China’s key role in scaling low carbon energy technologies

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China is the global leader in the mass production of low carbon energy technologies

<table>
<thead>
<tr>
<th>Technology</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar Panels:</td>
<td>From 1% to 40% (2001-2018)</td>
</tr>
<tr>
<td>Wind Turbines:</td>
<td>1/3 of global supply</td>
</tr>
<tr>
<td>Electric Vehicles:</td>
<td>53% of global sales in 2018</td>
</tr>
<tr>
<td>Lithium-ion Batteries:</td>
<td>76% of global production by 2025</td>
</tr>
<tr>
<td>Nuclear Reactors:</td>
<td>From 45 to 88 plants by 2030</td>
</tr>
</tbody>
</table>
US & China have complementary capabilities in low-carbon energy tech
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US is global leader in *Invention*

**USPTO Patents in Clean Energy Technologies**

- **USA**
- **Japan**
- **ROW**
- **EU**
- **China**

Data Source: 2018 U.S. National Science Foundation Science & Engineering Indicators
US & China have complementary capabilities in low-carbon energy tech

**US is global leader in Invention**

**China is global leader in Commercialization**

*Graphs showing USPTO Patents in Clean Energy Technologies and New Investment in Clean Energy.*

Data Source: 2018 U.S. National Science Foundation Science & Engineering Indicators

Data Source: Bloomberg New Energy Finance
Thanks!

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Link to charts:
https://github.com/jhelvy/charts