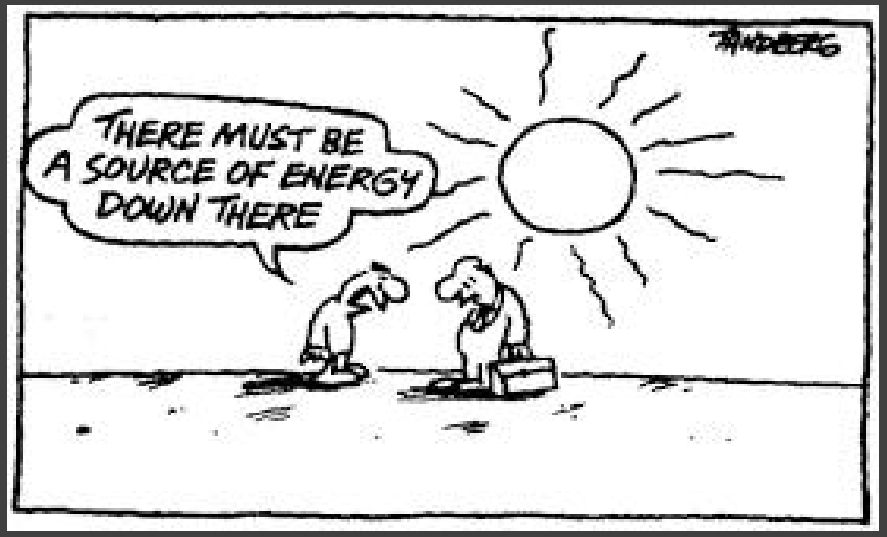
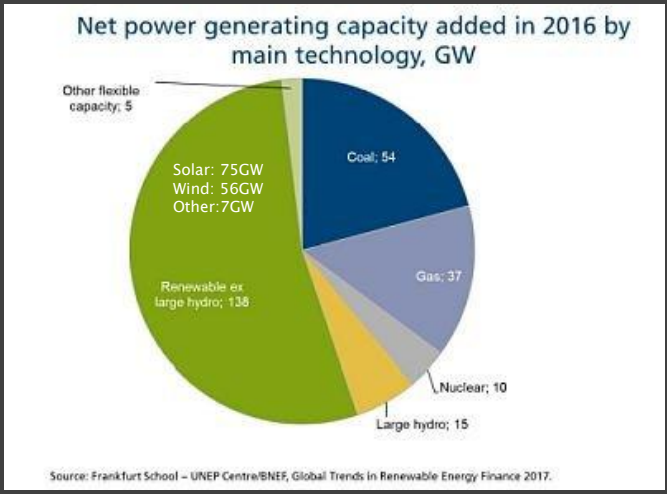
Making Hay While the Sun Shines

Debunking 10 Popular Myths about Solar Energy



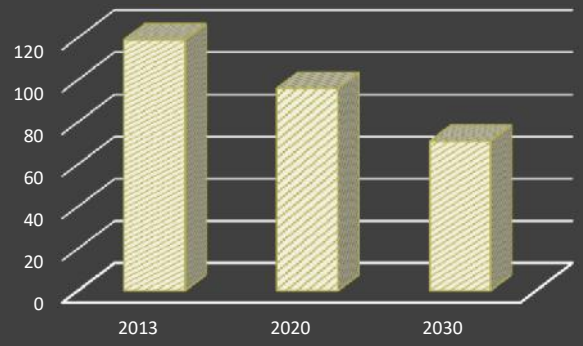
"Lookin' for ~~Love~~ Energy in All the Wrong Places"

Myth #1: Solar Power Remains a Small Percentage of New Electricity Generation.



Reality: In 2016, solar power generated about 29% of all new global electric capacity, more than coal or natural gas.

Myth #2: Solar Power Will Never Offer Competitive Electricity Rates.



LEVELIZED COST OF ENERGY, US$/MWH

Reality: **Solar PV power is expected to reach grid parity in 80% of countries before 2020.**

Myth #3: Plentiful Natural Gas Will Obviate the Need For Solar Energy

	2014	2015	2016	2017
Coal	$2.36	$2.23	$2.18	$2.20
Natural Gas (NG)*	$4.53	$2.72	$2.58	$3.22

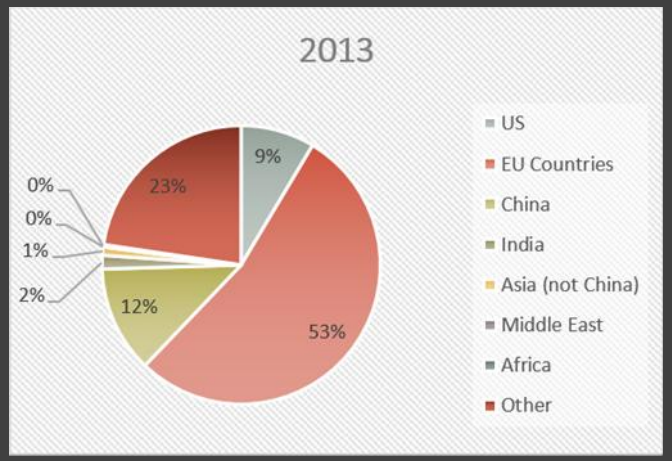
*Henry Hub Spot Price

Power Generation Fuel Costs
(dollars per million Btu)

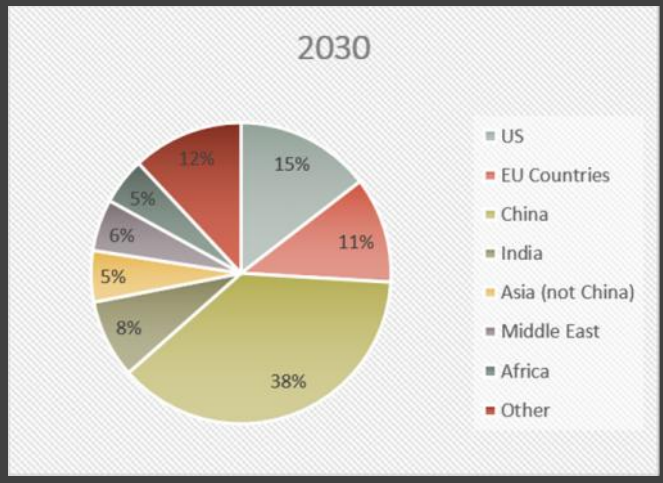
Source: U.S. Energy Information Administration Short Term Energy Outlook, November 2016

Reality: **Despite historically low natural gas prices in the U.S. in 2015 and 2016, solar power generated more new electrical capacity than natural gas**

Myth #4: Growth of Solar Deployments will be Driven by a Few Major Developed Countries.



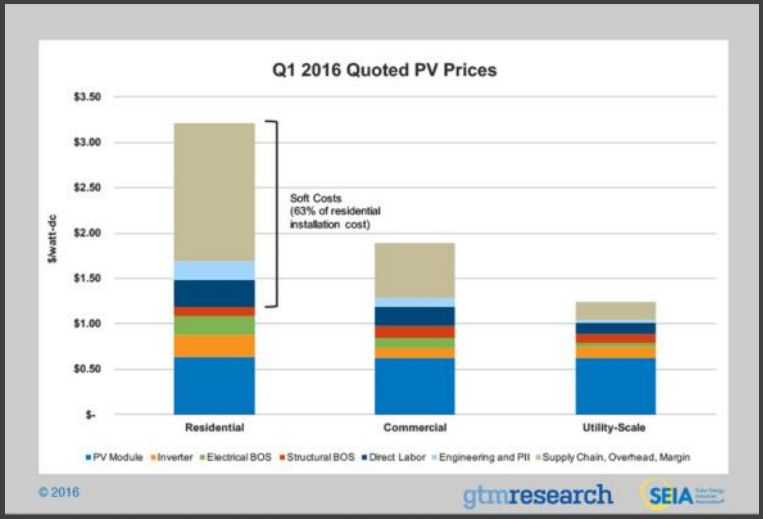
PV Capacity by Region, 2013



PV Capacity by Region, 2030

Reality: By 2030, the amount of solar deployed in the EU countries and the US, as a percentage of worldwide deployments, is projected to decrease from 62% to 26%.

Myth #5: China Is the Only Country Benefiting from the Growth of Solar Industry



2016 PV Deployment Costs

Reality: **Local expenses for site preparation, installation and permitting represent at least 50% of total deployment costs.**

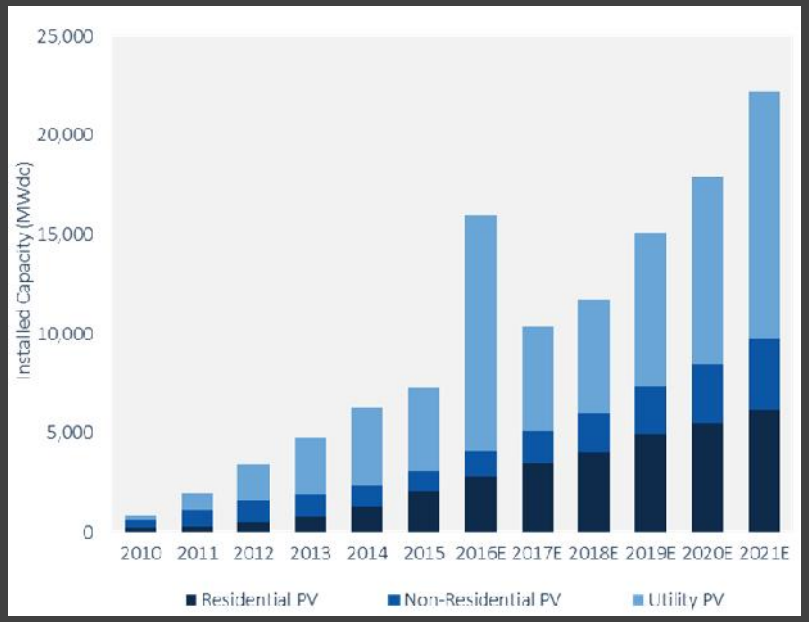
Myth #6: Solar Industry is Not Really Contributing to Many New U.S. Jobs

2016 Employment in U.S. Solar Industry

Source: National Solar Jobs Census, The Solar Foundation, March 2017

Reality: In 2016, the solar industry employed 260,000 workers, twice as many as the coal industry and equal to the employees in the natural gas industry

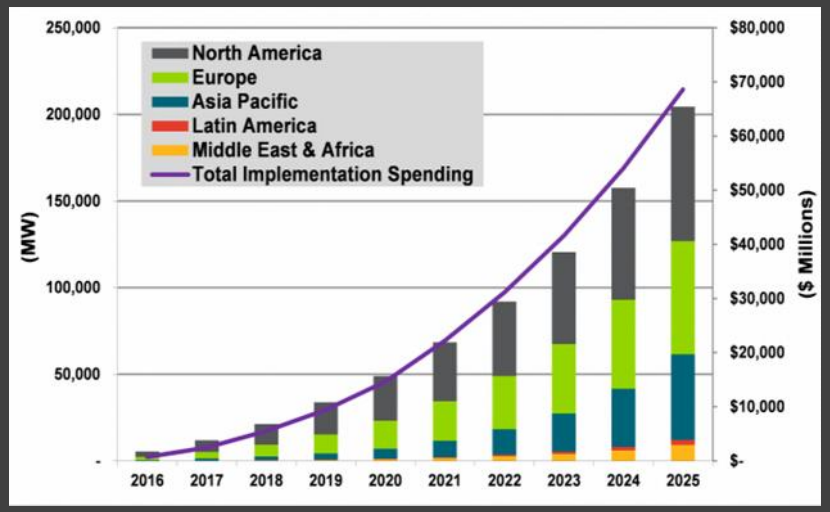
Myth #7: Rooftop Solar Will Eventually Generate the Most PV Power in the U.S.



U.S. PV Installation Forecast, 2010-2021E

Reality: Despite delivering about 5GW of power, residential solar will only deliver about 25% of total US PV capacity by 2021

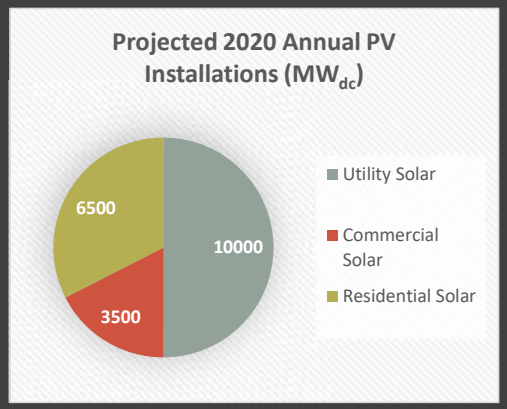
Myth #8: Hardware Cost Reductions Will Accelerate Solar Power Market Penetration



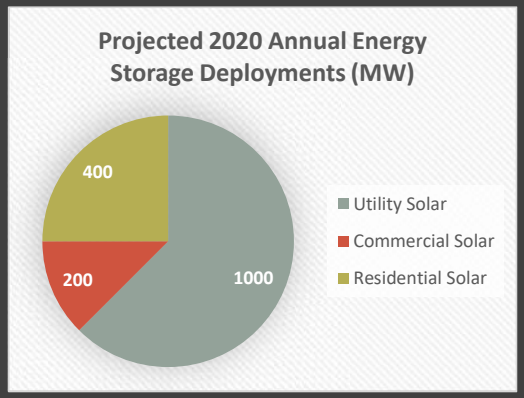
Cumulative VPP Capacity and Implementation Spending
Source: Virtual Power Plant Enabling Technologies, Navigant Research, Q32016

Reality: Software-driven applications such as Virtual Power Plants (VPP) to automatically dispatch distributed energy resources and storage devices may prove more important

Myth #9: Energy Storage Will Be Crucial for Near-Term US Solar Energy Expansion



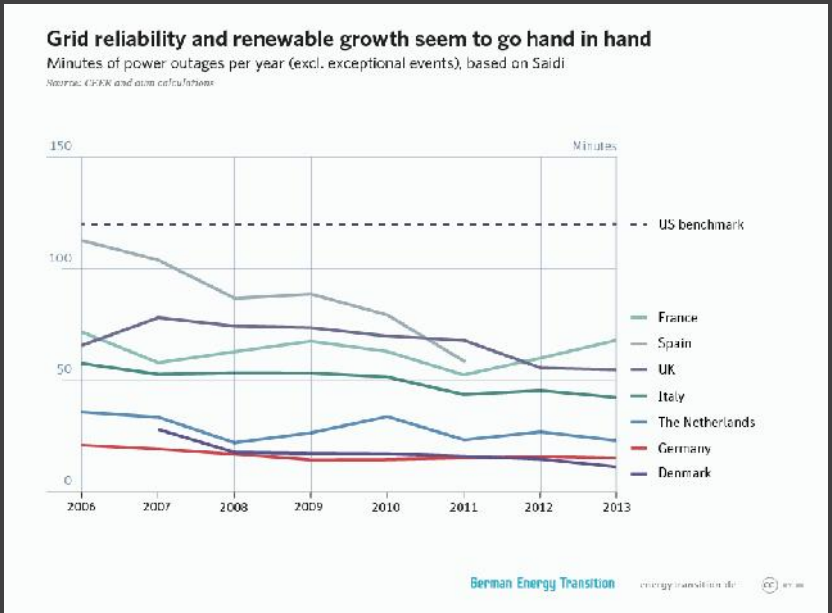
Source: U.S. Solar Market Insight Report, SEIA, Q22016



Source: GTM Research/ESA US Energy Storage Monitor, Q22016

Reality: New US solar energy storage deployments in 2020 are forecast to be <10% of newly installed solar PV capacity

Myth #10: Intermittent Nature of Solar Power Will Soon Severely Impact Grid Reliability



Reality: Germany, with >25% renewable power on average fed to the grid, has an average of 15 minutes of grid outages per year (among the lowest in the world)

For further insights on the topic, view
“Debunking 10 Popular Solar Energy Myths” at:

http://www.revgengroup.com/MortCohen.html