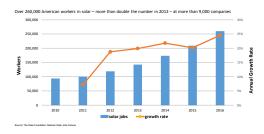




Solar is a Job-Creating Industry





Storage projects operating across the U.S.





Wind farms and factories benefit all 50 states

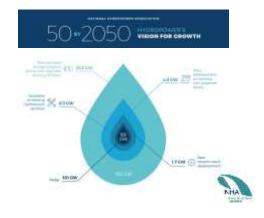


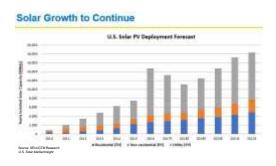
AWEA 1917

88% of new wind capacity is in states that Trump carried



AWEA 1257



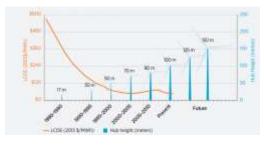






SEIA

Cost of wind power falling with economies of scale







Strong year for storage

	1771		(Teres
	100	149	Square.
	1.00		10100
	- 6	-Tr-	14170
-	- 00	att:	(m. 6)
may be designed the series (about	an increase in	\$7000 (\$200, Master \$700)	Seas 100
Contrado (SMICO)	76	-046	1470
-	2.00	699	14-190
The state of the s	1896 (2017) (2017)	4,00000.000	14-000



Major brands cutting costs & pollution with wind



Source: Non-utility purchases by year of announcement, inc. physical and virtual PPAs, direct ownership, and large-scale REC purchases from a single wind farm,



More transmission will get low-cost renewables to markets



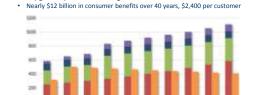




WindVision 2050 case

Benefits of transmission exceed costs: SPP

2012-4 upgrades produced savings 3.5 times the cost



Benefits (left) greatly exceed cost (right) of transmission upgrades in consumer savings alone

Source: SPP, The Value of Transmission

High-voltage DC lines coming



Source



Wind power is increasing on the grid, reliably integrated

 The SPP grid across 14 states just peaked at 52% electricity from wind (Feb. 12, 2017)

 lowa now generates over 35% of its electricity year-round from wind

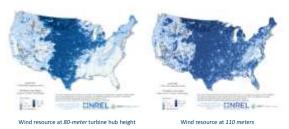
 14 states produce over 10% of their in-state electricity from wind



find Energy Share of Electricity Generation, by State

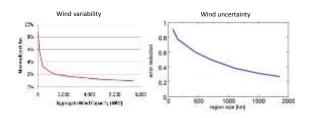


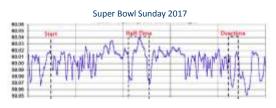
New turbines reaching higher winds and more areas





More turbines over larger areas = more predictable output





AWEA 1207

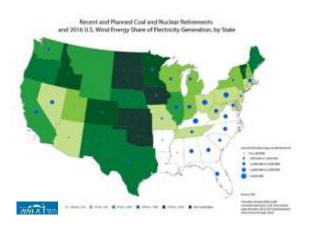
Austin Frequency, One-Minute Averages, 5 pm-10 pm CS

Storage applications

From home systems to a 400MWh facility, storage has numerous applications

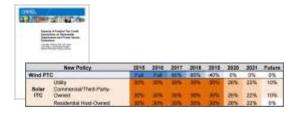
- It's not about 'sunshine at night'
- Single system can provide multiple values to grid and owner
- Systemic value, impacting every facet of supply, transmission and consumption





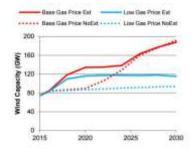


Phase-down of wind & solar tax credits



Source: MDEL "Impacts of Enderal Tay Cendit Extensions on Renounble Deployment and Boung Sector Emissions." Enhanced 2016

NREL: Installed wind capacity post-PTC extension



Source: NREL "Impacts of Federal Tax Credit Extensions on Renewable Deployment and Power Sector Emissions," February 20:





