

#### Where do FiTs (Feed-in Tariffs) Fit?

### A perspective from the nation's largest renewable energy buyer

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### **Typical Feed-in Tariff Attributes**

- Long-term contracts with fixed prices
- Identified buyer for output
- Guaranteed or streamlined transmission access
- Pre-defined contract terms
- Cost recovery through general taxes or from all customers in a defined area



Feed-in Tariffs are best suited for vertically integrated utilities outside of Regional Transmission Organizations

## Marketplace and Regulatory Complications for Feed-in Tariffs

- Open Access Tariffs yield multiple potential buyers rather than a single buyer
- Retail choice creates opportunities for unequal contributions and subsidies among retailers
- Jurisdictional challenges
  - Renewables programs are State run
  - Transmission access and wholesale prices are federally controlled
- Grid access can be log-jammed with interconnection requests



Some market and regulatory environments are not well suited for typical feed-in tariffs

### **Options for Pricing Feed-in Tariffs**

	Within Public Utility Regulatory Policies Act (PURPA) Purchase Obligation	Outside PURPA Purchase Obligation	
Avoided Cost	<ul> <li>State-set pricing is limited to "avoided cost" under PURPA</li> </ul>	<ul> <li>Projects &lt; 20 MW retain rebuttable presumption in favor of purchase obligation</li> </ul>	
		<ul> <li>Project &gt; 20 MW have burden to prove purchase obligation should remain</li> </ul>	
Competitive Prices	<ul> <li>Can be used to set avoided cost for all projects</li> </ul>	<ul> <li>Competitive market must govern, as states do not have pricing authority</li> </ul>	

### **Comparison of Renewable Contracting Options**

	Contract Terms	Prices	Program Quantity	Benefits	Drawbacks
SCE's Renewables Portfolio Standard	Negotiable	Negotiable	Fixed (% of sales)	<ul><li>Flexible contracts</li><li>Balanced risks</li></ul>	<ul> <li>Lengthy negotiations</li> <li>Not suited for small projects</li> <li>Potential for uncompetitive prices</li> </ul>
SCE's Voluntary Feed-in Tariffs	Fixed (updated between solicitations)	As-bid	Fixed (over multiple years)	<ul> <li>Creates market</li> <li>Developer prices risk</li> <li>Easy to update terms</li> </ul>	<ul> <li>Not suited for large projects</li> <li>Less flexible than RPS</li> <li>Potential for uncompetitive prices</li> </ul>
Typical Feed-in Tariffs	Fixed (defined in regulatory arena)	Fixed (administrativel y determined)	Variable	Simple administration	<ul> <li>Lengthy regulatory processes</li> <li>Inflexible terms</li> <li>Over/under subscription based on price</li> </ul>

# **SCE's Experience With Procurement of Renewables**

**Contracted Capacity, MW** 



# Best Approaches for Procurement of Renewables

- Large-scale solicitations for large-scale volumes
  - Flexible, negotiable terms to account for major uncertainties
  - Well suited for projects > 20 MW
  - May not work under PURPA
- Standard contract solicitations for smaller projects
  - < 20 MW can still fall under PURPA
  - No negotiation of terms, pre-defined performance standards
  - Limited timeframe for Commercial Online Dates
  - Ability to adapt contract terms between solicitations
- Competitive pricing for all programs
  - Superior approach to administratively determined prices
  - No published price cap (creates incentives to game)
  - Ability to weigh price/quantity tradeoffs
- Multi-year goals
  - Provides ability to improve competition in subsequent solicitations