Who is TASC?

- The only national trade association that focuses solely on defending fundamental DG policies.
- Successful campaigns in over 40 states
- Work alongside advocacy orgs
- Diverse membership; National level firms & local installers
Creating a framework that provides reliable and affordable power; allowing innovation & competition to best serve public interest.
Net Metering
www.dsireusa.org / February 2016

41 States + DC, AS, USVI, & PR have mandatory net metering rules

KEY
- State-developed mandatory rules for certain utilities (41 states + DC + 3 territories)
- No statewide mandatory rules, but some utilities allow net metering (2 states)
- Statewide distributed generation compensation rules other than net metering (4 states + 1 territory)

U.S. Territories:
- AS
- PR
- VI
- GU
Recent Case Studies

- **CO**: Commission maintained NEM
  - 25,000+ NEM customers
  - “fair outcome”

- **CA**: CPUC maintained NEM
  - Signaled future planning
  - Rate design (TOU)

- **AZ**: Commission “paused” on solar-charges
  - Need valuation process
Recent Case Studies:

- **NY**: Reforming the Energy Vision
  - Set aside changes to NEM, encourage pilot projects
Policy in Iowa

- 2016 Leg: NEM, VOST, community solar, incentives
- Distributed Generation “Notice of Inquiry” 2014
  - Order Issued: October 2015
- Rate Design & Pilot Projects: 2016
DG Policy in Iowa

- **IUB Order on DG: No changes needed to NEM in Iowa**
  - Given current status of DG development and NEM more info needed

- **Option 1 Costs & benefit study**
  - But a study would be premature because of relatively low DG penetration levels in Iowa

- **Option 2 Pilot projects to explore/promote DG**
  - Utilities to conduct pilot projects exploring NEM and DG issues.
DG Policy in Iowa

- Pilot projects encouraged to expand renewables
  - March 28, expected filing

- Informal Discussion on Alternative Rate Design
  - IOUs pushing residential demand charges
    - not even used in NV

- Stakeholders encourage study first
### Iowa: Study Costs & Benefits of Solar

#### Maine Value of Solar Study

![Table showing the costs and benefits of solar energy in Maine.](image)

**Figure ES-2. CMP Distributed Value – 25 Year Levelized ($ per kWh)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Gross Value ($/kWh)</th>
<th>Load Match Factor (B)</th>
<th>Loss Savings Factor (1+C)</th>
<th>Distr. PV Value ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoided Energy Cost</td>
<td>$0.076</td>
<td>6.2%</td>
<td></td>
<td>$0.081</td>
</tr>
<tr>
<td>Avoided Gen. Capacity Cost</td>
<td>$0.068</td>
<td>54.4%</td>
<td>9.3%</td>
<td>$0.040</td>
</tr>
<tr>
<td>Avoided Res. Gen. Capacity Cost</td>
<td>$0.009</td>
<td>54.4%</td>
<td>9.3%</td>
<td>$0.005</td>
</tr>
<tr>
<td>Avoided NG Pipeline Cost</td>
<td>($0.005)</td>
<td>6.2%</td>
<td></td>
<td>($0.005)</td>
</tr>
<tr>
<td>Solar Integration Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avoided Trans. Capacity Cost</td>
<td>$0.063</td>
<td>23.9%</td>
<td>9.3%</td>
<td>$0.016</td>
</tr>
<tr>
<td>Avoided Dist. Capacity Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage Regulation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Social Cost of Carbon</td>
<td>$0.020</td>
<td>6.2%</td>
<td></td>
<td>$0.021</td>
</tr>
<tr>
<td>Net Social Cost of SO₂</td>
<td>$0.058</td>
<td>6.2%</td>
<td></td>
<td>$0.062</td>
</tr>
<tr>
<td>Net Social Cost of NOₓ</td>
<td>$0.012</td>
<td>6.2%</td>
<td></td>
<td>$0.013</td>
</tr>
<tr>
<td>Market Price Response</td>
<td>$0.062</td>
<td>6.2%</td>
<td></td>
<td>$0.066</td>
</tr>
<tr>
<td>Avoided Fuel Price Uncertainty</td>
<td>$0.035</td>
<td>6.2%</td>
<td></td>
<td>$0.037</td>
</tr>
</tbody>
</table>

**Avoided Market Costs:** $0.138

**Societal Benefits:** $0.199

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**The Alliance for Solar Choice**
Iowa: Study Costs & Benefits of Solar

Figure ES-1: Retail Electricity Rates and the Values of Solar Energy in 11 Cost-Benefit Analyses.
Iowa: Study Costs & Benefits of Solar

PV Valuation Methodology
Recommendations for Regulated Utilities in Iowa

February 26, 2016

Prepared for:
Midwest Renewable Energy Association

Prepared by:
Ben Norris, Clean Power Research
Thank You!

- Engage in DG proceeding, engage customers
  - ISETA, IEC, ELPC, TASC
  - Encourage data-driven approach
- Host tours, solar social events

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