

IEPR Committee Workshop

CALIFORNIA ENERGY DEMAND 2012-2022 REVISED STAFF FORECAST: DOCK

Self-Generation Forecast

Sacramento, CA

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Data Sources

- DG programs (ERP,NSHP,CSI,SGIP, and similar programs offered by POUs)
- Large industrial and commercial users reporting under QFER
- Energy and Peak factors come from annual CSI and SGIP program evaluation reports



Revisions and Updates

- Corrected for data entry errors in QFER reporting
- Updated program data for CSI, NSHP, Solar Hot Water, and POU PV
- Updated capacity and peak factors to reflect 2010 CSI/SGIP program evaluation report



Forecast: Residential

- Residential PV and solar water heating adoption forecast with new predictive model
 - PV system cost and performance data come from a study sponsored by EIA
 - Solar water heating system cost and performance data based on an assessment undertaken by CPUC



Forecast: Residential

- Residential Predictive Model
 - Payback calculations based on system and maintenance costs, incentives, and fuel rates
 - Estimated payback applied to a Bass Diffusion adoption curve
 - Results for adoption differ by demand scenario since projected fuel rates and number of homes vary by scenario



Forecast: Non-Residential

- No predictive model
- Forecast based on trend analysis
 - Examine rate of growth in adoption based on historic DG incentive program data
 - Estimate growth and then estimate energy and peak impacts based on capacity/peak factors from CSI/SGIP evaluation reports

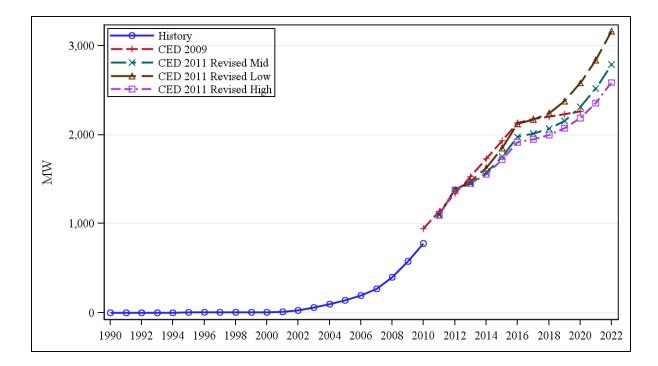


Focus on Installed PV Capacity

 Non-PV and PV energy and peak impacts to be discussed in main presentation of each planning area

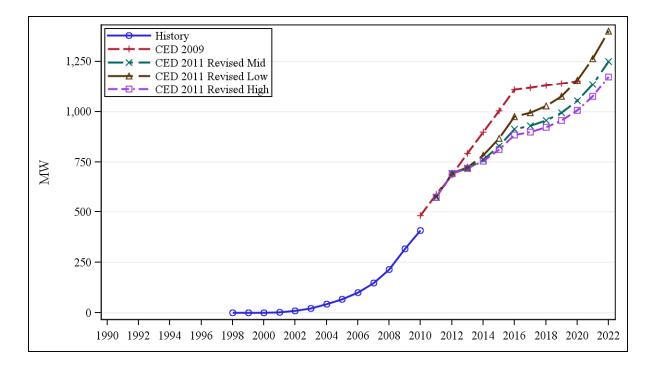


Statewide Installed PV Capacity



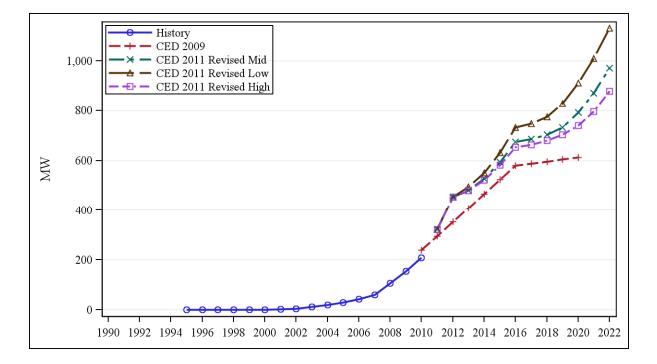


PGE Installed PV Capacity



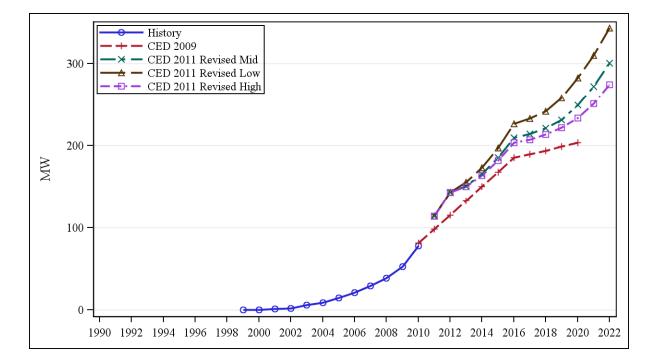


SCE Installed PV Capacity

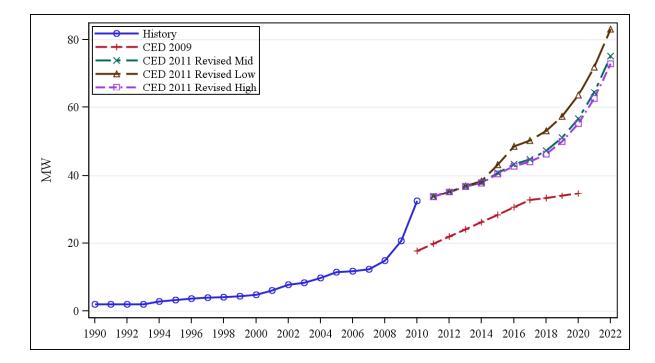




SDGE Installed PV Capacity

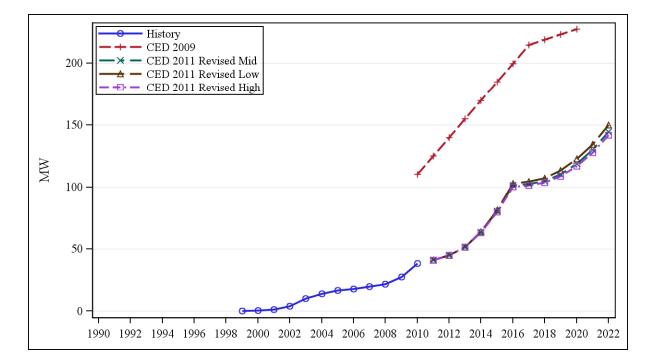








LADWP Installed PV Capacity





• Note – Evaluation Report uses a different dataset than what was used by CEC staff for the revised forecast

2010 CSI Evaluation Report, Table C-1				
	Capacity (MW)			
Utility	Report*	CEC	% Difference	
PGE	420	409	-2.6%	
SCE	212	208	-1.9%	
SDGE	77	78	1.3%	

 Total project capacity of projects having the following status : "Cancelled","System Removed","Withdrawn"

Total Cancellations		
Utility	Capacity (MW)	
PGE	114	
SCE	55	
SDGE	16	



Next Steps

- Finish work on Non-Residential sector predictive models
- Update QFER database to align CHP capacity per ICF report
- Monitor developments in CHP projects per CHP Settlement
- Monitor participation of CHP projects in revised SGIP program
- Monitor participation of CHP under AB 1613