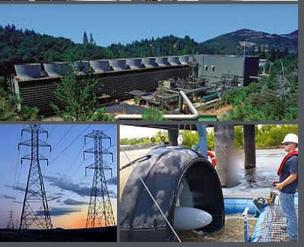
## Leveraging Federal Tax Incentives to Improve Renewable ECM <u>Economics in ESPCs</u>



Doug Dahle, NREL • July 29, 2014













## Leveraging Tax Incentives for ESPC Renewable Energy ECMs

- Federal Tax Incentives (~45% of Cap Cost)
  - 1) Investment Tax Credit (2016) 30%
  - 2) 5 Year Accelerated Depreciation
    - ✓ Modified Accelerated Cost Recovery System (MACRS)
  - Requires private party ownership of RE asset and energy services agreement (ESA) with agency, ESCO and Asset Owner
  - ESCO responsible for RE asset performance
  - Asset Owner (Tax Equity Investor) responsible for delivery and O&M



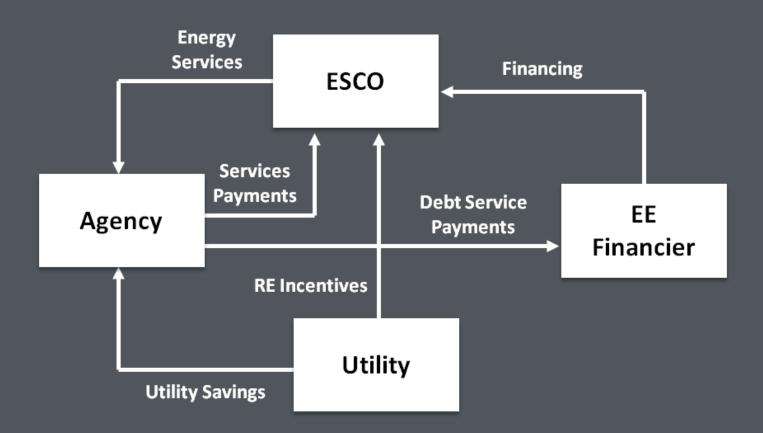
# Leveraging Tax Incentives for ESPC Renewable Energy ECMs

#### Title Disposition Options

- 1) If Government ownership desired, must be Fair Market Value (3<sup>rd</sup> party appraiser) purchase price
  - ✓ Best done after tax benefits realized
    - After 6 years for solar
- 2) No purchase, if ESCO has right of refusal to remove at its expense
- Following illustrates the parties and roles for ESPCs for EE and Private Owned RE Asset

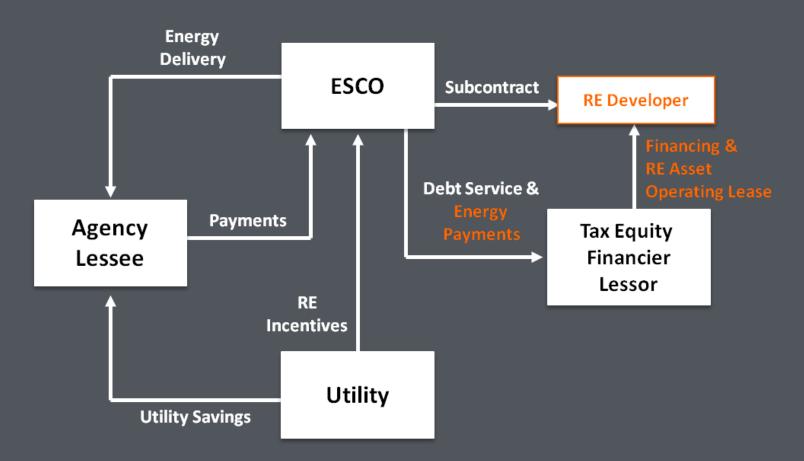


#### **Cash Flow & Parties for Conventional EE ESPCs**



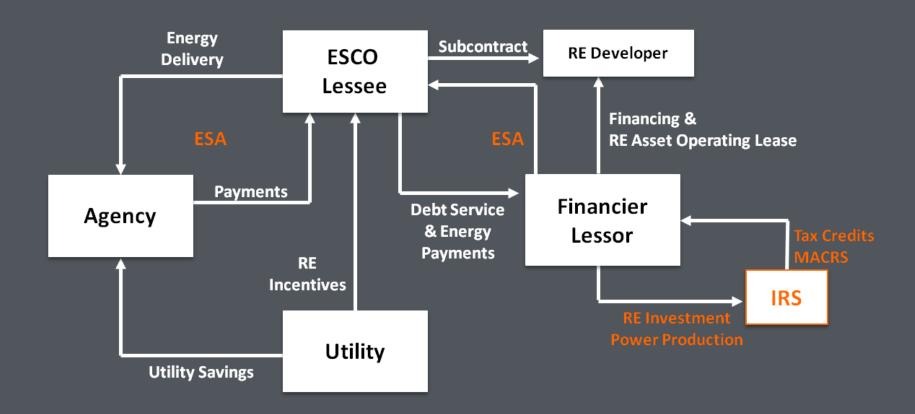


#### **Private Sector Operating Lease**





#### ESA - Deliver RE Power at <= current cost





- Several Federal ESPCs with RE where PV energy
   current utility cost
- Site Access Critical for Investor
  - Recommend License
- ESA templates provide a good starting point.
- FAA Regional Traffic Control
  - 1.1 MW PV Ground Mounted
  - 100 kW Carports



### FAA Tracon Mather, CA ESPC With Private Owned PV Energy Services Agreement (ESA)

- 1.1 MW Ground Mounted and 100 Kw PV Carports
- NREL RE Expertise and Tech Assist to FAA, SMUD, NORESCO, REC Solar, Enfinte (financier)
- Provided ESA template & negotiation successful to implement 2<sup>nd</sup> civilian ESPC RE project

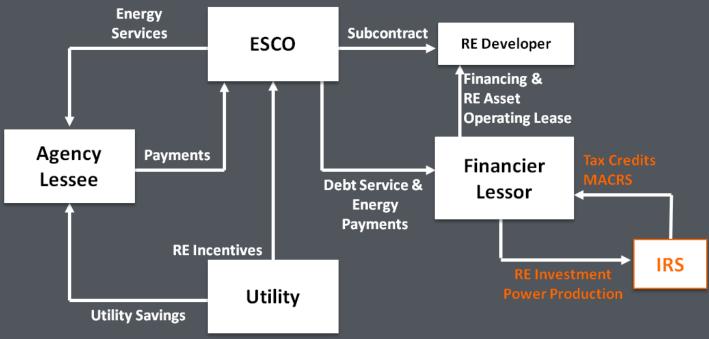




#### **BACK UP SLIDES**



#### **Meeting IRS Regulations**



#### **IRS Tax Tests**

- Lease Term < 80% useful life</li>
- At lease end asset value >= 20% initial value
- Lessee purchase option protect Lessor ROI
- Lessor must have 3% cash on cash return



#### **Private Party Owns RECs**

