Local Government Options for Clean Energy & Climate Action

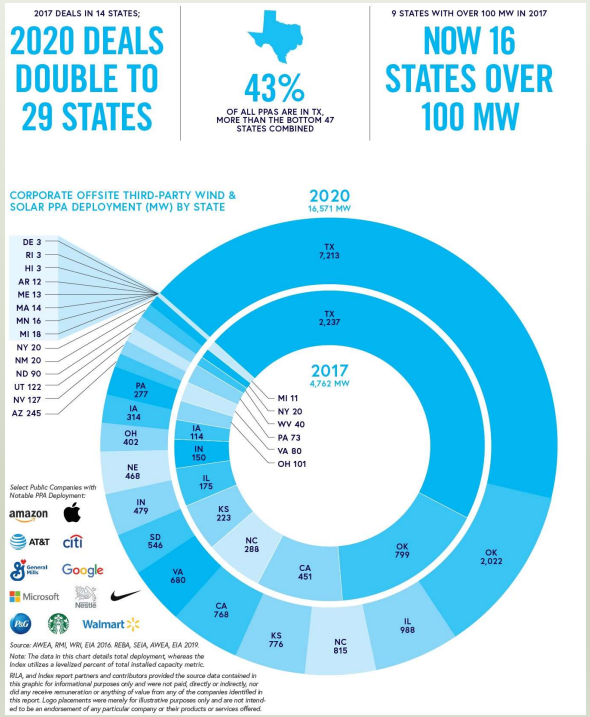
JUNE 25, 2021

#LocalsLeadTheWay:

- ✓Federal and state policy frequently is dominated by special interest $$
- ✓Yet citizens and Fortune 500 purchasers increasingly want and buy clean energy.
  - "Large commercial and institutional buyers are changing the energy landscape as we know it. In the last five years, Fortune 500 companies and other large institutions, such as the military, cities, and universities, have transformed electricity markets by ramping up their purchases of renewable energy." *--Customer Renewables Monthly, March 2020, David Gardiner and Associates*
- ✓Communities across Ohio are investing in savings and public health via energy efficiency and clean energy.

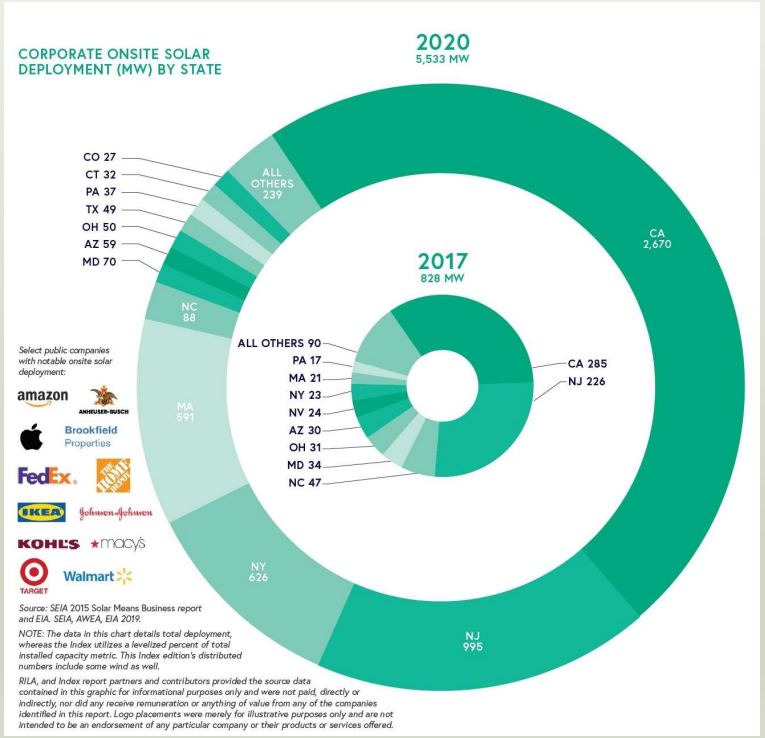
Corporate Clean Energy Purchasing: Offsite Third-Party Wind & Solar PPAs

- ✓Deals double from 2017 to 2020
- ✓Ohio at 402 Megawatts (18th Nationwide)
- ✓Corporate purchasers include household names:



Corporate Clean Energy Purchasing: Retail Leads On-Site Deployment

- ✓Ohio at 31 Megawatts
- ✓Corporate purchasers include household names:



Already happening: NE Ohio Local Governments Clean Energy Caucus

Today at Lakewood City Hall, **13 local governments** and representatives from **16 communities, 4 counties, 2 citizen groups, 4 clean energy business experts**, and members of **both major political parties** met for the inaugural meeting of the Northeast Ohio Local Governments Clean Energy Caucus. We shared information, reported on projects in our communities, and resolved to meet again and expand this network to broaden use of affordable, clean power.(Nov. 19, 2019)

Already happening:
Power a Clean Future Ohio

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You are invited to **become a partner in our campaign** to build momentum now for a clean, prosperous future by equipping local leaders for community-driven carbon reductions in Ohio. Power A Clean Future Ohio is empowering local leaders with tools and resources to create carbon reduction plans and implement them in ways that are achievable, measurable, equitable, and economical.

Join a fast-moving campaign that has already demonstrated success in communities across Ohio!

THE GOALS OF THE CAMPAIGN ARE TO:

Reduce the carbon footprint
of local communities across Ohio.

Attract clean energy
development to the state to create careers for Ohioans.

Implement equitable policy solutions
in disproportionately impacted communities.

Reduce energy costs
for cities, businesses, and residents.

IF YOUR ORGANIZATION OR BUSINESS SUPPORTS:

- ☐ local action to reduce emissions
- ☐ building more renewable energy in Ohio
- ☐ more clean energy careers for Ohioans
- ☐ growing the electric vehicle market in our state
- ☐ environmental justice and equitable energy policy for all Ohio residents
- ☐ reducing energy waste in homes, buildings, and businesses
- ☐ making our communities cleaner, healthier, and more vibrant and sustainable for all

...THEN YOU ARE THE IDEAL PARTNER IN THIS EFFORT.

Already happening:
Power a Clean Future Ohio

HOW DO PARTNERS HELP THE CAMPAIGN?

- **Your support** among a diverse set of partners demonstrates the broad appeal of this campaign across a variety of sectors.
- **Your involvement** will help us spread the word about this exciting movement and encourage others to get involved.
- Every new partner expands our network of validators and adds **new voices to this effort.**

HOW ELSE CAN YOU HELP?

- Help us **contact or connect** with your local government officials!
- **Sponsor** the *Ohio Clean Energy Summit: Local Communities Lead*
- **Author** a blog post supporting our work for our website or wider publication
- **Reach out** to local government leaders and ask them to get involved and join the Power a Clean Future Ohio campaign

https://www.poweracleanfuture.org/

Power A Clean Future Ohio
LOCAL COMMUNITIES LEADING THE WAY

NEED MORE INFORMATION?

Contact: Joe Flarida
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614-392-7997

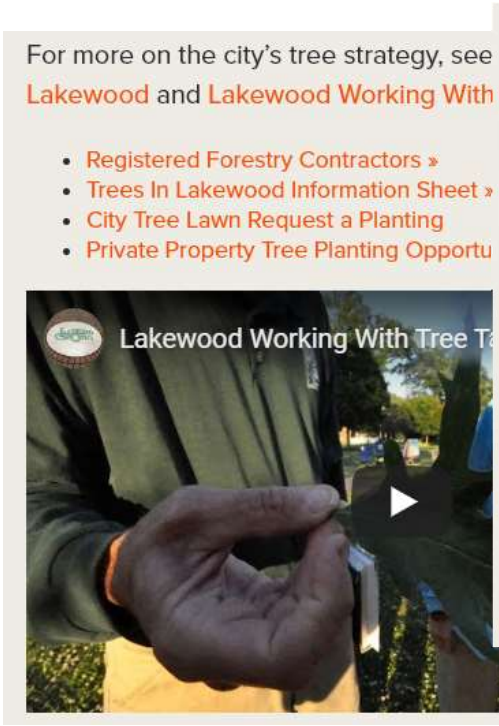
What Can Local Governments (Communities) Do?

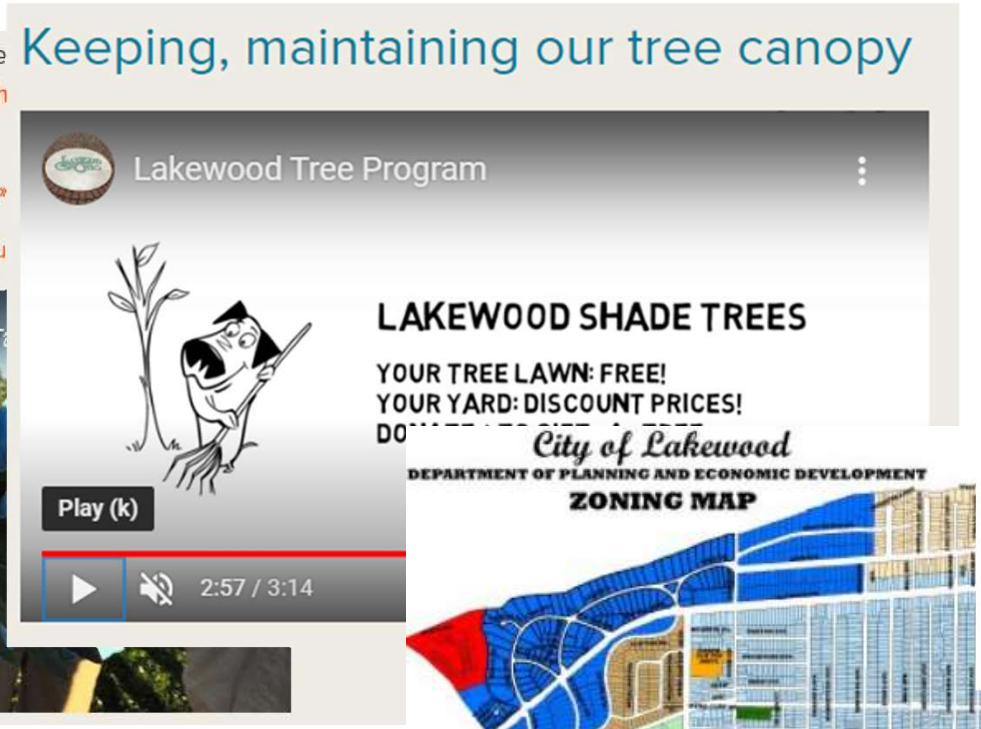
- ✓Use clean and efficient energy internally
- ✓Convert to clean transportation
- ✓Help businesses and residents use clean and efficient energy and transportation
  - ➢Advocate to NOPEC to help with this
- ✓Use zoning, building code, and land use tools for sustainability and resiliency
- ✓Citizens lead the way: lead by example, set priorities and hold leaders accountable!

What is Lakewood Doing? Our Foundation:

- Community vision: calls for sustainability, health, and affordability
- Ohio's most walkable city: 5.6 square miles, 52,000 people, 90 miles of street, 180 miles of sidewalk
- 1,100 pedestrians and 225 cyclists pass through Lakewood's downtown in a typical six-hour period
- Served by six bus lines and two rapid rail stations

What is Lakewood Doing?
Start With Land Use, Trees, Sidewalks





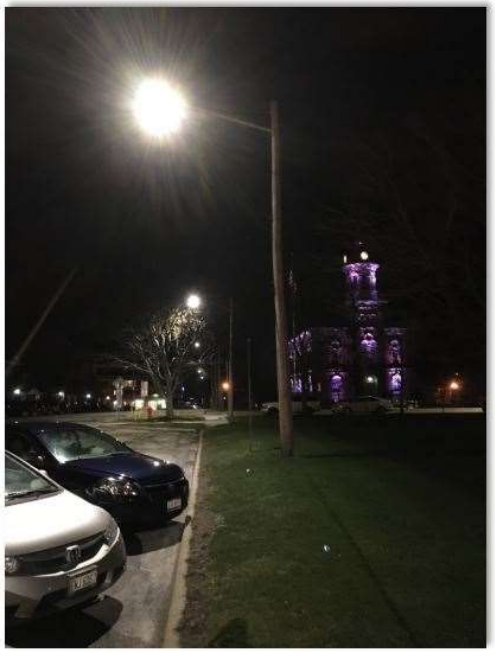
What is Lakewood Doing? Clean Energy Use

- ✓Set a goal for 100 percent clean energy use by City by 2025; by community at large by 2035
- ✓Two largest electric meters supplied by 100 percent clean; others by NOPEC (formerly 50 percent clean, now 13 percent)
- ✓Installing solar on four city-owned buildings this year. Benefits:
  - 691 KW system (115x home system), 1,796 panels, 788 MWh
  - 11% of city consumption.
  - $0 down for taxpayers $855,000 savings over 30 years.
  - Equivalent to removing 118 cars/year = 62,691 gallons of gas = 7.5 tanker trucks = 3 rail cars of coal = 656 acres forest

What is Lakewood Doing?
LED Streetlight Conversion

Municipalities moving to LED Streetlights

- **Las Vegas**
- **City of Cleveland (Cleveland Public Power)**
- **Hudson, Ohio (municipal utility)**
- **Cuyahoga Falls (municipal utility)**
- **Chardon, Ohio (Illuminating Company)**
  - 23 lights on Historic Square converted to LED in February 2017



Above – Chardon Square with LED streetlights, looking north.

What is Lakewood Doing?
LED Streetlight Conversion

Estimated LED Conversion Cost & Payback –Whole City

- **Conversion Cost***
  - 3,360 Illuminating Company streetlights
  - $301 per light conversion cost
  - Estimated total expenditure to convert: $1,011,360
- **Payback**
  - Conversion Cost: $1,011,360
  - Estimated Annual Savings: $151,668
  - Estimated Simple Payback: **6.67 Years**

* *Note: Estimate is for City of Lakewood, Illuminating Company legacy streetlighting vs. comparable LED Streetlighting. Pro-forma comparison. For informational purposes only. Rates and riders are PUCO-approved and are based on June 2017 Illuminating Company billing and are subject to change. LED streetlighting conversion recommendations are based on GE Lighting guidance. Estimated energy cost is $0.047/KWH. Actual savings may vary.*

Lakewood Clean Transportation: Completed Analysis

Fleet Alternative Fuel Options Analysis & Planning Services
Proposal for: City of Lakewood
Submitted: January 4, 2017

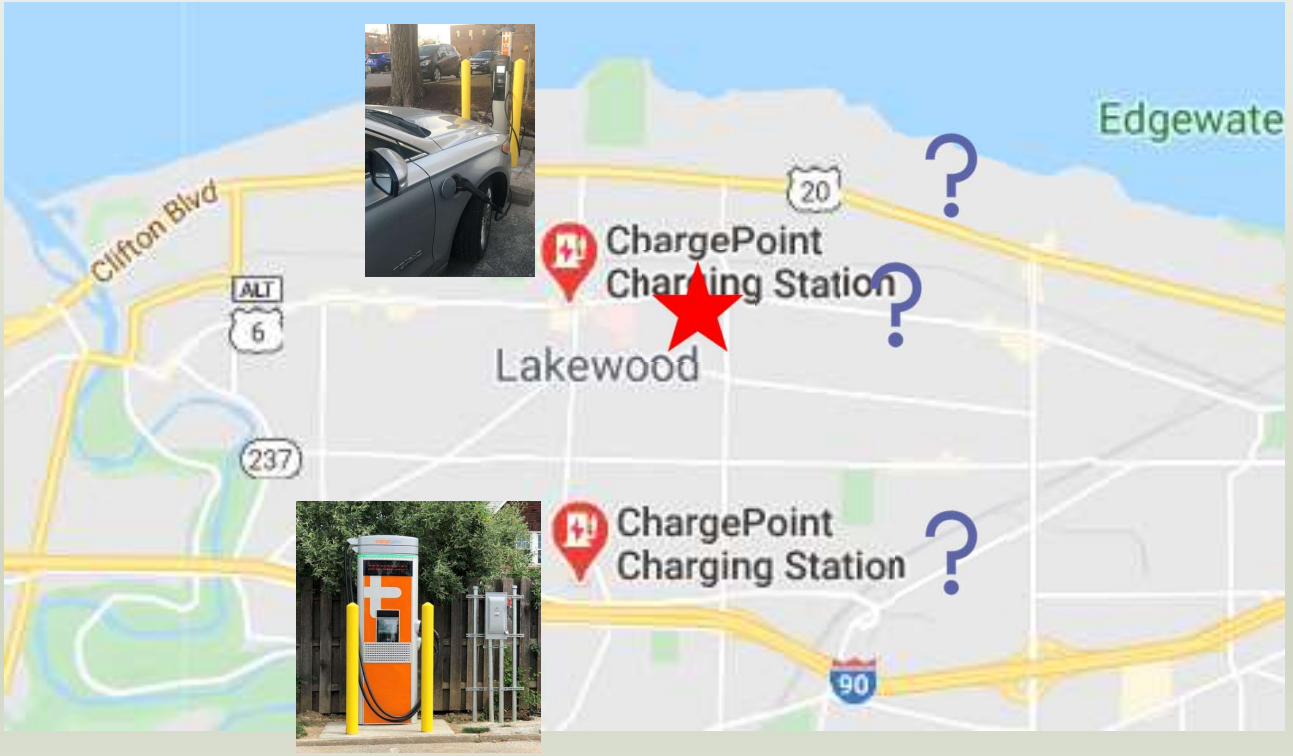
- Study by Clean Fuels Ohio in 2017 conducted Fleet Alternatives Analysis
- Partnered with Cleveland Metroparks in conducting that study
- Analyzed scenarios for usage of alternative fuels: natural gas, propane, biodiesel, EVs
- Small, heterogeneous fleet: many different work trucks and portable equipment for police, fire, parks, plows, refuse, sewers, forestry
- Short routes

Components of Lakewood's Clean Transportation Strategy

1. Clean Transportation in Ohio's Most Walkable City: Sidewalk Repair, Bike Infrastructure
2. Data foundations (5G) for future innovation
3. Electric Vehicle Infrastructure (Public Charging Stations and Zoning Considerations) (public-facing, fleet, and multi-family dedicated; user data)
4. Anti-Idling Systems for ICE vehicles in fleet—acquiring, installing, testing, and data-gathering this year, for scale up in future years.
5. Acquiring first efficient (hybrid) police cruiser this year
6. Pursuing EVs for new vehicle acquisition: pool (passenger) vehicles; pick ups; and exploring all-electric ASL refuse truck
7. Shared Mobility (Cuyahoga County Bicycle/Scooter Share)

Lakewood EV Charging Stations

- User Data: Growing steady for both total charges & unique users
- Third public-facing charger on way; want to add fleet and dedicated multi-family chargers



Lakewood Resiliency Task Force: Community Vision Update

- 13 Citizen Task Force Members deliberated for two years
- Result: Community Vision Update
- Integrates Public Heath and Economic Vitality with Sustainability

Lakewood Resiliency Task Force: Action Guide

- Result: Action Guide
- Recommendations for:
  - Economic Development
  - Education & Culture
  - Housing
  - Mobility & Connectivity
  - Safety
  - Community Wellness

RESILIENCY TASK FORCE ACTION GUIDE

WHAT IS THIS GUIDE?

Lakewood's Resiliency Task Force was formed in early 2018. The goal of the Task Force was to provide long-term planning guidance to the administration and City Council with a particular focus on resiliency. The group defined resiliency as the ability of a system (in this case the City) to overcome shocks and stresses.

The Task Force's first deliverable was a slate of updates to the *Community Vision* Master Plan. The Master Plan revisions represent high-level strategic moves to incorporate resiliency, equity, and technology into the City's Master Plan. This document memorializes the Task Force's program and policy recommendations for accomplishing the objectives in the *Community Vision*. It represents the Task Force's guidance as citizen advisors to the Administration and City Council.

The Task Force met monthly and collaborated online between meetings. Over their seventeen work sessions, the members worked through thirteen aspects of resiliency from air quality to waste management. For each topic area, the group generated a "template" document which identified current City policies and procedures, indicators which would be indicative of progress, potential programs and policies, and desired partnerships.

After completing the template documents, the Task Force moved into the second stage of its work which was applying the lessons learned to update the *Community Vision* Master Plan. By its nature, the *Community Vision* is a document that speaks in broad goals. The changes to the *Community Vision* proposed by the Task Force reflect an additional focus on resiliency especially as it relates to connectivity, public engagement, and equity.

After imprinting the Task Force's lessons learned onto the *Community Vision,* the Task Force was left with a body of program and policy recommendations that were too specific to be included in a Master Plan. These program and policy recommendations have been summarized in this *Action Guide*. They are intended to guide budgeting and policymaking once the Task Force has completed its formal work. The actions in the action guide can be led by public, private and non-profit community leaders, as well as led by Lakewood citizens and stakeholders. Some of the action items have city departments called out to help provide focus and clarity to city hall on what teams could lead action efforts.

Community Vision

2018 - 2019

Resiliency Phase 1

Purpose: Examine and understand environmental, political, and social forces through the lens of resiliency, creating recommendations for Lakewood.

Outcomes: Identified priorities in the form of Community Vision updates and Resiliency Action Guide.

Live Well Lakewood

Purpose: Create a culture of health in Lakewood to positively impact the social determinants of health.

Outcomes: Recommendations to create a culture of health including the completion of a Community Health Needs Assessment.

Council Sustainability Priorities

Purpose: In the absence of leadership on other levels of government and out of an obligation to the health & wellbeing of our residents, it is our duty to do all that is within our power to stop contributing to the problem of climate change and become a part of the solution.

Outcomes: A report to council and the administration on an aggressive plan to take both the city government and Lakewood as a whole to zero-emissions.

2020 - 2021

Resiliency Phase 2

2A: COMMUNITY HEALTH

Goals:

Better understand local health needs and development of targeted wellness focus areas

Engagement:

- Live Well Lakewood (Advisors)
- Community Health Fellow

Deliverables:

- ❑ Community Health Needs Assessment

2B: SUSTAINABILITY

Goals:

Implement Phase 1 Action Guide recommendations and highlight ongoing sustainability efforts

Engagement:

- City Council
- Planning Commission
- Consultants

Deliverables:

- ❑ Select Pilot Projects
- ❑ Refinement of existing initiatives

2021 & Beyond

Resiliency Phase 3

Goals:

Combine lessons learned from Phase 2 initiatives and continue implementing meaningful projects and programs related to improving community health and resiliency aiming for complete integration into programs and services

Engagement:

- Resiliency Task Force Phase 3

Deliverables:

- ❑ Program and project implementation
- ❑ Best organization(s) to oversee continued efforts

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