

ALBEMARLE COUNTY & CLEAN ENERGY

Sierra Club Presentation
To Albemarle County
Board of Supervisors
August 2, 2017

100% Renewable Energy by 2050

The time for 100% clean, renewable energy has come. Numerous studies show that it is possible to eliminate fossil fuels around the globe by the year 2050.

Local Government Leadership

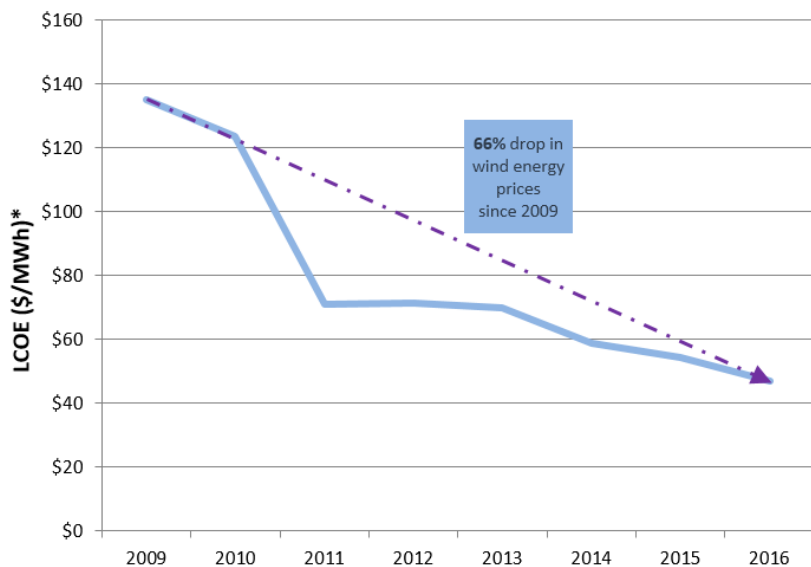
Local or regional governments can show leadership in our transition to 100% renewable energy by setting a target to move the entire community to 100% clean, renewable energy and then actively pursuing a path towards implementation.

MAJOR CHANGES IN CLEAN ENERGY INDUSTRY SINCE 2009

- Dramatic decline in renewable energy costs
- New studies highlight numerous benefits of clean energy
- New and innovative financing approaches for clean energy (both energy efficiency and renewable energy)
- Numerous cities, counties and states have implemented aggressive clean energy strategies

DRAMATIC DECLINE IN RENEWABLE ENERGY COSTS (2009 - 2016)

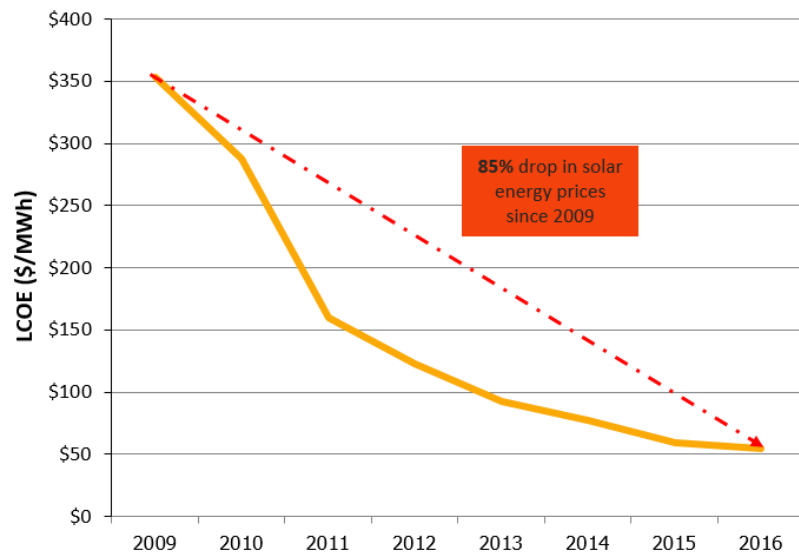
Wind cost declines since 2009



*LCOE - Lazard's Levelized Cost of Energy Analysis v. 5-10, avg. of high/low figures



Solar cost declines since 2009



Lazard's Levelized Cost of Energy Analysis v. 5-10 tech.-weighted avg. of high/low ranges



WHY COMMIT TO 100% RE?

It will help Albemarle County:

- Meet its Community Energy Plan goals
- Meet its economic development goals
- Enhance its energy security and resilience
- Become a clean, sustainable community

Economic Growth

- Recently, Michael Bloomberg and Carl Pope released a new book titled “Climate of Hope: How Cities, Businesses and Citizens Can Save the Planet.” Here is an excerpt:
- “[M]ayors see fighting climate change as a spur to faster economic growth.” (p. 21) We learned that “[w]hat was good for people and job growth was good for fighting climate change.” (p. 28) “[M]ore and more cities had evidence to show the economic benefits of fighting climate change. In New York, the investments we made hadn’t just improved the quality of our air – they were leading to new jobs and businesses all across the city, and saving taxpayer money.” (pp. 32-33)

Why 100% commitments matter



- Raises ambition – sets a new bar for local climate leadership
- Mobilizes diverse stakeholders
- Influences state and national progress
- Sends signal to utilities and investors
- Opens door for more equitable energy system

A photograph of a straight asphalt road stretching into the distance under a blue sky with scattered clouds. The word "GOAL" is painted in large, white, sans-serif capital letters on the road surface. Directly above the word is a large white arrow pointing towards the horizon. The road is flanked by green grass and yellow wildflowers on the left, and a field of tall green grass on the right.

GOAL

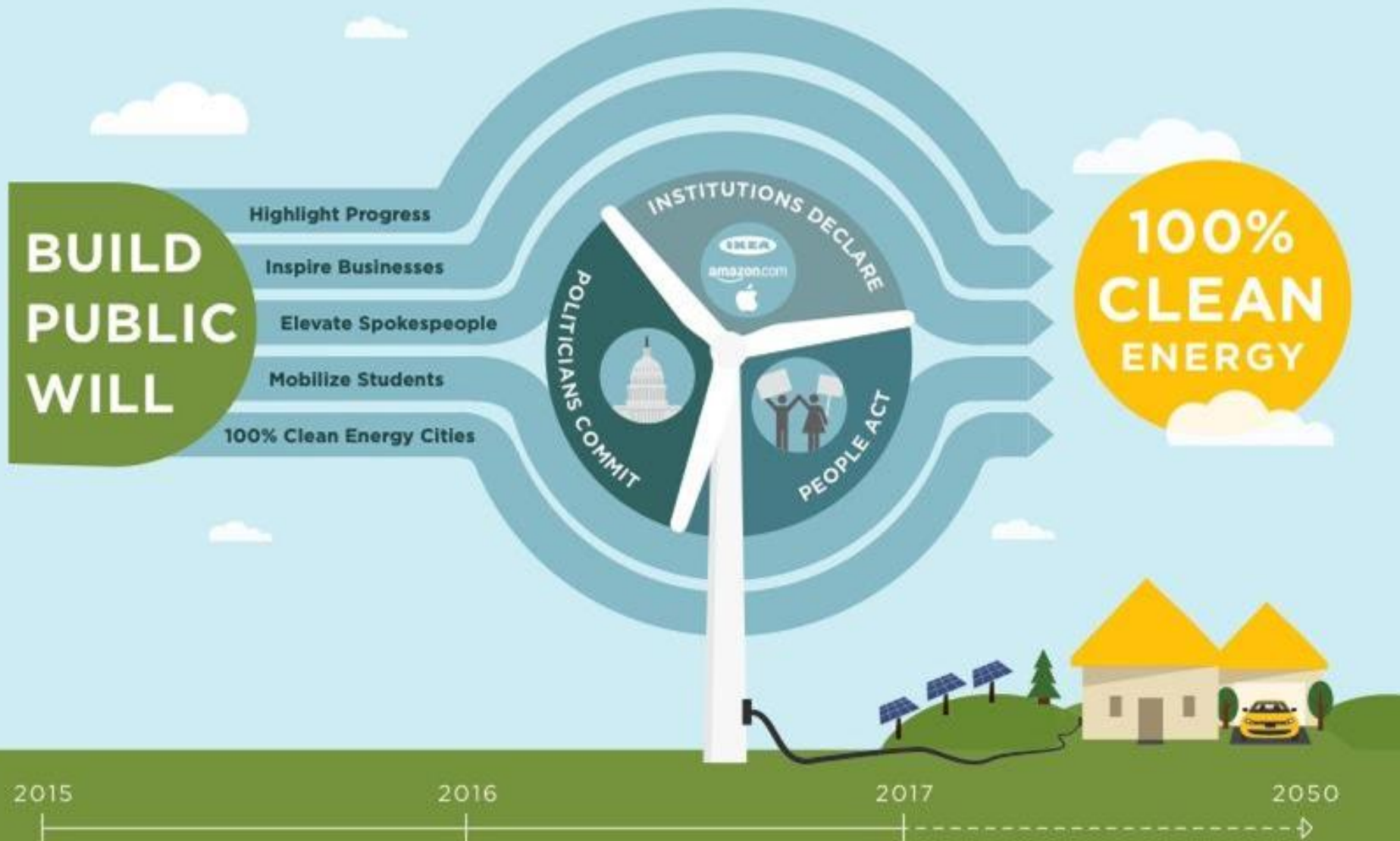
Joining a Movement



- **26 U.S. CITIES COMMITTED TO 100% RENEWABLE ELECTRICITY**
- **6 ALREADY 100% RE**
- **605 JURISDICTIONS WORLDWIDE HAVE COMMITTED TO CLIMATE LEADERSHIP**

City	Renewable in
Rock Port, MO	2008
Greensburg, KS	2014
Kodiak Island, AK	2014
Aspen, CO	2015
Burlington, VT	2015
Columbia, MD	2015
Georgetown, TX	2017
Palo Alto, CA	2017
Grand Rapids, MI	2020
Nassau, NY	2020
San Francisco, CA	2020
San Jose, CA	2022
East Hampton, NY	2030
Taos, NM	2030
Rochester, MN	2031
Park City, UT	2032
Salt Lake City, UT	2032
San Diego, CA	2035
Del Mar, CA	2035

Accelerate an equitable transition to 100%



Energy Policy

COMMUNITY ENERGY PLAN BENEFITS

- Greenhouse gas reduction
- Economic competitiveness
- Energy security and reliability
- Energy efficiency
- Environmental leadership

Adopt a climate protection resolution

Adopt a sustainability/climate protection resolution and establish an active community wide energy and emissions reduction planning group that includes key community stakeholders with at least one County government representative.

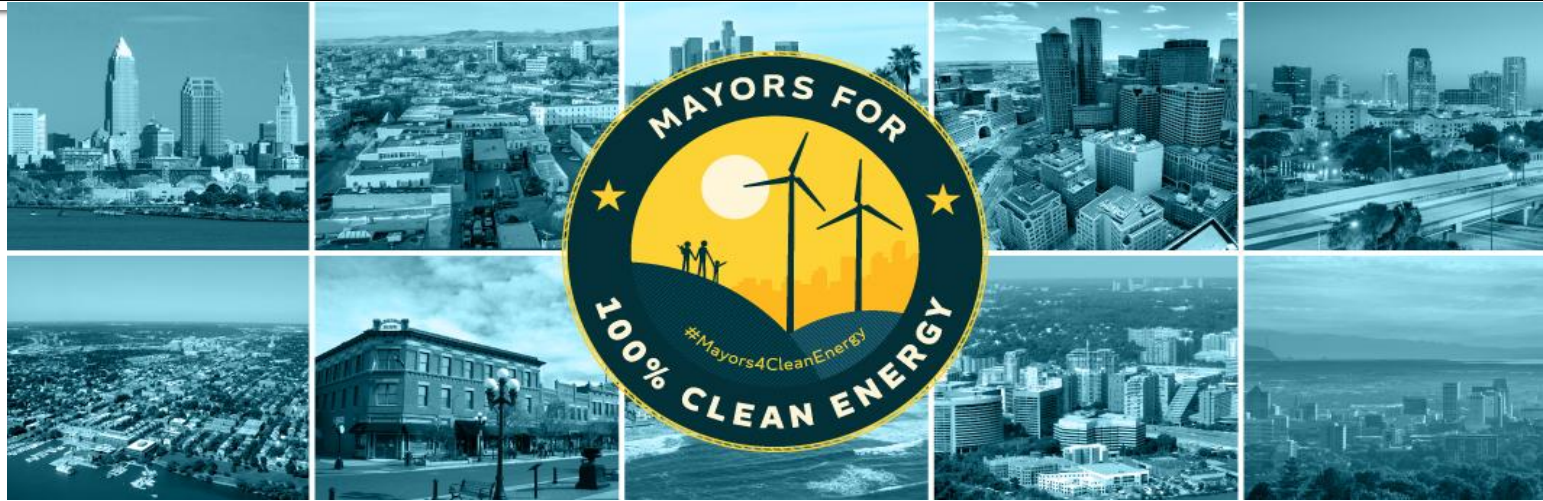
See Arlington County **Climate Action Resolution, June 20, 2017** at:

<https://countyboard.arlingtonva.us/climate-action-resolution/>

DEVELOP THE 100% RE BLUEPRINT

- Map the energy landscape
- Identify available strategies
- Fix binding targets
- Organize for transformation

Join Mayors for 100% Clean Energy



We need to change the narrative. Instead of a call-to-arms, we need a doctrine of “mutually assured survival” — a doctrine in which all commit to the goal of 100% renewable energy.