



# DISTRIBUTED GENERATION AND LOCAL ENERGY RESOURCES

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# Governor Brown Renewable Energy Goals

- Building 12,000 MW of Localized Electricity Generation
- Building 8,000 MW of Large Scale Renewables
- Planning and Permitting New Necessary Transmission Within 3 Years
- Dealing with Peak Energy Needs and Develop Energy Storage
- Timeline to Make New Homes and Commercial Buildings Zero Net Energy
- Making Existing Buildings More Efficient
- Adopting Stronger Appliance Efficiency Standards
- Increase Combined Heat and Power (COGEN) Production by 6,500 MW



## Bulk renewables markets versus local

- Large scale projects compete to sell power statewide through bulk transmission grid
- Local energy resources may be significantly shaped affected by local conditions



## Local conditions vary

- ❑ Solar insolation is better in San Diego than Arcata
- ❑ Distribute lines and transformers are newer in Elk Grove than downtown LA
- ❑ Planning landscape is vastly different in Ontario than in downtown SF
- ❑ More policy arenas in northern California; more demand in the South



# Discussion Breakdown

	Statewide	San Diego	LA (City)	LA (County)	OC	Inland Empire	Central Valley	SACOG	SF/San Mateo	Santa Clara	East Bay	Central Coast	Total
Renewable Energy Payments	2,000	334	334	417	83	167	167	167	83	83	83	83	2,000
RPS	8,000	1,330	1,330	1,675	375	670	670	670	375	375	375	375	8,220
Supports	2,000	334	334	417	83	166	166	166	83	83	83	83	1,998
Total	12,000	2,000	2,000	2,500	500	1,000	1,000	1,000	500	500	500	500	12,218