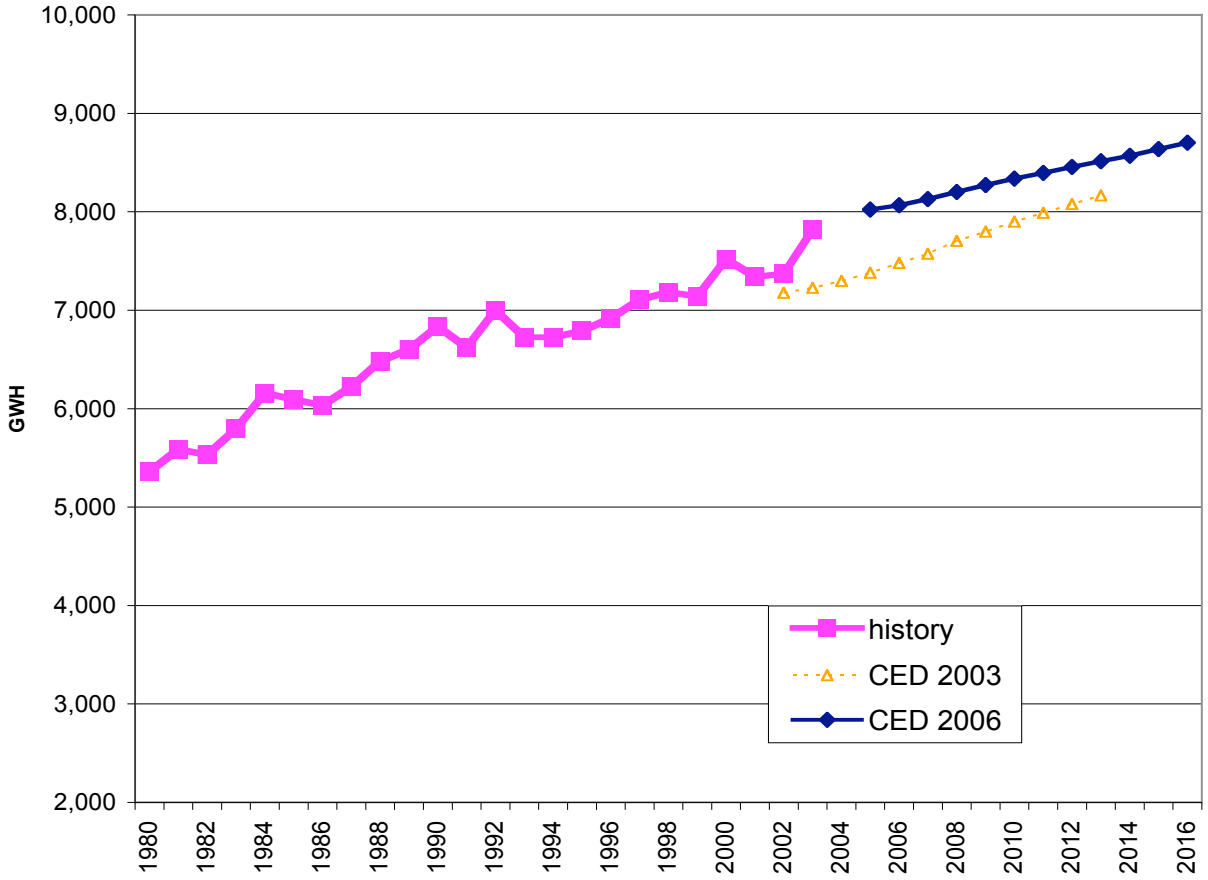
LADWP Planning Area Load Factor



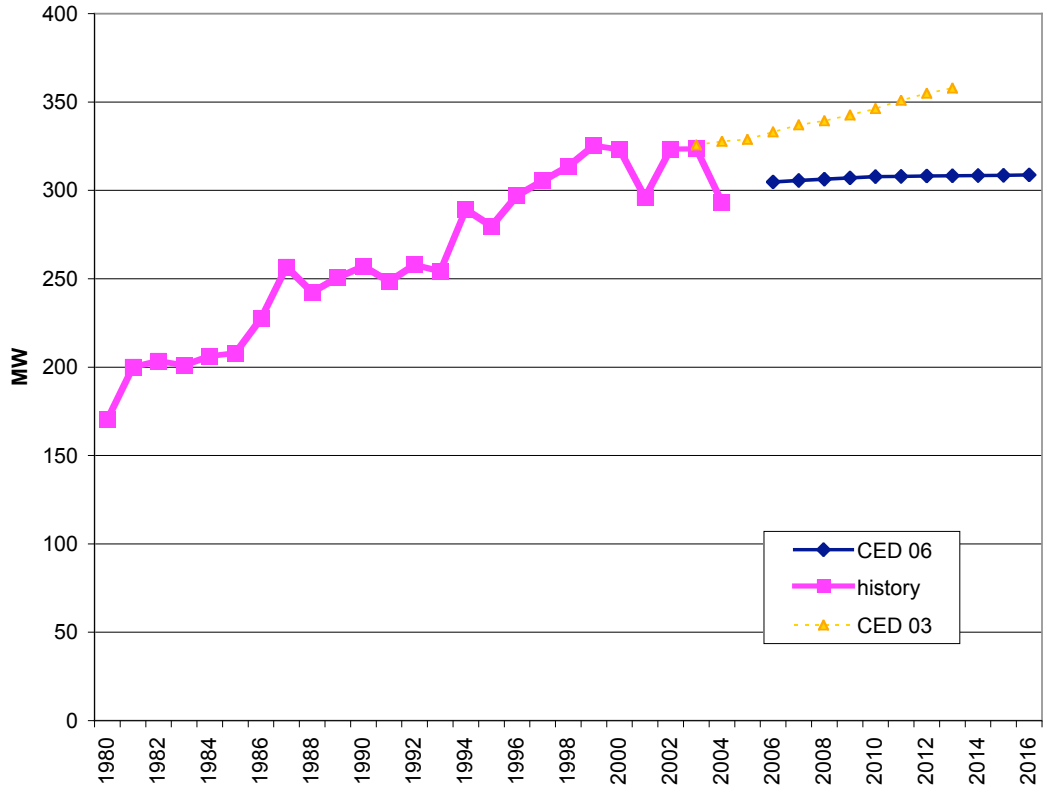
Residential

- Residential energy forecast is higher due to higher starting point
- Residential peak is lower due to lower starting point
- Both CED 2006 energy and peak forecasts have lower growth rates
- Lower population forecast and higher persons per household forecast = lower household forecast
- Lower long term household income growth

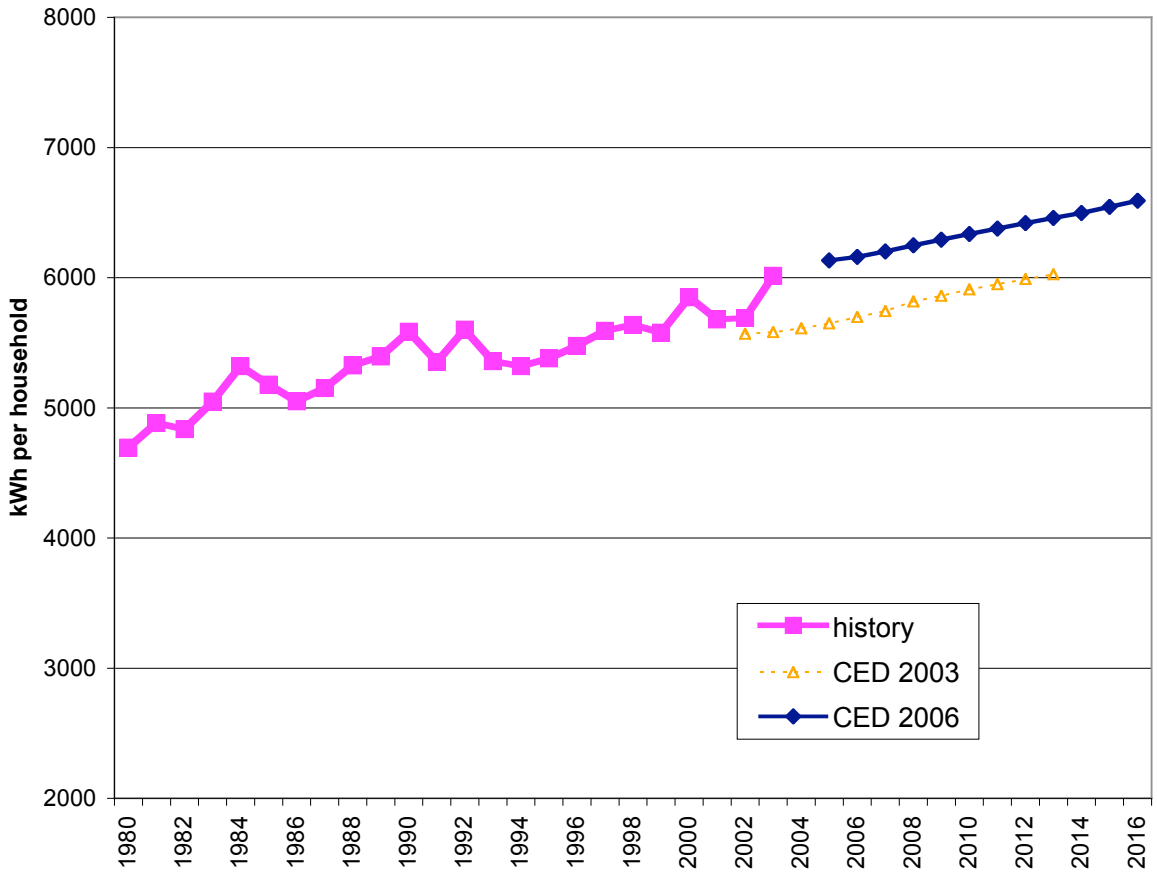
LADWP Planning Area Residential Consumption



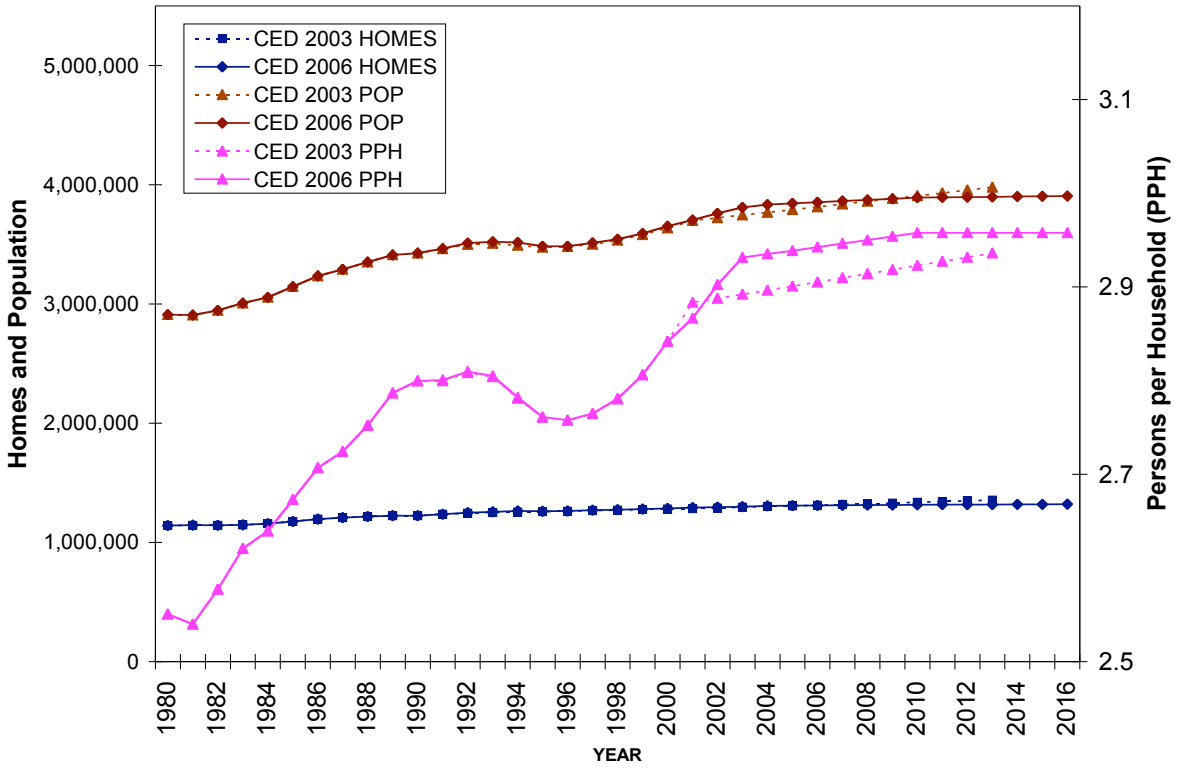
LADWP Planning Area Residential Peak



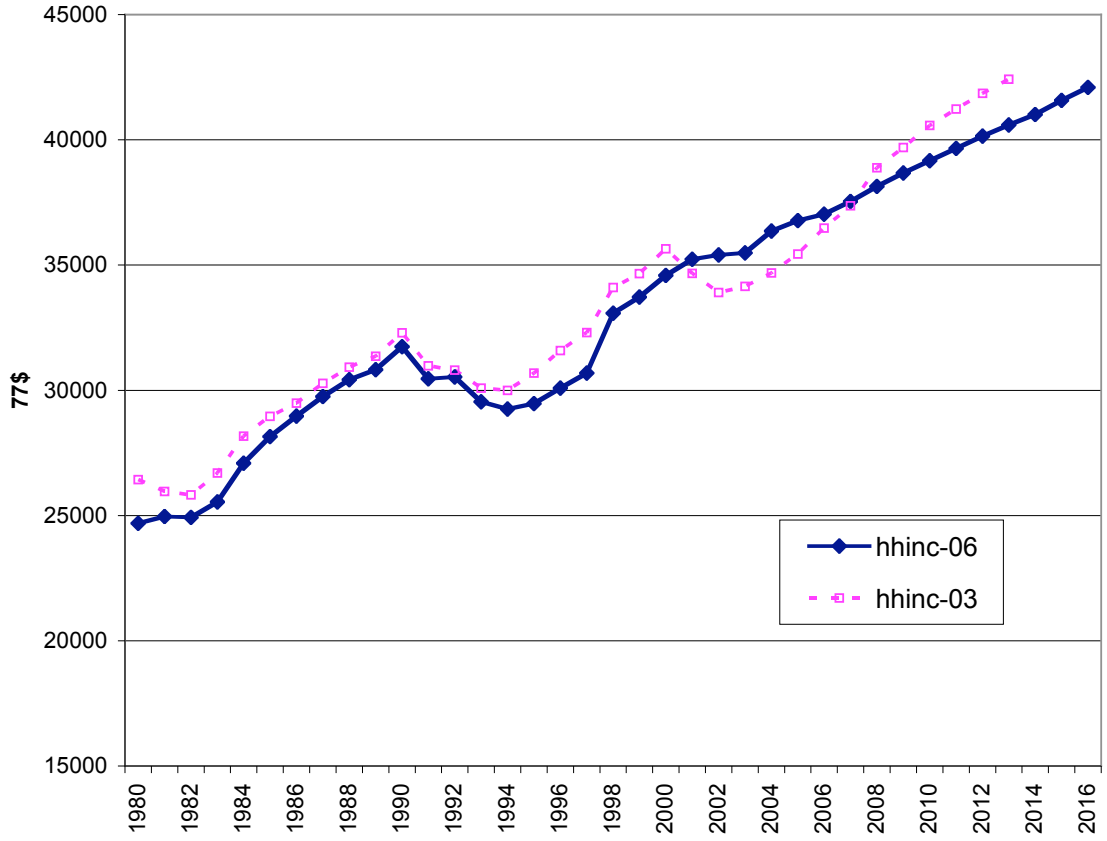
LADWP Planning Area Use per Household



LADWP Planning Area Demographic Inputs



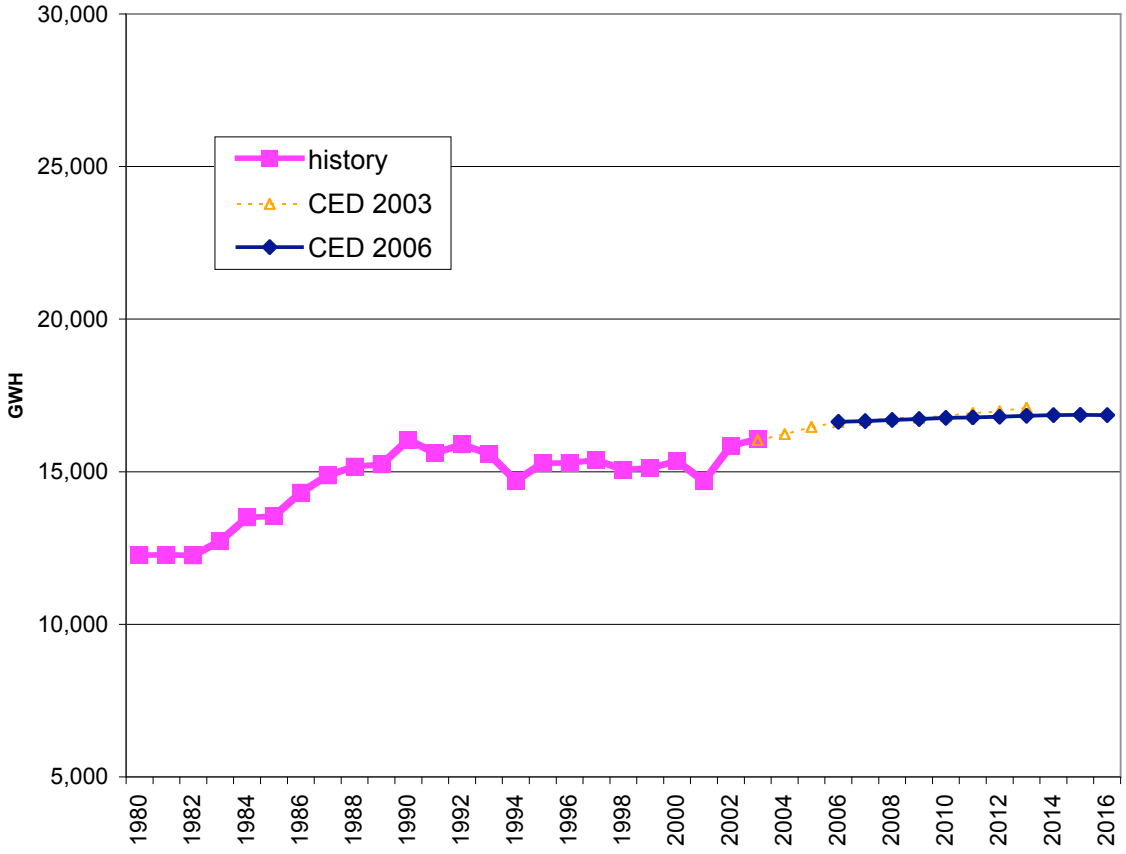
LADWP Planning Area Household Income



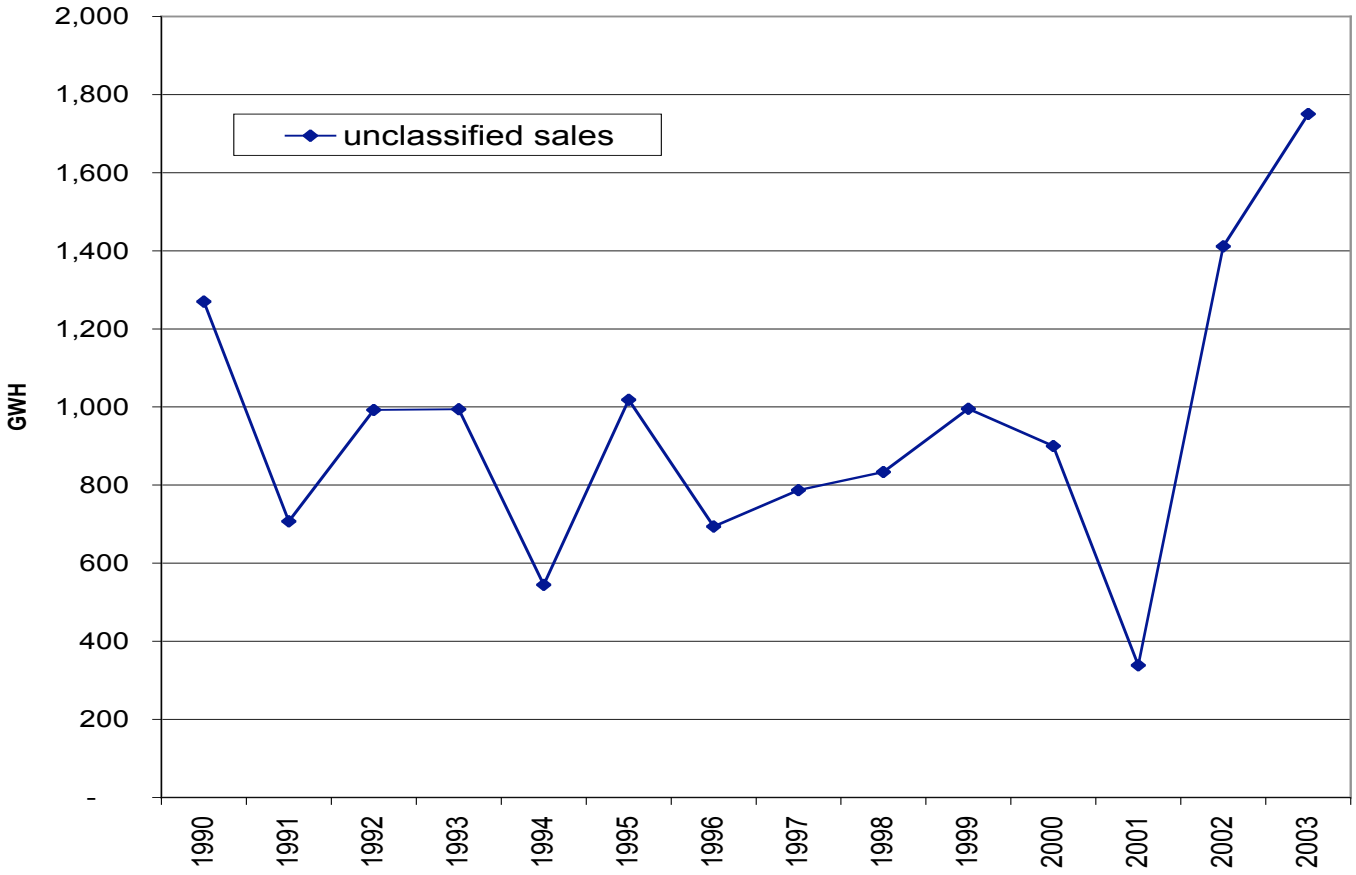
Non-Residential Sectors

- Total non-residential forecast is similar
- Specific sector forecasts are different due to historic calibration and unclassified distribution
- CED 2006 commercial building forecasts are lower due to inclusion of recent building standards
- CED 2006 industrial forecast is higher due to higher economic drivers

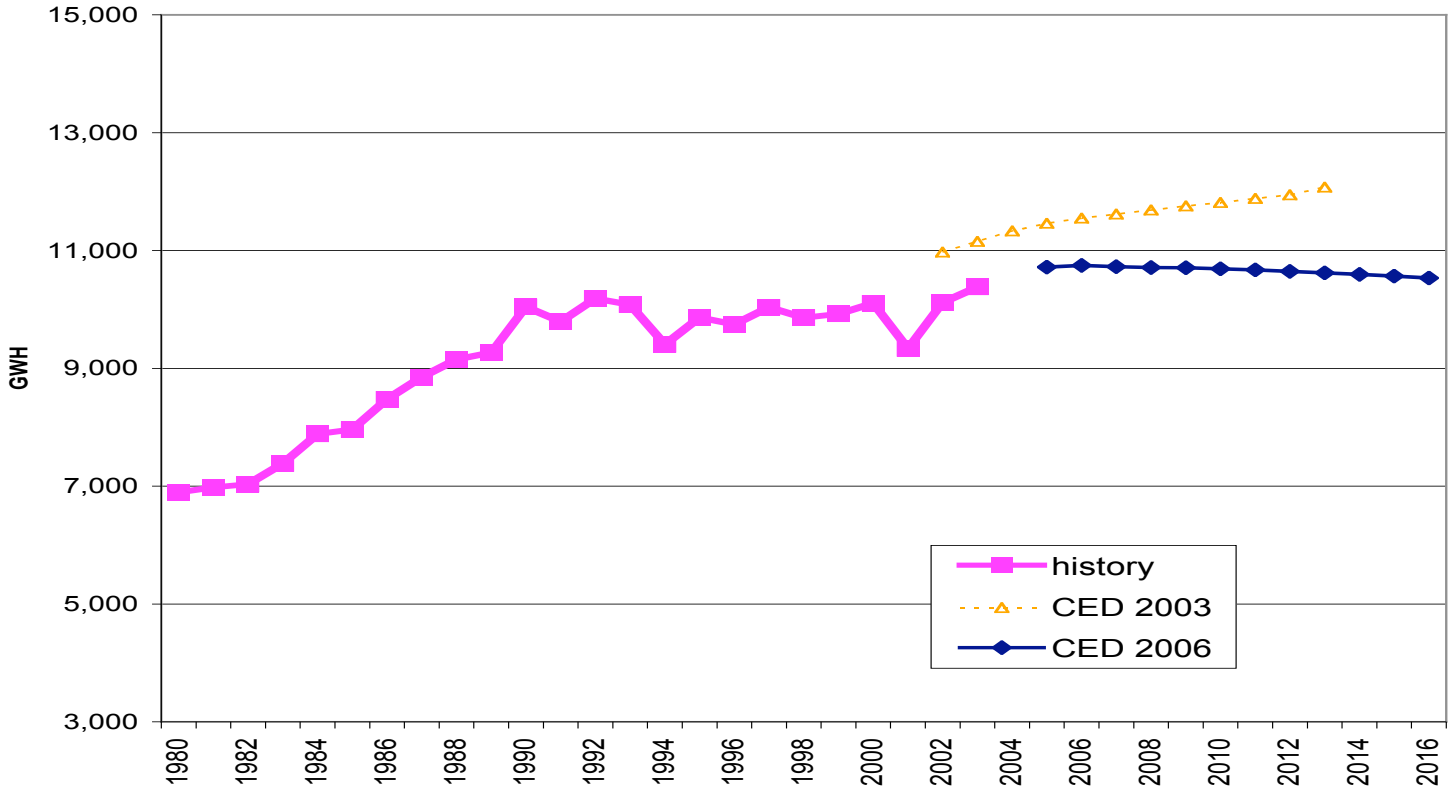
LADWP Non-residential Consumption



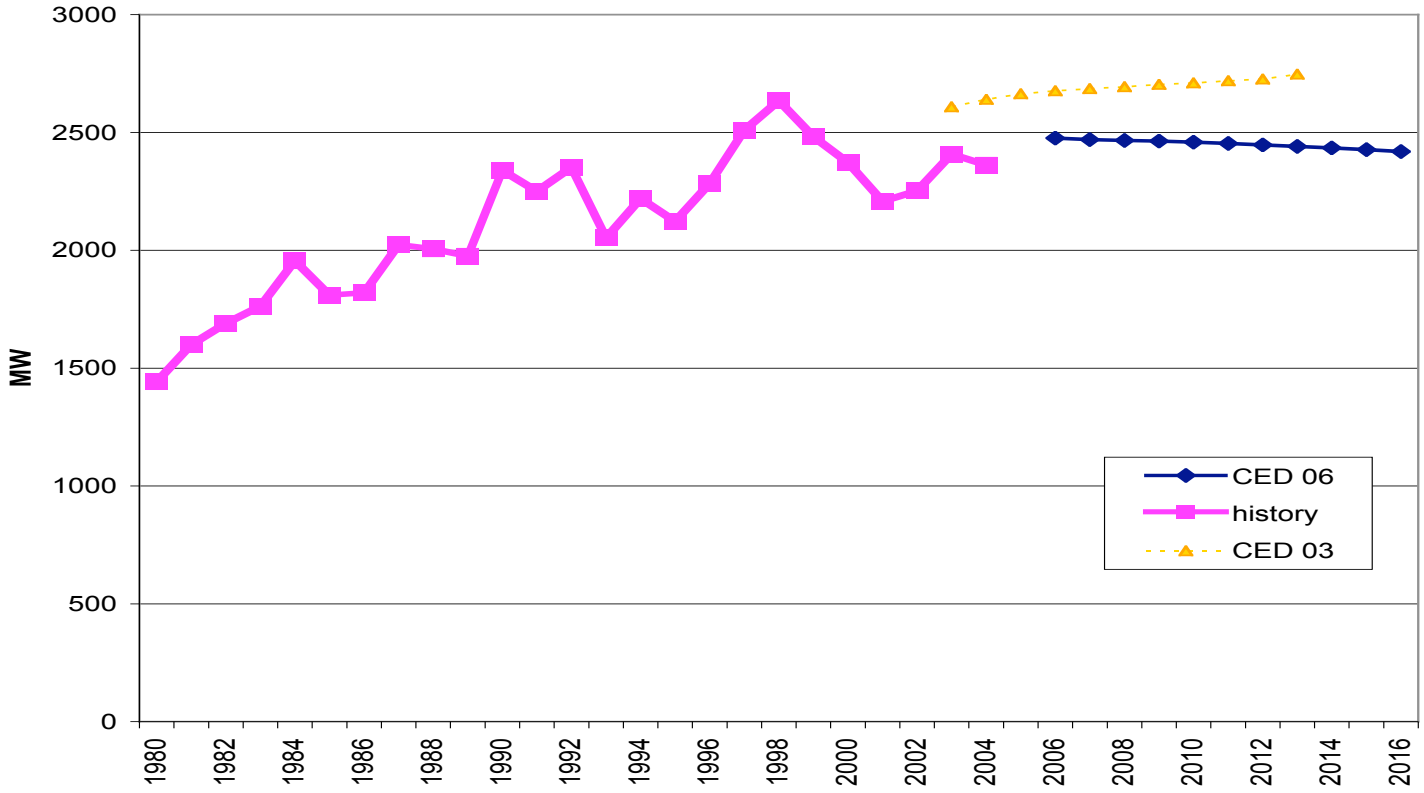
LADWP Unclassified Sales



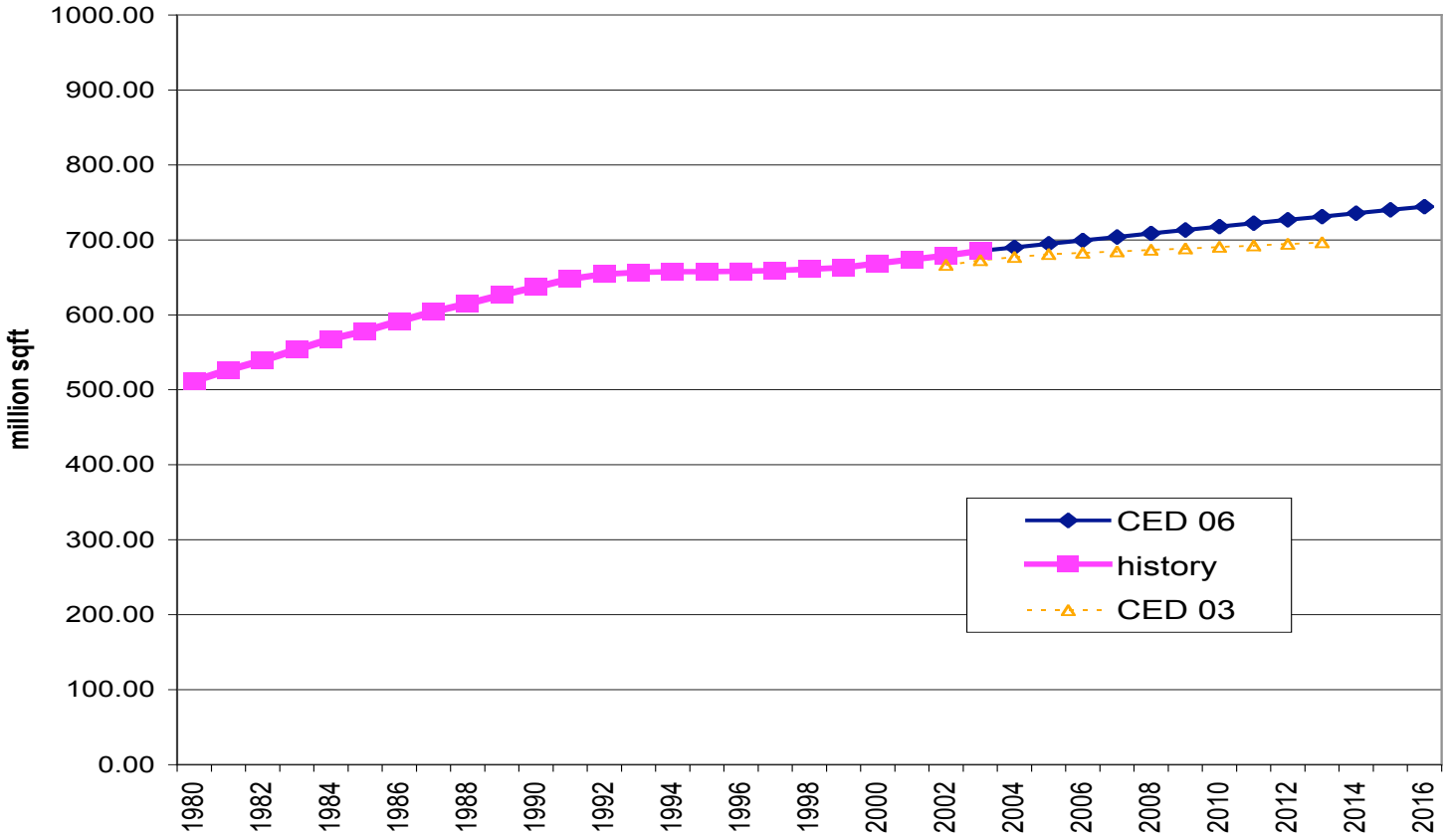
LADWP Planning Area Commercial Building Consumption



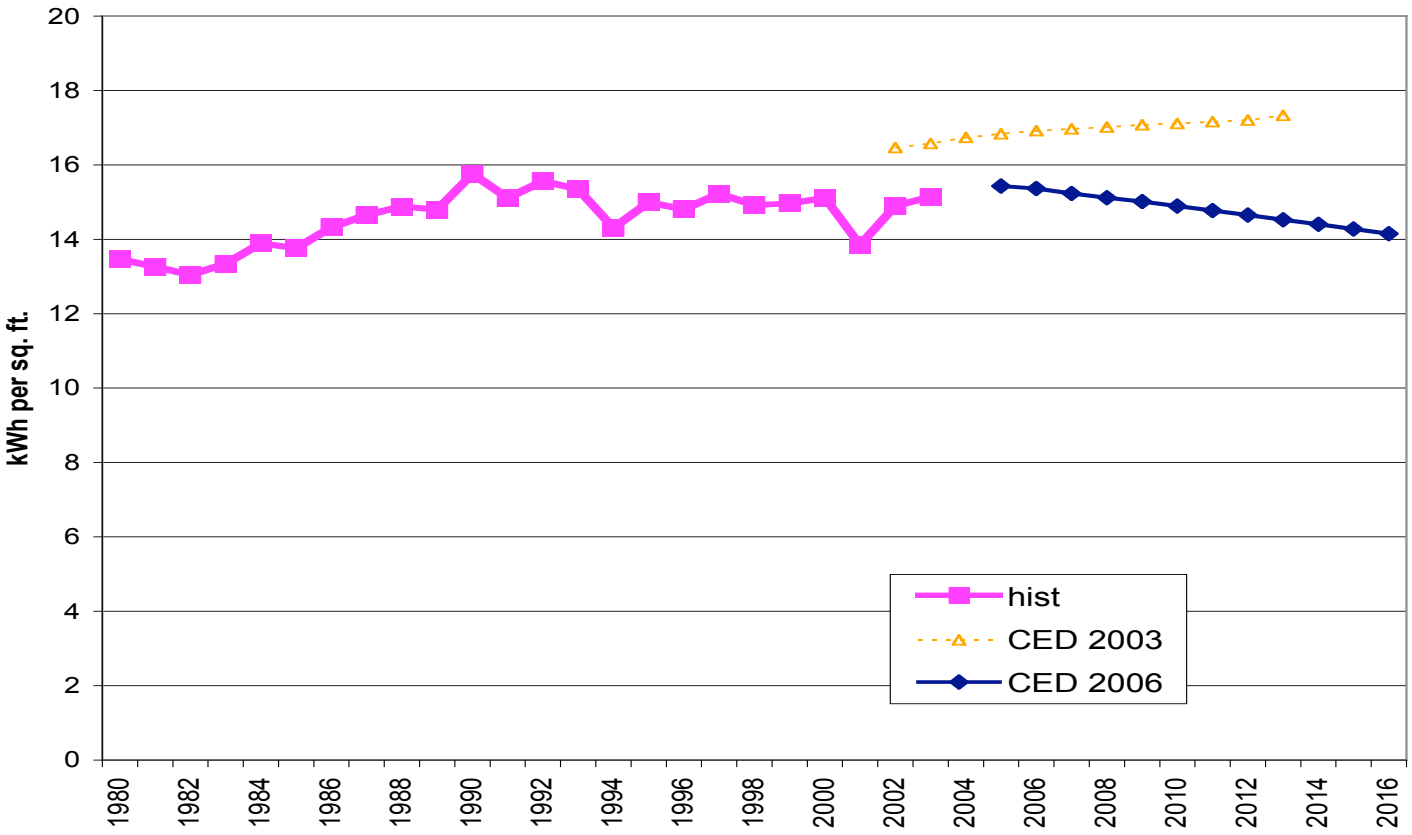
LADWP Planning Area Commercial Building Peak



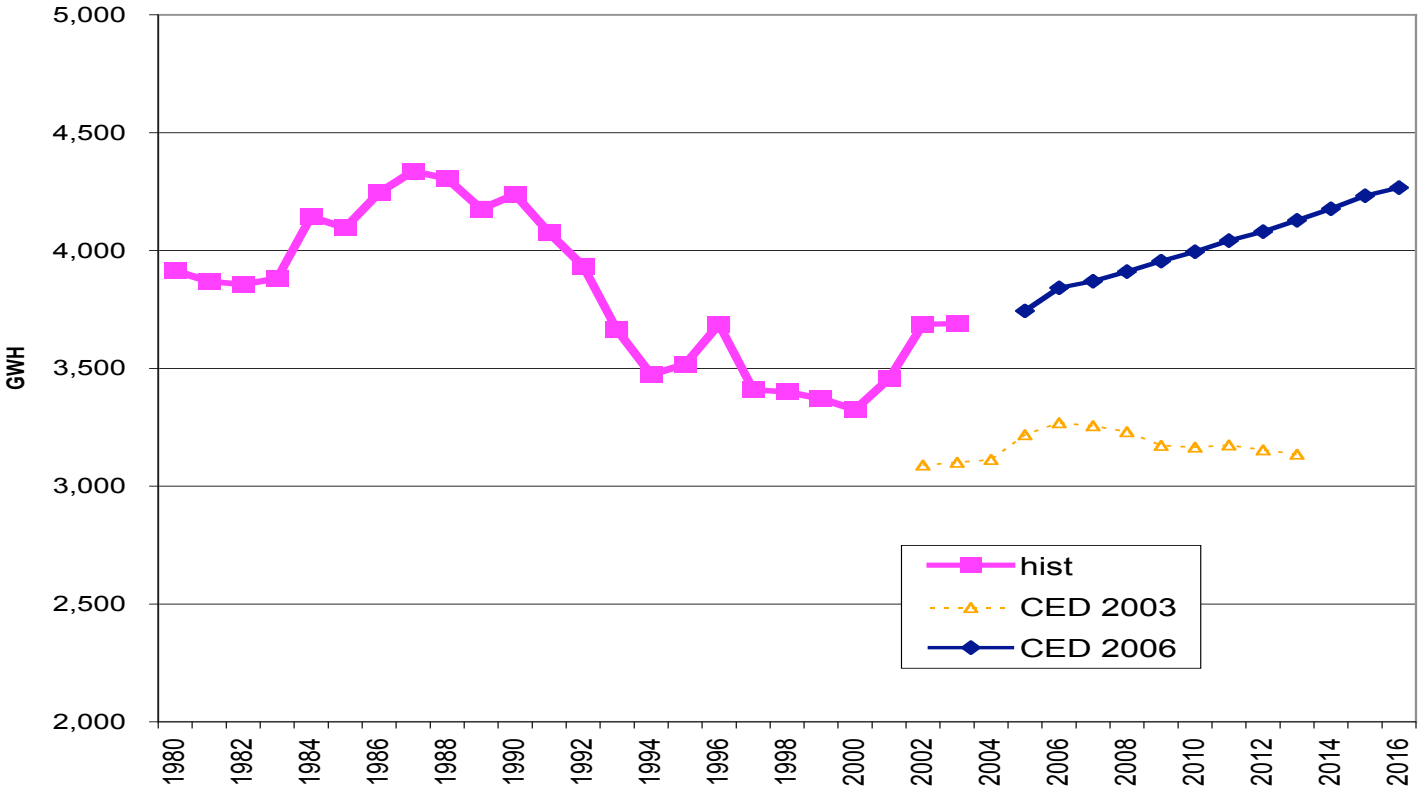
LADWP Planning Area Commercial Floorspace



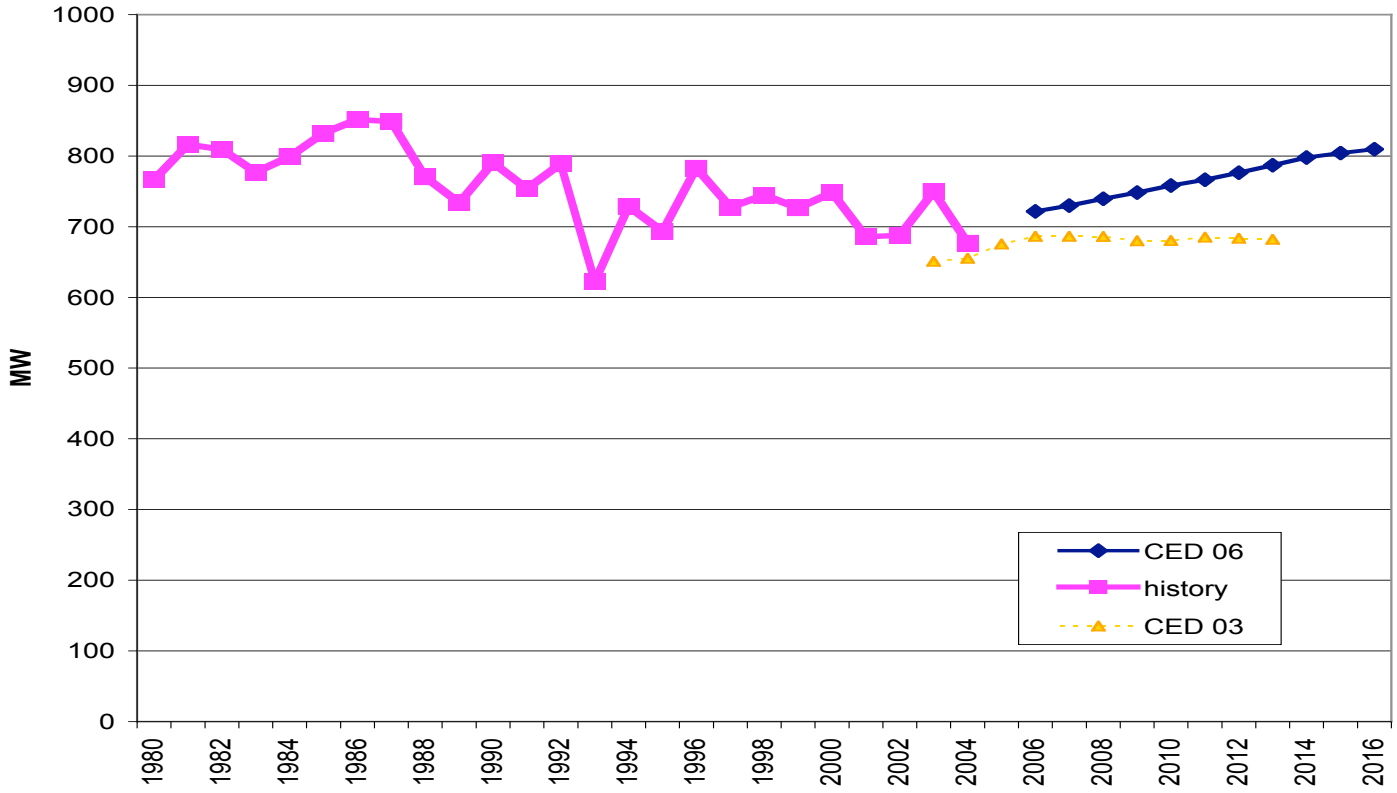
LADWP Planning Area Commercial kWh/sq. ft.



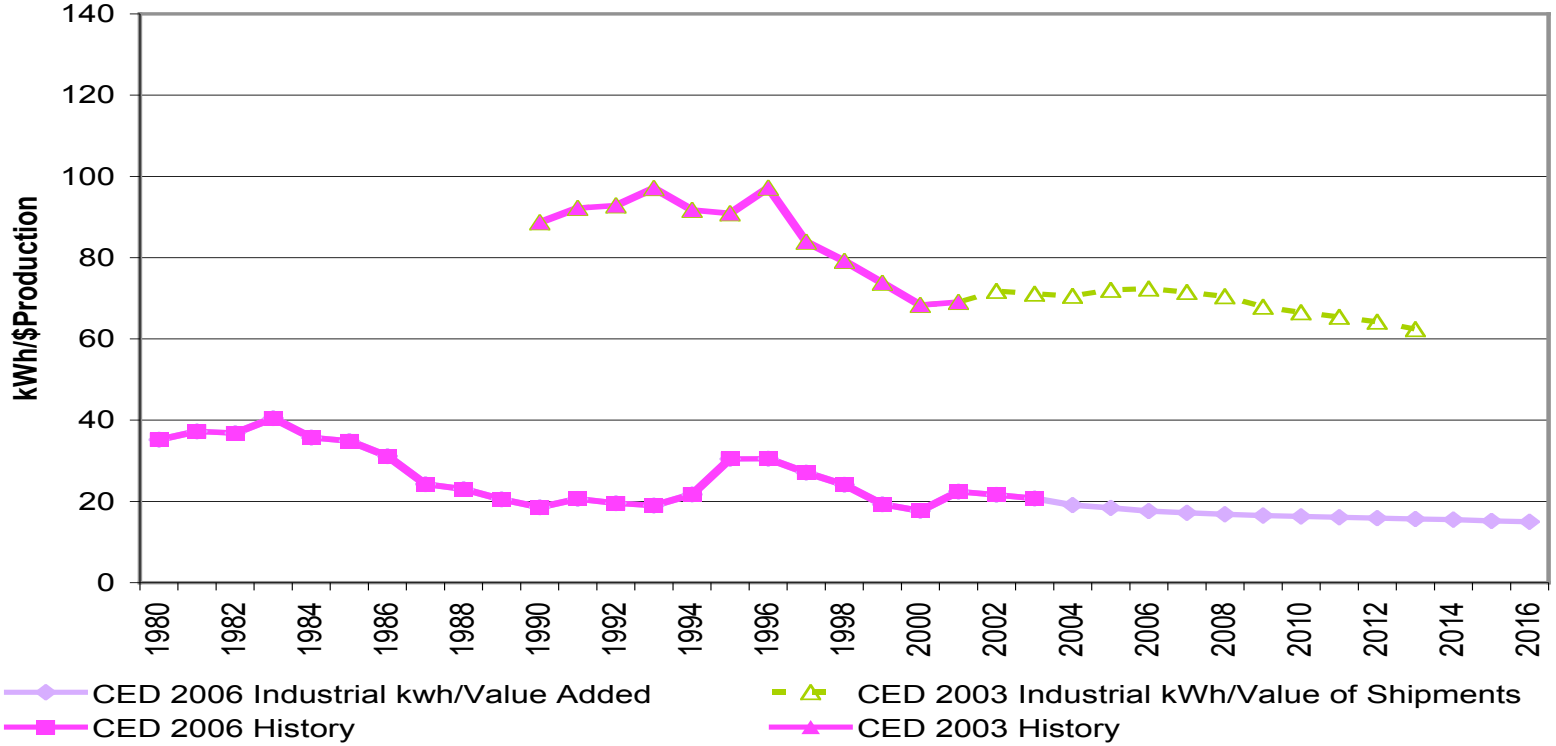
LADWP Planning Area Industrial Consumption



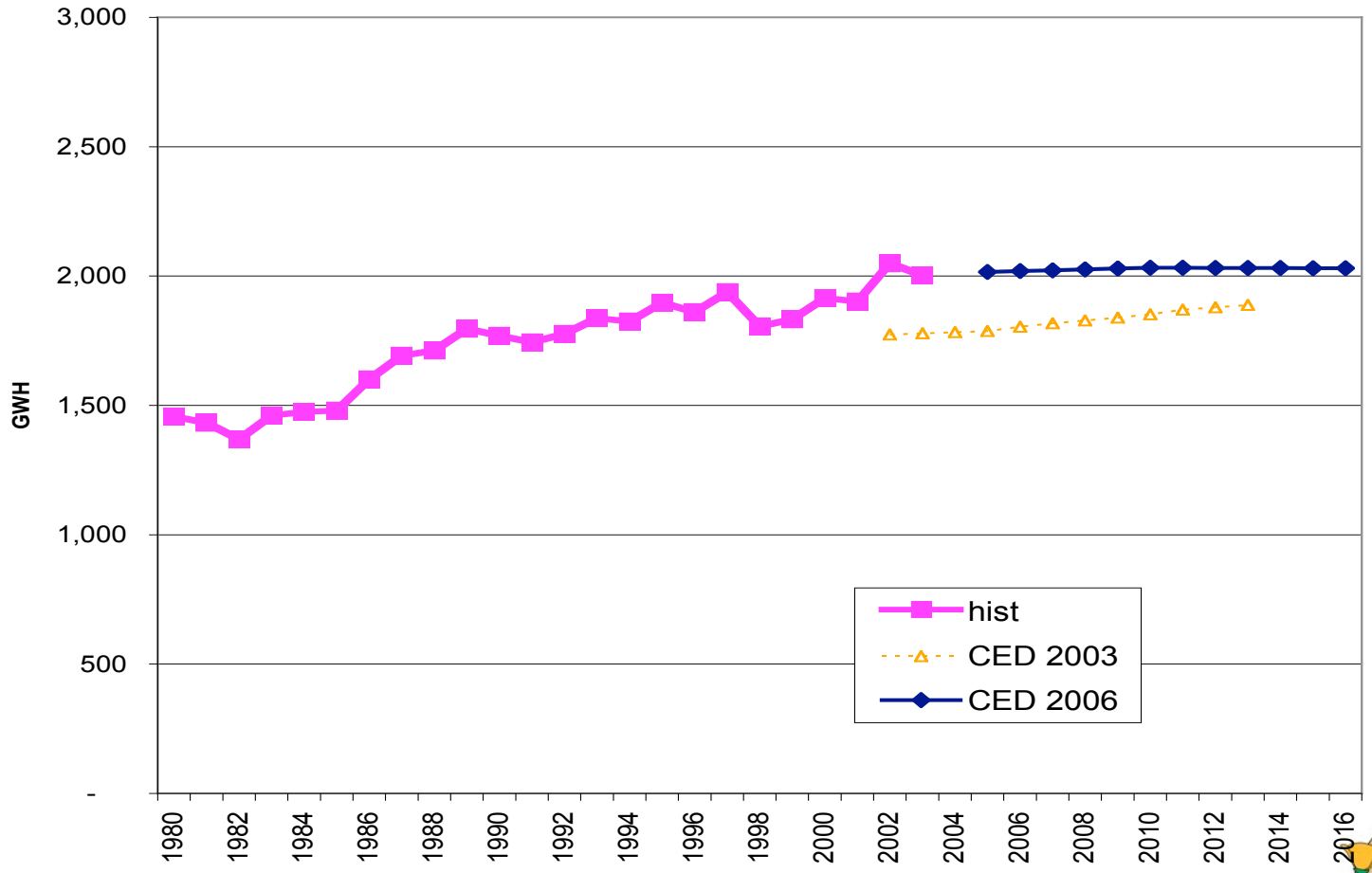
LADWP Planning Area Industrial Peak



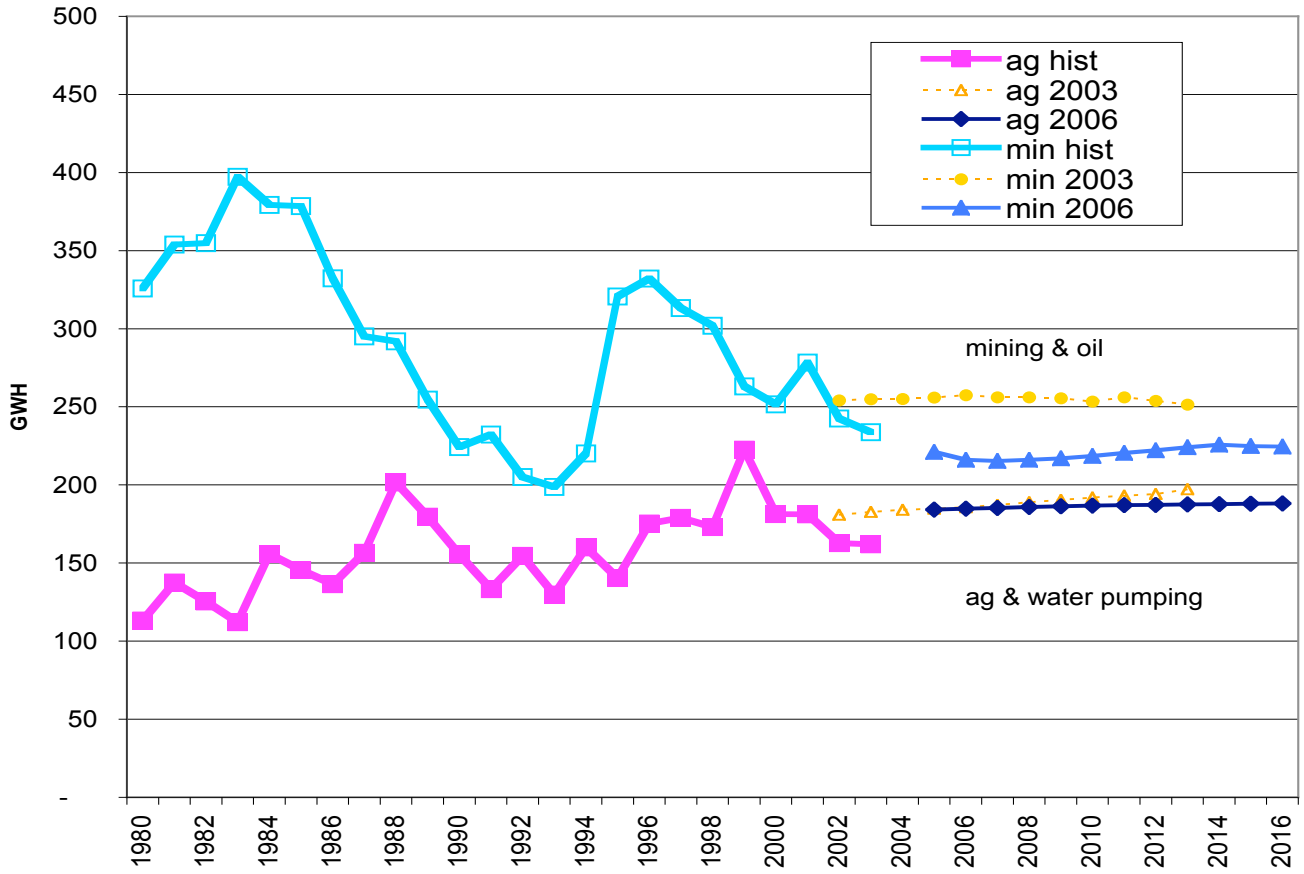
LADWP Planning Area Industrial Use per Production Unit



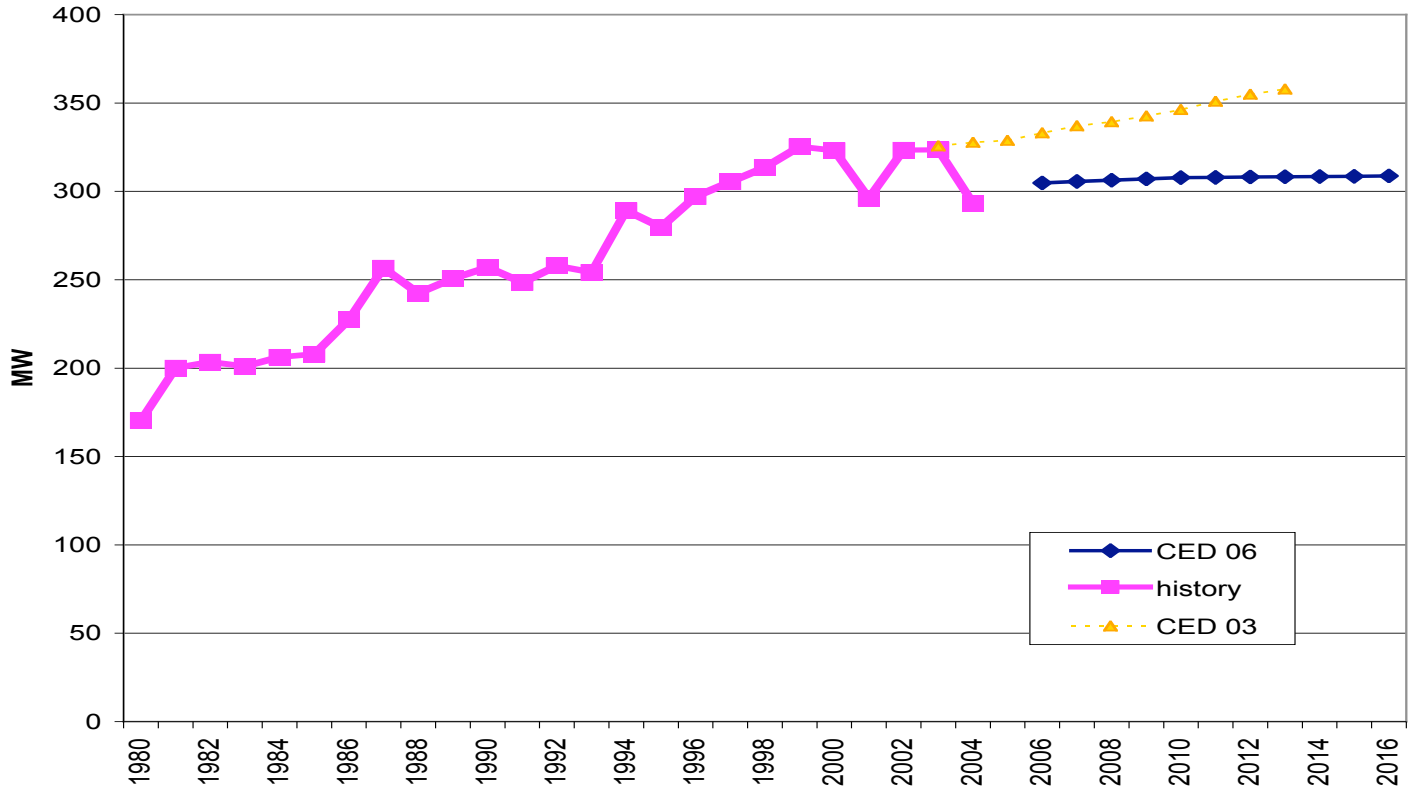
LADWP Planning Area TCU Sector Consumption



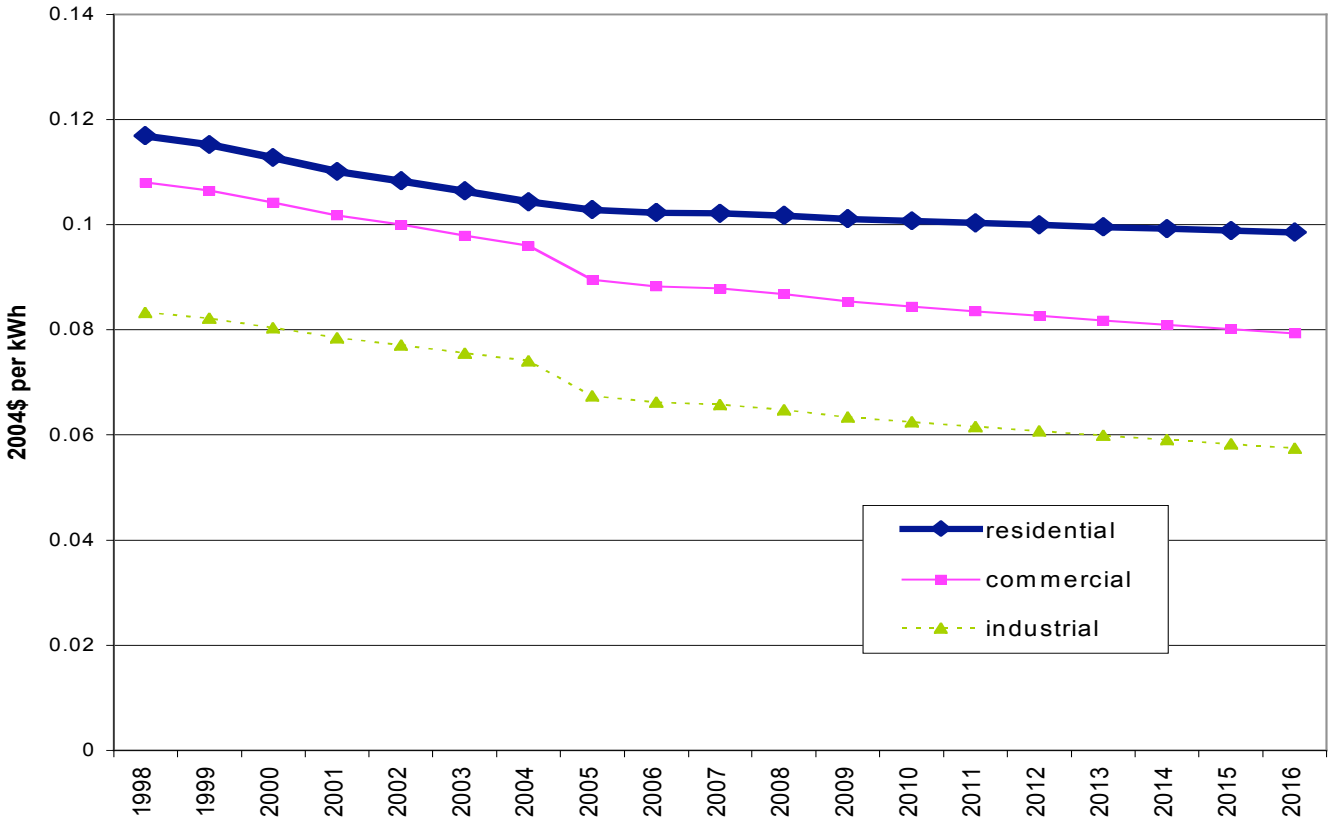
LADWP Agriculture and Mining Consumption



LADWP Planning Area Other Sectors Peak



LADWP Planning Area Prices



LADWP Planning Area Forecast Comparisons

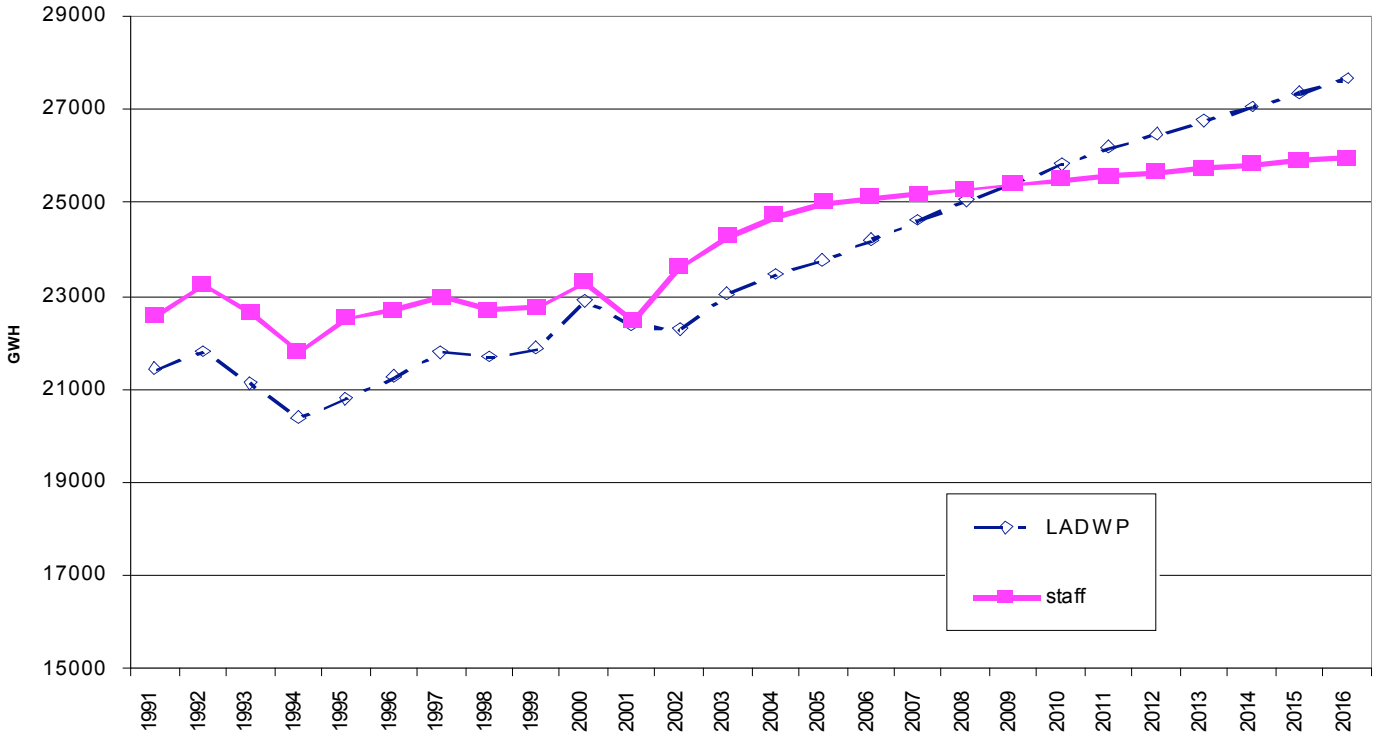
- LADWP forecast grows at a faster rate than staff forecast
- LADWP peak forecast is about 4 percent higher by 2010. Difference grows to 9 percent by 2016.
- Both LADWP Residential and Commercial forecasts are higher than staff forecasts
- UCLA population forecast for LA region is higher than DOF
- Staff commercial forecast includes impacts of recent building and appliance standards
- No ability to compare forecast drivers on a numerical basis

LADWP Planning Area Comparisons

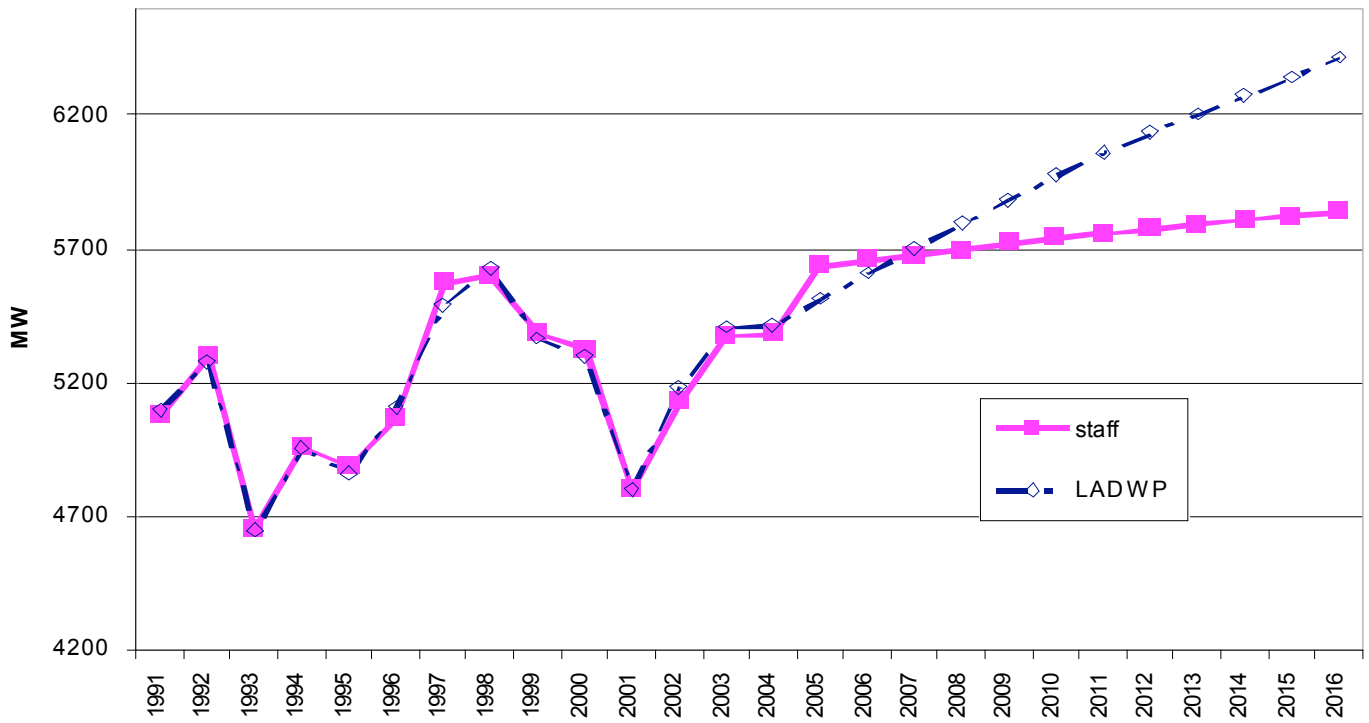
	Consumption (GWH)				Peak (MW)		
	LADWP	Staff Forecast	%difference		LADWP	Staff Forecast	%difference
2000	22,897	23,296	1.74%		5,299	5,330	0.59%
2003	23,041	24,285	5.40%		5,410	5,378	-0.59%
2008	25,047	25,296	0.99%		5,798	5,701	-1.67%
2010	25,828	25,505	-1.25%		5,977	5,744	-3.90%
2013	26,762	25,752	-3.77%		6,205	5,795	-6.61%
2016	27,674	25,969	-6.16%		6,416	5,841	-8.96%
Annual Average Growth Rates							
2000-2003	0.21%	1.40%			0.69%	0.30%	
2003-2008	1.68%	0.82%			1.39%	1.17%	
2003-2016	1.42%	0.52%			1.32%	0.64%	

Historic values are shaded

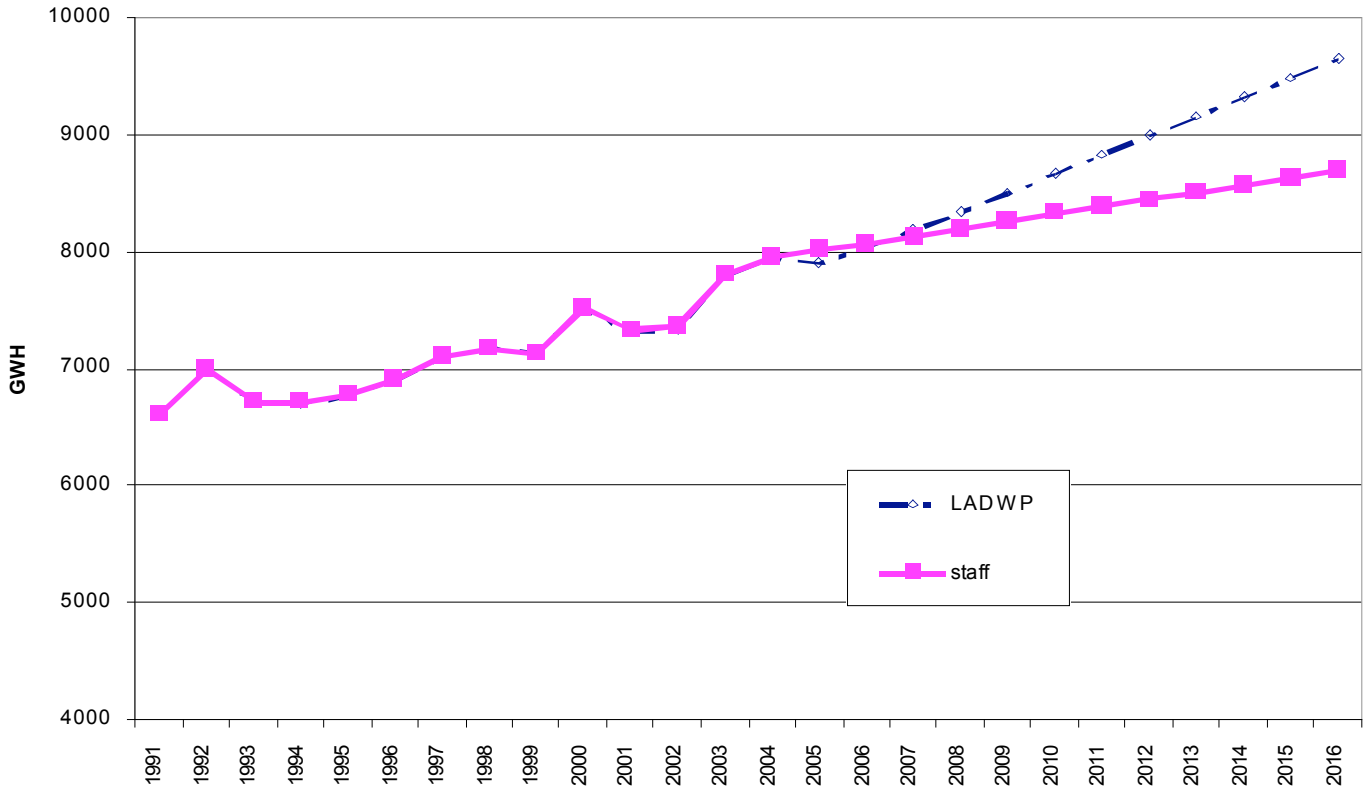
LADWP Planning Area Electricity Consumption



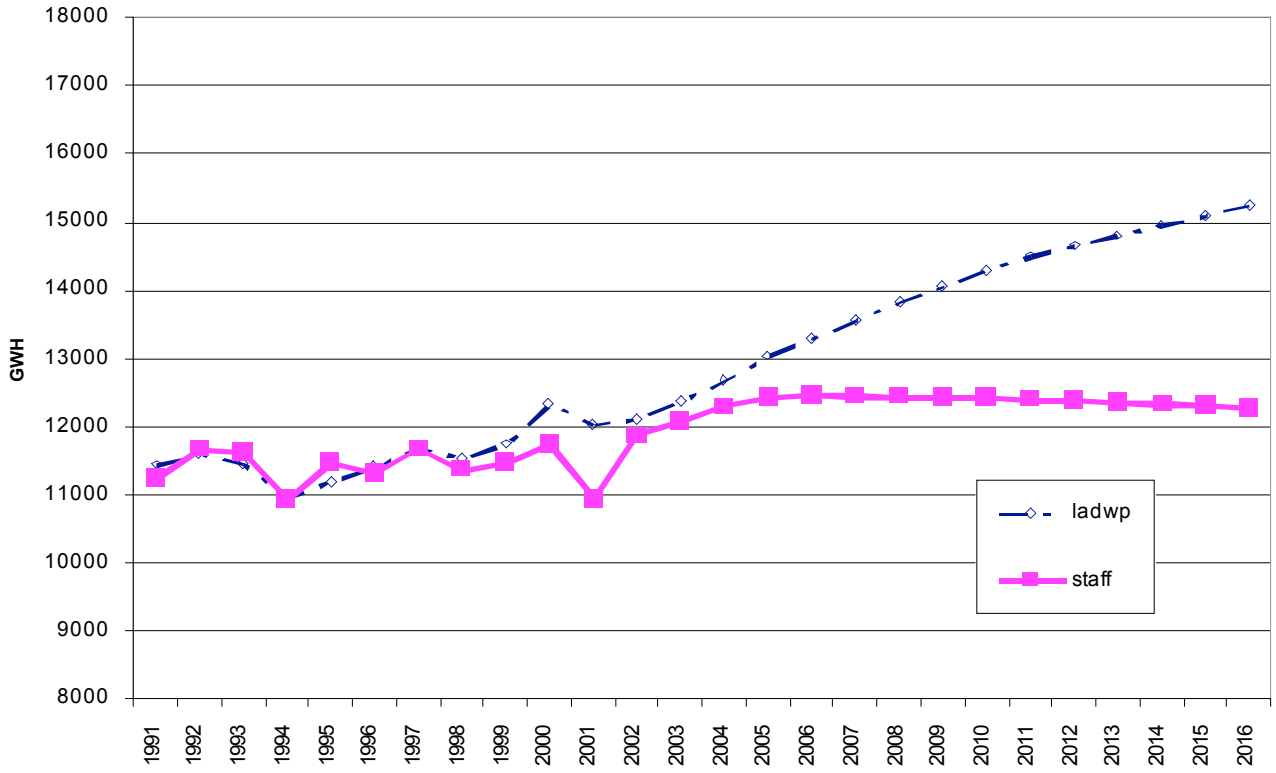
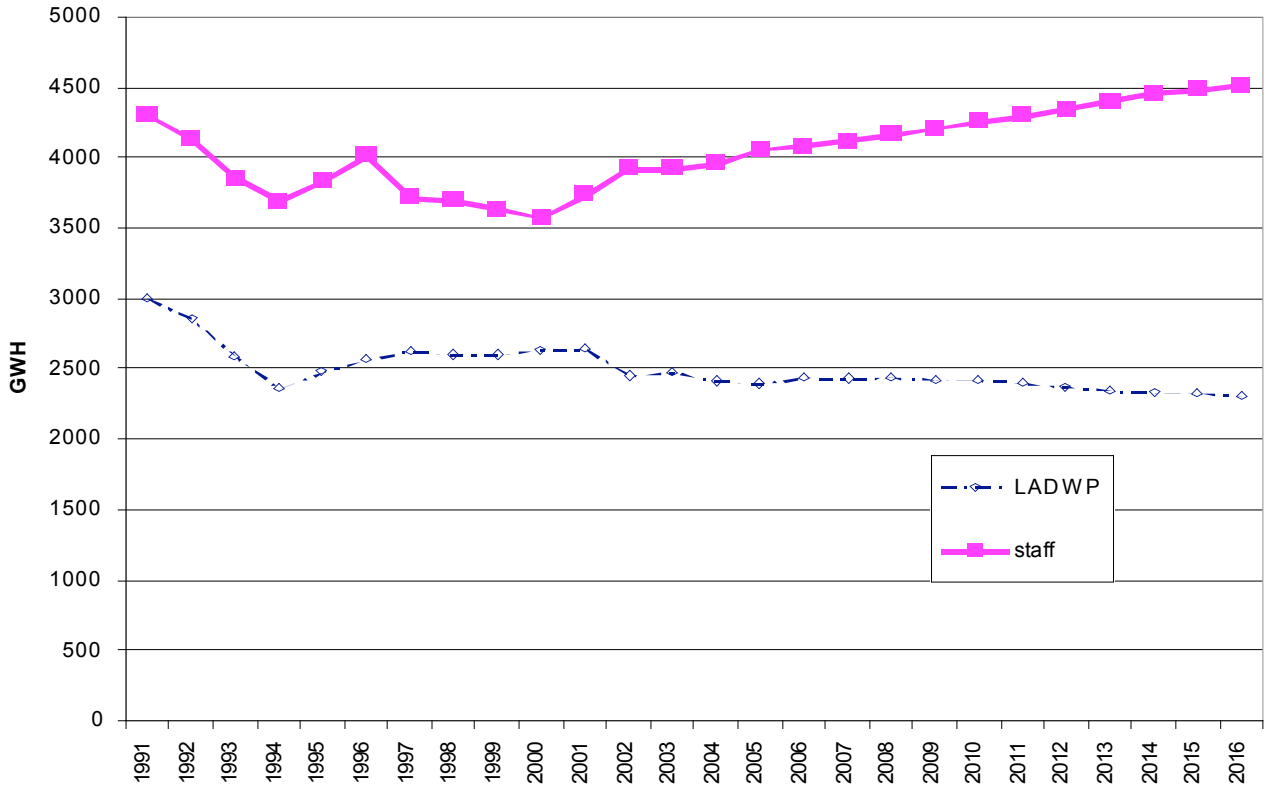
LADWP Peak Comparison



LADWP Residential Comparison



LADWP Commercial Forecast Comparisons



LADWP Industrial Forecast Comparison