





ON-SITE WIND MARKET POTENTIAL

JEREME KENT NOVEMBER 12, 2018 - IECA



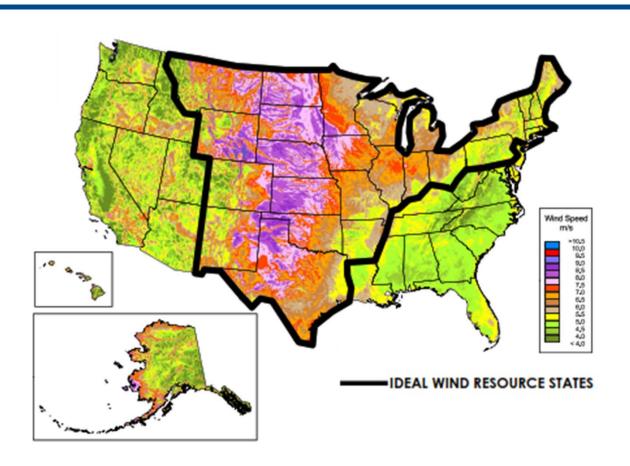
EXCERPTS FROM 2018 MARKET POTENTIAL STUDY

• Assumptions:

- Focused on a hypothetical 1.5-4.5MW project
- Trying to determine location and scale of market not specific projects
- Power prices, by class, assumed to be constant for a state (EIA)
- Wind at the county level
- Manufacturing at the county level

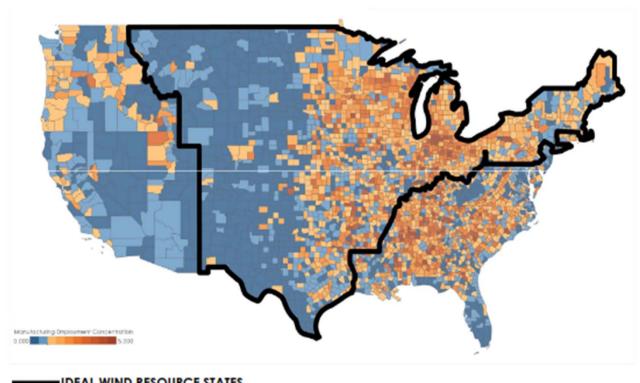


U.S. AVERAGE WIND SPEEDS AT 80 METERS



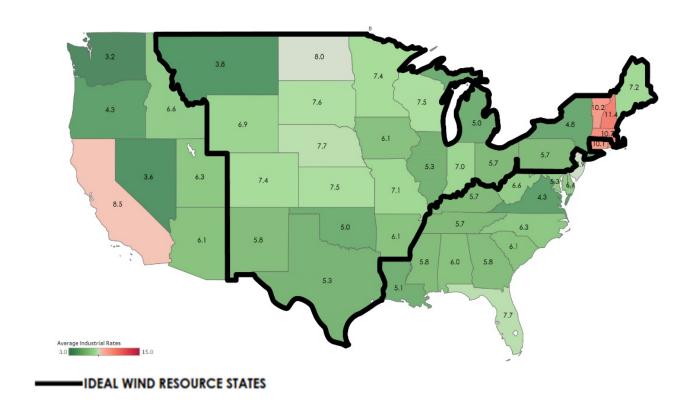


MANUFACTURING CONCENTRATION BY COUNTY, 2017



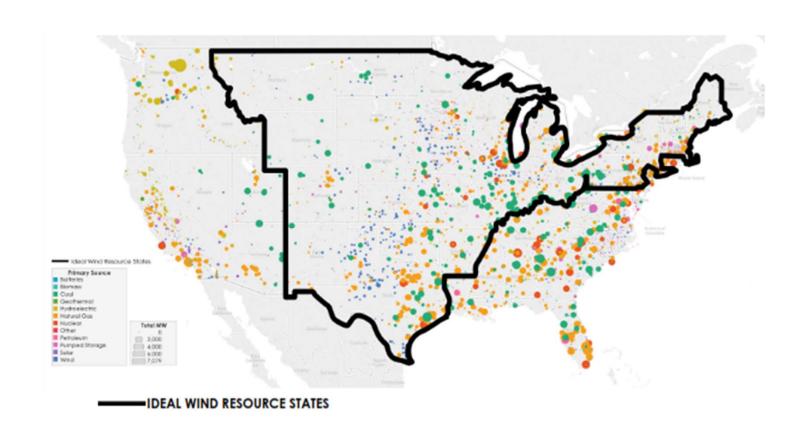


AVERAGE INDUSTRIAL ELECTRIC RATES (CENTS/KWH), 2016



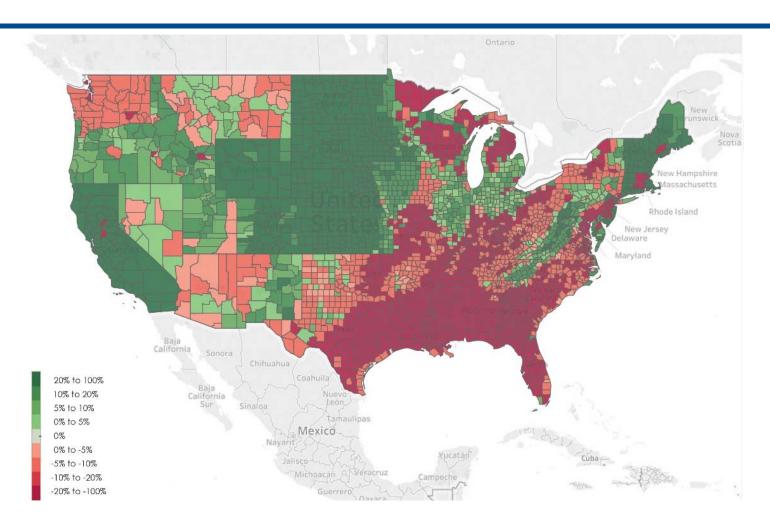


U.S. POWER GENERATION FACILITIES, 2018



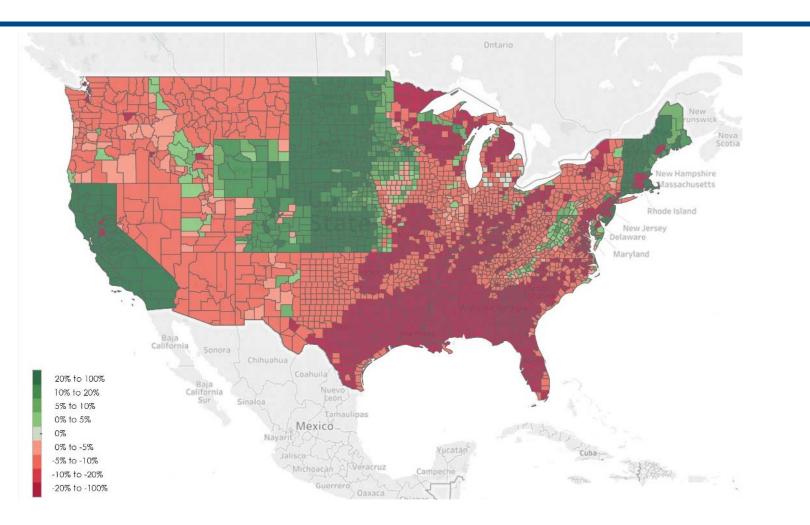


TOTAL ADDRESSABLE MARKET AT 18% ITC - TODAY



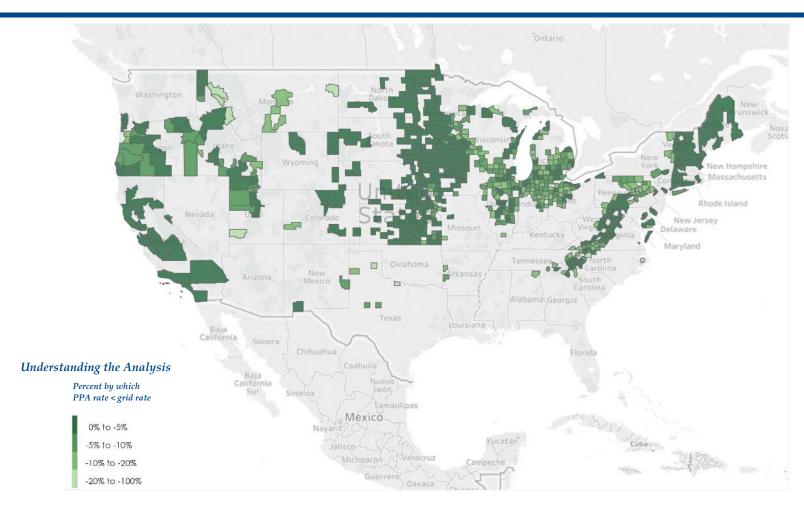


TOTAL ADDRESSABLE MARKET AT 0% ITC - 2020



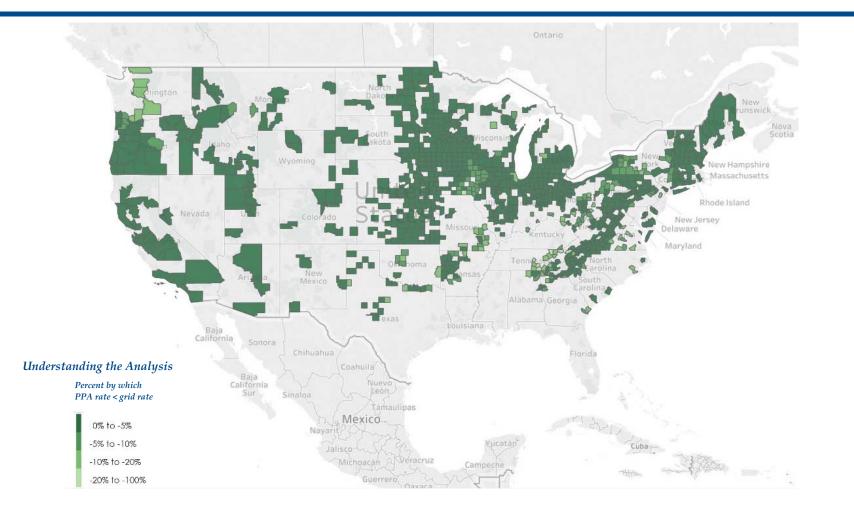


NOW: TOTAL ADDRESSABLE MARKET AT 18% ITC FILTERED FOR HIGH CONCENTRATION OF MANUFACTURING





FUTURE: TOTAL ADDRESSABLE MARKET AT 0% ITC FILTERED FOR HIGH CONCENTRATION OF MANUFACTURING WITH 10% DELIVERY IMPROVEMENTS (COST AND ENERGY)



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CUSTOMER FACILITIES FILTERED FOR TECHNICAL VIABILITY

Customer Facilities Filtered for Technical Viability	Current MW	Viable MW	Total U.S. Facilities	Technically Viable Facilities	Percentage of Viable Facilities
Customer 1	1.5	15.0	13	4	30.8%
Customer 2	9.0	40.5	37	8	21.6%
Customer 3	4.5	94.5	49	21	42.9%
Customer 4	9.0	54.0	20	12	60.0%
Customer 5	22.5	180.0	153	36	23.5%
Customer 6	4.5	135.0	60	30	50.0%
Customer 7	13.5	22.5	10	6	60.0%
Total	64.5	541.5	342	117	34.2%

34.2% of the facilities screened are viable for a Wind for Industry project.