



Technical Potential for Local Distributed PV in California

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t	"Local" = Output consumed b	y load on	feeder	or
	substation			

- Easier interconnection
- + Evaluated a range of interconnection criteria; for example:
  - 15% of peak load (Rule 21)
  - No backflow (hourly evaluation of load and output)
- Constrained by available land and rooftops
- Calculated total cost and total net cost (net of avoided costs)



Three procurement scenarios: least cost; least net cost; high roofs

## + Two cost cases

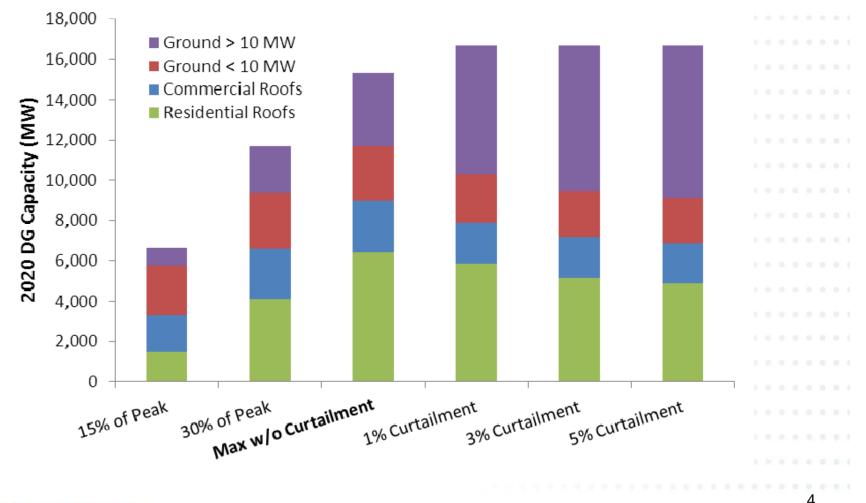
- High Cost: 2010 PV costs; \$7.50 MWh integration cost; high interconnection costs; no distribution avoided costs
- Low Cost: Historical learning curve cost decline; no integration cost; low interconnection costs; include distribution avoided cost

## + Sensitivities

- Interconnection Criteria: 15% peak; 30% peak; max without curtailment; 1%, 3%, 5% curtailment
- Installation Rate: High-9GW by 2016; Base-5GW by 2016; Low-<4GW by 2016</li>

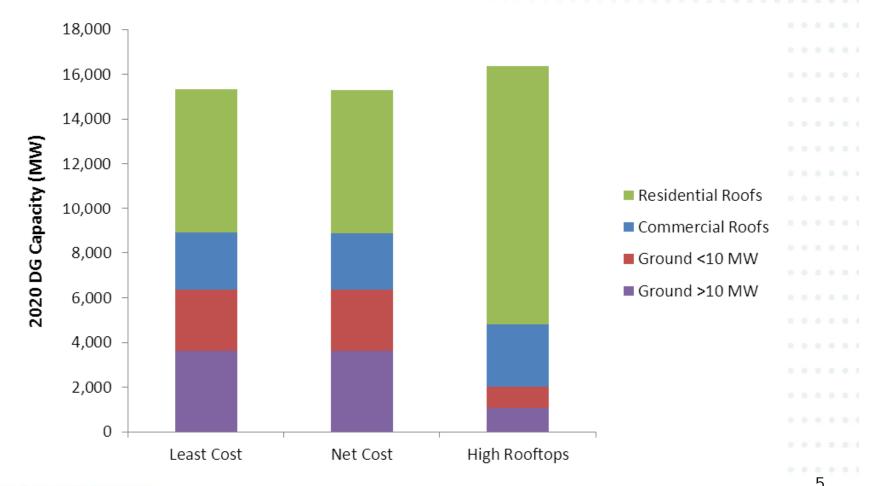


## Technical Capacity Estimate Under Various Interconnection Constraints





Portfolio Resource Mix in 2020, Under a "Maximum PV Without Curtailment" Constraint





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Interconnection Potential by Location

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Technical potential is roughly proportional to load