PV Module Price, 2009$

Source: Navigant & Robert Margolis, NREL
SunShot:
Advances required in all PV system components

Utility System with SunShot $1/W Goal

2010
- Power Electronics: $0.22
- BOS/Installation: $1.48
- Module: $1.70
- Total: $3.40

2016
- Power Electronics: $0.18
- BOS/Installation: $0.97
- Module: $1.05
- Total: $2.20

$1/Watt
- Power Electronics: $0.10
- BOS/Installation: $0.40
- Module: $0.50
- Total: $1.00

Estimates do not include the cost of land, Hardware costs include power electronics and mounting, Soft Costs includes permitting.
Concentrating Solar Thermal Power

**Filters:**
Transmission >6.75kWh/m²d
Environment X
Land Use X
Slope < 1%

**Direct-Normal Solar Resource for the Southwest U.S.**

<table>
<thead>
<tr>
<th>State</th>
<th>Land Area (mi²)</th>
<th>Solar Capacity (MW)</th>
<th>Solar Generation Capacity (GWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ</td>
<td>13,613</td>
<td>1,742,461</td>
<td>4,121,266</td>
</tr>
<tr>
<td>CA</td>
<td>6,278</td>
<td>803,647</td>
<td>1,900,786</td>
</tr>
<tr>
<td>CO</td>
<td>6,232</td>
<td>797,758</td>
<td>1,886,858</td>
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<tr>
<td>NV</td>
<td>11,090</td>
<td>1,419,480</td>
<td>3,357,355</td>
</tr>
<tr>
<td>NM</td>
<td>20,356</td>
<td>2,605,585</td>
<td>6,162,729</td>
</tr>
<tr>
<td>TX</td>
<td>6,374</td>
<td>815,880</td>
<td>1,929,719</td>
</tr>
<tr>
<td>UT</td>
<td>23,288</td>
<td>2,980,823</td>
<td>7,050,242</td>
</tr>
<tr>
<td>Total</td>
<td>87,232</td>
<td><strong>11,165,633</strong></td>
<td><strong>26,408,956</strong></td>
</tr>
</tbody>
</table>

*Map and table courtesy of NREL*
SunShot Vision Study

2050 PV Capacity: 632 GW

2050 CSP Capacity: 83 GW

Hourly Dispatch
Four Summer Days (2050 Simulation)

http://www1.eere.energy.gov/solar/sunshot/vision_study.html