

**DOCKET**

**12-IEP-1D**

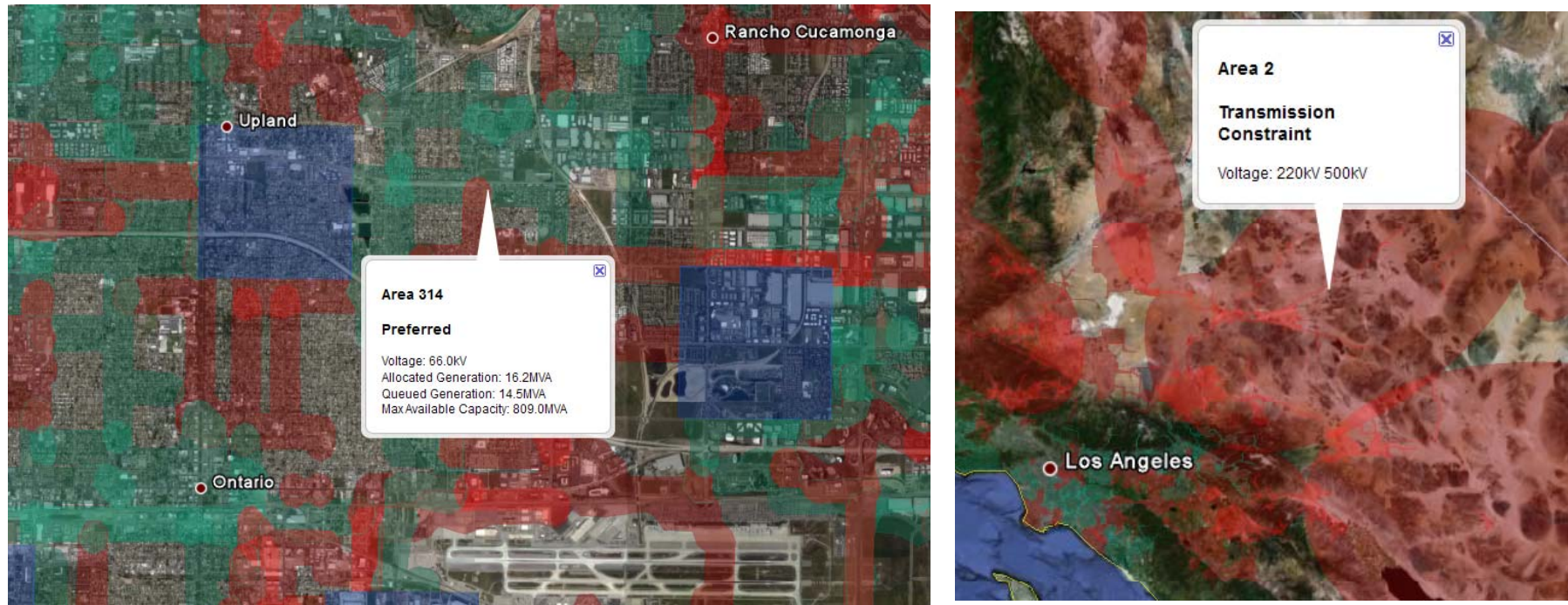
DATE MAY 10 2012

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## Prioritizing Geographic Areas for Small Scale Renewable Development

**May 10<sup>th</sup>, 2012**

## SCE already provides geographic prioritization data to developers

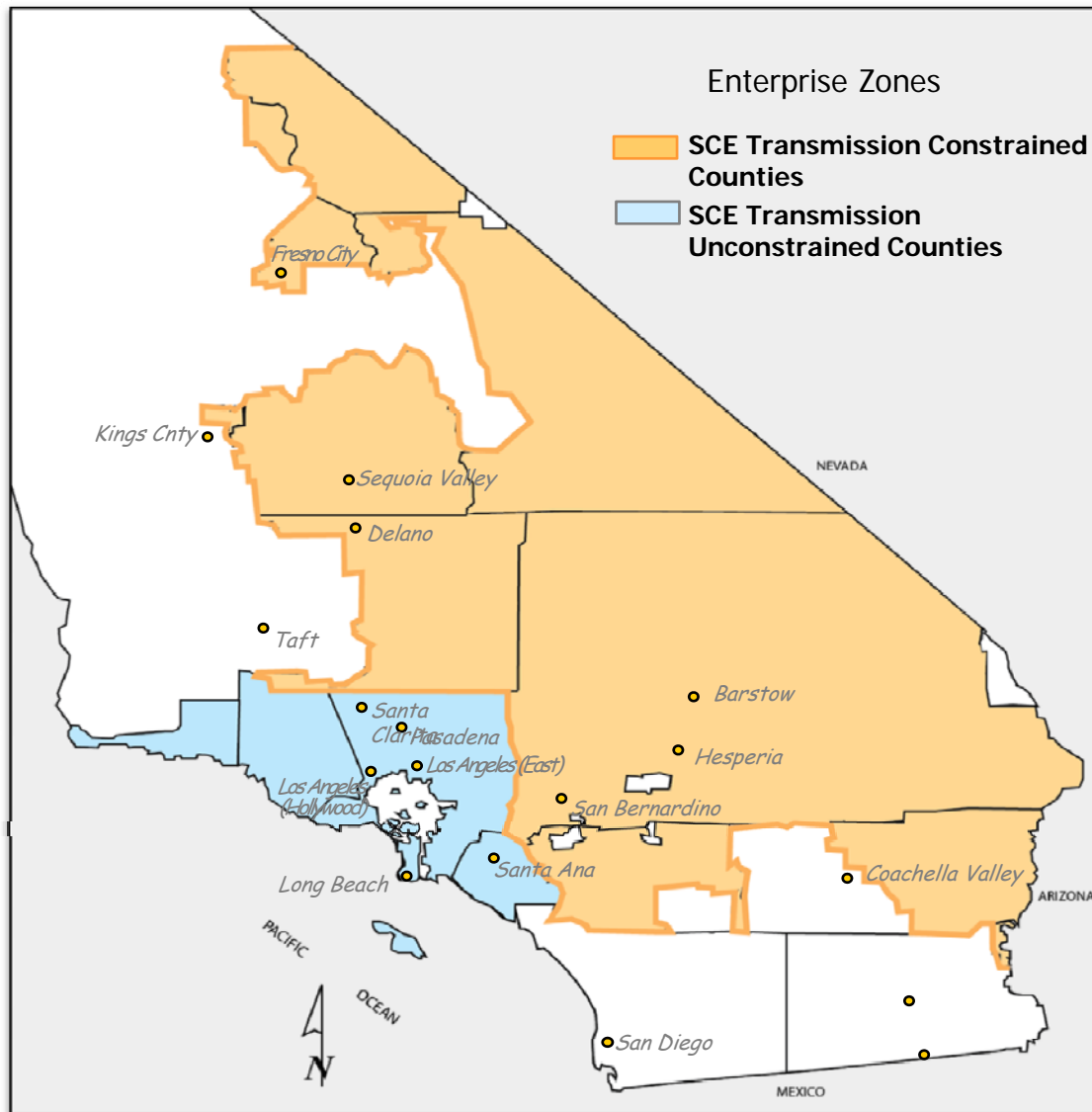


Source: <http://www.sce.com/EnergyProcurement/renewables/renewable-auction-mechanism.htm>

SCE provides easy-to-use maps illustrating pertinent data to support project interconnection for the following:

- Voltage and available capacity for all 12/16/33kV circuits
  - Identifies “preferred” circuits
- Approximate substation location
- Subtransmission areas
- Transmission constrained areas

## A large portion of SCE service territory is transmission constrained



**“Transmission constrained” areas can be thought of as areas with little (or no) operational margin to handle any “redistribution” of network power flows without potentially adverse grid reliability impacts**

**In such areas, even small changes to transmission network flow patterns (i.e. renewable development) may not be possible without significant transmission system upgrades**

## Locating in unconstrained transmission areas will decrease interconnection costs and application time

- In areas with transmission constraints, renewable development may face significant cost, time, and environmental challenges due to transmission system issues
- Renewable development in areas with no transmission constraints can avoid such issues altogether

Planned Projects to Relieve Congestion <sup>1</sup>	Online Date
Pisgah-Lugo	2017
West of Devers Reconductoring	2018
Coolwater-Lugo 230 kV line	2018
Mirage-Devers 230 kV Reconductoring (Path 42)	2014

Source - CAISO 2011 – 2012 Transmission Plan dated 3/23/12

**After project upgrades, more areas will be “unconstrained” and therefore suitable for renewable development**