



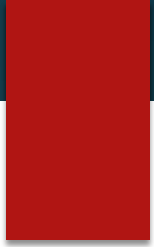
Proposal to establish a 100 percent renewable energy goal for Buncombe County, North Carolina

Resolution for consideration October 17, 2017

INFORMATIONAL PRESENTATION
PRESENTED AT COMMISSION
MEETING OF JUNE 20, 2017



Photo: NASA



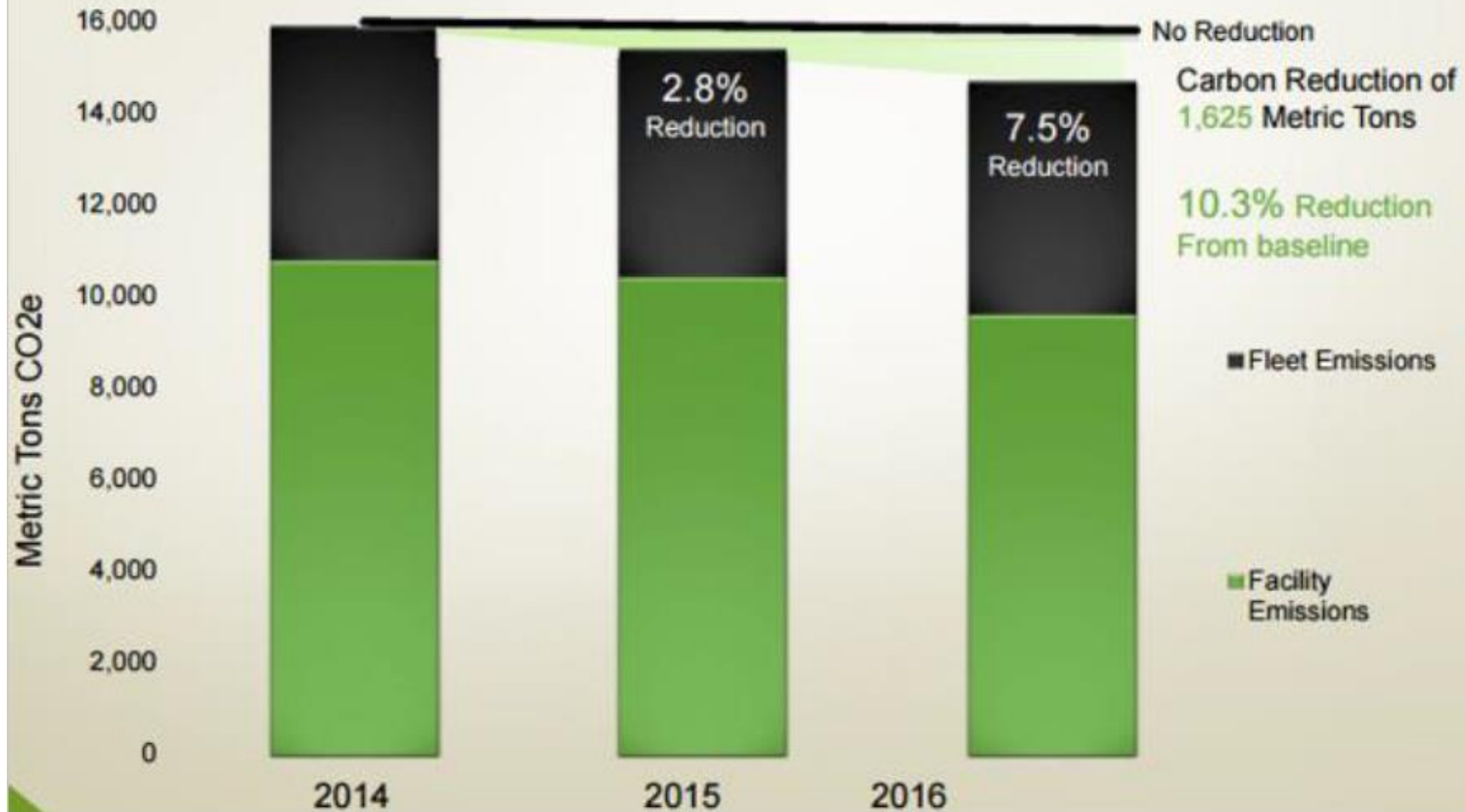


Current clean energy policy for Buncombe County

- ▶ Resolution adopted December 2013.
- ▶ Resolution establishes goal of 80 percent carbon reduction with an average annual reduction of 2 percent per year until the goal is achieved.
- ▶ Emissions for Fiscal Year 14 were set as baseline.
- ▶ Goal is inclusive of County vehicle fleet and facilities.



Emissions Reduction to Date



Off to a great start

- ▶ Buncombe Solar Farm could achieve as much as an 18 percent additional reduction in the county's carbon footprint.
- ▶ Up to 28 percent reduction may be achieved through existing actions already taken or underway.



Businesses that have committed to 100 percent renewable energy

Source: <http://there100.org/companies>



Corporate goal is 100% by 2020



Has already achieved a 93% use of renewables. Goal is 100 percent



Goal is 100% by 2020



Goal is 100 percent renewable with 2/3 met by 2020.



Goal is 100 percent by 2020



Is on track to procure 100% of its energy from renewables in 2017.



A US textile company. Currently 85% powered with renewables. Goal is 100%



Committed to 100% renewable. Plans to procure 7,000 Giga-watt hours of renewables by the end of 2020.



Committed to 100 percent renewable by 2020.



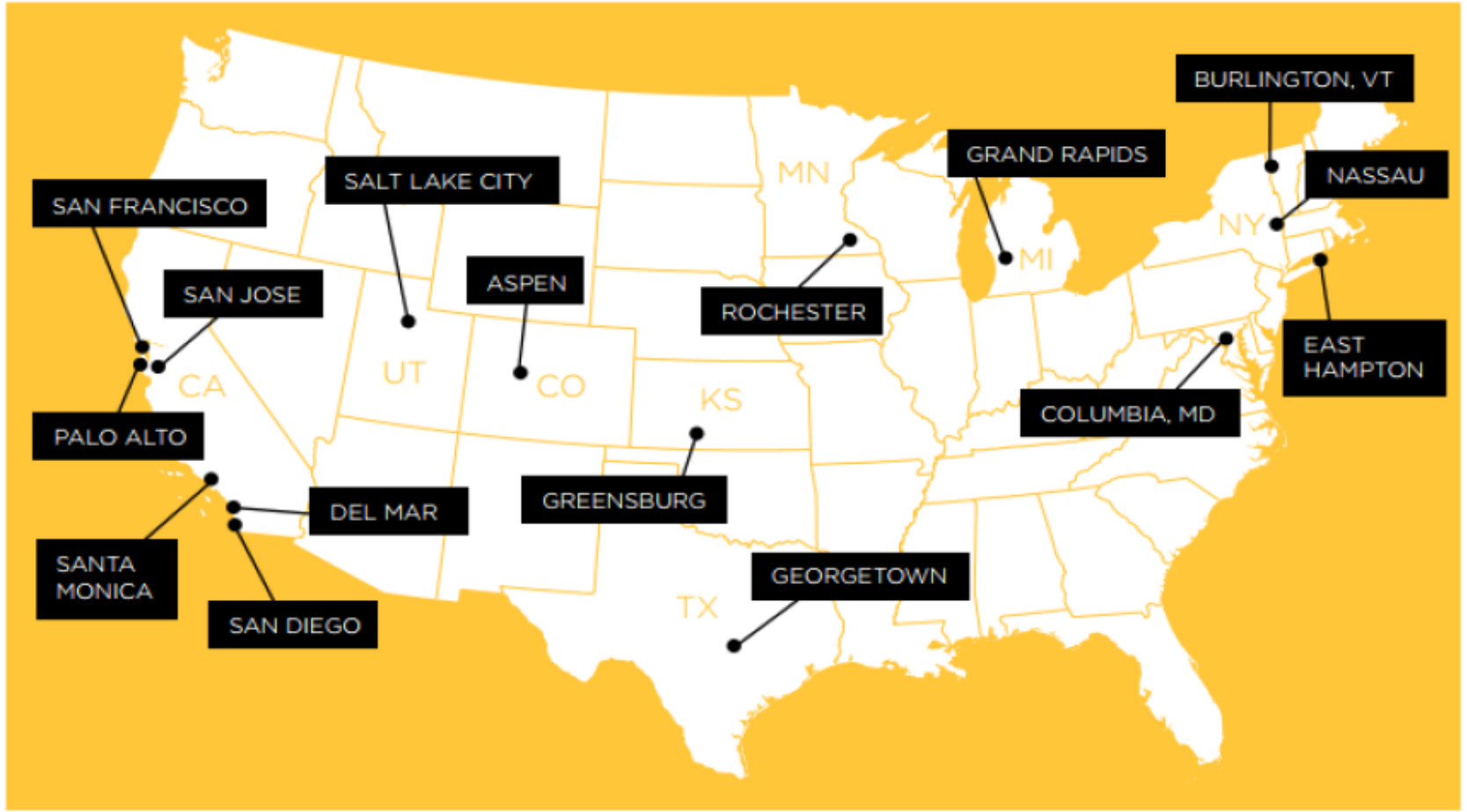
Apple Solar
Farm,
Catawba
County, NC

Credit:
Fortune.com



Apple data center and renewable facilities, Catawba County NC.

Credit: Fortune.com



Credit: Sierra Club

U.S. CITIES WITH A COMMUNITY-WIDE 100% CLEAN ENERGY GOAL IN AT LEAST ONE SECTOR

Public sector clean energy commitments

Burlington, VT – Pop. 42,452. Burlington Municipal utility achieved 100 percent use of renewables in 2014 through a combination of landfill methane, wind, solar, hydro and biomass.

Georgetown, TX – Pop. 54,256. Since 2014, Municipal utility procures 100% of its power from long-term wind and solar contracts, at a rate **lower** than its previous contracts for conventional fossil-fuel sourced electricity.

San Diego, CA – Pop. 1.3 million. Led by Republican Mayor Kevin Faulconer, the city has a goal of 100% renewable use by 2035.

Abita Springs, LA – Pop. 2,900. Led by Republican Mayor Greg Lemons, the town has a goal of 100% renewable by 2030.

Hawaii – The state is committed to 30% renewables 2020; 70% by 2040, and 100% by 2045.

Global Wind Energy Capacity

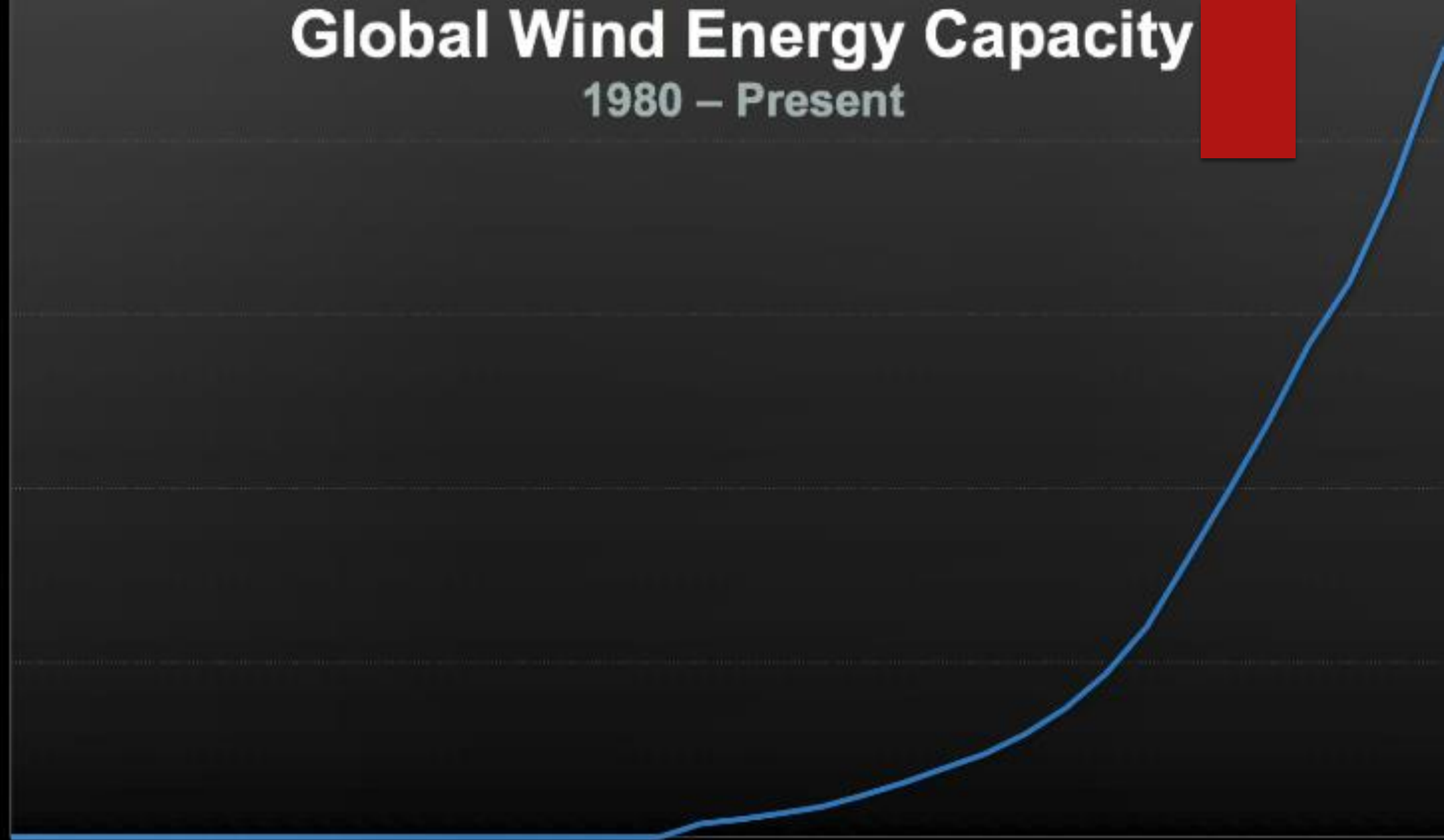
1980 – Present

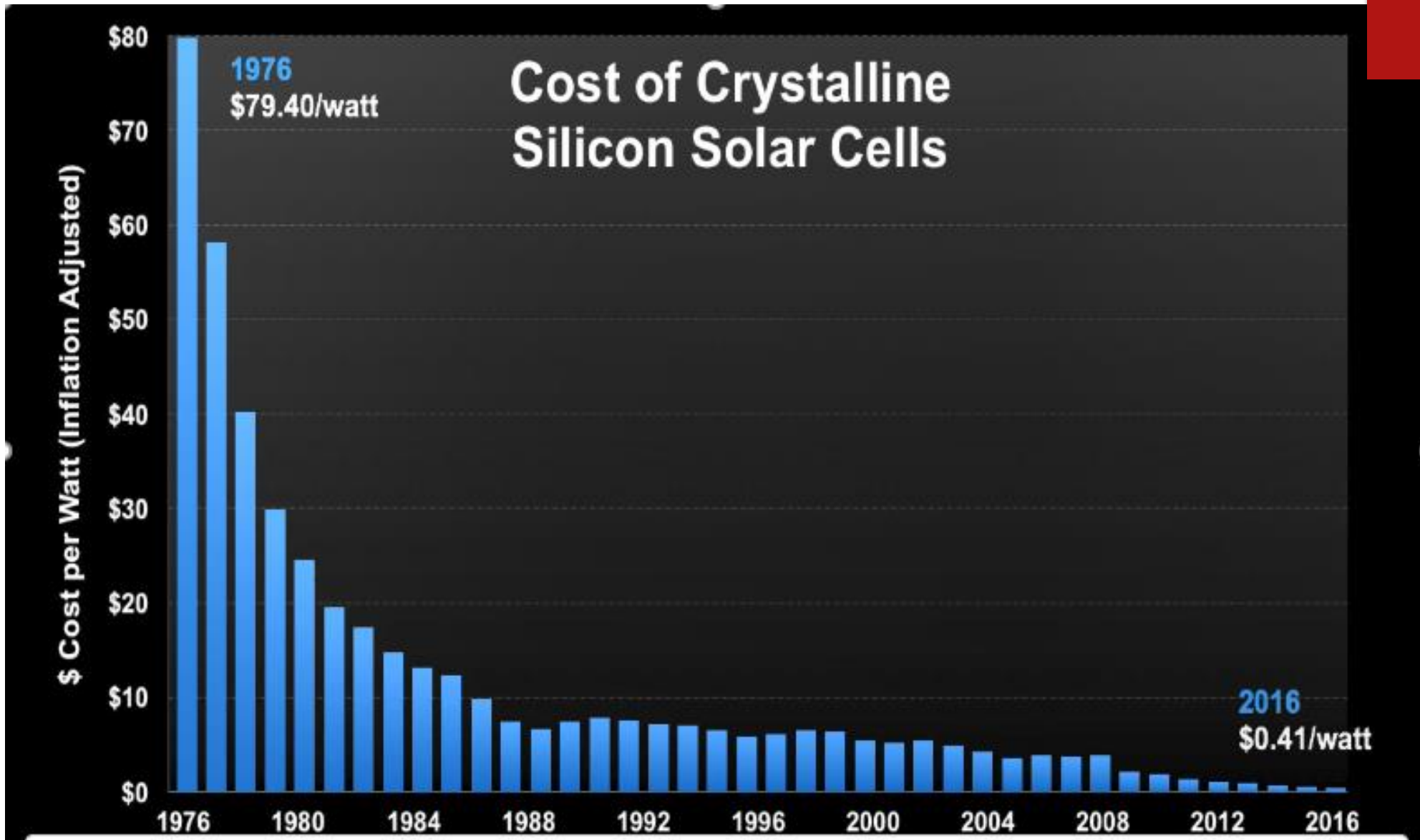
Wind Capacity (Megawatts)

400,000
300,000
200,000
100,000

1980 1984 1988 1992 1996 2000 2004 2008 2012 2016

Data: Earth Policy Institute/BNEF





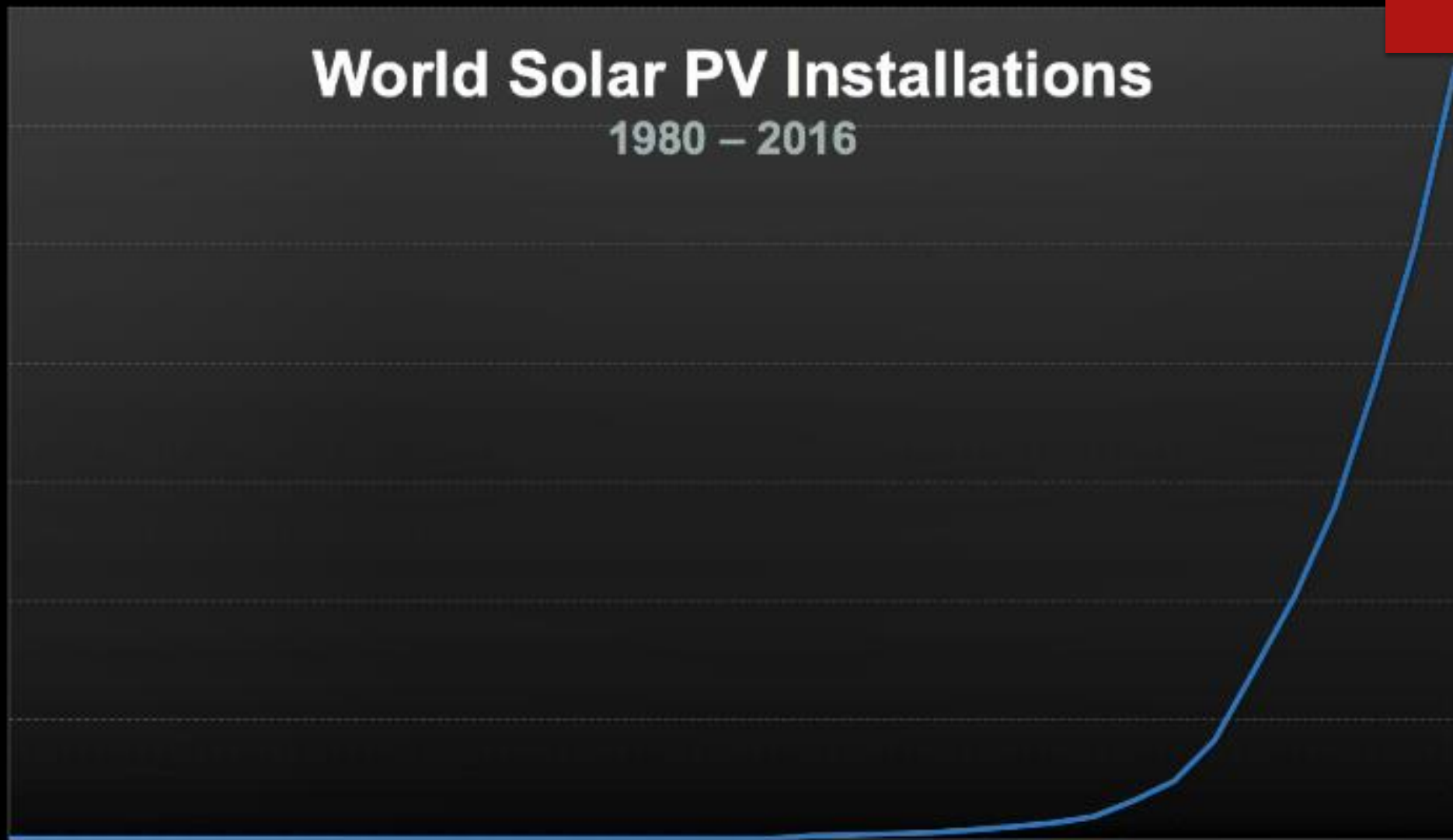
World Solar PV Installations

1980 – 2016

Gigawatts (Cumulative)

350
300
250
200
150
100
50

1980 1984 1988 1992 1996 2000 2004 2008 2012 2016





COUNTRIES THAT JOINED THE PARIS CLIMATE AGREEMENT

■ Ratified (146) ■ Signed (48) ■ Not signed/Withdrawing (3)



SOURCE: UNFCCC NOTE: Denmark's agreement excludes Greenland. Map is updated as of May 31, 2017.

BUSINESS INSIDER

LONDON

SEVERE WEATHER CENTER CURRENT WILDFIRES



The western NC wildfires are visible from space; record pollution in smoke plumes



By [Lisa Sorg](#)

November 10, 2016

In [Environment](#)



146



24



5



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WOW: North Carolina wildfires seen from Space (via N...

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Western NC wildfires could become biggest on state record, forces evacuations

POSTED 9:43 AM, NOVEMBER 12, 2016, BY [WEB STAFF](#), UPDATED AT 09:51AM, NOVEMBER 12, 2016



This is an archived article and the information in the article may be outdated. Please look at the time stamp on the story to see when it was last updated.

SWAIN COUNTY, N.C. — Weather conditions continue to fuel wildfires in the western North Carolina mountains and force evacuation notices, according to WLOS.

One of the biggest ones is the Tellico fire



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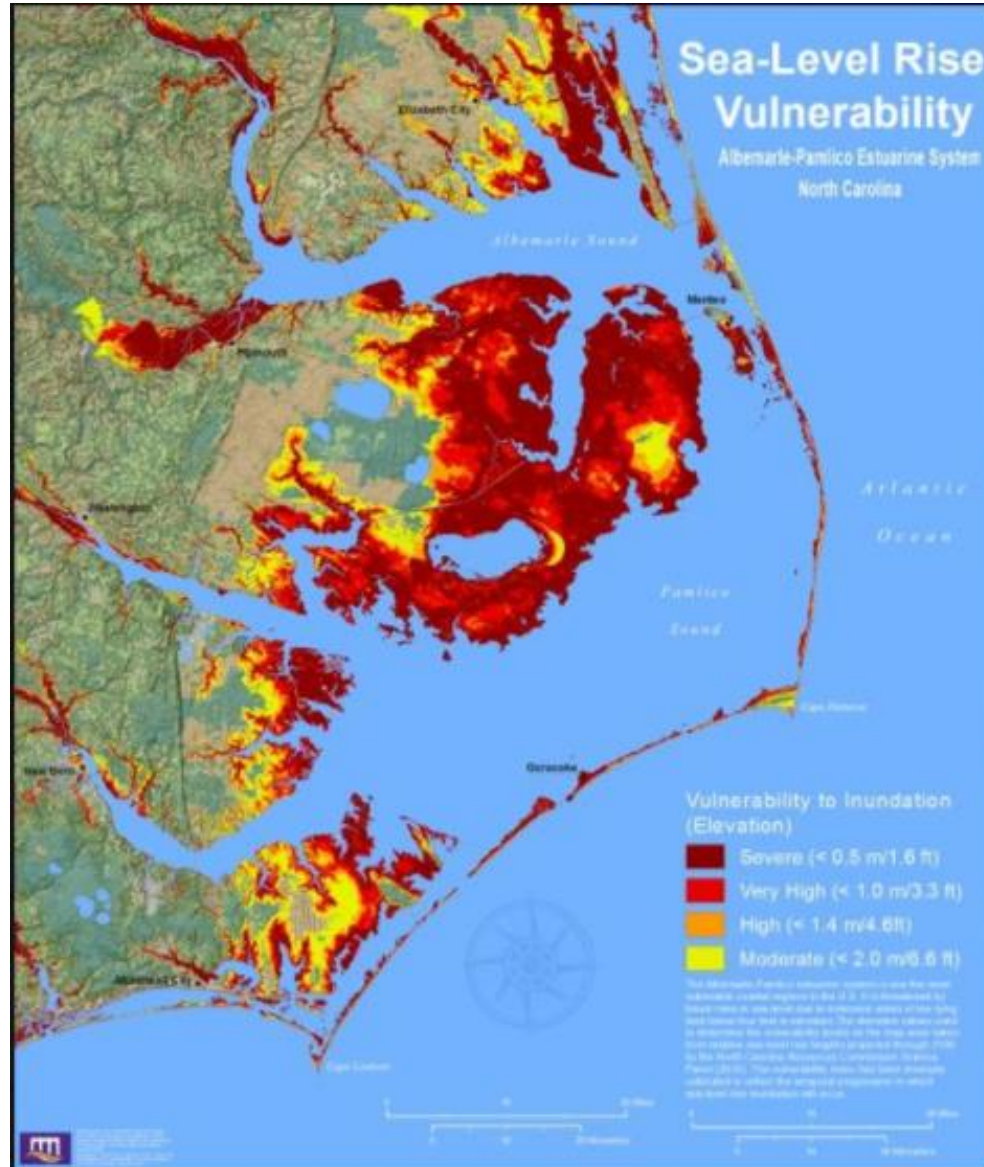
MONSTER

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Fraser fir – Red spruce
forest, Clingmans Dome





Proposal for updated Buncombe County clean energy policy

- ▶ Buncombe County commits to the goal of utilizing 100 percent renewable energy for its operations within 10 years. The goal is inclusive of energy used for its building facilities and vehicle fleet.
- ▶ Renewable energy generation delivered onto the electrical grid may count, on a kWh or kWh-equivalent basis, towards the county's goal. For example, the solar farm being planned on the county's retired landfill may count towards the goal.
- ▶ The county may contract to purchase or source renewable energy from utilities or other energy companies.
- ▶ Buncombe County also commits to the goal of utilizing 100 percent renewable energy for the larger community and country within 25 years. Buncombe County recognizes the essential role of state and national leadership to achieve this goal as well as private sector innovation and entrepreneurship. Buncombe County will advocate for this goal and will seek partnerships and opportunities to achieve it in a cost-effective manner for citizens and rate-payers.



