ASA MARKET UPDATE ROUND TABLE
RENEWABLE ENERGY

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TARIFFS / EXPIRING GRANTS / PPA PRICES?
WHICH IS WORSE?

• TARIFFS ON:
  • STEEL
    • STRUCTURAL RACKS ON PV PROJECTS
    • TOWERS FOR WIND PROJECTS
  • ALUMINUM
    • COMPONENTS FOR WIND AND PV PROJECTS
• PV MODULES
  • IMPORTED MODULES WOULD BE SUBJECT TO A TARIFF
## Expiring ITC / PTC Grants

### Table 1: Phase Down Schedule of ITC

<table>
<thead>
<tr>
<th>Type of Energy Property</th>
<th>Date Construction Begins</th>
<th>Placed in Service Date</th>
<th>ITC Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>Before 1/1/2020</td>
<td>Before 1/1/2024</td>
<td>30%</td>
</tr>
<tr>
<td></td>
<td>1/1/2020 – 12/31/21</td>
<td>Before 1/1/2024</td>
<td>26%</td>
</tr>
<tr>
<td></td>
<td>1/1/2021 – 13/31/2021</td>
<td>Before 1/1/2024</td>
<td>22%</td>
</tr>
<tr>
<td></td>
<td>Before 1/1/2022</td>
<td>On or After 1/1/2024</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td>On or After 1/1/2022</td>
<td>Any</td>
<td>10%</td>
</tr>
</tbody>
</table>

### Table 2: Phase Down Schedule of PTC

<table>
<thead>
<tr>
<th>Year</th>
<th>ITC Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>60%</td>
</tr>
<tr>
<td>2019</td>
<td>40%</td>
</tr>
</tbody>
</table>

Expires in 2020
U.S. Wind Prices Have Fallen Sharply
Average levelized wind PPA price (2016 dollars)

Source: Dept. of Energy/Lawrence Berkeley National Lab
Solar PPA Prices Hit New Lows

- PV (7,234 MW, 100 contracts)
- CPV (35 MW, 2 contracts)
- Mix of PV/CPV (7 MW, 1 contract)
- CSP (1,342 MW, 5 contracts)