

The US Residential Solar Power Market: Size, Trends & Forecasts (2018-2022)

April 2018



The US Residential Solar Power Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

The US Market Analysis

Dynamics

Competitive Landscape

Company Profiling

The US Residential Solar Power Market: Coverage

Scope of the Report

Attributes	Details
Title	The US Residential Solar Power Market: Size, Trends & Forecasts (2018-2022)
Coverage	The US
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2018-2022
Competition in the Market	Top 3 Players Cover almost 50% of the Market
Key Players	Tesla (SolarCity Corporation), Sunrun Inc., Vivint Solar, Inc. and Sunpower Corporation

The US Residential Solar Power Market

Executive Summary

Solar energy, which is renewable, widely available and clean, provides enough energy to meet the world's annual consumption needs every 50 minutes. There are two major technologies that have been developed to harness the solar energy. Solar power is broadly classified into two: Thermal and Photovoltaic. Thermal power is further categorized into low-temperature solar thermal power and concentrated solar power.

Different types of solar panels serve different needs and purposes. Manufacturers generally use one of three processes to produce solar panels: Monocrystalline, Polycrystalline and Thin Film.

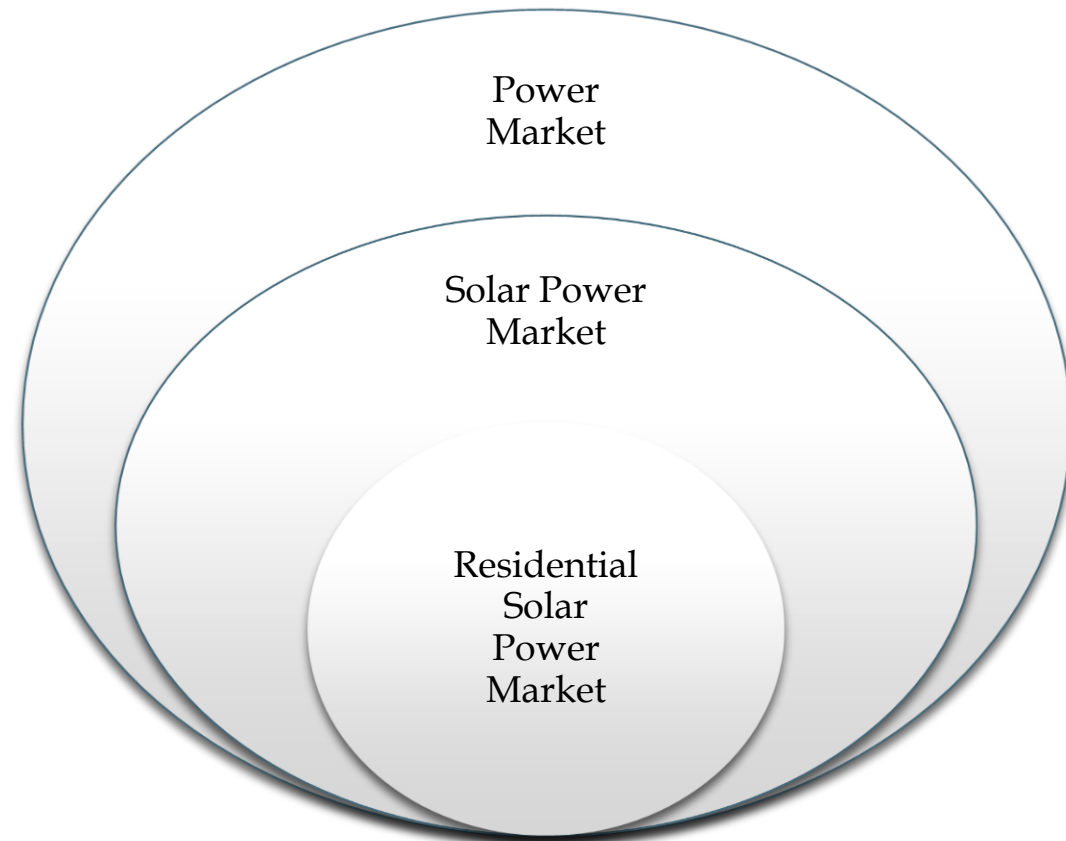
Solar power by end user could be divided into Residential and Commercial or Residential, Non Residential and Utility. There are three main types of residential solar electric power systems: grid inter-tied; grid inter-tied with battery backup; and off-grid. These three broad types vary in how closely connected they are to the traditional power utility infrastructure, known as the grid.

The US residential solar power market has increased at a significant CAGR during the years 2010-2017 and projections are made that the market would rise in the next four years i.e. 2018-2022 tremendously.

The residential solar power market is expected to increase due to declining cost of solar equipment, favourable Federal and state policy, depleting conventional sources, etc. Yet the market faces some challenges such climatic issues associated with solar panels, lack of awareness, etc.

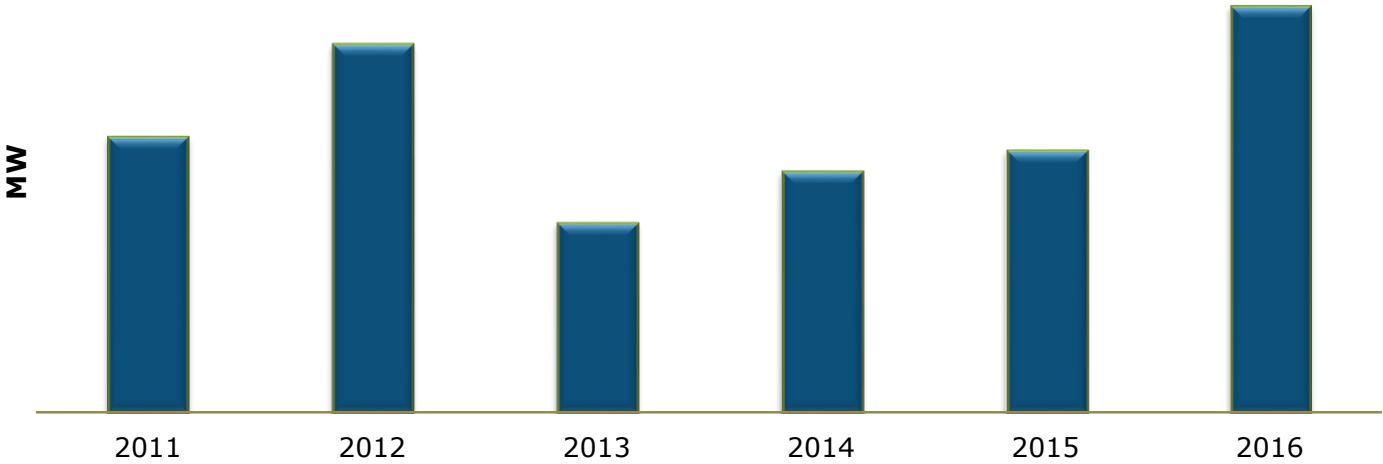
The US Residential Solar Power Market

Market Overview



Power Market: The US Analysis

The US Power Market by Installed Generation Capacity

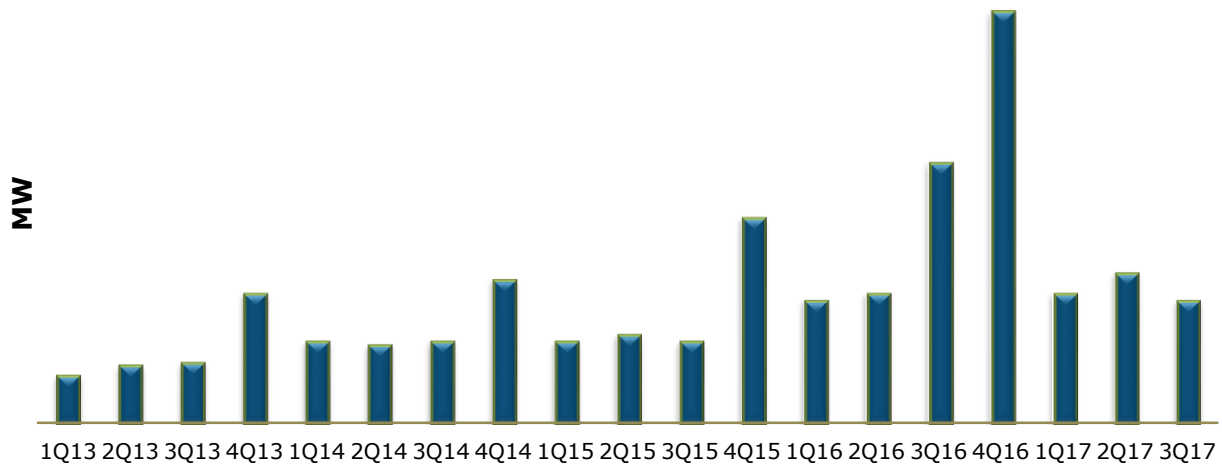


CAGRs	
2012-2016	xx%

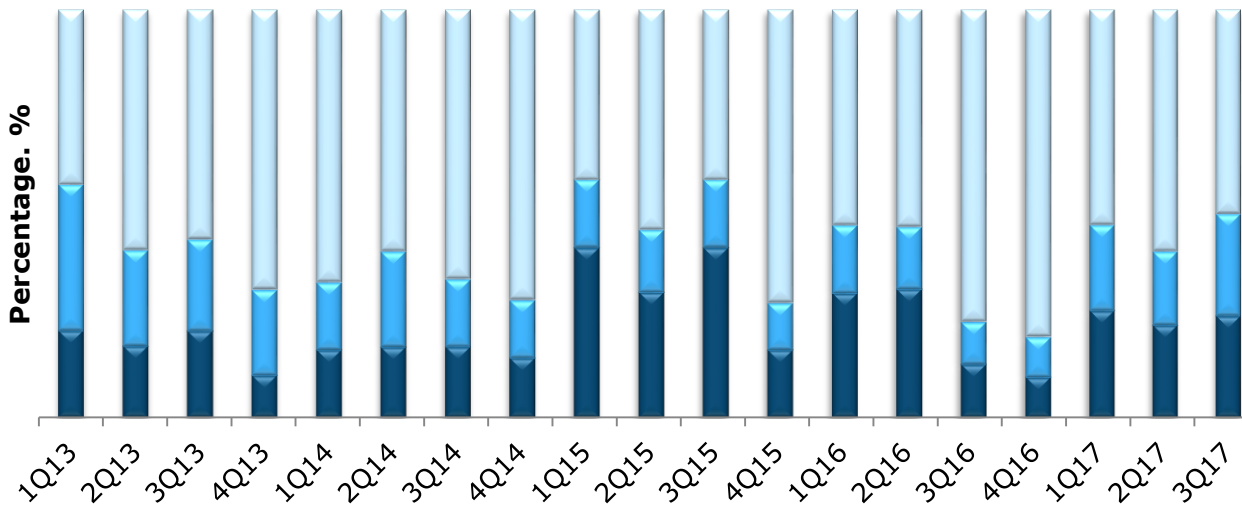
The installed generation capacity of the US power market reached MW in 2016, as compared to MW in 2015. The increase in 2016 was a significant one of% over the previous year. The mix of capacity generation includes,,, etc.

Solar Power Market: The US Analysis

The US Solar Power Market by Installed Generation Capacity



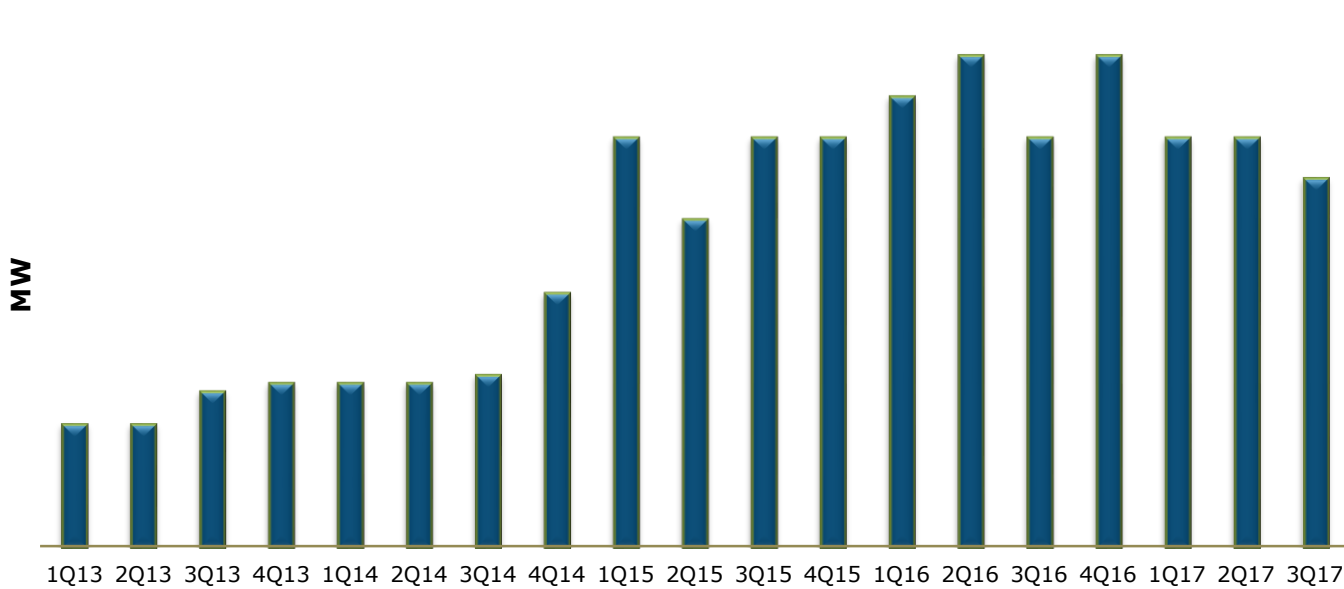
The US Solar Power Market Installed Generation Capacity by Segments



The US solar installed capacity generation reached MW in 3Q17, as compared to MW in 3Q16. When 3 quarters of the year 2017 and 2016 are compared, capacity generation in 2016 was that in 2017. Though by a minute percentage in 2017, solar power is expected ... The solar power market installed capacity generation could be segmented into Solar Residential, and Solar

Residential Solar Power Market: The US Analysis

The US Residential Solar Power Market by Installed Generation Capacity

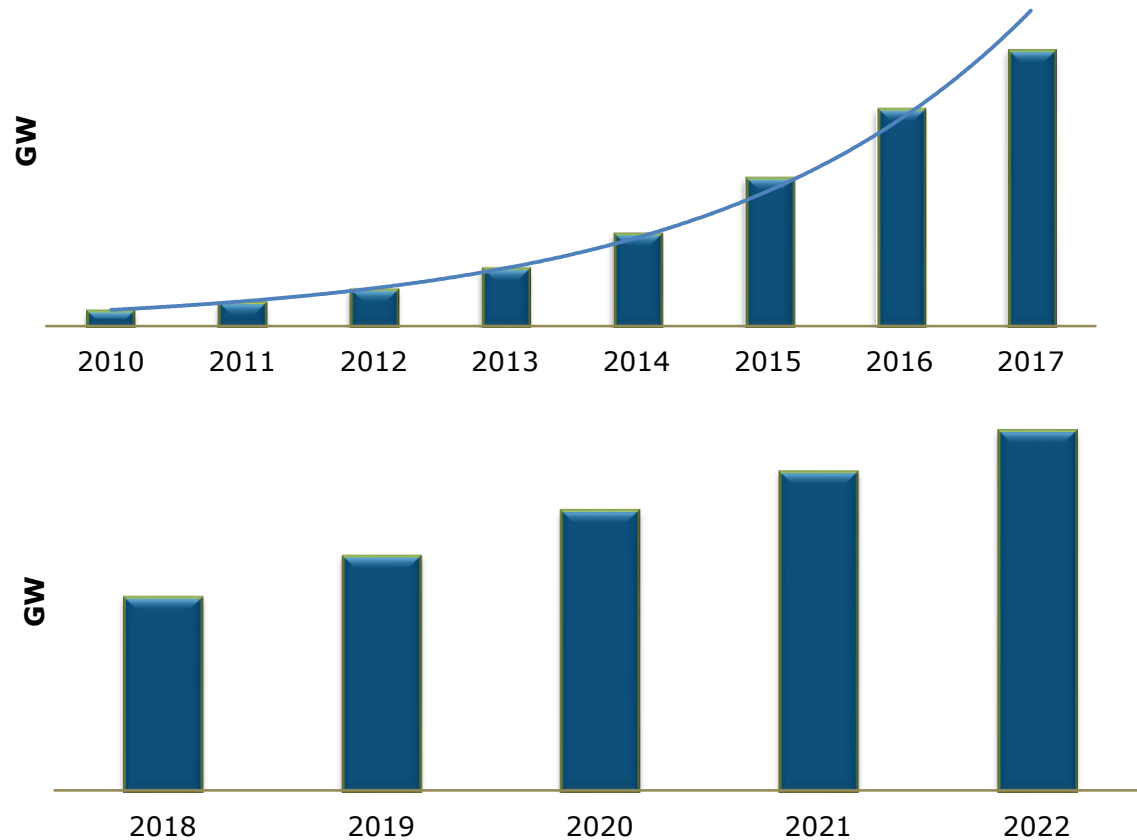


The US Residential Solar Power Market by Penetration in Total Cumulative Installed Generation Capacity

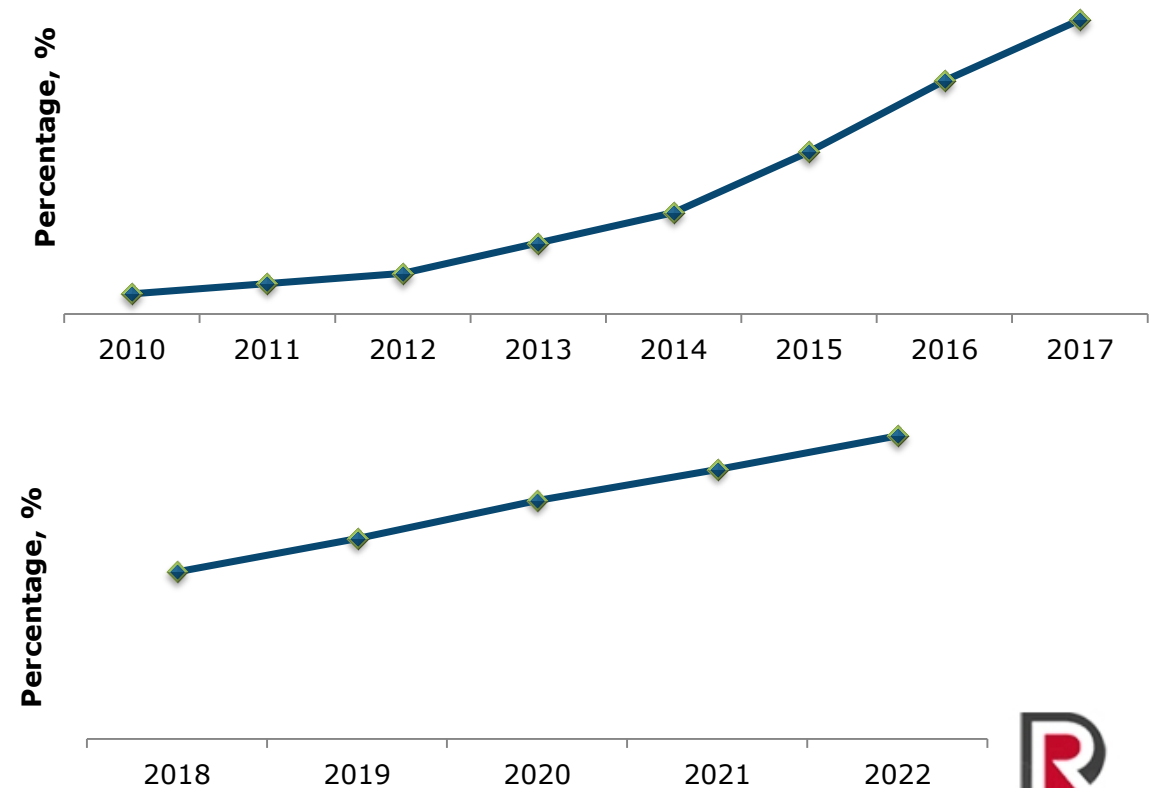


Residential Solar Power Market: The US Analysis

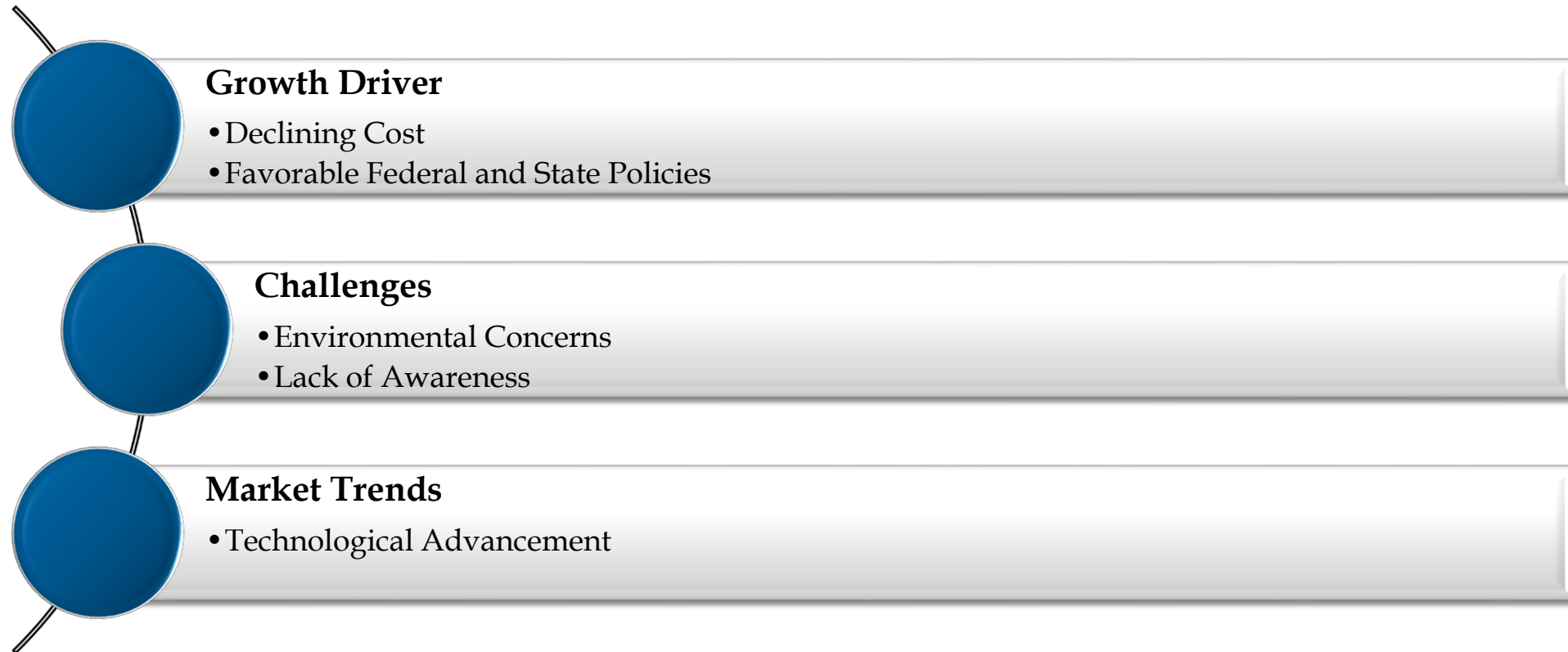
The US Residential Solar Power Market by Cumulative Installed Generation Capacity



The US Residential Solar Power Market by Penetration in Available Rooftop



The US Residential Solar Power Market: Dynamics



The US Residential Solar Power Market: Competitive Landscape

Players Profiled

- Tesla (SolarCity Corporation).
- Sunrun Inc.
- Vivint Solar, Inc.
- Sunpower Corporation

The US Residential Solar Market by Players



Note: The graphs on this slide are only for sample representation.