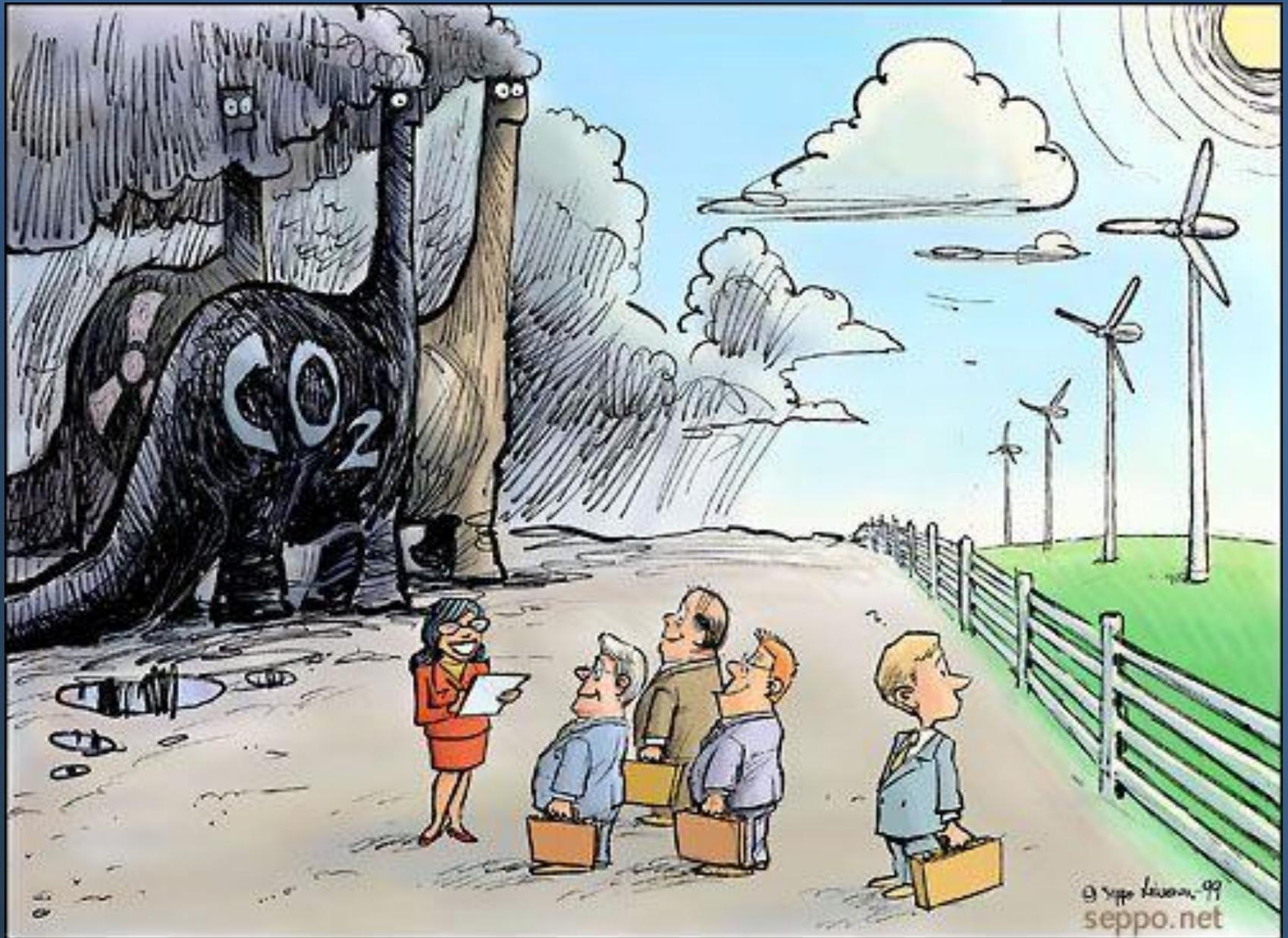




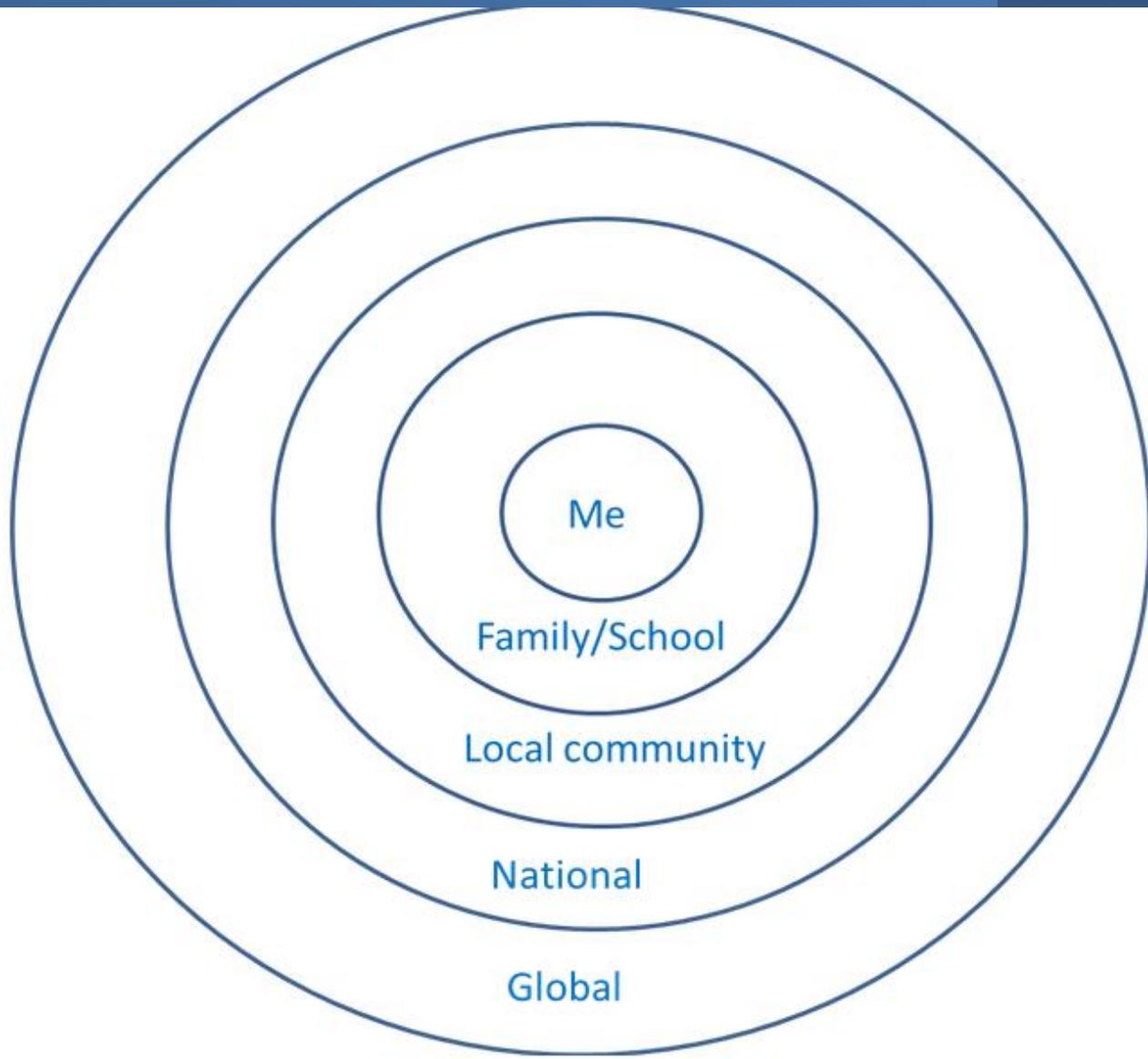
EARTH DAY 2022

**INVEST IN OUR PLANET**



An aerial photograph of a residential neighborhood. The houses have grey roofs and are surrounded by lush green trees. A road with white lane markings curves through the bottom right corner. The text 'Get to Net Zero by 2050' is overlaid on the image. 'Get to' and 'by 2050' are in a white, distressed, hand-painted font. 'Net Zero' is in a bold, black, sans-serif font, centered within a white rectangular box that has a green, hand-painted border.

Get to  
**Net Zero**  
by 2050

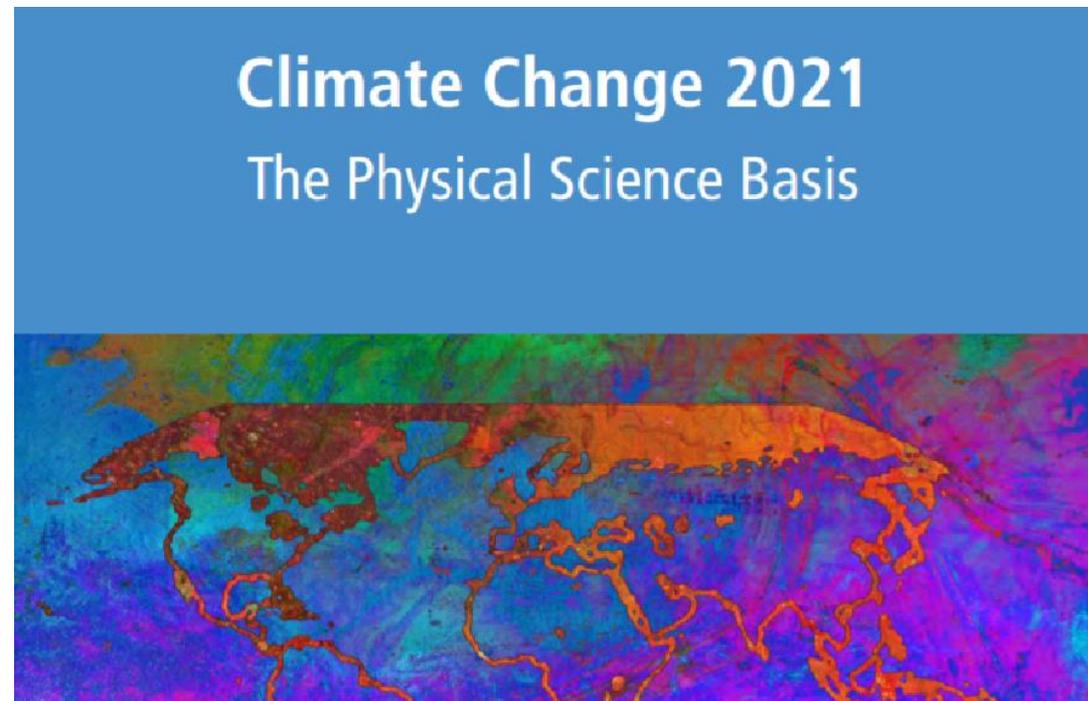


# Where are we now?

2021-22

Intergovernmental Panel  
on Climate Change  
Reports  
(last report in 2013)

- The second part of the Sixth Assessment Report, *Climate Change 2022: Impacts, Adaptation and Vulnerability* issued in February 2022





**United Nations**

**UN News**

Global perspective Human stories

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Topics

In depth

Secretary-General

Media

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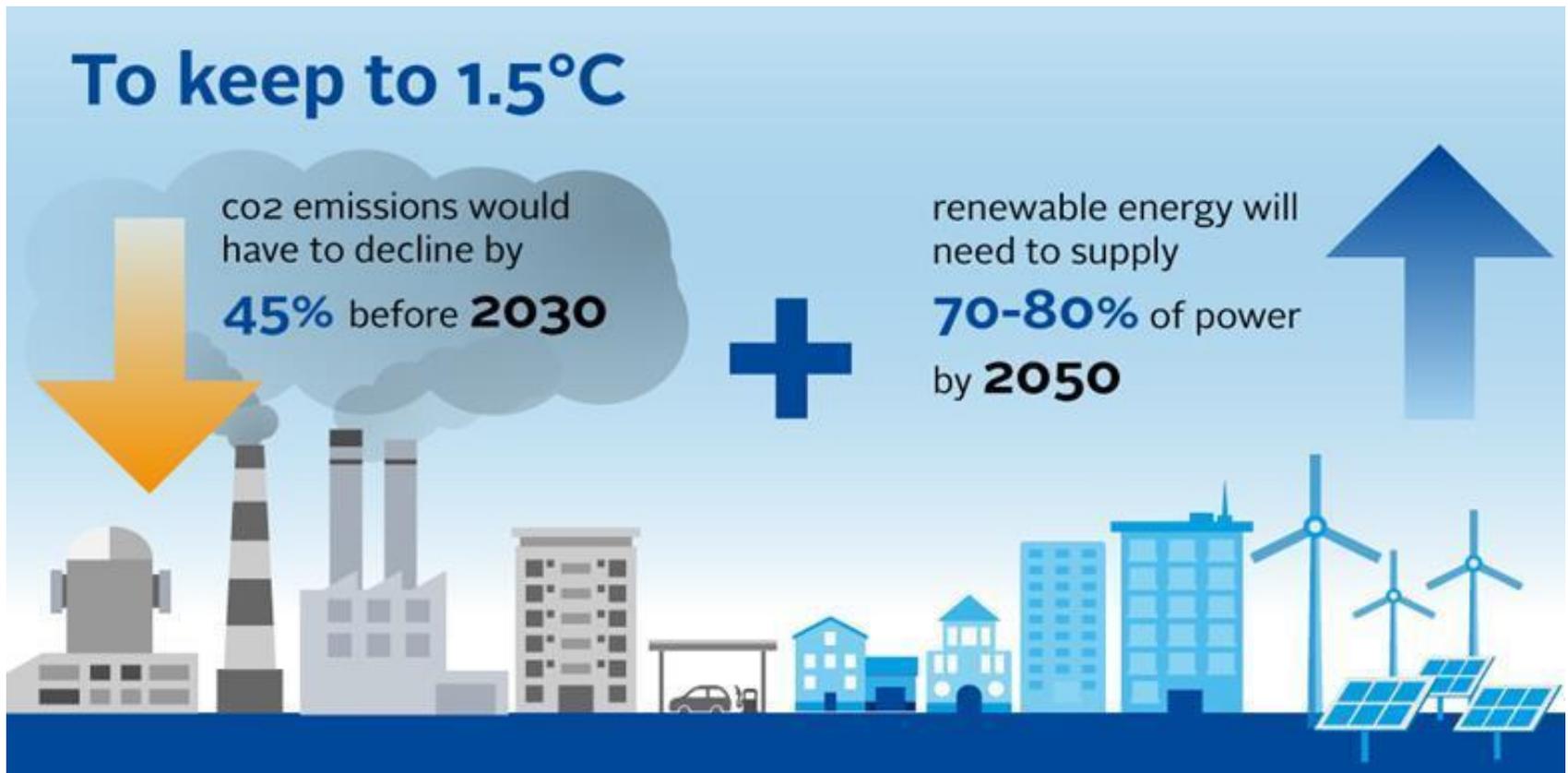
## UN climate report: It's 'now or never' to limit global warming to 1.5 degrees



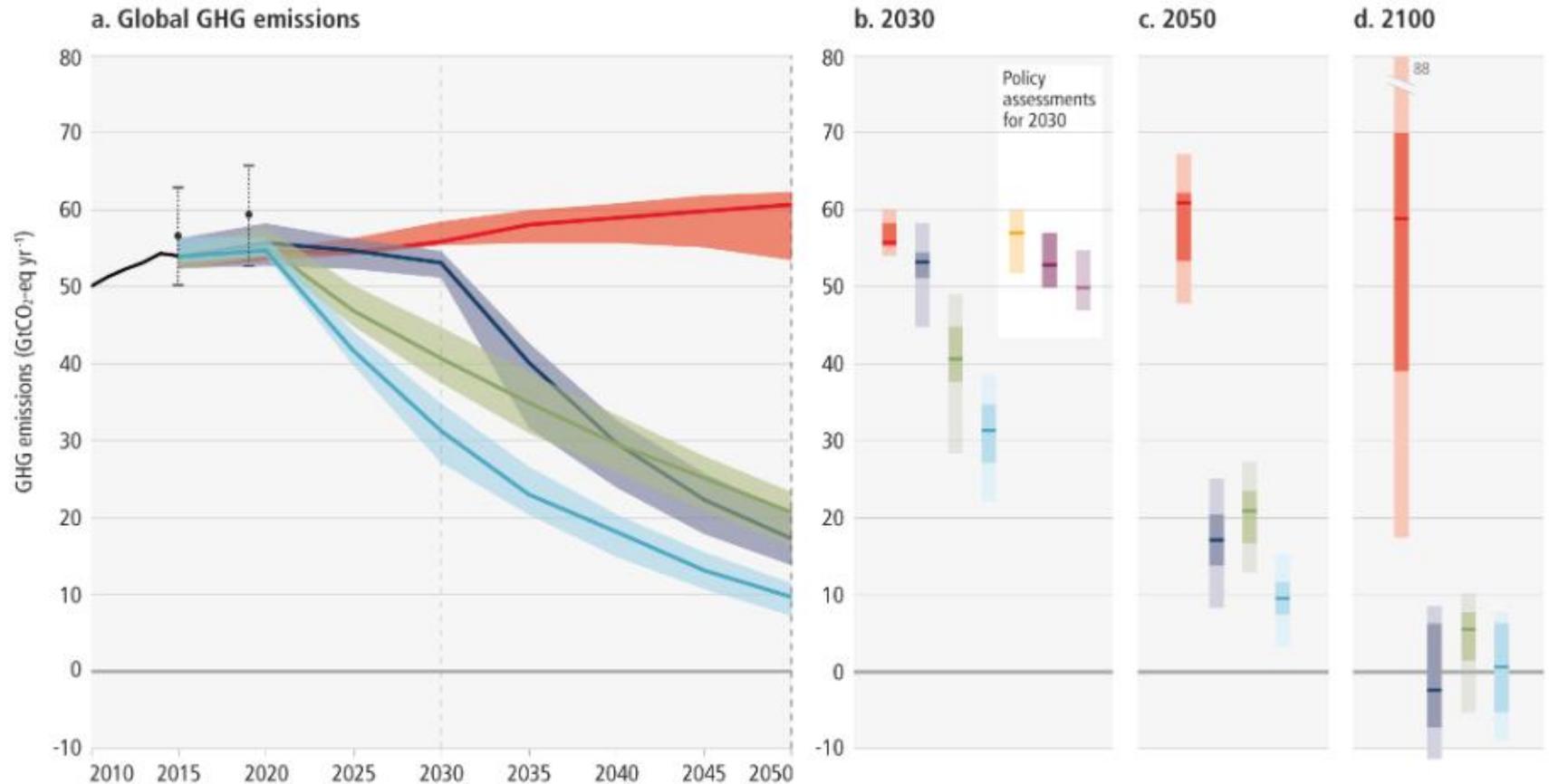
April 4, 2022, press release

# Immediate action needed

Significant action by 2030 required



**Projected global GHG emissions from NDCs announced prior to COP26 would make it likely that warming will exceed 1.5°C and also make it harder after 2030 to limit warming to below 2°C.**



**Modelled pathways:**

- █ Trend from implemented policies
- █ Limit warming to 2°C (>67%) or return warming to 1.5°C (>50%) after a high overshoot, NDCs until 2030
- █ Limit warming to 2°C (>67%)
- █ Limit warming to 1.5°C (>50%) with no or limited overshoot
- Past GHG emissions and uncertainty for 2015 and 2019 (dot indicates the median)

**Policy assessments for 2030:**

- █ Policies implemented by the end of 2020
- █ NDCs prior to COP26, unconditional elements
- █ NDCs prior to COP26, including conditional elements

**Percentile:**

- █ 95<sup>th</sup>
- █ 75<sup>th</sup>
- █ Median
- █ 25<sup>th</sup>
- █ 5<sup>th</sup>

▶ **9 Years**  
to make a  
difference

▶ **Let's get  
started!**

**Countdown**



**2030**



## REDUCE DEMAND

### ENERGY EFFICIENCY AND CONSERVATION

Reduce energy consumption by optimizing efficiency. Potential energy efficiency measures include: choosing Energy Star certified products, using high efficiency electric or geothermal heat pumps, and switching to LED lighting.

# DECARBONIZE ELECTRICITY

## CLEAN UP THE GRID

Accelerate the trend towards zero-emissions electricity. Transform the power sector infrastructure by transitioning states and utilities away from polluting fossil fuels to using clean and renewable energy like solar and wind.





## **END-USE ELECTRIFICATION** **FOR BUILDINGS, TRANSPORT AND INDUSTRY**

Use electricity for all space heating and cooling, industry operations, and transportation. Substitute gas and oil furnaces with electric heat pumps and replace combustion engine vehicles with electric vehicles.

# CARBON CAPTURE

## VIA NATURAL FOREST SYSTEMS

Pennsylvania's forests and urban trees absorb nearly 11 percent of the states total GHG emissions. If we expand these natural systems, we can reduce the amount of emissions entering the atmosphere and lessen PA's contribution to climate change.



# Global Faith based Declarations and Statements



## The Faith Community Responds to Climate Change



- Leading by example
- Public Witness
- Disaster preparation and relief

# Public Witness and Advocacy

---



[paipl.org](http://paipl.org)



# Climate Change Sprint and Eco-Justice Collaborative News

*Written on:* **JUNE 24, 2021**



# 350 Campaign Update: Divestment

The [Go Fossil Free](#) divestment campaign continues to be one of our key strategies to systematically challenge the political power of the fossil fuel industry, create uncertainty about the long-term financial viability of the industry, and move money away from dirty energy towards climate solutions. Since its inception in 2012, 350 institutions and local governments alongside thousands of individuals representing over \$1.5 trillion in assets have pledged to divest from fossil fuels. High-profile pledges to divest include Norway's Sovereign Wealth Fund, the Episcopal church, the Church of England, Rockefeller Brothers Fund, World Council of Churches, the California Academy of Sciences, the British Medical Association, and [Newcastle, Australia](#), home of the world's largest coal port. There are now active campaigns

---

# Investing with Integrity

---



---

## FIRST STEPS FOR FRIENDS BEGINNING THE CONVERSATION

Based on recent experience, we suggest that the discernment process include opportunities to:

- 1) Become familiar with the most recent climate data and information regarding fossil fuel reserves to understand the urgency of action.
- 2) Understand what screens you currently have in place and where your funds are invested. Consider if they clearly reflect your principles.
- 3) Consider where to begin the conversation (Finance, Social Concerns, Earthcare, Business Meeting, etc.).
- 4) Ground your reflections and worship in testimonies and previous minutes.
- 5) Understand the financial need of your Meeting and seek a transition that will continue to meet its needs, while honoring that principle can occasion the need for sacrifice.
- 6) Consider options for reinvestment that meet your Meeting's values (community development investing, socially responsible investing, and initiating reduction of your carbon footprint). Ask your financial manager about options if you decide to reinvest in the stock market. Research the growing number of fossil free funds available.
- 7) Minute your concern and decision.
- 8) Share your minute and decision with the wider community of Friends, the relevant businesses and your elected officials.
- 9) Follow up on the decision.
- 10) Consider other witness opportunities.

**We're moving our money  
to protect the planet.  
We're divesting from fossil fuels and  
reinvesting for climate safety.  
Won't you join us?**

**Religious Society of Friends**

Barneget Monthly Meeting  
Cambridge Monthly Meeting (MA)  
Canberra Regional Meeting (Australia)  
Central Philadelphia Monthly Meeting  
Chester Quarter Monthly Meeting  
Community Friends Quaker Meeting (OH)  
Dover Monthly Meeting (NH)  
Huddersfield Friends (UK)  
Haverford Quarterly Meeting  
Lansdowne Monthly Meeting  
Lehigh Valley Monthly Meeting  
Medford Monthly Meeting  
Mt Holly Monthly Meeting  
Newtown Monthly Meeting  
NY Quarterly Meeting  
Old Haverford Monthly Meeting  
Quakers' Meeting for Sufferings  
(Britain Yearly Meeting)  
Religious Society of Friends (Australia)  
Strawberry Creek Monthly Meeting (CA)  
Swarthmore Monthly Meeting

Trenton Monthly Meeting  
Westtown Monthly Meeting

**More Denominations**

World Council of Churches  
Union Theological Seminary  
United Church of Christ National  
United Reform Church of Scotland  
Maine Council of Churches  
Franciscan Sisters of Mary  
The Church of Sweden  
The Uniting Church of Australia  
The Presbyterian Church in New Zealand  
Diocese of Oxford Church of England  
The Shalom Center  
Colorado Ratnashri Sangha  
Pacific School of Religion  
Anglican Diocese of Sydney  
Episcopal Diocese of Olympia (WA)  
Church of St. Paul and St. Peter (UMC)

and dozens more...

**Faith communities exercising moral  
leadership and investing with integrity**

Eco-Justice Collaborative of Philadelphia Yearly Meeting  
<http://www.pym.org/eco-justice-collaborative/>  
[www.greenfaith.org](http://www.greenfaith.org)  
[quakerearthcare.org](http://quakerearthcare.org)



**Philadelphia  
Yearly Meeting**  
Eco-Justice Collaborative

# 100% Renewable Electricity Challenge

## For our houses of worship & homes by 2016



### Friendly Households is a project of the The Eco-Justice Collaborative

The Eco-Justice Collaborative is a collective effort of area Friends and Friends Meetings to honor our testimonies of environmental and economic stewardship as we respond to the challenge of climate change. We seek to improve the resilience and health of our places of worship and create communities of simplicity and fellowship

**For more information or to  
volunteer in your Quarter  
contact:**  
nextgenconference@gmail.com

**The Climate Challenge is an invitation to Friends to unite to take actions that will have immediate positive impacts on the commonwealth of life.**

Switching your Meeting and home to a 100% renewable electricity is the first challenge!

If we want to combat climate change, we need to profoundly change the way we use and generate energy, minimizing our greenhouse gas emissions. Of the total energy consumed in America, about 40% is used to generate electricity. Unfortunately, most of the electricity in the United States is still generated from fossil fuels such as coal.

By choosing clean energy such as wind or solar power for our houses of worship and our homes, we indicate which direction our energy policy should be taking and drive demand for more renewable energy.

### Sign-Up!

Signing your household up for 100% renewable electricity is the equivalent of taking your car off the road for nine months — that's how much CO<sub>2</sub> you will save!

The difference we can make together.

As Friends, we will:

- Clean the air we breathe and save thousands of lives
- Power our local grid with domestically produced wind and solar, use fewer fossil fuels.
- Create local jobs and new revenue for local schools.
- Save millions of gallons of water wasted by oil and gas extraction.
- Support the local renewable energy industry
- Battle global climate change, every day.

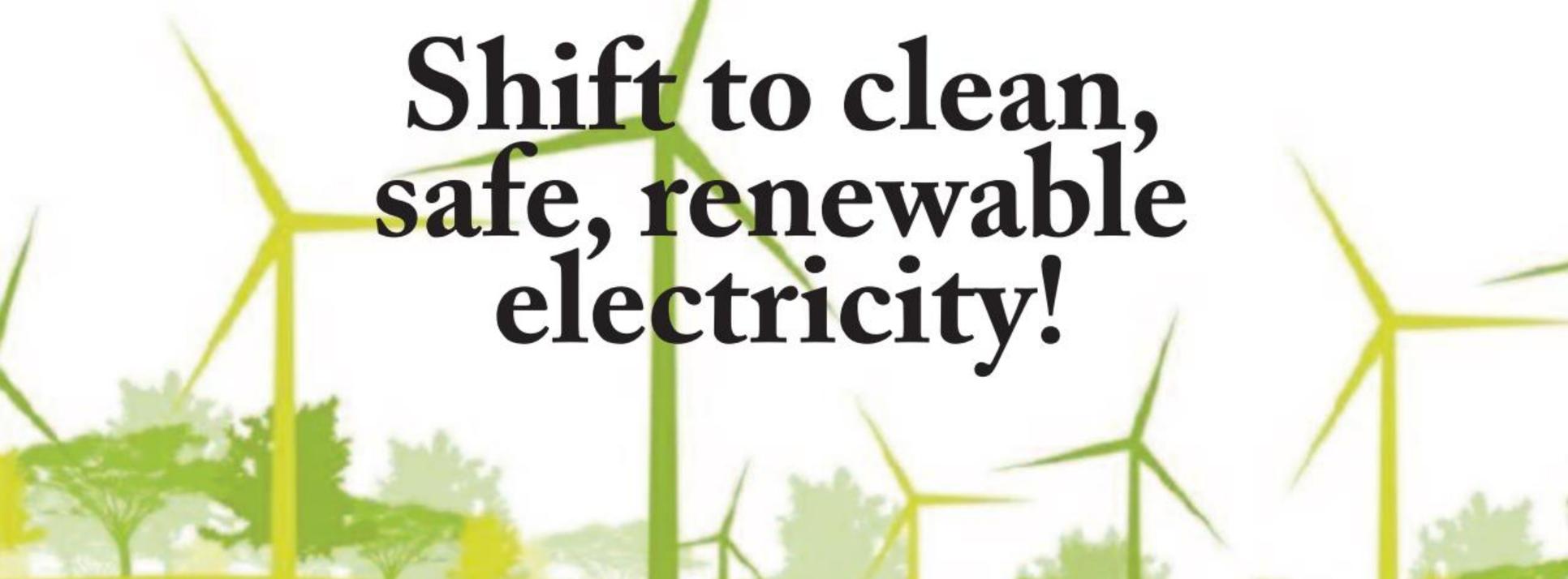
### 100% of our Friends' Meetings for 100% Renewable Energy

In just 15 minutes, your Monthly Meeting could be 100% powered by renewable electricity! What a potent example we set by committing to 100% renewable energy for our Meetings and households. Thanks to recent deregulation in the energy market, the electricity you purchase in your monthly electricity bill could be supplied by wind turbines, solar plants, or hydroelectric dams, while remaining affordable. By switching your electricity provider, you can slash your meeting's carbon footprint and do your part to prevent climate change. You may not be able to install your own solar panels, but now every Meeting has the potential to be powered by renewable electricity for roughly the same amount of

**Friends' Meetings, Embracing a Just Transition.  
Our goal—100% Renewable Electricity.**

**We're off to a good start!  
Let's keep the momentum going.**

**Shift to clean,  
safe, renewable  
electricity!**



# PYM Climate Sprint 2021

## Background

- ▶ Climate Minute
- ▶ Further Questions
  - ▶ What does it look like to have a PYM-wide corporate witness on climate change and eco-justice?
  - ▶ How would it function?
  - ▶ How would we promote transparency and facilitate sharing?
  - ▶ What am I, as an individual, called to do?

# Spiritual Grounding

- ▶ Witness to the truth
- ▶ Called to action
- ▶ Climate Change and Racial Justice

# Climate Change Action Areas.

- **Activism Action Area**

Through advocacy and Non-Violent Direct Action (NVDA), the YM will make a vocal and public witness to the existential crises of our time, using our moral authority to advocate for a swift and just transition to promote environmental justice and climate action.

- **Education Action Area**

Despite increasing coverage of climate change in the news, the level of knowledge in the general population and among Friends on the issue is very uneven. Gaining support for action requires that people understand what is causing climate change, what the current and potential future impacts of climate change are, and what changes in our economy and society are needed to address climate change.

- **Carbon Footprint Reduction Action Area**

By reducing our own carbon footprint, we acknowledge our responsibility for global warming, and in doing this work, we lead by example. To be faithful to the work of reducing emissions, we must also address the systems that perpetuate and drive our limited clean energy choices. This work must be done at all levels of the YM from individuals and meetings to the Philadelphia Yearly Meeting staff and leadership.

- **Finances Action Area**

A component of our commitment to addressing climate change involves greening our purchasing, investments, and related financial systems. Meetings, individual Friends, and families are actively encouraged to align their own spending and investments with the agenda of addressing climate change and to have a greater social and environmental impact.

- **Mourning Loss and Instilling Hope Action Area**

For many, the enormity of the climate crisis and the urgency of addressing it can bring forth a sense of hopelessness. Many Friends also feel a deep sense of loss from the changes taking place in nature while understanding that our own way of life is largely responsible for the crises we face today. All of this can lead to a paralyzing feeling of despair. While we are asking ourselves to make climate change and environmental justice a priority, we must also take care of the people who are doing the work.



Concord Quarter Climate Action Working Group  
First action: Disaster Preparation Series



## Vanguard has a BIG Climate Problem

Posted by Tab Skervin on October 21, 2021

Last month, we announced that EQAT will be joining the Vanguard's Very Big Problem Campaign - an international effort led by various activists and organizers around the world, all demanding that Vanguard divests from climate chaos.



[Home](#) / [Campaign](#) / [Vanguard's Big Climate Problem Walk](#)

## Vanguard's Big Climate Problem Walk

Monday, April 18 to Friday, April 22 -- [Click here to sign up!](#)

### Why are we walking?

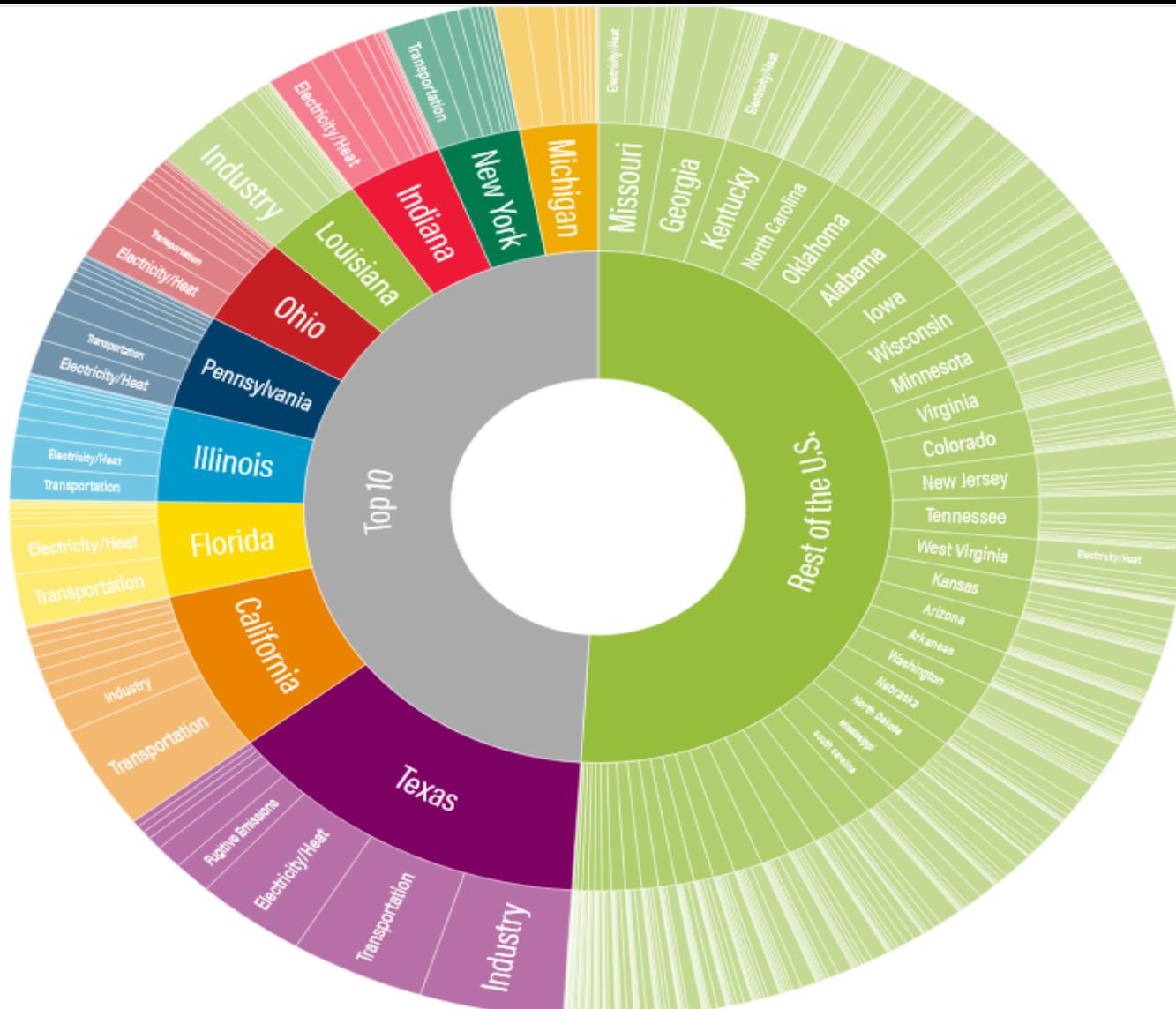
One of the biggest asset managers in the world, Vanguard's business strategy makes it a major driver of climate destruction and environmental racism. It is one of the largest global investors in coal, oil, and gas and it's also a top investor in polluting industries close to home.



## Federal policies and actions

- 
- How much federal funding for climate response?
  - Fossil fuel fees?
  - Elimination of fossil fuel supports?
  - Policies on energy transition?
  - Extent of support of COP26 and new reports?

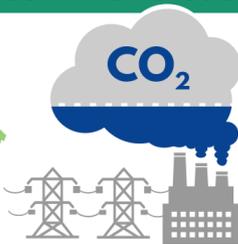
# Yes, what PA does matters too!



# State level policies

## PA Participation in the Regional Greenhouse Gas Initiative (RGGI)

RGGI is a partnership between Northeastern and mid-Atlantic states...



...Designed to cap and reduce carbon emissions from fossil fuel fired power plants.

The electricity sector is the 2nd leading source of Greenhouse Gas Emissions in PA.



By 2025

Participating in RGGI will help PA reach our greenhouse gas emissions goals...



By 2050



Since 2005, RGGI states have significantly reduced their power sector CO<sub>2</sub> pollution.

...And help PA combat climate change.



# Pennsylvania Climate Action Plan



Strategies for government, business, agriculture, and community leaders—and all Pennsylvanians





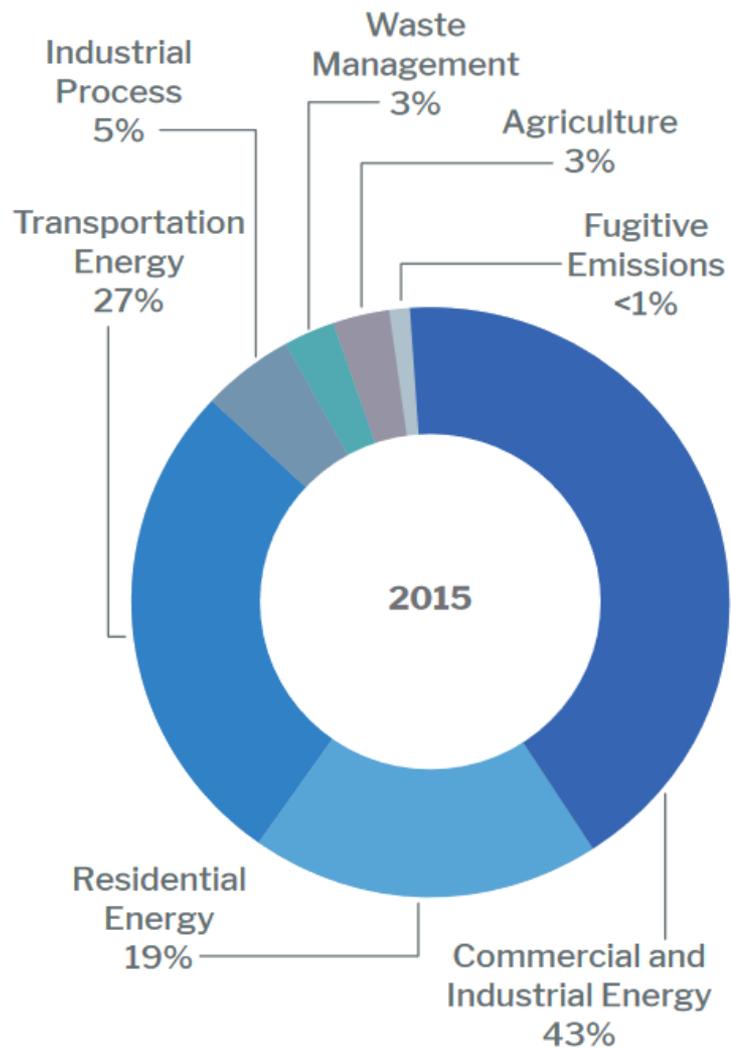
# CHESTER COUNTY CLIMATE ACTION PLAN



January 27, 2021  
DRAFT

Objectives and Actions for Community Engagement  
and County Facilities & Operations

## County-Wide Greenhouse Gas Emissions by Sector, 2015



[About Us](#)[Comprehensive Plan](#)[Planning Topics](#)[Data, Maps, & Reports](#)[Municipal Corner](#)

# Environment

## Environmental and Energy Advisory Board

[Home](#) » [Planning Topics](#) » [Environment](#) » [Environmental and Energy Advisory Board](#)

In 2019 the Commissioners announced the formation of a Chester County Environmental and Energy Advisory Board. The Environmental and Energy Advisory Board will enhance the County's commitment to preservation and protection of the environment and focus on the balance, interplay, and impact of energy related initiatives and issues.

In February 2020 the Commissioners voted to appoint 15 individuals to the County's Environmental and Energy Advisory Board. The members of the Board include Chester County residents along with representatives of businesses, energy initiatives, municipalities, land conservancies and county departments. [View press release.](#) ►

# Chester County Environment Alliance

Protecting and enhancing the environment in Chester County PA: Listen to the scientists!

[HOME](#)

[CALENDAR](#)

[ABOUT CCEA](#)

[WHO'S IN CCEA?](#)

[JOIN US!](#)

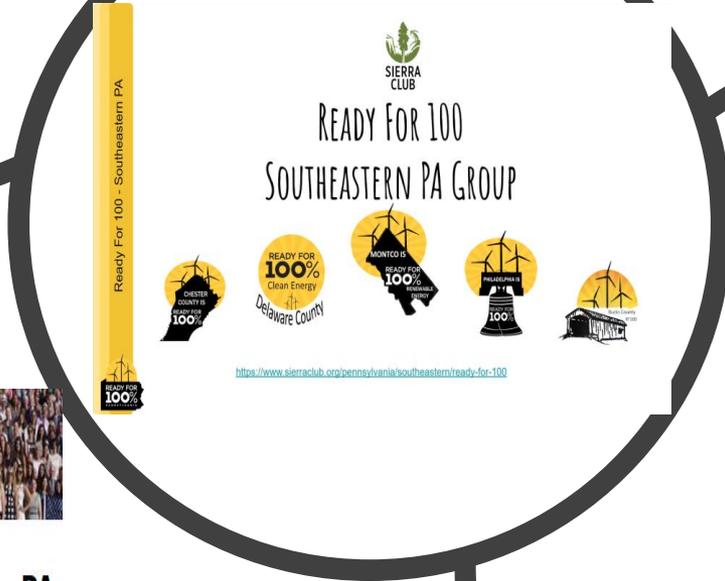
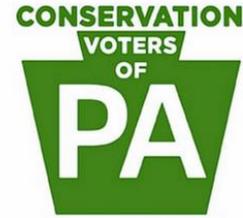
[CONTACT](#)



Featured post

[FACEBOOK PUBLIC GROUP](#)



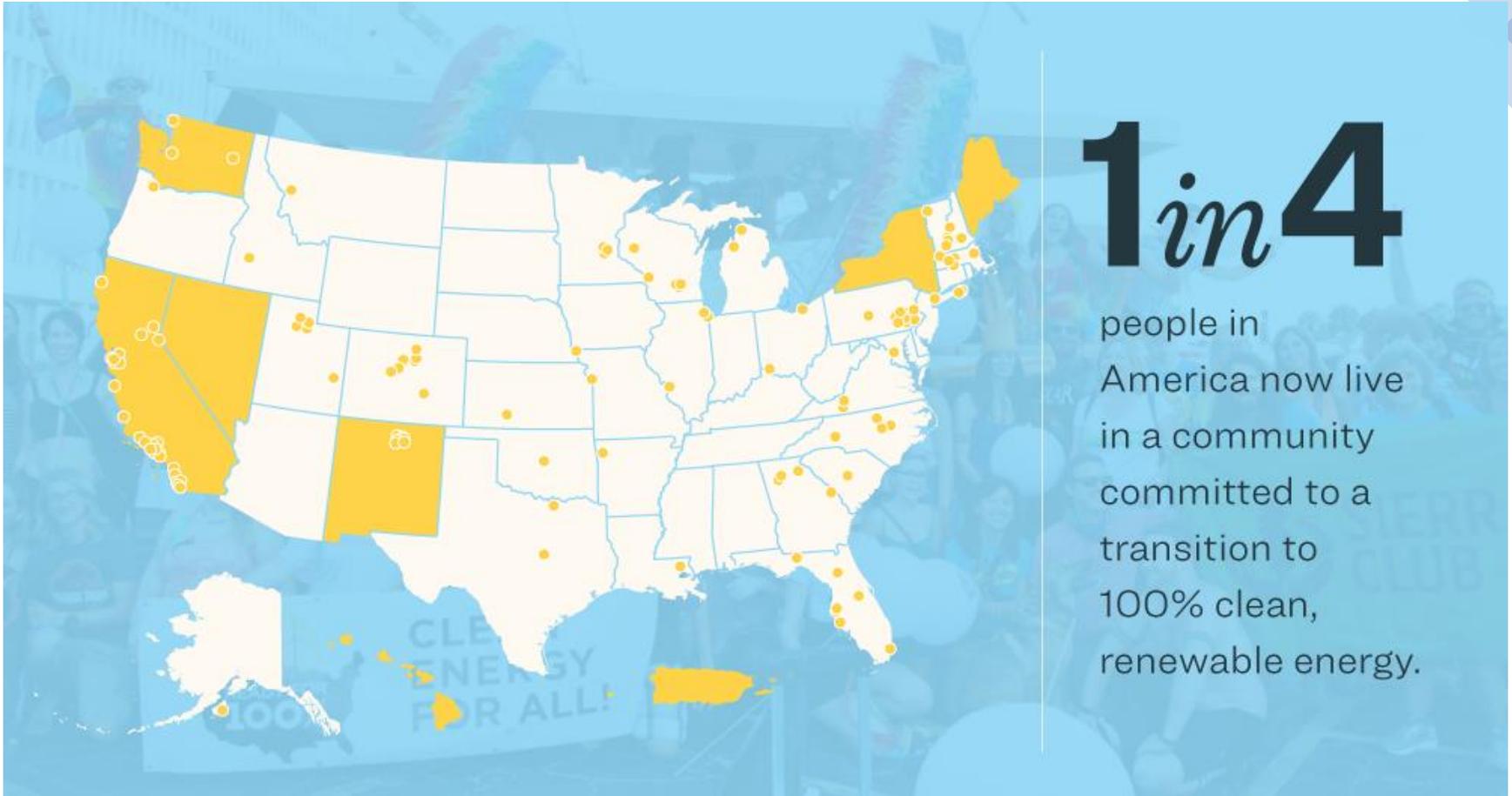


**Fight like you live here.**



**Citizens' Climate Lobby - PA  
Chester County**

@CCLChescoPA - Cause



# 1 *in* 4

people in  
America now live  
in a community  
committed to a  
transition to  
100% clean,  
renewable energy.

# Leading and joining other U.S. municipalities

## Communities are ready for 100%

Find a Ready For 100 campaign or city that is committed to—or powered by—100% clean energy near you. Learn more or take action now!

[Explore Our Map](#)

**165**

Committed Cities & Towns

**60+**

Active Campaigns

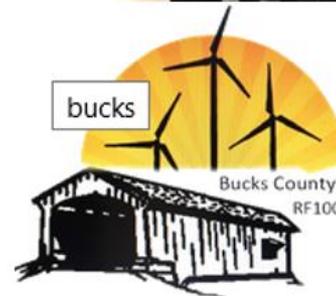


An inspired group of activists in municipalities

## Passed *Ready for 100* Resolutions in our region



**CLEAN  
ENERGY  
FOR ALL!**  
Readyfor100.org

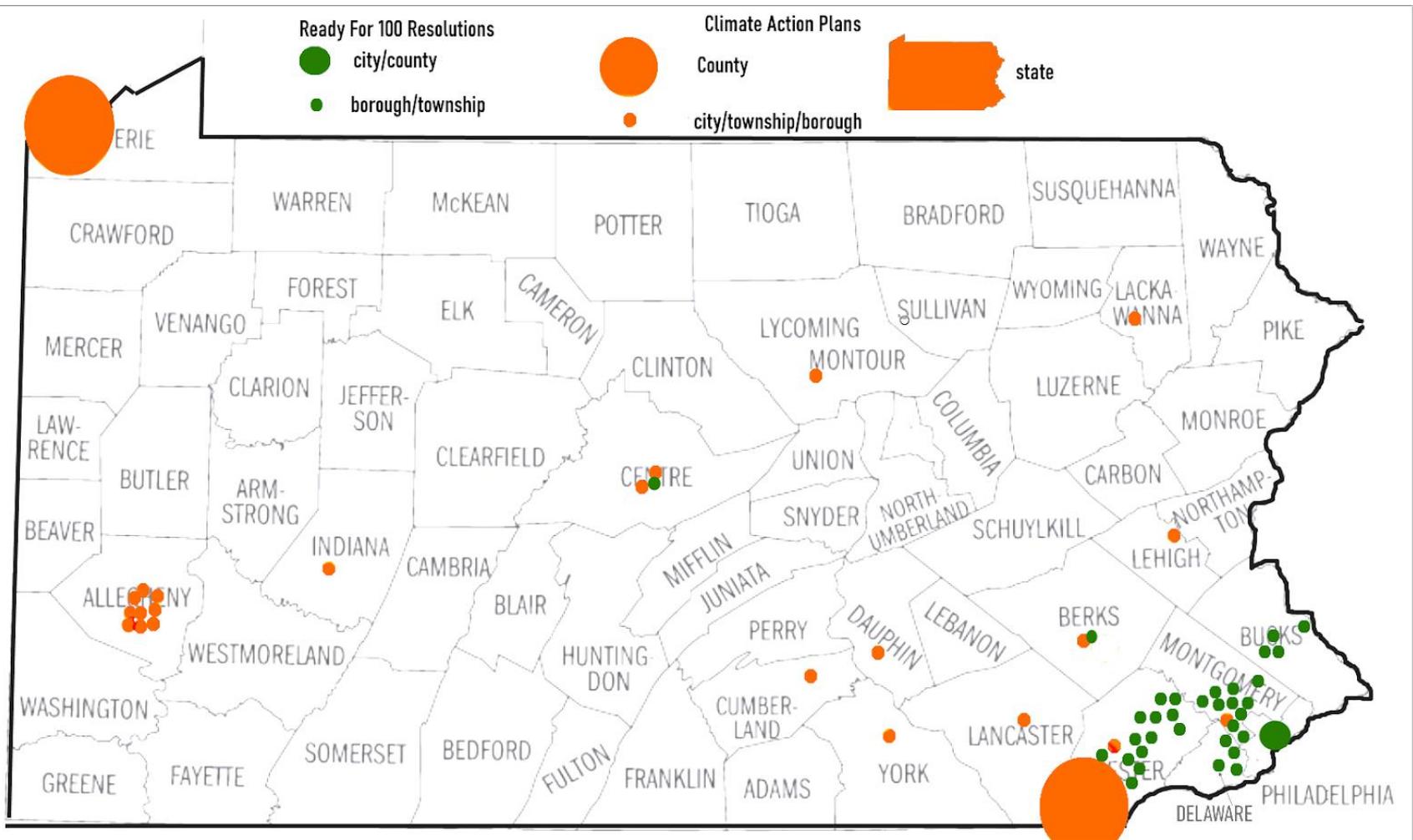


Ready For 100 Resolutions

- city/county
- borough/township

Climate Action Plans

- County
- city/township/borough

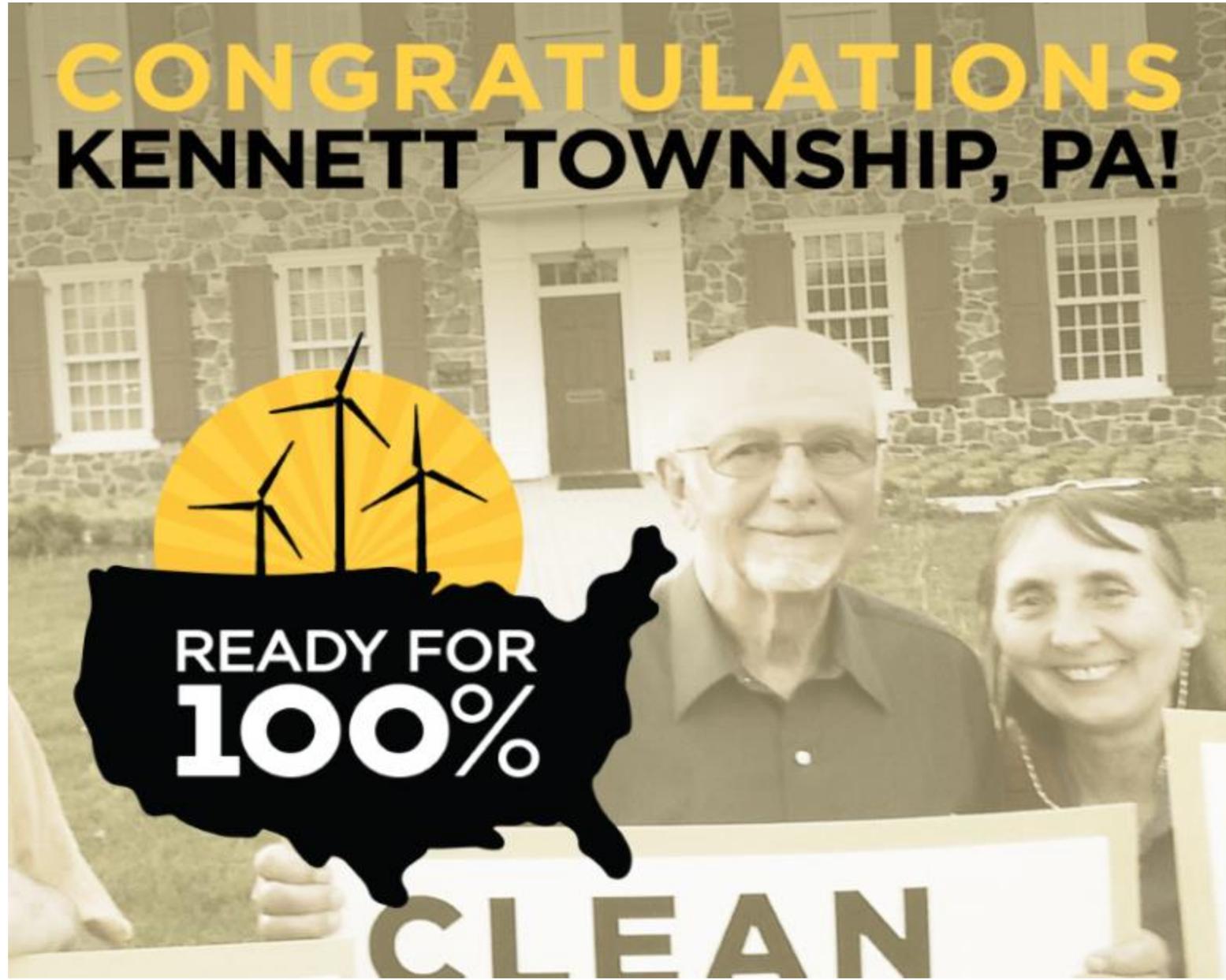


# CONGRATULATIONS KENNETT TOWNSHIP, PA!



READY FOR  
**100%**

**CLEAN**





Pocopson Township | P.O. Box 1 | Pocopson, PA 19366 | Office Phone: 610.793.2151

[HOME](#) | [TOWNSHIP GOVERNMENT](#) | [VOLUNTEER COMMITTEES](#) | [ENERGY COMMITTEE](#)

 TOWNSHIP GOVERNMENT

 TOWNSHIP SERVICES

 COMMUNITY



### Energy Committee

**Mission:** To provide ideas and suggestions of cost-effective approaches to help the township reach its goal: "To use 100% renewable energy by 2050."

The team will help the Township identify and reduce its energy use and carbon footprints. These issues and ideas will be shared with township residents and local industries. We encourage both residents and industries to share what they are doing to reduce their carbon footprints.

# CARBON NEUTRALITY

## BY YEAR 2050

Limiting global warming to 1.5°C with no or limited overshoot requires rapid and far-reaching transitions in energy, land use, infrastructure, and industrial systems.\* The good news is, the pathways are clear and feasible with existing technology!

### Phase 2 Planning the Roadmap for

Contract with a Consultant

Apply for a DEP – Climate Action Plan

DIY

# The invitation to work together

## The Process for Developing a CESP

U.S. DEPARTMENT OF  
**ENERGY** | Energy Efficiency & Renewable Energy



### Guide To Community Energy Strategic Planning



MARCH 2013

U.S. DEPARTMENT OF  
**ENERGY** | Energy Efficiency & Renewable Energy  
NREL.gov

## Who responded!

Abington

Buckingham

Charlestown

Borough of Downingtown

East Marlborough Township

East Pikeland

Lansdowne Borough

Plymouth Township

Pocopson Township

Schuylkill Township

Solebury Townshin

Springfield Township

Swarthmore Borough

Tredyffrin Township

Upper Dublin Township

Upper Merion Township

Uwchlan Township

West Pikeland

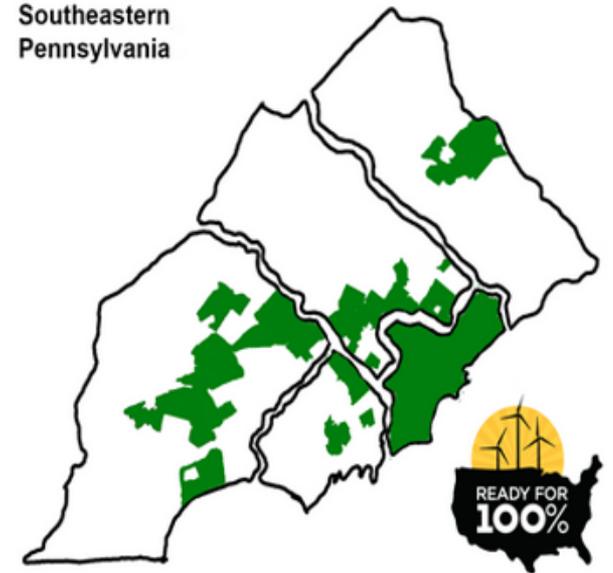
West Vincent Township

Whitemarsh

*Auditors:* Charlestown, Conshohocken, Lower Providence, Phoenixville, West Bradford,

West Chester Area Council of Government  
communities

Southeastern  
Pennsylvania



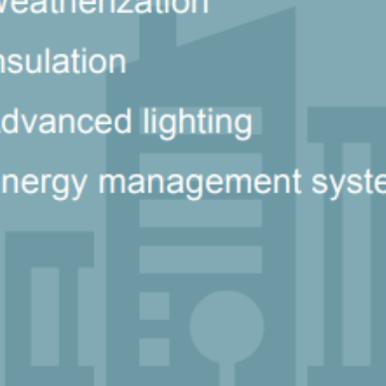
# A Clean Energy Future for our Community

## HOW DO WE GET THERE?

### 1 BUILDING PERFORMANCE & EFFICIENCY

---

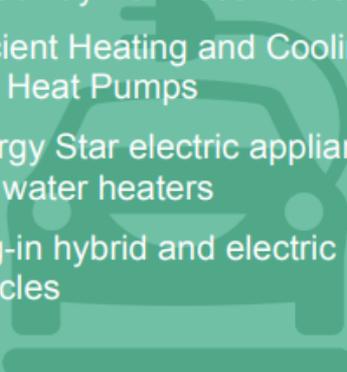
Weatherization  
Insulation  
Advanced lighting  
Energy management systems



### 2 VOLUNTARY ELECTRIFICATION

---

Shift away from fossil fuels  
Efficient Heating and Cooling  
with Heat Pumps  
Energy Star electric appliances  
and water heaters  
Plug-in hybrid and electric  
vehicles



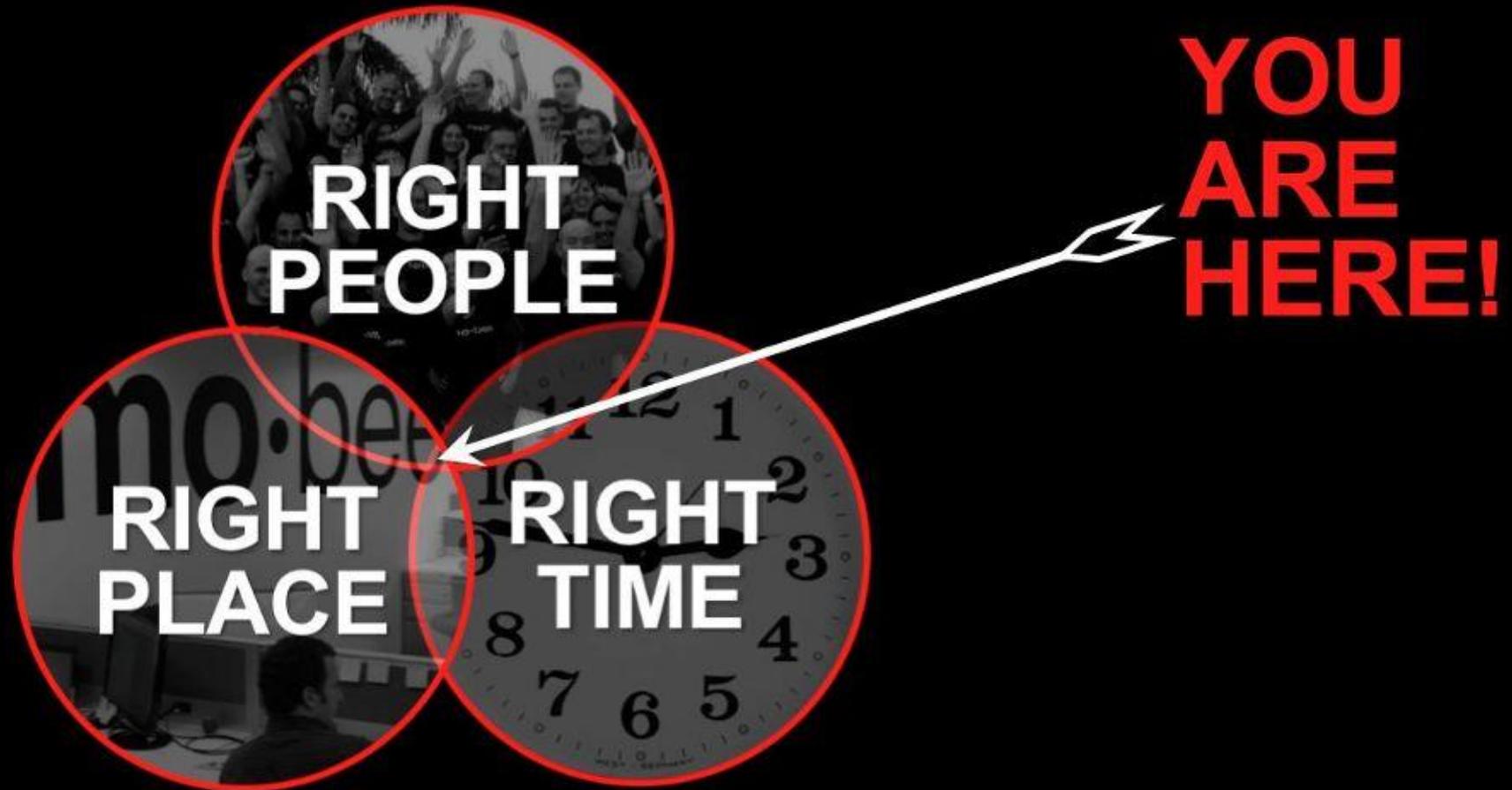
### 3 RENEWABLE ELECTRICITY

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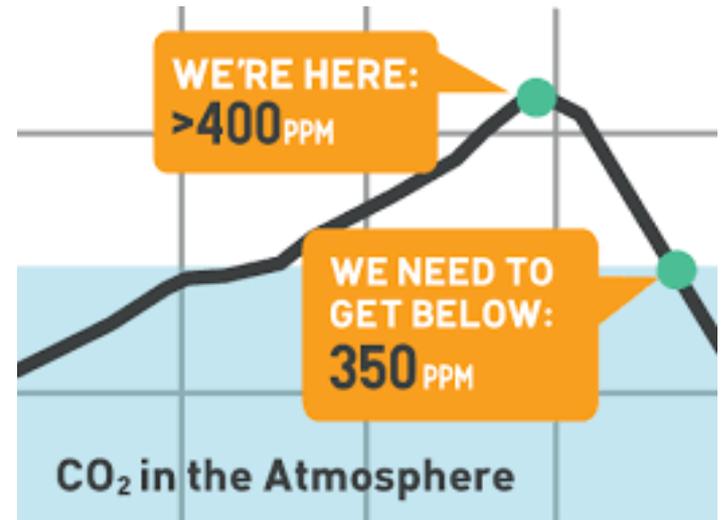
Purchase renewables through  
PA Powerswitch or Power  
Purchase Agreements  
On-site and off-site renewable  
generation  
Advocate for a much higher  
Alternative Energy Portfolio  
Standards and for Community  
Solar Legislation



The municipalities have done their work –  
where do we fit in?



# Third Act



## LET'S COME TOGETHER AS A GENERATION

We invite you to join Third Act, a community of experienced Americans determined to change the world for the better. Together, we can make a difference.

 [Continue Reading](#)

# Options for Investing in the Planet's Future

## Where you live

- Institutional commitments
  - For procurement
  - For energy production
  - For transportation
  - For electrification of heating and cooling
  - Plant trees

## Personal choices

- Buy an electric car

## Community wide

- Advocate for the transition
- Make public statements at local government meetings
- Support family members
- Fund local groups and projects



Energy Efficiency  
in Water Cycle  
Management



What might we do to support:

- Action in neighboring townships?
- Resolutions and clean energy practices at individual schools and entire public-school districts?
- Wastewater and Water Authorities who are high emitters to upgrade and improve efficiency?
- Local governments drafting climate action plans?
- Supporting equity centered clean energy programs (Audits, LIHEAP registration, etc.) How to work with PECO, other local models and examples to support renters and homeowners, HOAs and multifamily buildings?



Partnerships to  
invest in our own  
communities' future



# Supporting our children and grandchildren's households

Can we invest in the  
next generation's  
energy systems?  
Can we help invest in  
low-income  
communities?

## HOW DO WE REACH OUR GOAL?

# We need to encourage voluntary action over the next 2 decades.

In the best case scenario we modeled, each year in Plymouth:



**227\***

HOUSING UNITS

would undergo weatherization improvements, many with funding and rebates from governmental agencies and PECO.

would be upgraded with more efficient Energy Star appliances and LED lighting as the existing appliances and light bulbs need to be replaced, receiving rebates for these purchases.



**46\***

OIL & PROPANE  
FURNACES

would be replaced each year (when the furnace needs to be replaced) with high efficiency heat pumps, saving money on operating costs.

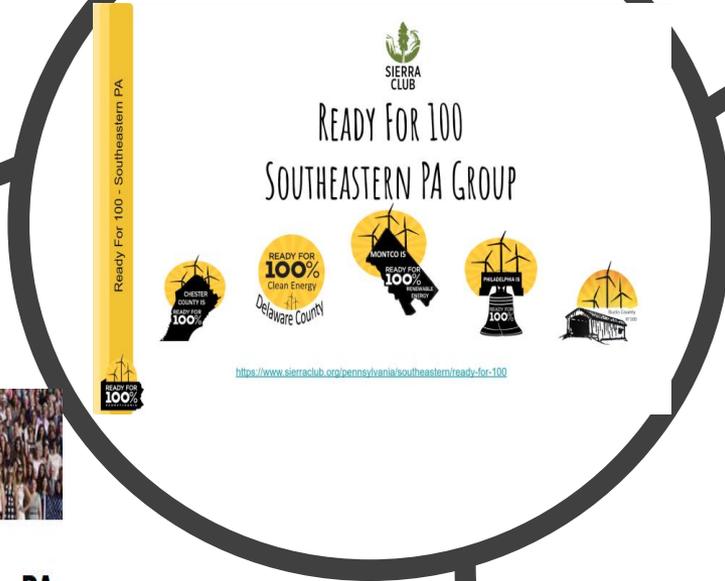
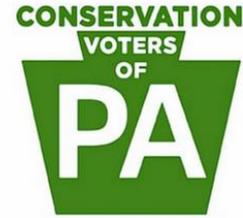
Plymouth has 6,813 housing units.



**124\***

GAS-FIRED  
FURNACES

would be replaced each year (when the furnace needs to be replaced) with high efficiency heat pumps, saving money on operating costs. This process would start later (for instance in 2026), because of the economics of the conversion.



**Fight like you live here.**



**Citizens' Climate Lobby - PA  
Chester County**

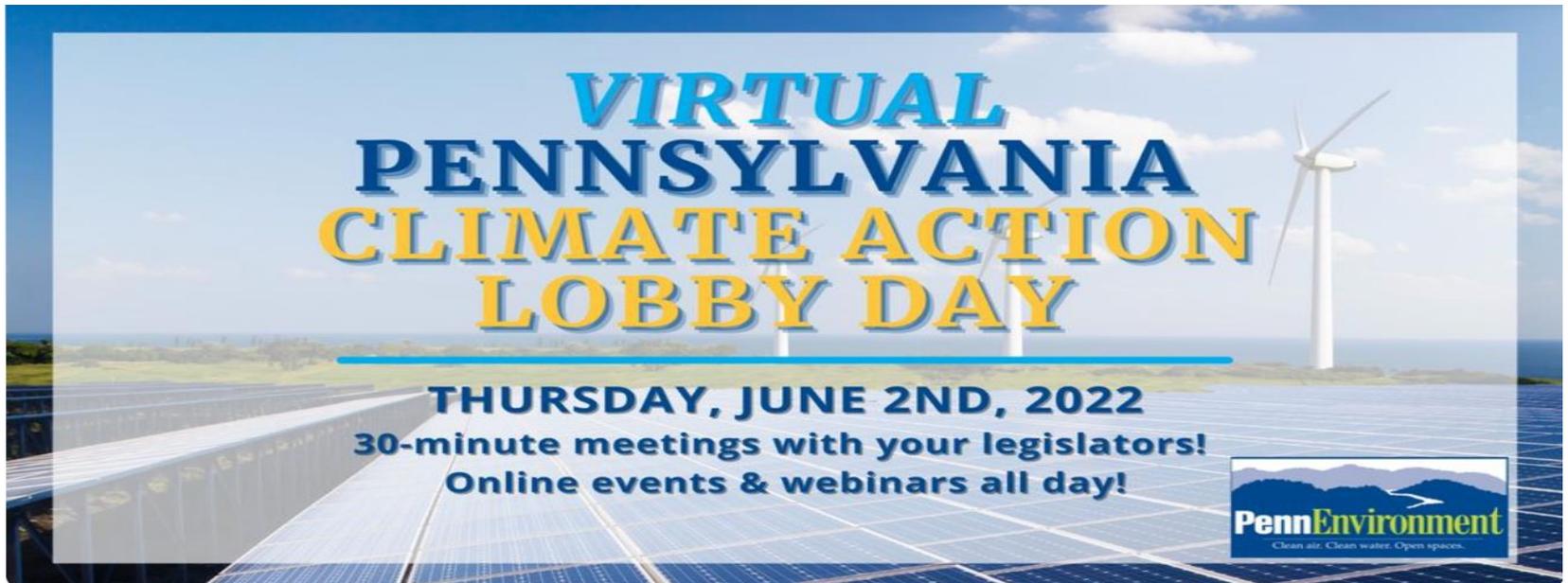
@CCLChescoPA - Cause

# Vanguard's Big Climate Problem Walk

Monday, April 18 to Friday, April 22 -- [Click here to sign up!](#)

## Why are we walking?

One of the biggest asset managers in the world, **Vanguard's business strategy makes it a major driver of climate destruction and environmental racism.** It is one of the largest global investors in coal, oil, and gas and it's also a top investor in polluting industries close to home.



**VIRTUAL  
PENNSYLVANIA  
CLIMATE ACTION  
LOBBY DAY**

**THURSDAY, JUNE 2ND, 2022**  
**30-minute meetings with your legislators!**  
**Online events & webinars all day!**

**PennEnvironment**  
Clean air. Clean water. Open spaces.

The graphic features a background of a vast solar farm with rows of solar panels stretching into the distance under a blue sky with a few clouds. A single white wind turbine stands prominently on the right side of the image. The text is overlaid in a semi-transparent white box.



## Report Main Findings

There's no going back from some changes in the climate system. However, some of these changes could be slowed and others could be stopped by limiting warming.

Without immediate, rapid and large-scale reductions in GHG emissions, limiting warming to 1.5°C will be out of reach.



# Warming already baked in will blow past climate goals, study finds

A study in the journal Nature Climate Change figures the carbon pollution already put in the air will push global temperatures to about 2.3 degrees Celsius.



# WEST CHESTER AREA CLEAN ENERGY FUTURE

## YOU CAN BE PART OF THE CHANGE!

Community Wide 100% Clean Energy by 2050  
Public Meeting focused on *West Chester Area Residents*  
with breakout rooms and guest speakers on:  
REDUCE: PECO Home Energy Assessment  
ELECTRIFY: Electric Vehicles in PA  
TRANSITION: Solarize Greater WC (residential solar opportunities)

## JOIN US!

May 20, 2021 | 6:00- 7:00 PM  
or June 3, 2021 | 6:00- 7:00 PM

via Zoom



For info, agenda, and registration link:  
[www.wcacog.org/cef-events](http://www.wcacog.org/cef-events)



Participating Townships:  
East Bradford, East Goshen, West Goshen,  
West Whiteland, Westtown, West Chester Borough

Let's not do this alone!

Collaboration