

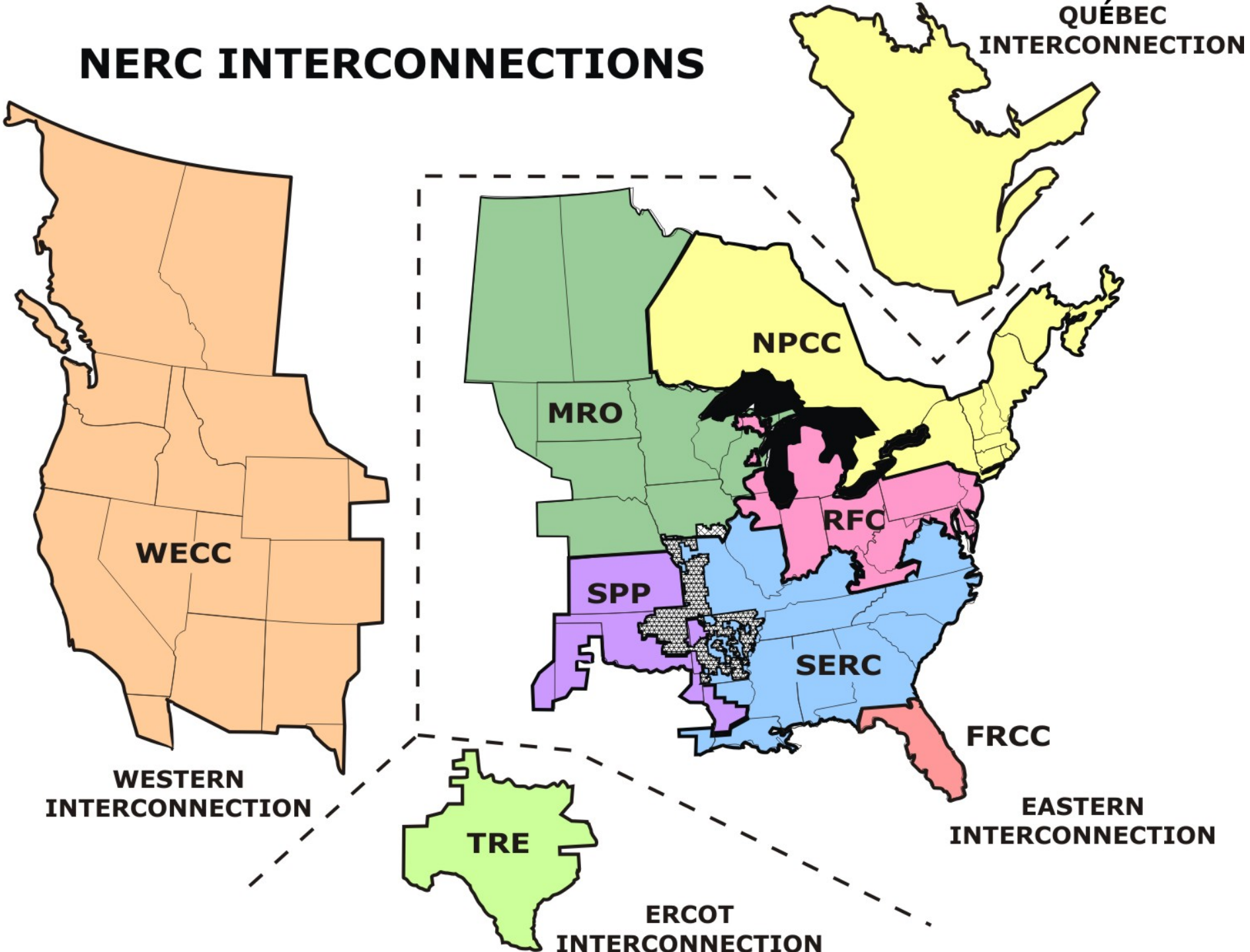
New Transmission Lines Impact on Consumers

Bill Levis, Consumer Counsel
Colorado Office of Consumer Counsel
January 9, 2013



Dora
Department of Regulatory Agencies
Office of Consumer Counsel

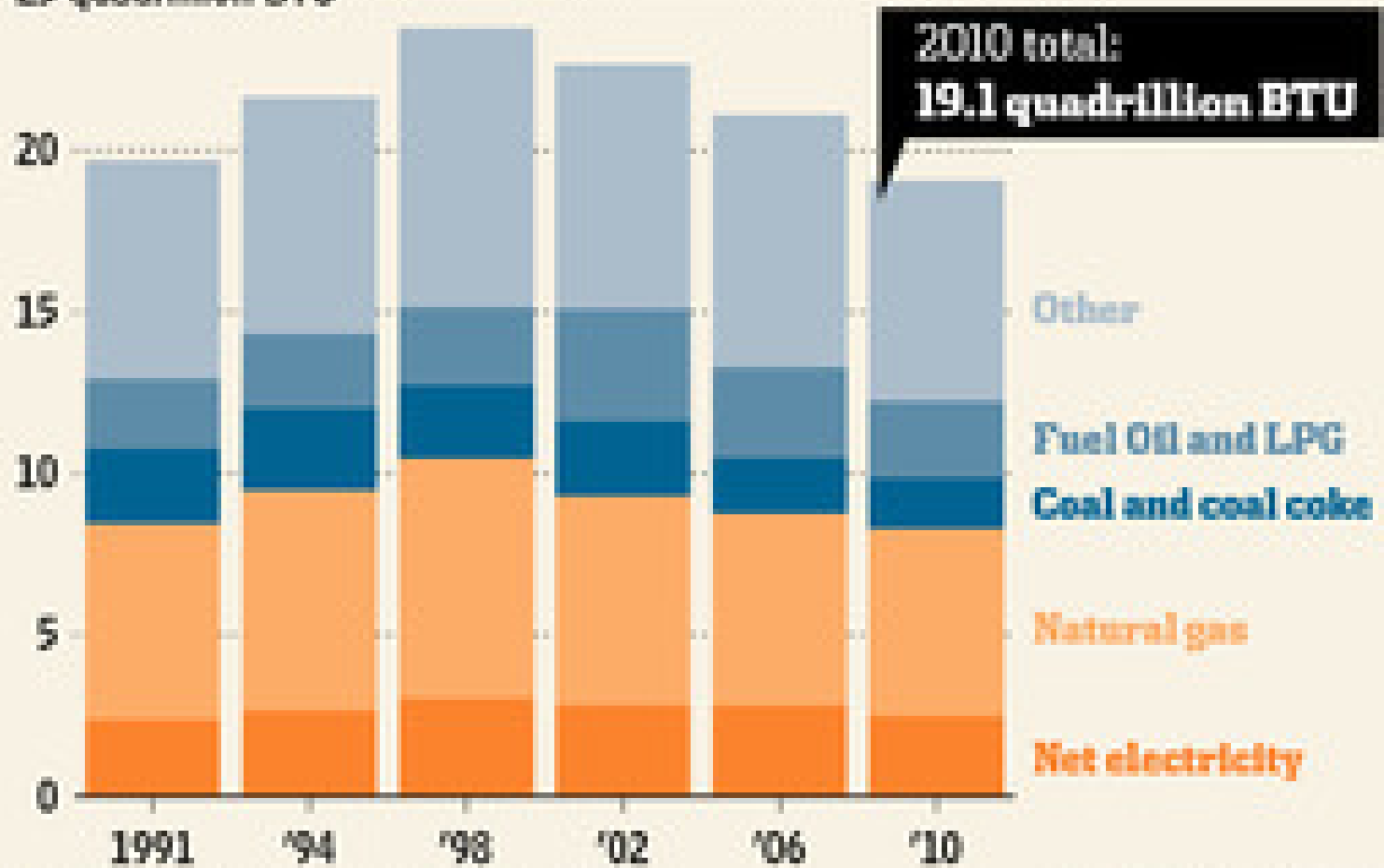
NERC INTERCONNECTIONS



Downhill Charge

Manufacturing energy consumption has been declining since 1998

25 quadrillion BTU



Source: U.S. Energy Information Administration

The Wall Street Journal

POWERHOUSE™

DOW SOLAR

How the sun and DOW POWERHOUSE™ Solar Shingles work together to power your home — and your life.



1 DOW POWERHOUSE™ SOLAR SHINGLE ARRAY

When sunlight hits the solar cells in your custom array, photons are absorbed, releasing electrons and creating electrical current.



2 MAKING THE CONNECTION

The electricity enters your home through a wire connected to the home's Solar Inverter.



3 POWERING YOUR HOME

The Solar Inverter converts the direct current (DC) to usable alternating current (AC), which is fed into the electrical distribution panel to power your home.



4 SAVING YOU MONEY

Net metering allows you to receive credit for any energy you create. This reduces your dependence on the utility company and decreases your utility bill.



5 KEEPING YOU INFORMED

Real-time readouts show how much energy your system is creating and your home is using, and the savings you're generating.



6 PROVIDING A COMPLETE SOLUTION

The POWERHOUSE Solar Shingle system is a fully integrated roofing solution that powers your home with clean, renewable energy to power your life.



Underwriters
Laboratories

® TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow. ©2012 The Dow Chemical Company.



Made in the U.S.A. The system is safe, built to withstand the elements and backed by a 20-year warranty.

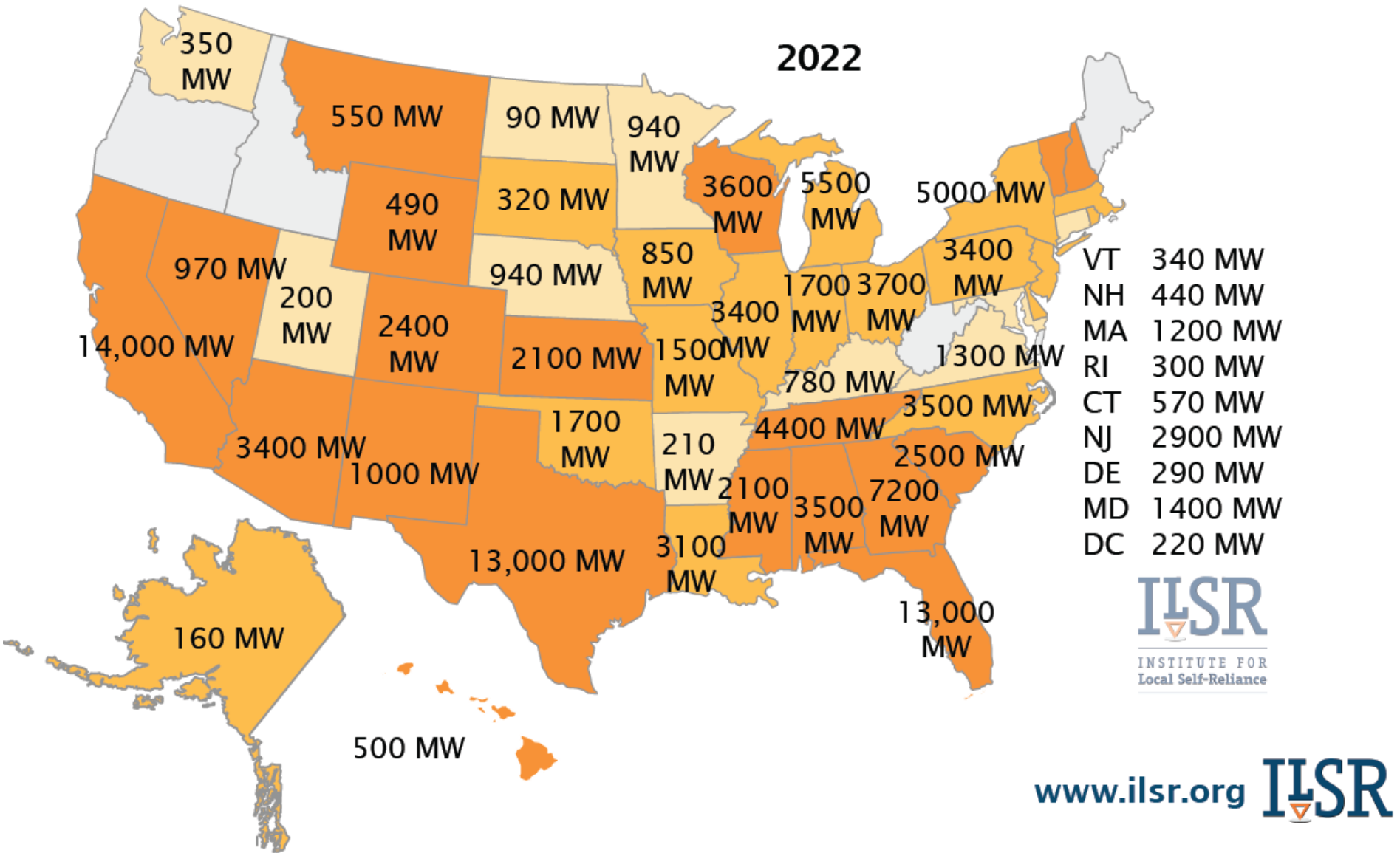
dowsolar.com

Form No. 836-00024-0712 CE

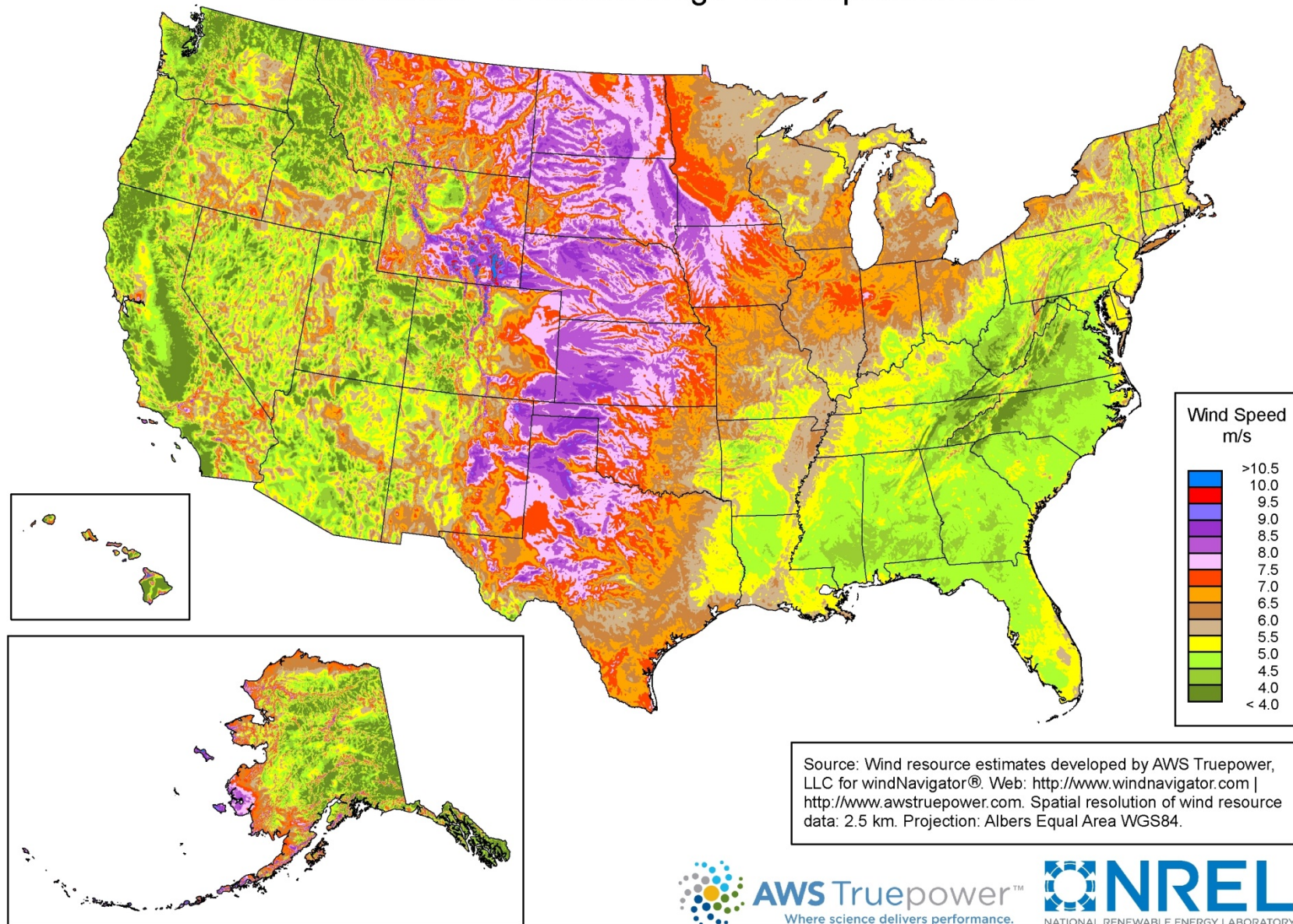
Solar Parity Potential (Megawatts)

Year	Residential	Commercial
2012	14,800	5,500
2013	20,500	13,200
2014	33,200	23,100
2015	52,400	27,300
2016	75,000	33,000
2017	107,000	41,000
2018	130,000	53,700
2019	152,000	63,700
2020	175,000	80,800
2021	182,000	106,000
2022	190,000	122,000

Energy Potential from Unsubsidized \$2/W Commercial Solar (Capacity and % of Sales)



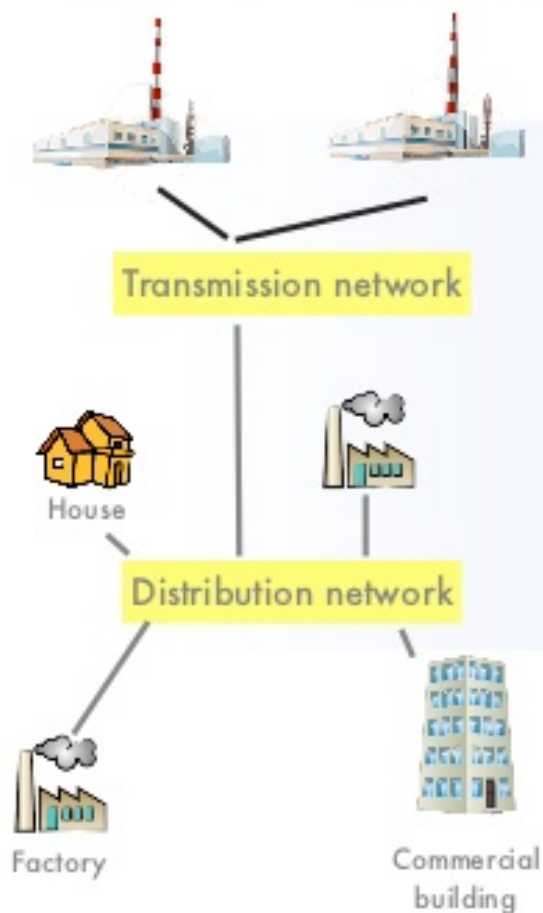
United States - Annual Average Wind Speed at 80 m



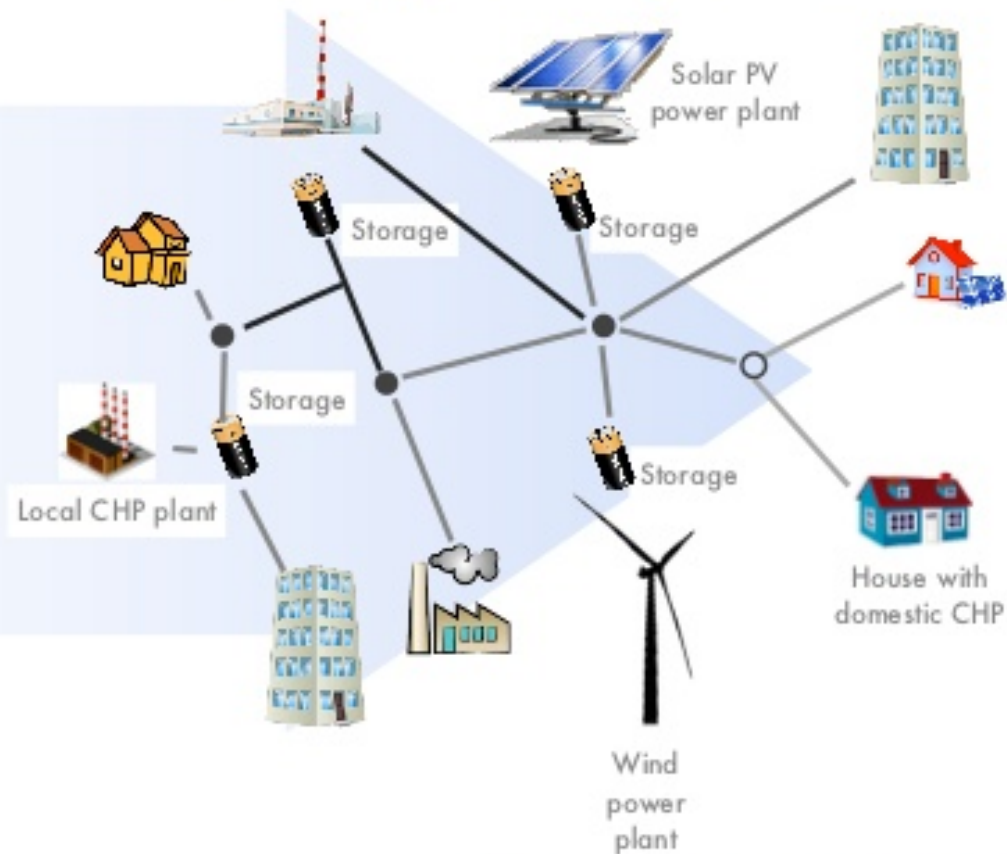
AWS Truepower™
Where science delivers performance.



Yesterday Centralized Power



Tomorrow Clean, local power



INSTITUTE FOR
Local Self-Reliance

NASUCA Resolutions

- Support transmission expansion/improvement with least cost planning principles
- State siting authority identifies and recognizes investment benefits to meet mandatory reliability standards NERC or regional council adopts
- Project facilitates consumer access to lowest cost generation regardless of location and transmission construction benefits exceed costs and risks as determined by state regulatory authority (2010)
- Support cost-effective renewable resources (i.e., wind, geothermal, solar and biomass) to meet Nation's future energy needs (1997)



Dora

Department of Regulatory Agencies

Office of Consumer Counsel