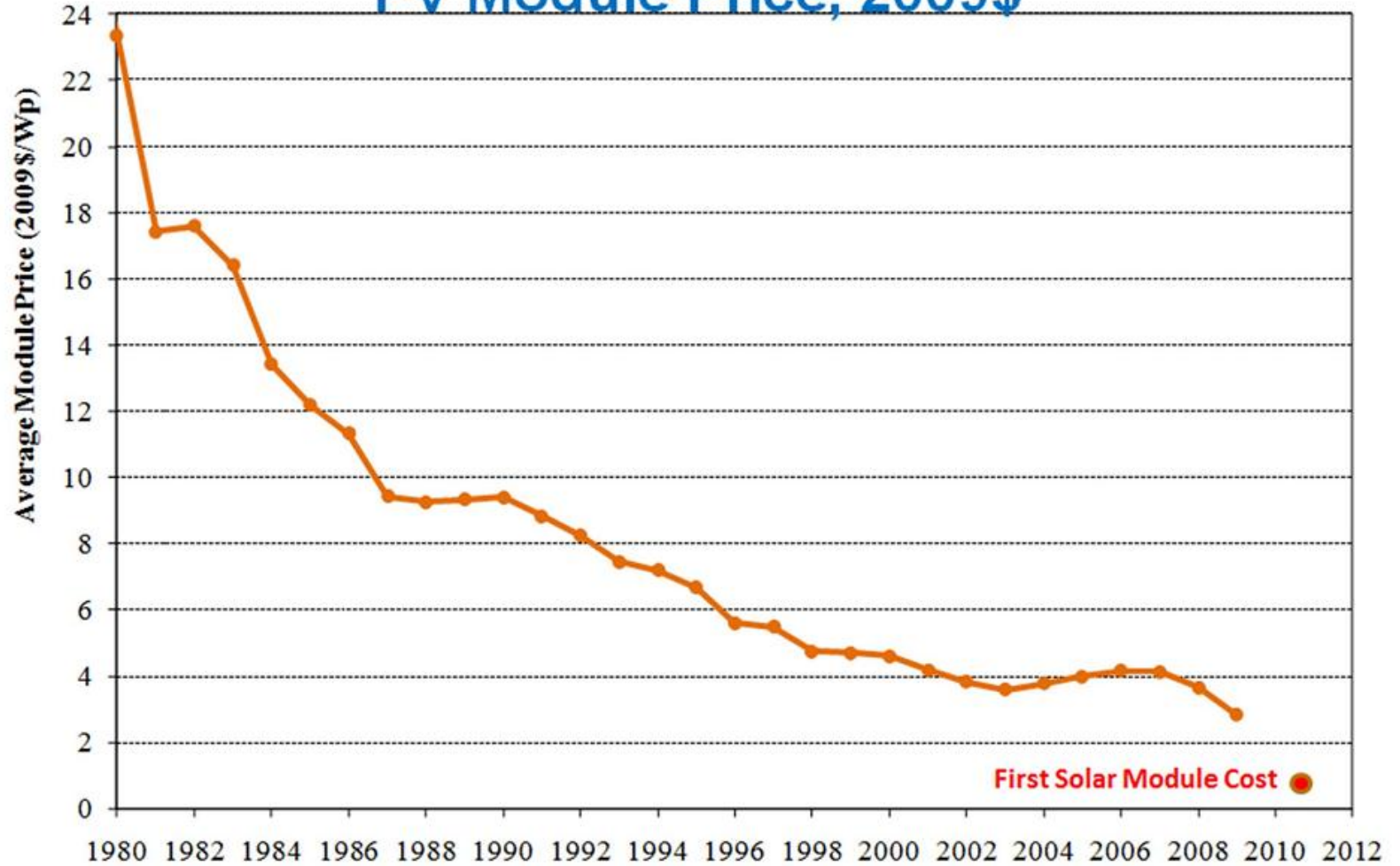


PV Module Price, 2009\$

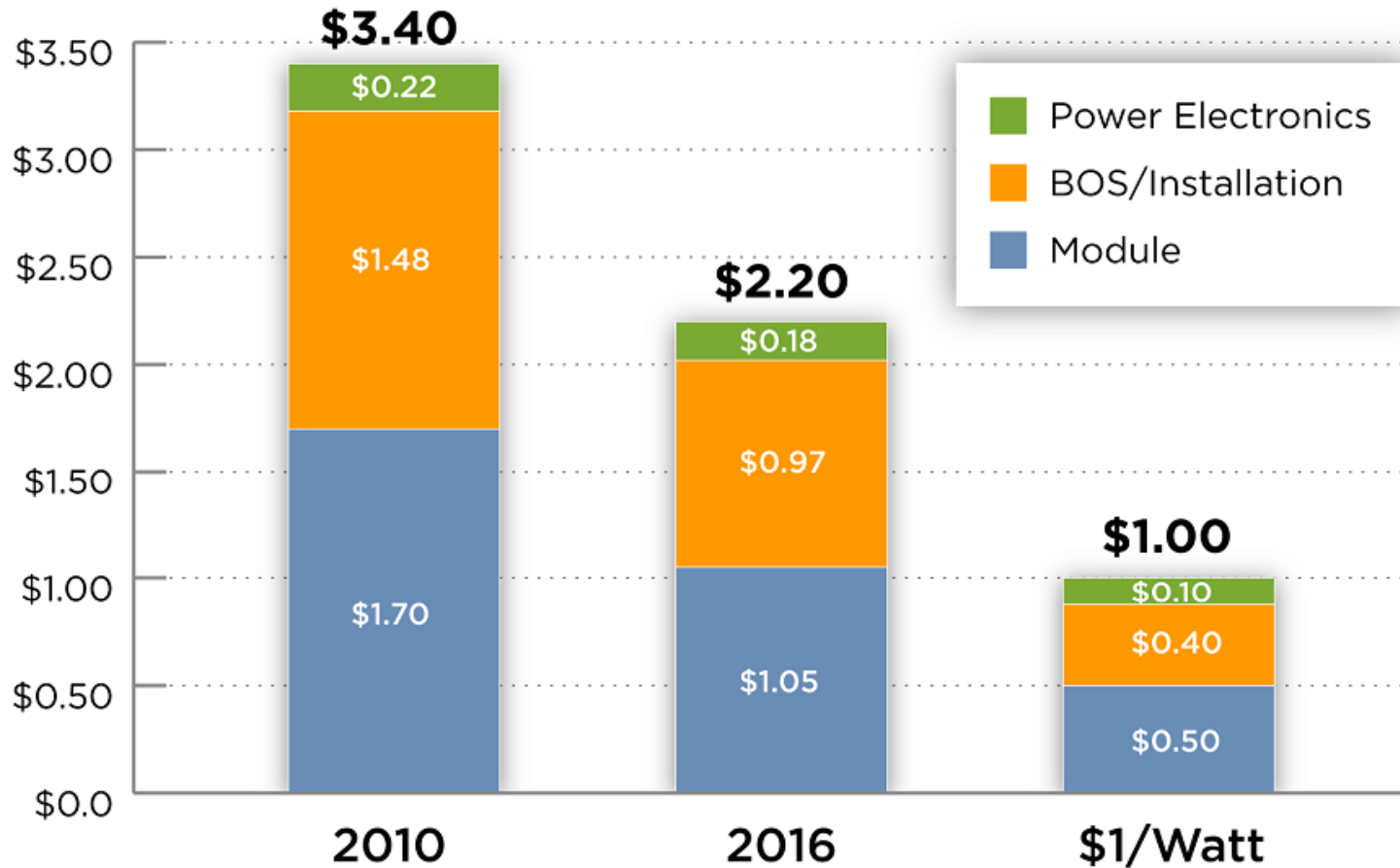


Source: Navigant & Robert Margolis, NREL

SunShot:

Advances required in all PV system components

Utility System with SunShot \$1/W Goal

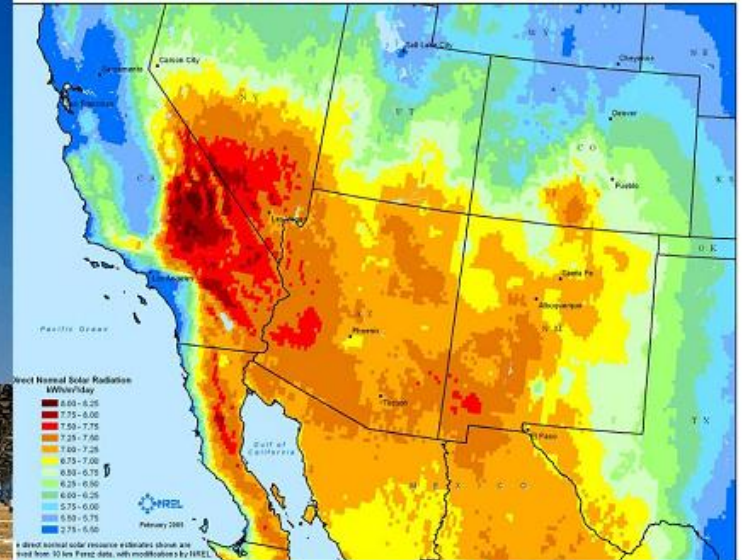


Estimates do not include the cost of land, Hardware costs include power electronics and mounting, Soft Costs includes permitting,

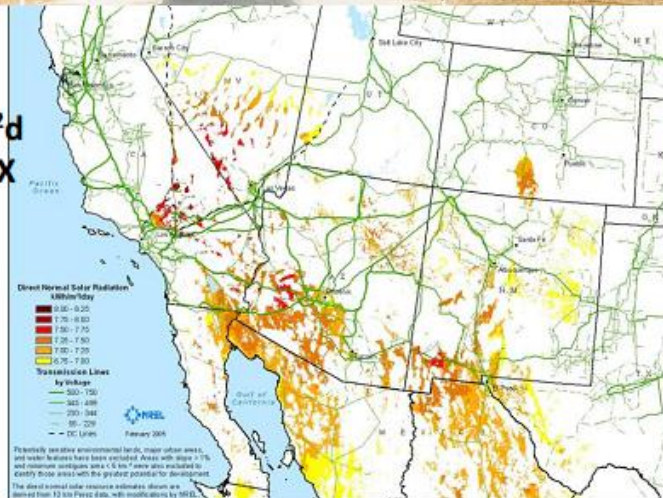
Concentrating Solar Thermal Power



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



Filters:
 Transmission
 $>6.75\text{kWh/m}^2\text{d}$
 Environment X
 Land Use X
 Slope $< 1\%$

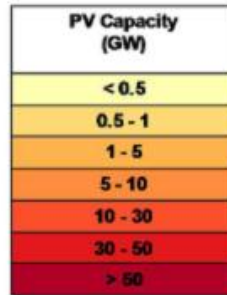


Map and table
courtesy of NREL

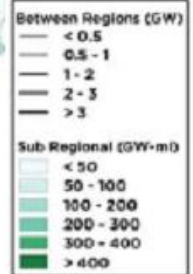
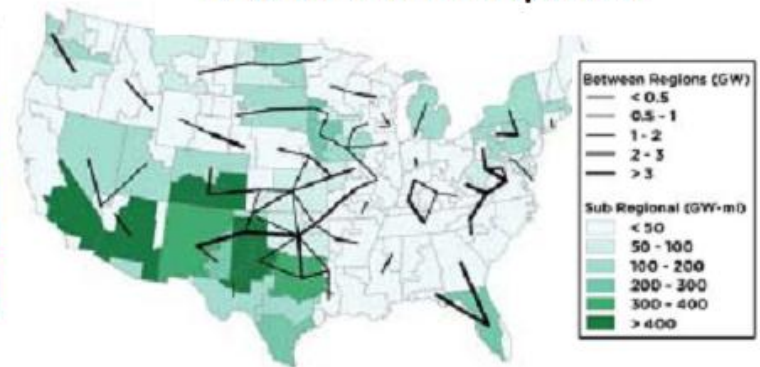
State	Land Area (mi ²)	Solar Capacity (MW)	Solar Generation Capacity (GWh)
AZ	13,613	1,742,461	4,121,268
CA	6,278	803,647	1,900,786
CO	6,232	797,758	1,886,858
NV	11,090	1,419,480	3,357,355
NM	20,356	2,605,585	6,162,729
TX	6,374	815,880	1,929,719
UT	23,288	2,980,823	7,050,242
Total	87,232	11,165,633	26,408,956

SunShot Vision Study

2050 PV Capacity: 632 GW



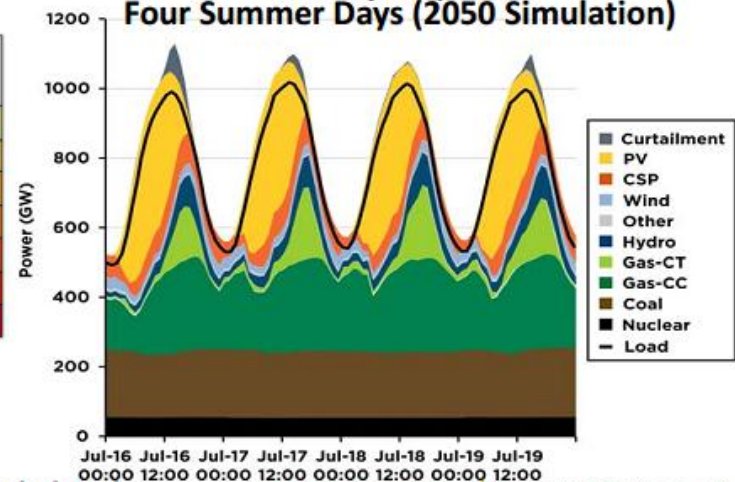
2050 Transmission Expansion



2050 CSP Capacity: 83 GW



Hourly Dispatch Four Summer Days (2050 Simulation)



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