TEXAS SOLAR POWER
ASSOCIATION

THE TEXAS SOLAR POWER ASSOCIATION (TSPA) is a statewide industry trade association that promotes the development of solar electric generation in Texas. Our member companies invest in the development of solar photovoltaic (PV) products and projects in Texas, cost-competitively serving customers in both wholesale and retail markets.

THE TEXAS SOLAR INDUSTRY

From residential and commercial rooftop installations to large-scale power plants, solar power is making an impact for Texans by saving money, diversifying the supply base, and reducing water consumption. And we're just getting started.

We've always had a lot of sunshine in Texas – now we have proven technology turning that sunshine into cost-competitive electricity and a host of unique benefits. Solar is a reliable, plentiful, Texas-based energy resource that uses minimal water, generates on peak, and most importantly: **it is cost-competitive**.

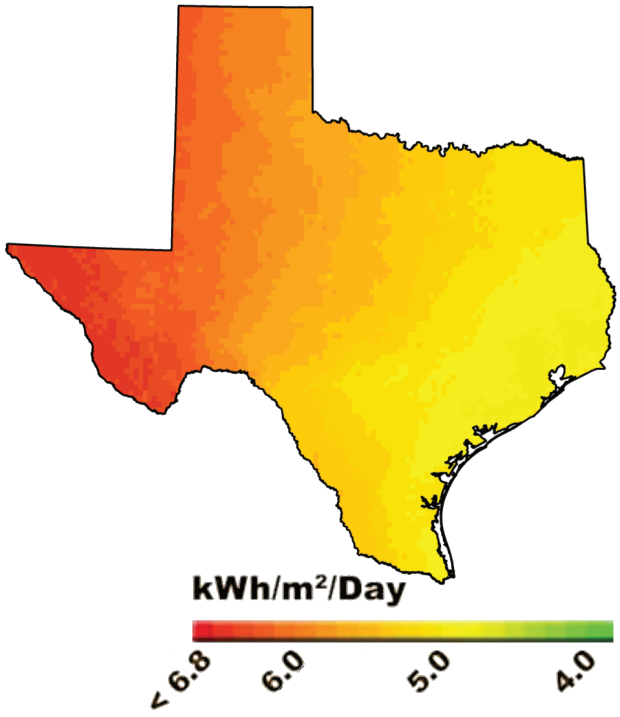
WHY SOLAR FOR TEXAS

Texas Has:

- ★ The largest solar resource in the U.S.
- ★ The largest electricity demand in the U.S.
- ★ Peak energy needs
- ★ Persistent drought
- ★ A growing population

Solar Power Offers:

- ★ Cost-competitive peaking electric supply
- ★ Long-term price certainty
- ★ Electricity portfolio diversity
- ★ Economic development and job growth
- ★ Minimal water use
- ★ Opportunity for self-generation and added energy security



Source: National Renewable Energy Laboratory

Solar Is A Great Match For Texas And A Tremendous Growth Opportunity

Photo courtesy of CPS Energy

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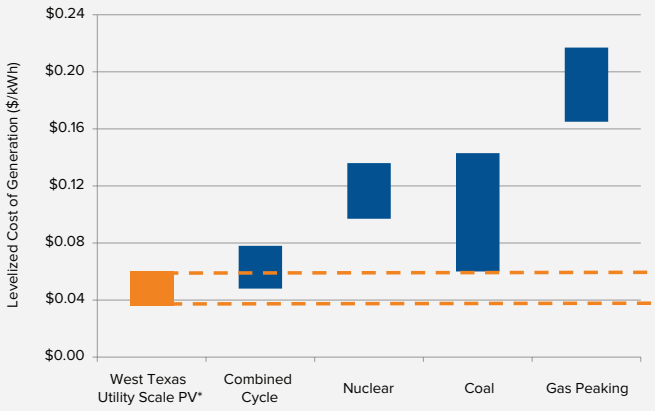
SOLAR IS COST-COMPETITIVE

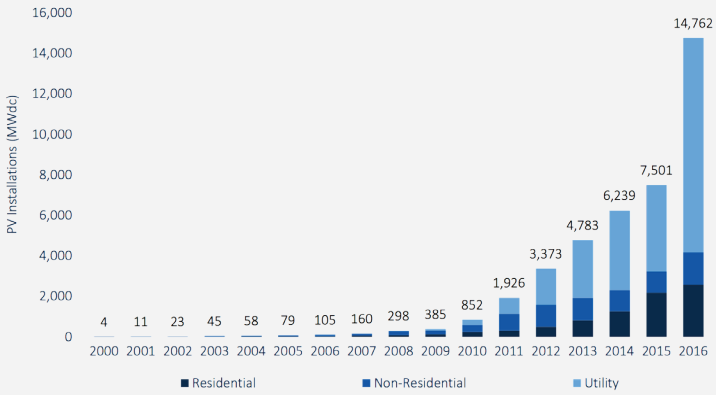
The cost of solar-generated electricity has fallen by 85% since 2009 due to a combination of factors that include technology improvements, financing innovations, and general economies of scale.[1] Over the next 5 years, Texas is expected to install more than 4,600 MW of solar electric capacity, second only to California over that time span[2]

Cost Comparison of New Peaking Resources



*TSPA estimate.
All others: Lazard Levelized Cost of Energy, Version 10.0.

Annual U.S. Solar PV Installations 2000-2016



Solar power across the U.S. has grown exponentially since 2000.
Source: GTM Research/SEIA U.S. Solar Market Insight

Solar by the Numbers

- ★ 85% drop in cost of solar electricity from 2009-2016[1]
- ★ $915 million invested for solar projects in Texas in 2016, with more than $2.2 billion invested to date[2]
- ★ 663 MW of solar capacity installed in Texas in 2016[3]
- ★ 1,228 MW of solar capacity installed through March 2017 (U.S. rank = 9th)[3]
- ★ 21,974 MW of solar in ERCOT queue for grid interconnection[4]
- ★ 20,200 MW of utility-scale solar to come online in ERCOT by 2031 under business as usual conditions[5]
- ★ 3,500 MW of rooftop solar to come online in ERCOT by 2031 under business as usual conditions[5]
- ★ 9,396 Texas solar industry jobs through November 2016[6]
- ★ 260,077 U.S. solar industry jobs through November 2016[6]

Photo courtesy of OCI Solar Power

[1]Source: Lazard Levelized Cost of Energy, Version 10.0; [2]Source: SEIA Solar Spotlight: Texas, June 2017; [3]Source: GTM Research/SEIA: U.S. Solar Market Insight®; [4]Source: ERCOT, July 2017; [5]Source: ERCOT Long Term System Assessment 2016; [6]Source: The Solar Foundation: National Solar Jobs Census 2016

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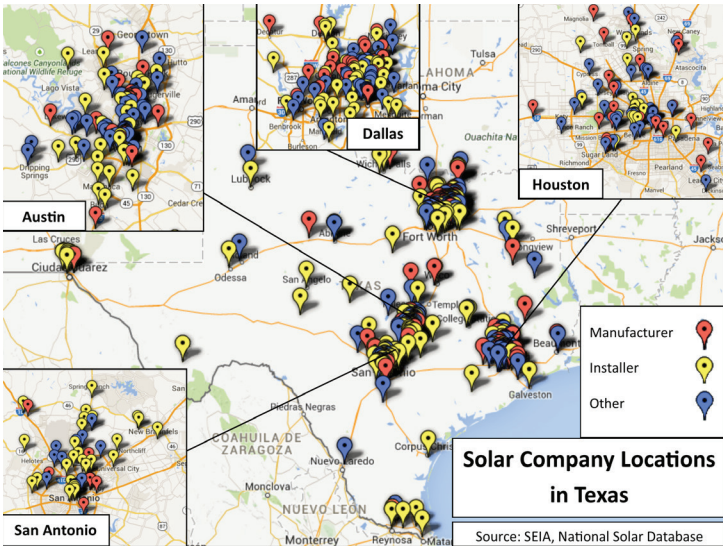
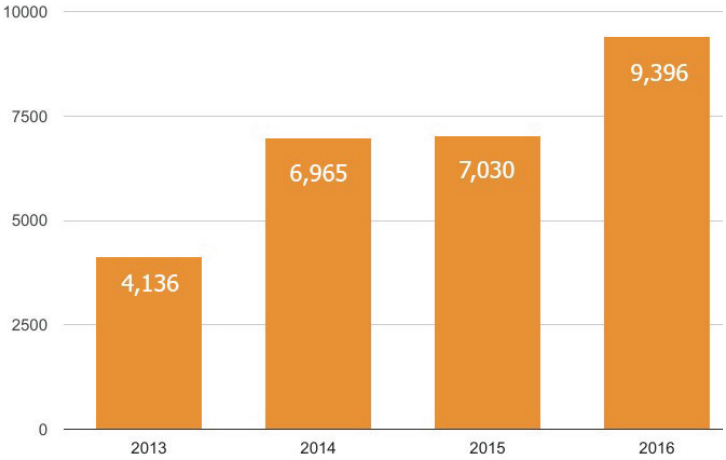
TEXAS SOLAR JOBS

There are already more than 9,000 solar jobs in the State, up 34% in the past year, producing $4.7 billion in total economic activity.[1,2]



TX Solar Jobs, 2013-2016[1]



Employees spending at least 50% of their time on solar-related work

TEXAS SOLAR JOBS
Top Solar Job Districts[3]

Senate

District	# of Jobs
25 (Sen. Campbell)	1,063
5 (Sen. Schwertner)	941
17 (Sen. Huffman)	739
14 (Sen. Watson)	695
19 (Sen. Uresti)	634

House

District	# of Jobs
121 (Rep. Straus)	948
134 (Rep. S. Davis)	874
48 (Rep. Howard)	525
47 (Rep. Workman)	489
120 (Rep. Gervin-Hawkins)	366

Additionally, over 6,000 part-time and supply chain workers are supporting solar in Texas: traditional industries such as construction and electrical product manufacturing are now adding new solar revenue streams to existing business lines.

Photo courtesy of OCI Solar Power

[1]The Solar Foundation: National Solar Jobs Census 2016; [2]*Solar Jobs Census - 2016 Economic Impact Analysis*, The Solar Foundation; [3]Solar Jobs Map 2016, The Solar Foundation, http://SolarStates.org

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POLICY PRIORITIES

TSPA policy priorities are organized around the key principles of:

★ Continued advancement of technology neutral markets and customer choice

★ Fair market rules that do not discriminate against specific technologies

TSPA MEMBERS

TSPA membership includes manufacturers, large-scale power plant developers, residential and commercial rooftop integrators, and other companies in Texas participating across the full solar photovoltaic supply chain.

AlsoEnergy beyond measure
Alternatex Energy Solutions That Make Sense
BLATTNER ENERGY
CED GREENTECH
CSW CONTRACTORS, INC.
e·on
8minutenergy RENEWABLES
Highfield energy
FREEDOM SOLAR POWER
Hecate Energy
First Solar
Invenergy
Lighthousesolar
MISSION SOLAR ENERGY
Mortenson construction
NATIVE
OCI solar power
PowerFin Partners
RECURRENT ENERGY A subsidiary of Canadian Solar
RP CONSTRUCTION SERVICES
7X.energy SOLAR EVOLVED
solairedirect The energy that changes it all
SolarCity
solaredge
SunChasePower
Sunfinity SOLAR
sunnova
SUNPOWER

Photo courtesy of Pecan Street, Inc.