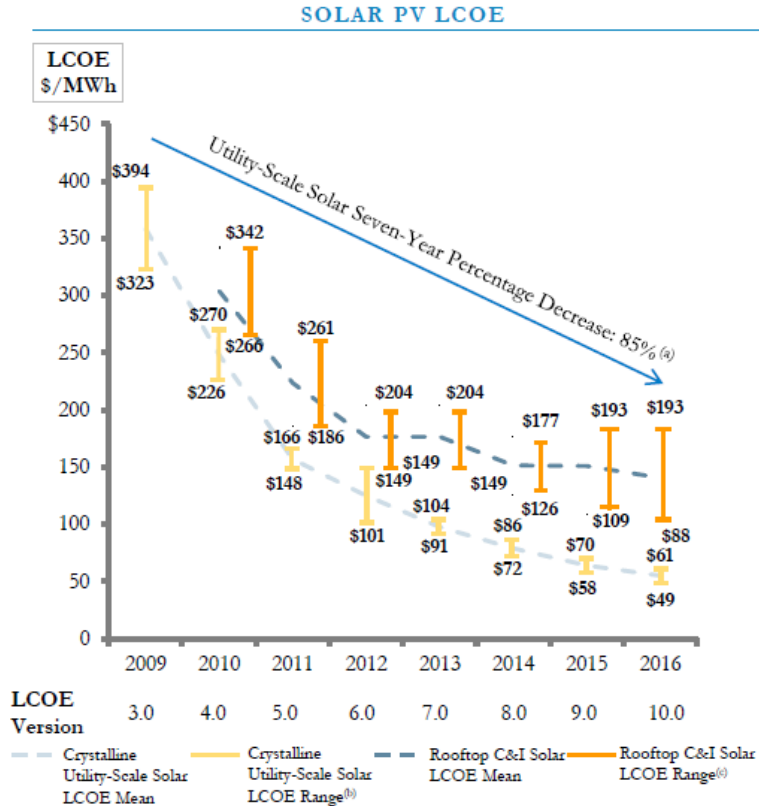




# Power Markets, Regulation, and Utility Scale Solar in the U.S.

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



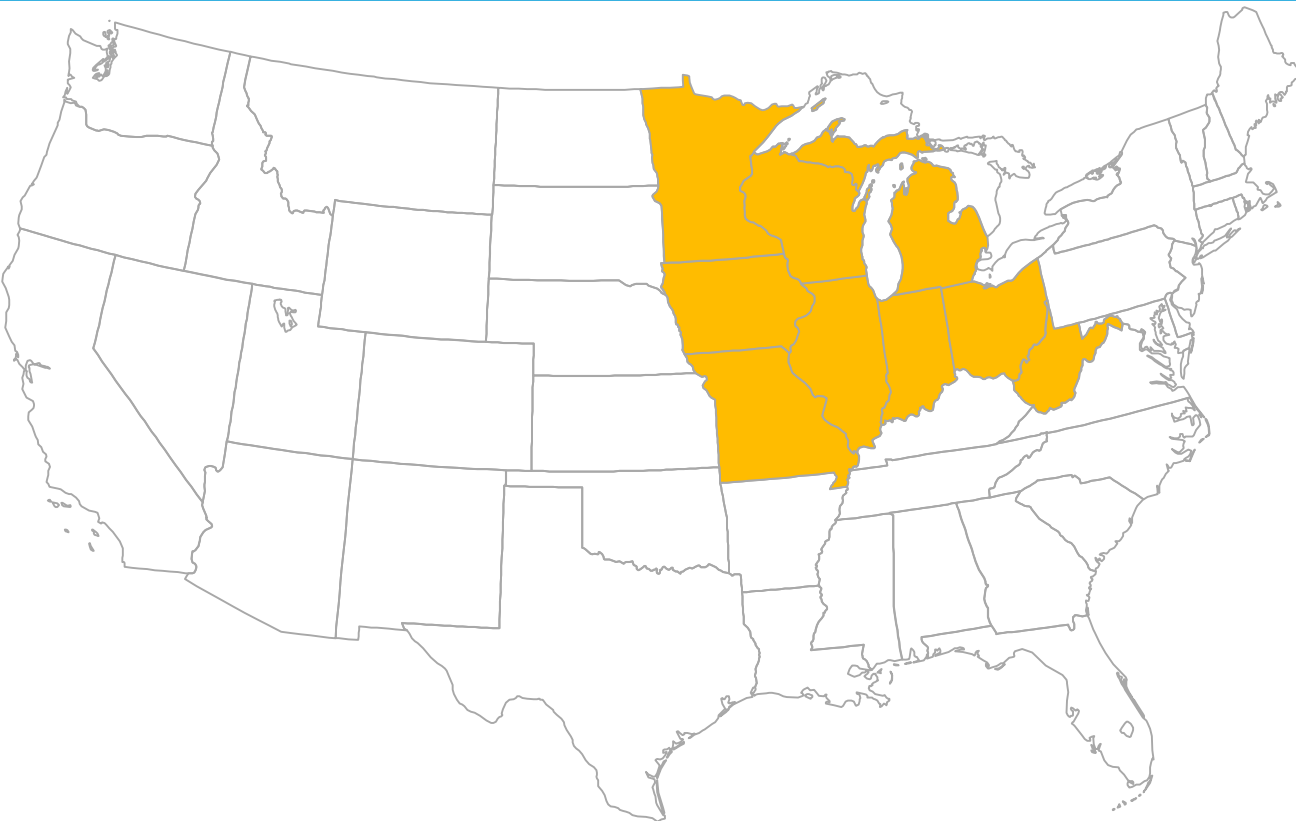
- **Utility-scale procurement:**
  - IRPs
- **Distributed PV adoption:**
  - NEM & regulatory hurdles

# Northeast Solar Outlook



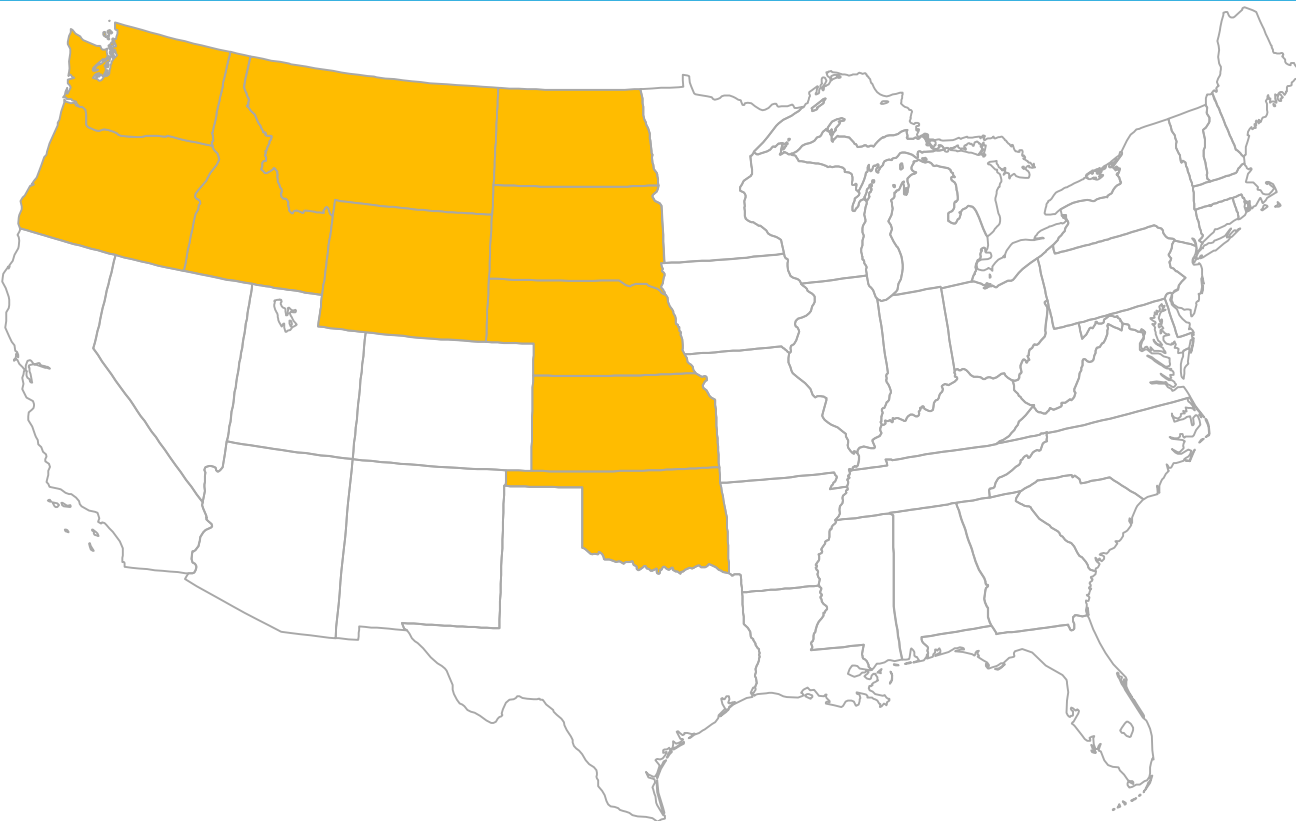
- **Utility-scale procurement:**
  - RPS driven
- **Distributed PV adoption:**
  - Strong DG incentives
    - (NEM, rebates)
  - Third party ownership
  - High retail prices

# Midwest Solar Outlook



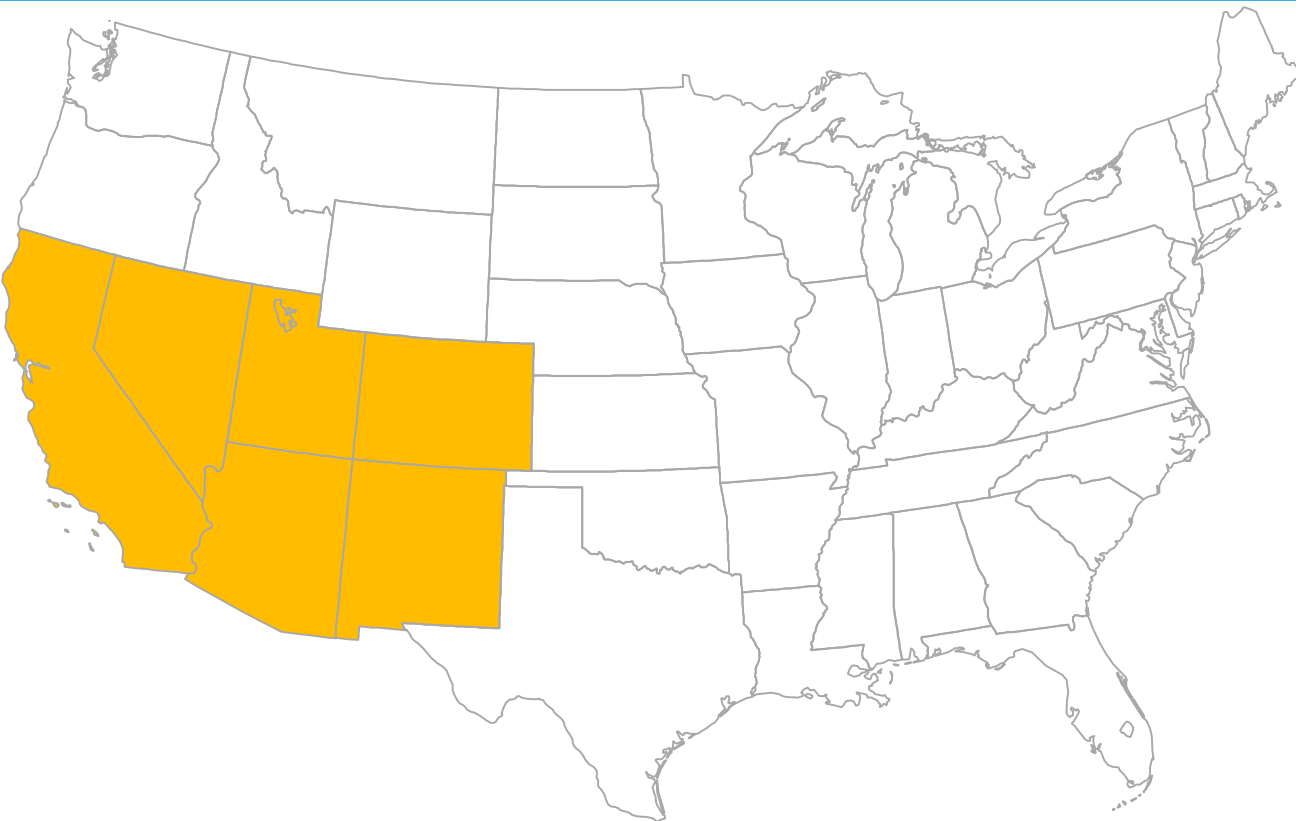
- **Utility-scale procurement:**
  - IRPs & RPS
- **Distributed PV adoption:**
  - DG incentives
  - Third party ownership
  - NEM challenges starting

# Plains & PACNW states Solar Outlook



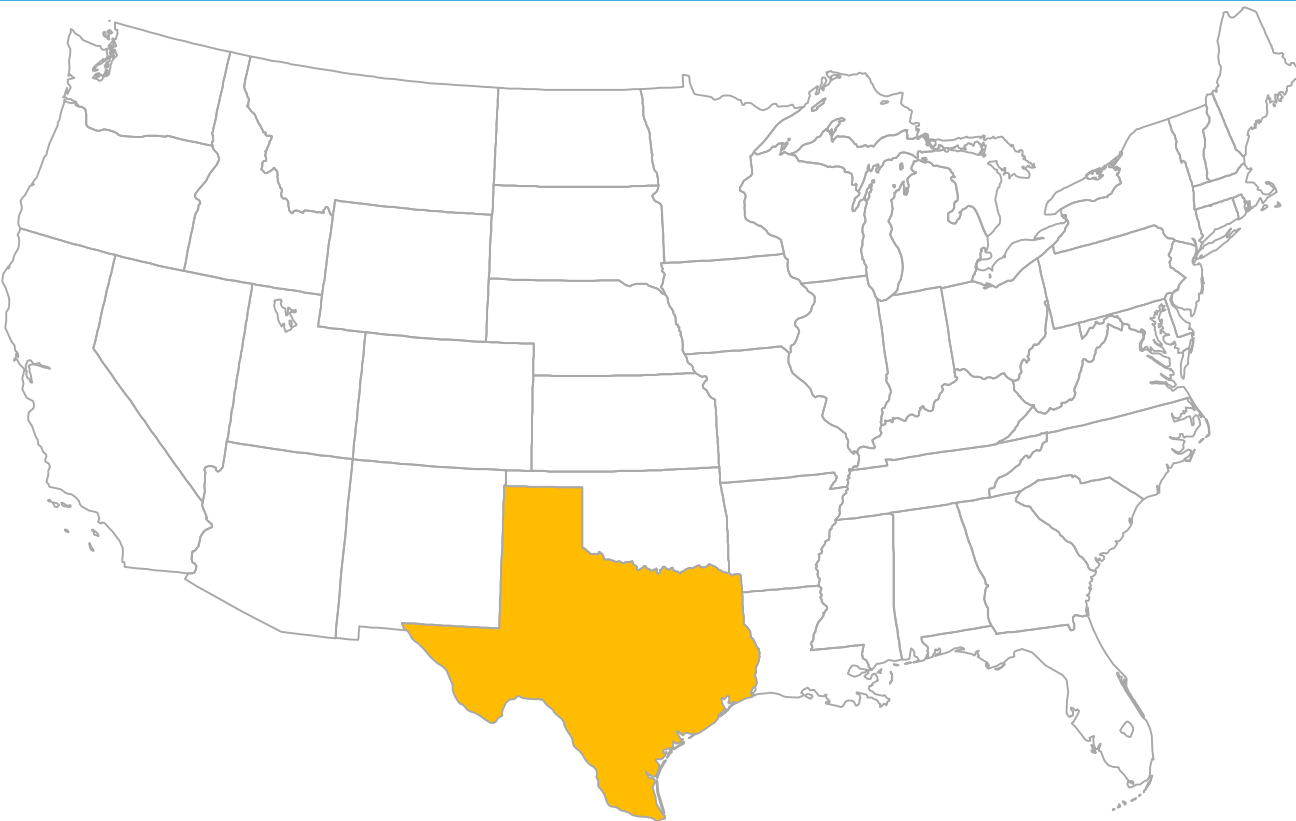
- **Utility-scale procurement:**
  - IRP, C&I
  - Excellent wind resource
- **Distributed PV adoption:**
  - Mixed DG policies
  - Low retail prices

# 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