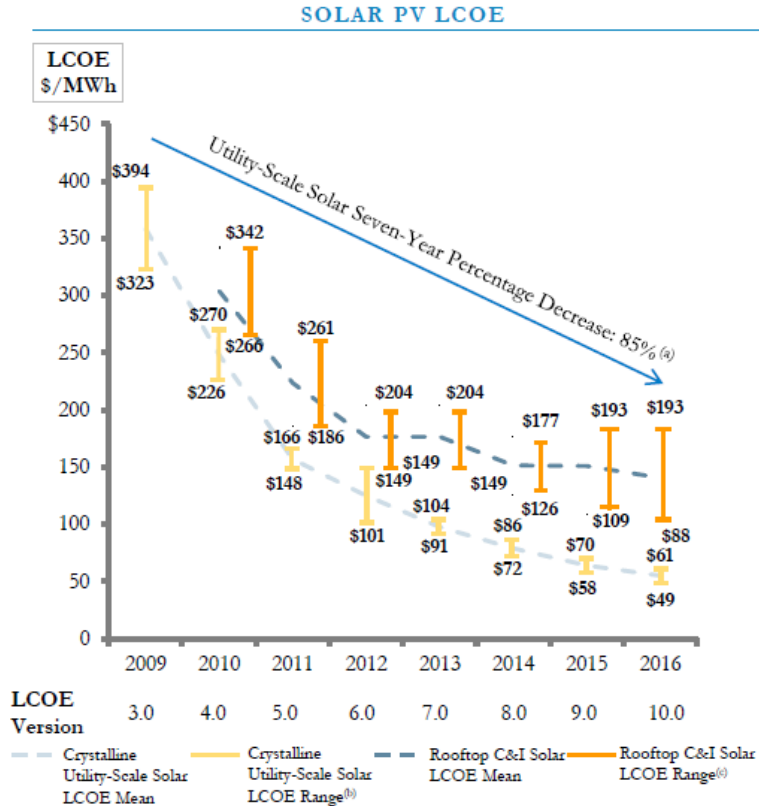




Power Markets, Regulation, and Utility Scale Solar in the U.S.

Colin Meehan

Solar PV: trends to look for



- Global module prices fell ~25% from Q4 2015 to Q4 2016
 - Not necessarily reflected in 2016 installed costs
- Utility-scale solar increasingly procured through non-RPS mechanisms
 - Integrated Resource Plans
 - PURPA
 - C&I PPAs
- Residential installations shifting from lease to ownership model
- Community solar picking up steam

Southeast Solar Outlook



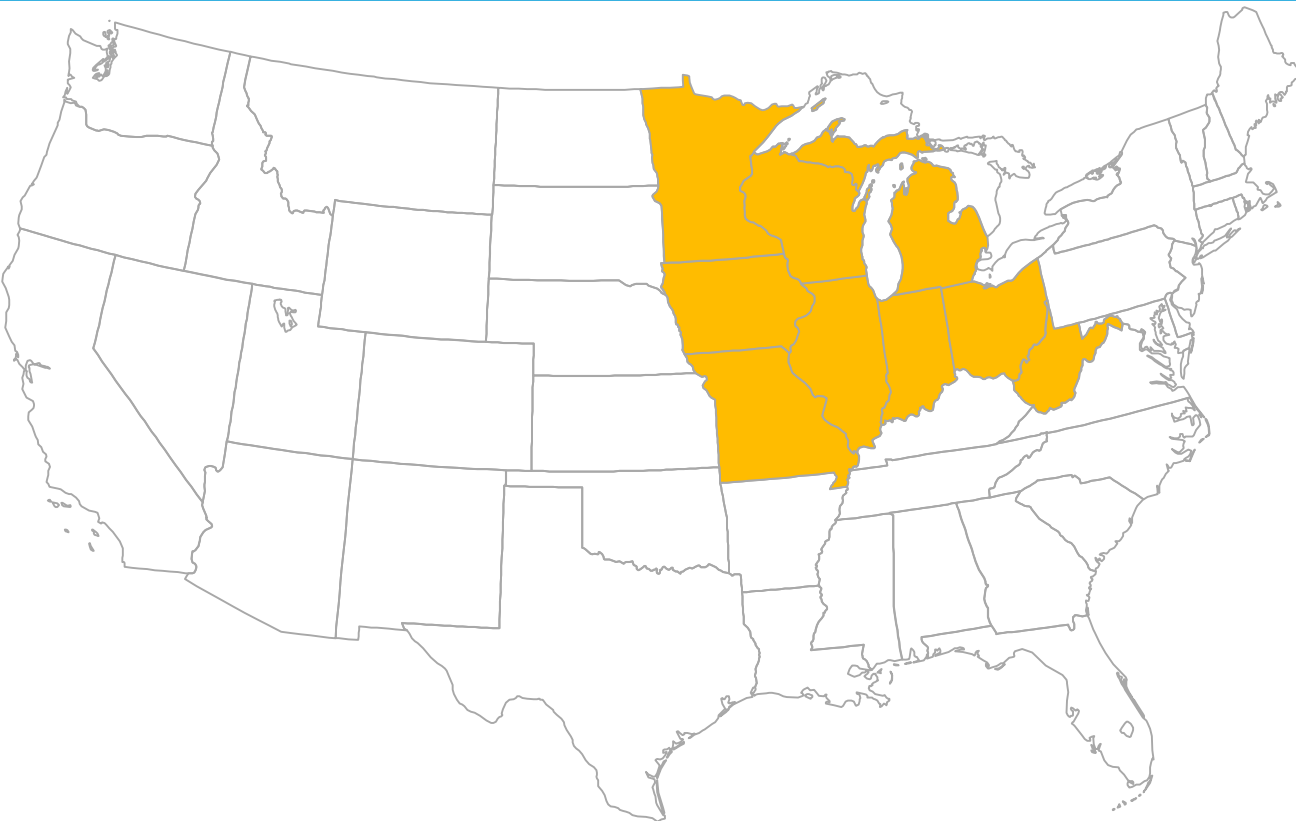
- **Utility-scale procurement:**
 - IRPs
- **Distributed PV adoption:**
 - NEM & regulatory hurdles

Northeast Solar Outlook



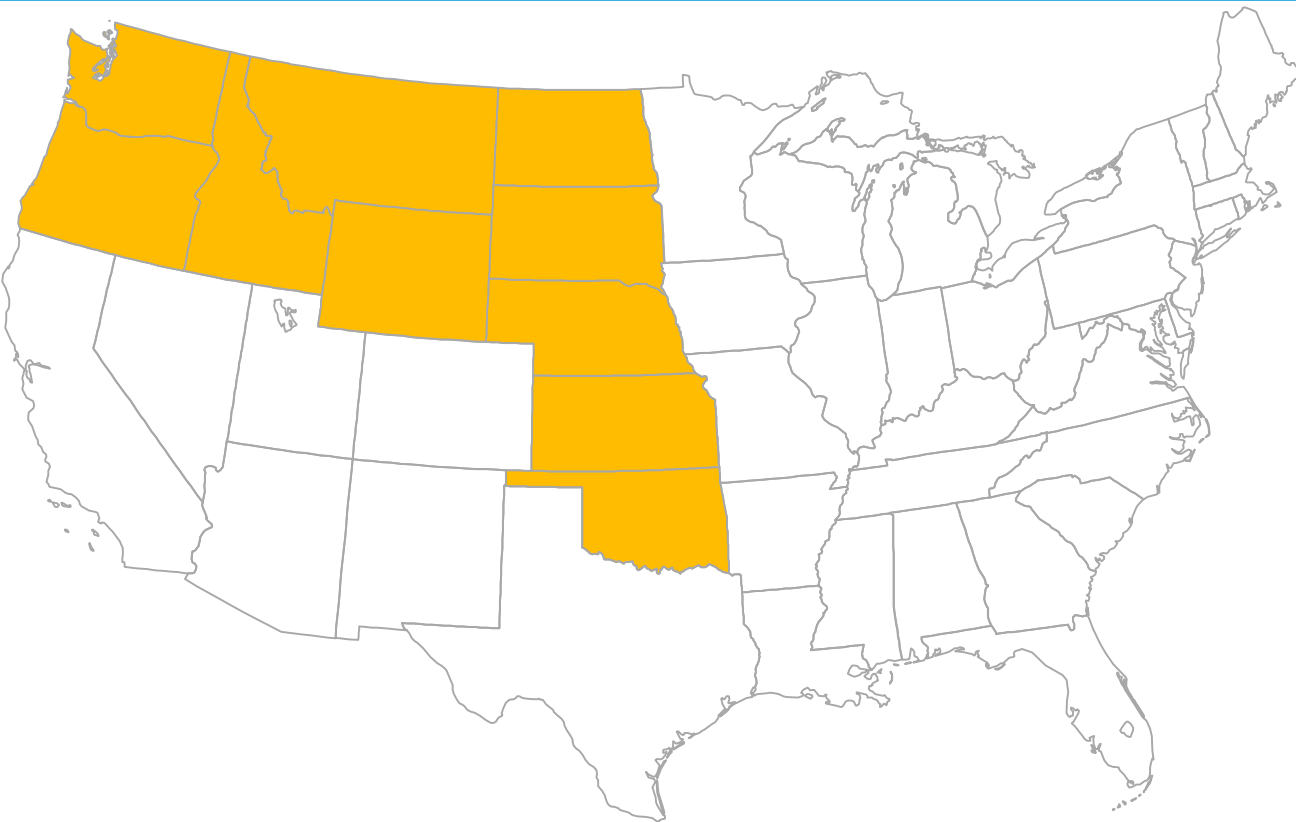
- **Utility-scale procurement:**
 - RPS driven
- **Distributed PV adoption:**
 - Strong DG incentives
 - (NEM, rebates)
 - Third party ownership
 - High retail prices

Midwest Solar Outlook



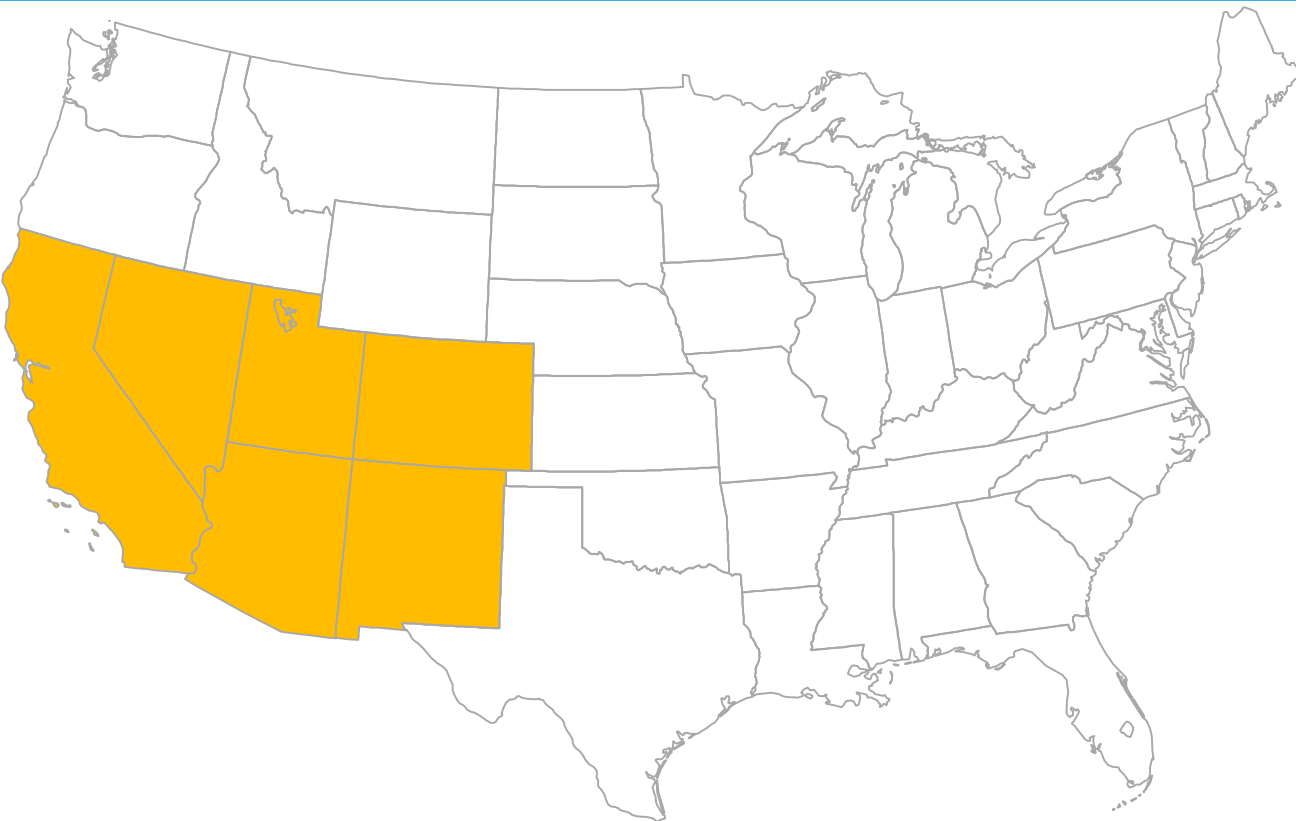
- **Utility-scale procurement:**
 - IRPs & RPS
- **Distributed PV adoption:**
 - DG incentives
 - Third party ownership
 - NEM challenges starting

Plains & PACNW states Solar Outlook



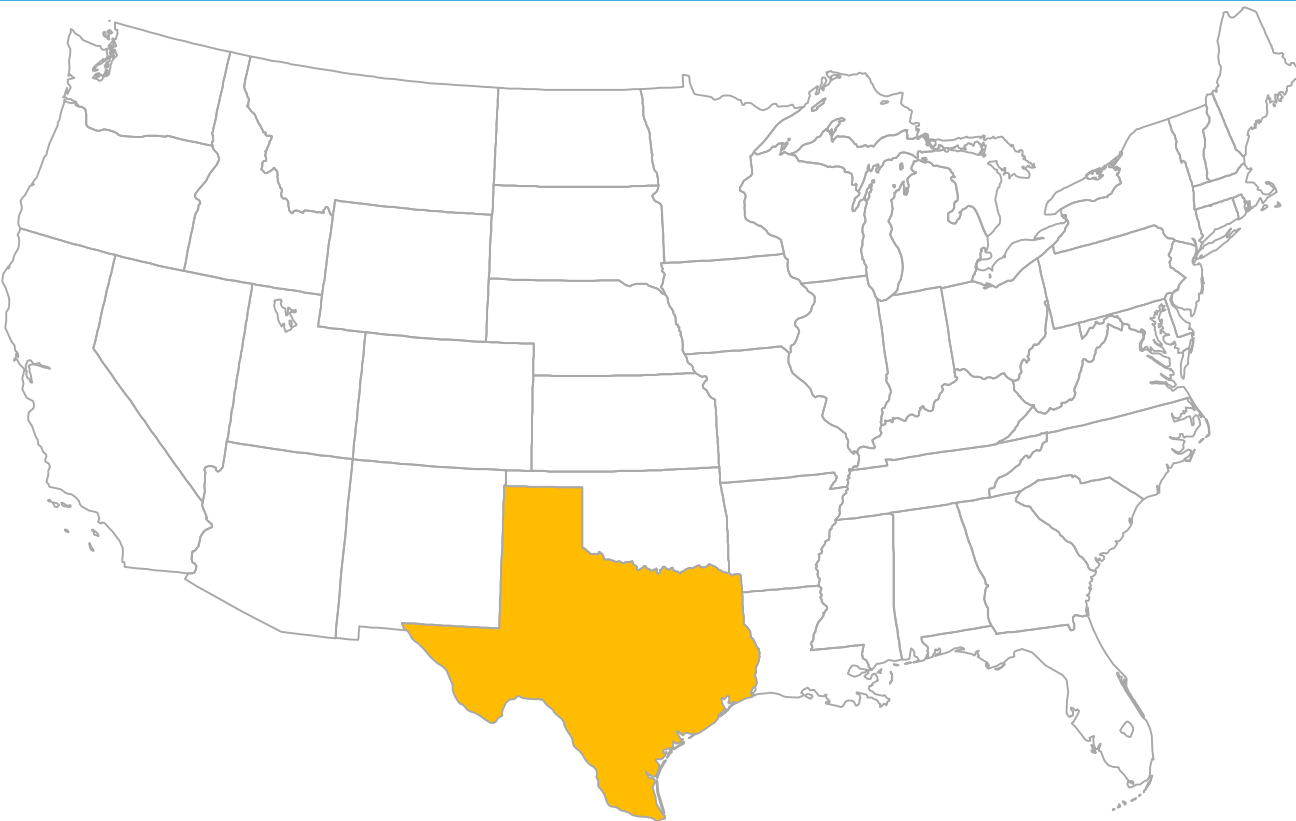
- **Utility-scale procurement:**
 - IRP, C&I
 - Excellent wind resource
- **Distributed PV adoption:**
 - Mixed DG policies
 - Low retail prices

Southwest states Solar Outlook



- **Utility-scale procurement:**
 - RPS, C&I
 - **Distributed PV adoption:**
 - Strong DG incentives
 - Market saturation => NEM challenges

Texas Solar Outlook



- **Utility-scale procurement:**
 - PPAs with generation owners, C&I
- **Distributed PV adoption:**
 - Competitive retailers offer voluntary NEM
 - Minimal DG support outside of San Antonio & Austin