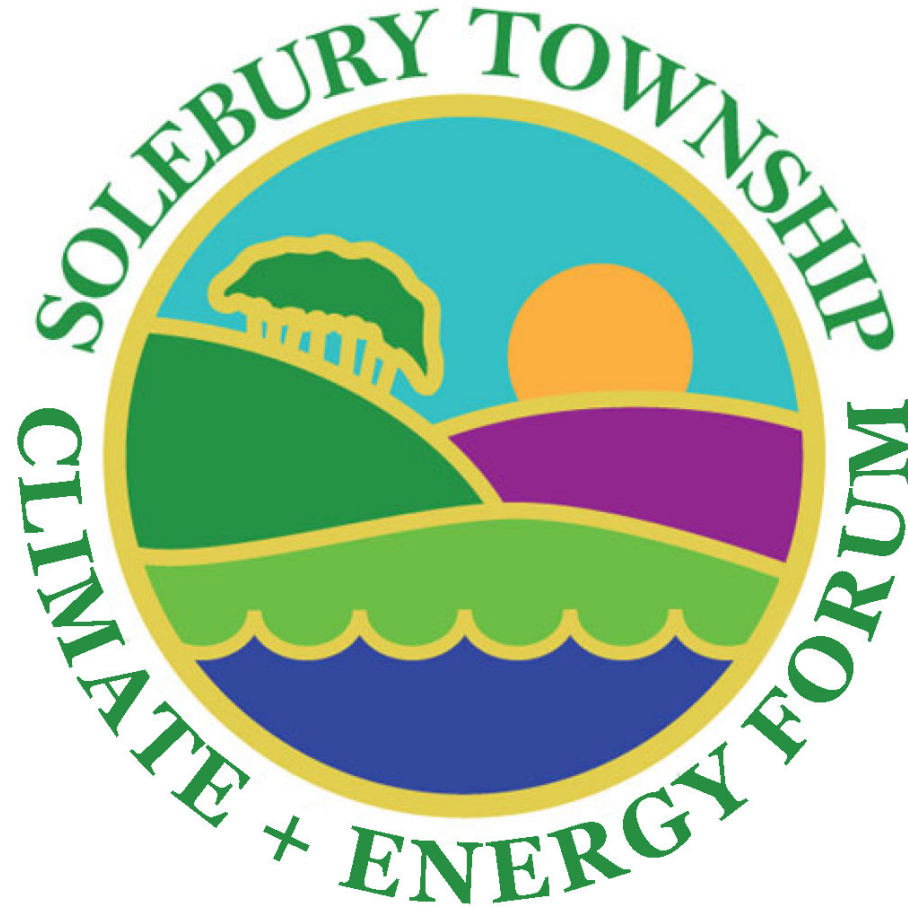


WELCOME!



TONIGHT'S AGENDA |

Mark Baum Baicker, *Board Chair Solebury Township Board of Supervisors*

- Who's Here Tonight + What's Tonight's Goal?
- What Have We Been Doing?
- Solebury's New **Energy Transition Plan**
- What is Sustainability?
- Who Else is Doing This?
- Presentations:
 - New Hope Solebury School Environmental Club
 - Neale Dougherty, Sustainability Director of Bucks County
- Breakout Sessions + Group Feedback
- What's Next? How Can I Learn More?



WHO'S HERE TONIGHT ?



NEW HOPE, PA

BUCKS COUNTY

Boards & Committees

Board of Supervisors
Environmental Advisory Committee
Historical Architectural Review Board
Land Preservation Committee
Parks & Recreation Board
Planning Commission
Solebury Farm Committee

Departments

Township Administration
Parks & Recreation
Planning, Code Enforcement, Permits
Police
Public Works



Environmental Club
New Hope - Solebury
High School



Neale Dougherty
Director of Sustainability
Bucks County, PA

& YOU!

WHAT'S TONIGHT'S GOAL ?

We're here to build Community and elevate our future!

If you want to go quickly, go alone.
If you want to go far, go together.

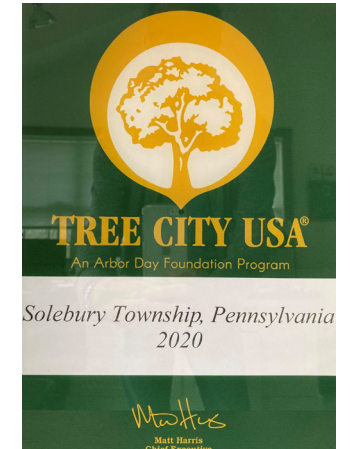
African Proverb

...and we all need to do both ~ to achieve our Township goals

WHAT HAVE WE BEEN DOING?

John Francis, *Solebury Township Board of Supervisors*

1. Rf100 Resolution passed July 2020
2. Township purchases electricity from 100% renewable sources
3. Solar Panels proposed, bid and under consideration for township buildings
4. Township building lights changed to LEDs
5. Traffic lights changed to LEDs
6. Tree City designation obtained, planting ongoing
7. EV charging stations installed
8. Route 202 traffic studies to ease flow
9. Transitioning to electric power tools for township maintenance dept.
10. Energy Star evaluation underway
11. Deer Management Program
12. Solebury awarded Pennsylvania Sustainable Communities Platinum Certification
13. Police fleet replacing patrol vehicles with Hybrid
14. Alternative Energy Audit proposal recommended to board by PC and EAC
15. Ordinance Banning Single Use Plastics passed
16. *Many more, and many more to come!*



SOLEBURY'S ENERGY TRANSITION PLAN |

Clean Electricity by 2035
Clean Energy by 2050

Sierra Club Ready for 100 Commitments:

- *Efficiency First*
- *Equitable and Just*
- *Clean and Renewable*
- *100% Renewable Electricity by 2035*
- *100% clean energy in all Sectors by 2050*
- *Inclusive and Transparent Planning, and Implementation*
- *Local Generation and Job Creation where possible*
- *Collaborate with Neighboring Communities*
- *Advocate at all levels*
- *Demonstrate Immediate Progress with measurable results*

Ready for
your
comments!
↑

SOLEBURY'S ENERGY TRANSITION PLAN |

Jim Mansfield, *Solebury Township Environmental Advisory Council*

Sierra Club's “Ready for 100” Campaign (RF100)

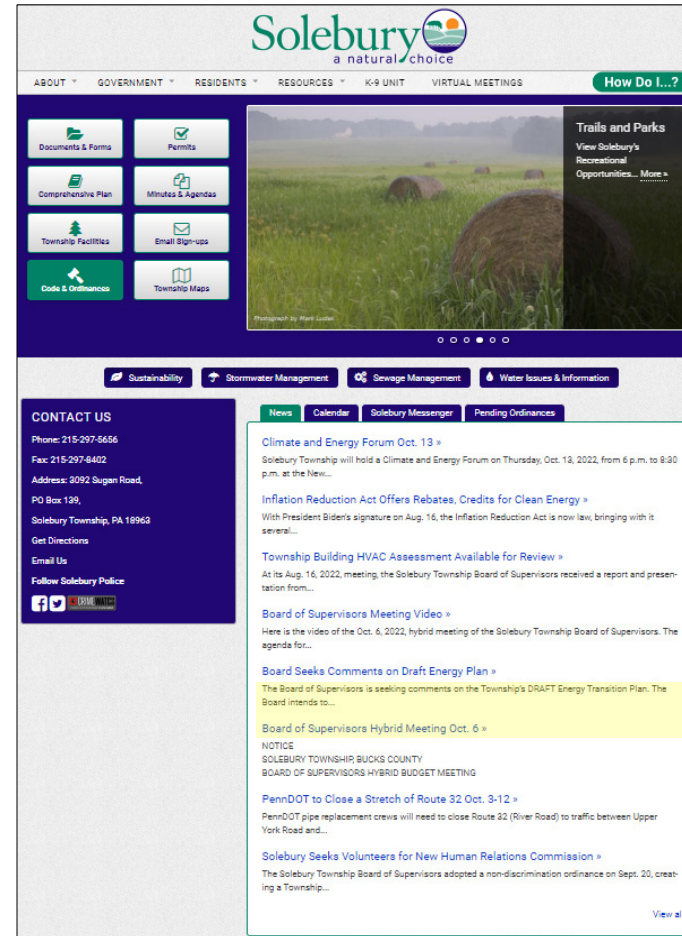
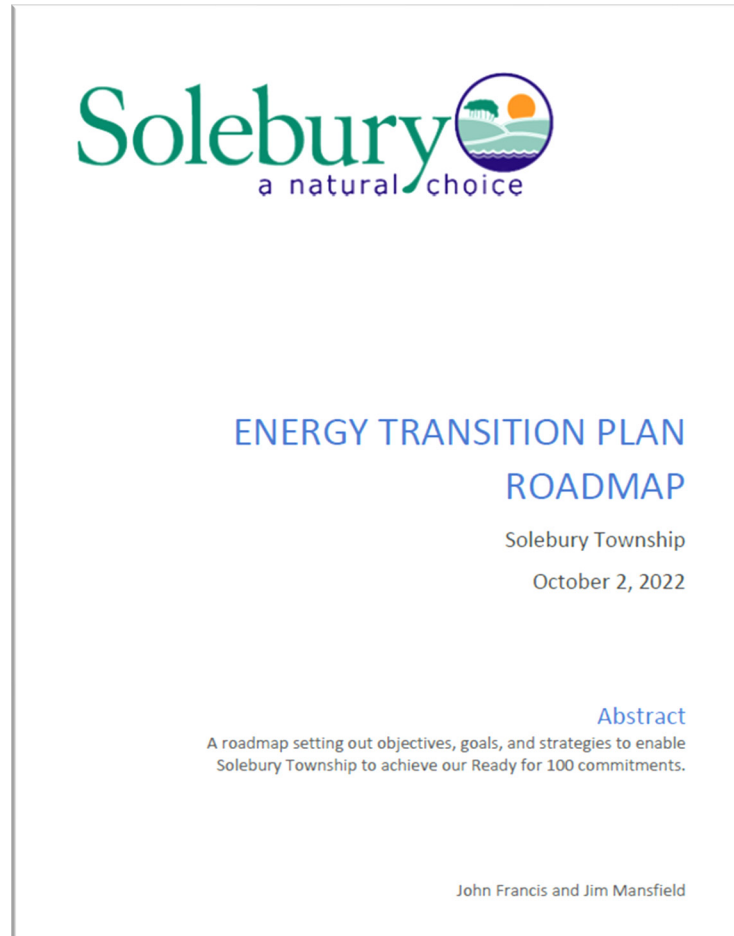
- Asked municipalities to:
 - Convert to 100% renewable energy – 2035
 - Transition to 100% electric cars & heating/cooling – 2050
- 180+ cities/towns & 7 states committed
- Solebury Resolution #2020-98 in July 2020



SOLEBURY'S ENERGY TRANSITION PLAN |

- Philadelphia area “Clean Energy Planning” webinars – 2020 to 2022
- Solebury Energy Audit – 2020
 - Township Government records
 - Township estimates from the Delaware Valley Regional Planning Commission (DVRPC)
- **Initiated work on an Energy Transition Plan for the Township**

SOLEBURY'S ENERGY TRANSITION PLAN |



Board Seeks Comments on
Draft Energy Plan »

The Board of Supervisors is seeking comments on the Township's Board intends to...



SOLEBURY'S ENERGY TRANSITION PLAN |

SOLEBURY TOWNSHIP
ENERGY TRANSITION PLAN

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3 Strategies:

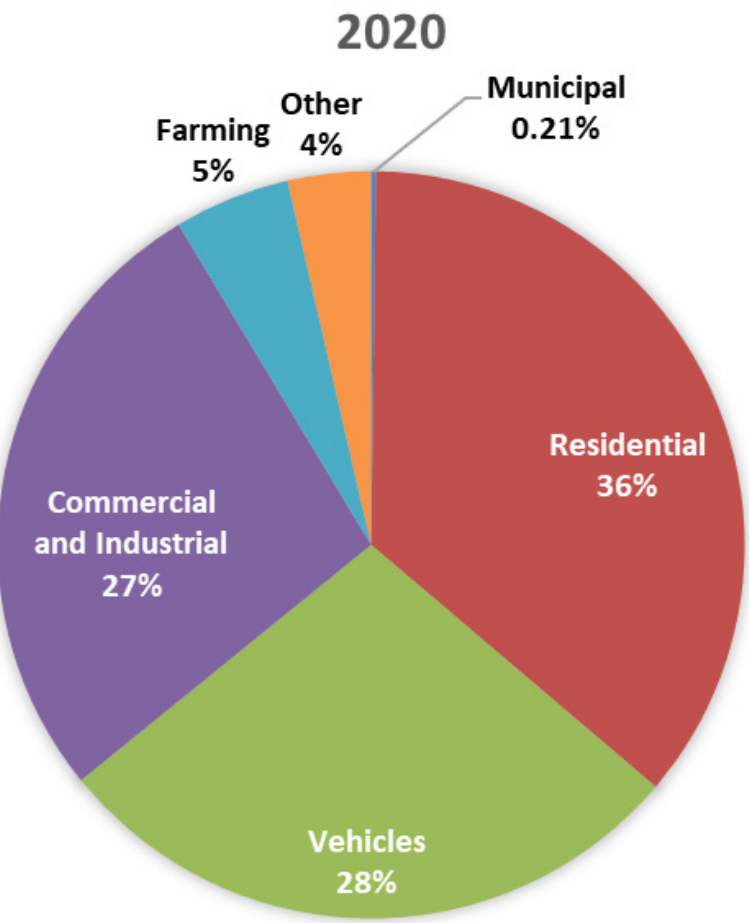
- Energy efficiency and conservation,
- Transition to renewable energy generation,
- Transition to electric vehicles and renewable heating + cooling for buildings.

Township Initiatives

Steering Committee

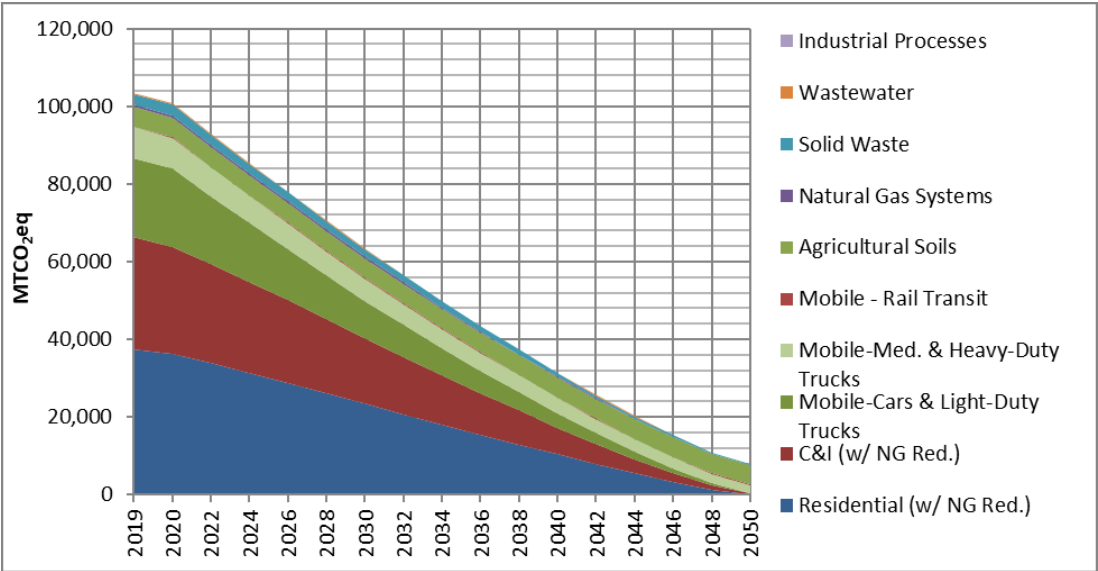
	Municipal	Ordinances	Outreach	Political
Procurement	Buying from renewable sources	Setting Standards	Information	Lobbying
Efficiency	Energy Audit	Rebates and grants	Education	Lobbying
Transport	Fleet program and EV Charging Stations	Rebates	Incentives for EV Charging Stations	Lobbying
Renewable Energy Production	Community Solar	Incentives	Community Choice Aggregation (CCA)	Lobbying

SOLEBURY'S ENERGY TRANSITION PLAN |



MTCO2e	2019	2020
Municipal	213	213
Residential	37,491	36,248
Vehicles	28,590	28,135
Commercial and Industrial	28,527	27,425
Farming	5,058	5,058
Other	3,617	3,617
TOTAL	103,496	100,697

(MTCO2e) = Metric Tons of Carbon Dioxide Equivalent- shown in millions



WHAT'S SUSTAINABILITY ? ... and why should we care?

Shannon Pendleton, CPHC Solebury Township Environmental Advisory Council



<http://www.frederickfranck.org/>

7 Generations Rule:

“Meeting the needs of the present generation, without compromising the ability, of future generations to meet theirs.”

- World Commission on the Environment and Development, 1987 Brundtland report.

WHAT IS A SUSTAINABILITY MINDSET ?

the sunrise as seen from the International Space Station.



PASSIVE
HOUSE
ACCELERATOR

WHAT IS A SUSTAINABILITY MINDSET ?

the sunrise as seen from the International Space Station.

Yet we're dumping over 110
million tons of carbon pollution

into that very thin life
sustaining layer every day.

PASSIVE
HOUSE
ACCELERATOR

WHAT'S A SUSTAINABILITY MINDSET ?



<https://healthcarehome.org.nz/wp-content/uploads/2021/09/equality-equity.jpg>

WHAT'S A SUSTAINABILITY MINDSET ?



<https://healthcarehome.org.nz/wp-content/uploads/2021/09/equality-equity.jpg>

WHAT'S A SUSTAINABILITY MINDSET ?

TRUST

DISTRUST

INCLUSION

EXCLUSION

DIALOGUE

DEBATE

CREATIVE RESOLUTION

BLAMING + COMPLAINING

EMPATHY

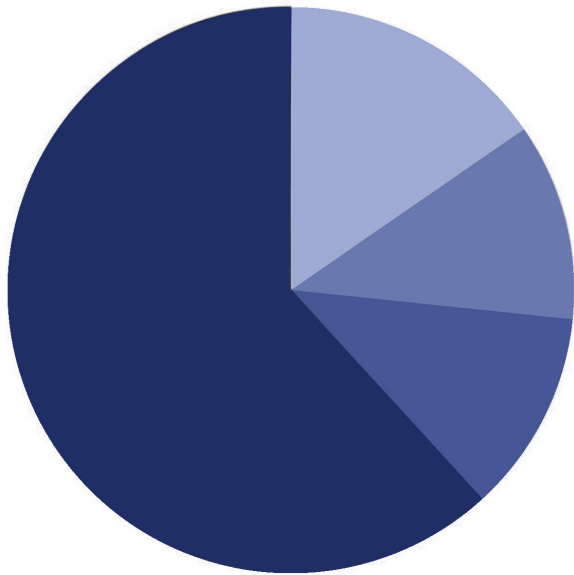
JUDGEMENT

SCIENCE + DATA + VERIFICATION + RETURN ON INVESTMENT

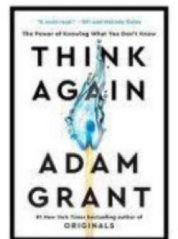
OPINION

WHAT'S *not* A SUSTAINABILITY MINDSET ?

THE MOST ANNOYING THINGS PEOPLE SAY INSTEAD OF **RETHINKING**



- That will never work here
- That's not what my experience has shown
- That's too complicated, let's not overthink it
- That's the way we've always done it



WHAT IS A SUSTAINABILITY MINDSET ?



PASSIVE
HOUSE
ACCELERATOR

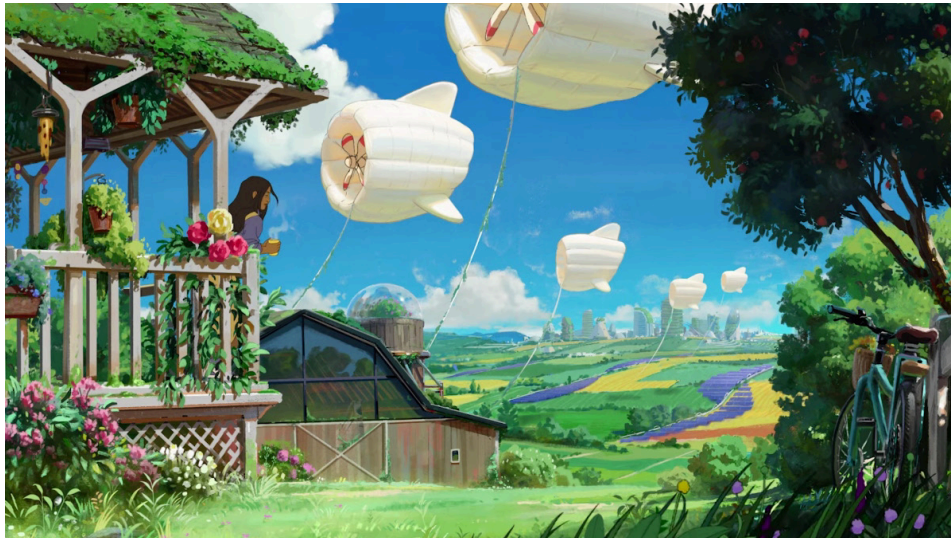
PHOTO: Polaris

WHAT IS A SUSTAINABILITY MINDSET ?

OPTIMISM

Dictionary
op·ti·mism

1. hopefulness and confidence about the future or the successful outcome of something.
"the talks had been amicable and there were grounds for optimism"
2. **PHILOSOPHY**
the doctrine, especially as set forth by Leibniz, that this world is the best of all possible worlds.



<https://nerdist.com/article/dear-alice-solarpunk-anime-short-studio-ghibli-composer/>

or

“DOOMER” - ism

Wikipedia

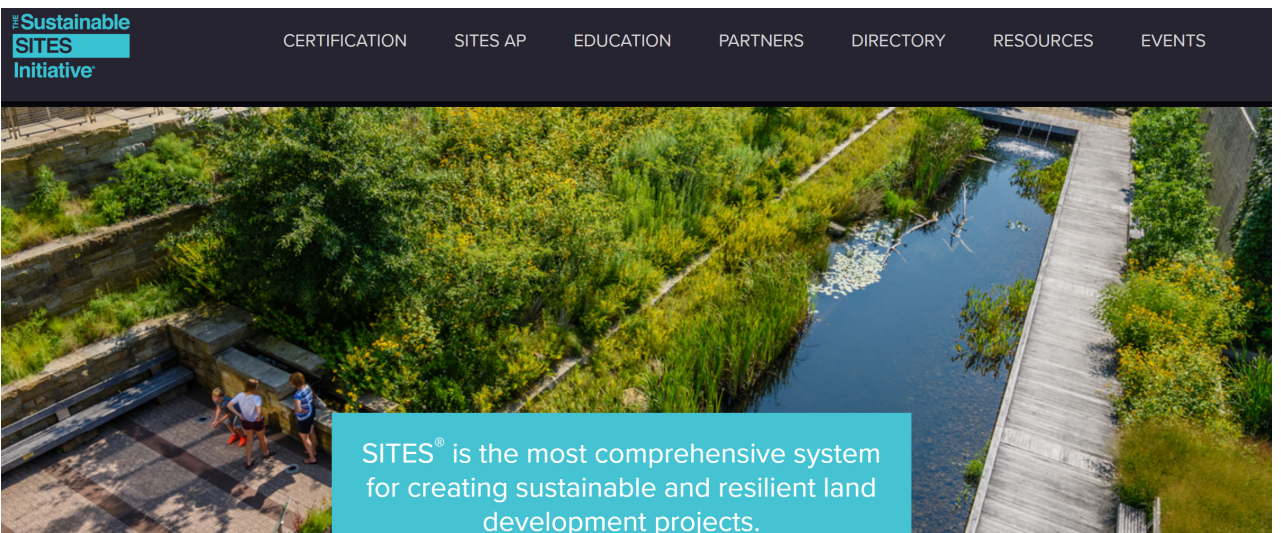
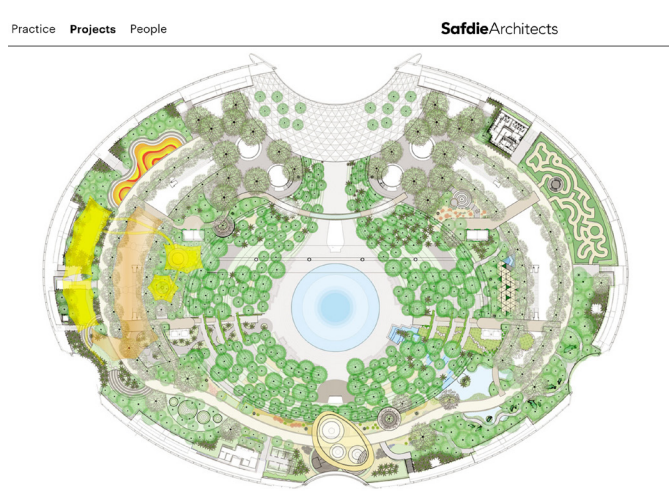
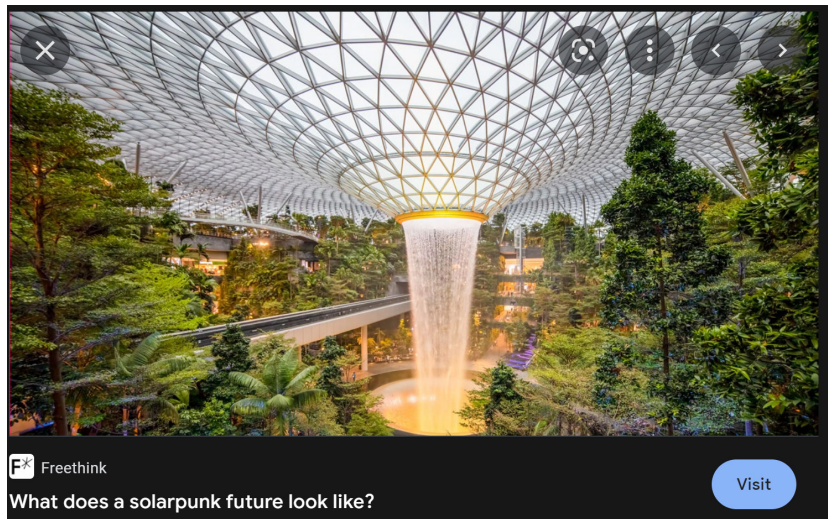
Doomer

Doomer and, by extension, doomerism are terms which arose primarily on the internet to describe **people who are extremely pessimistic or fatalist about global problems such as overpopulation, peak oil, climate change, and pollution.**



<https://i.ytimg.com/vi/b1OQxooD42E/maxresdefault.jpg>

WHAT IS A SUSTAINABILITY MINDSET ?















Sea
Level
Rise



Sea
Level
Rise

Population
Growth

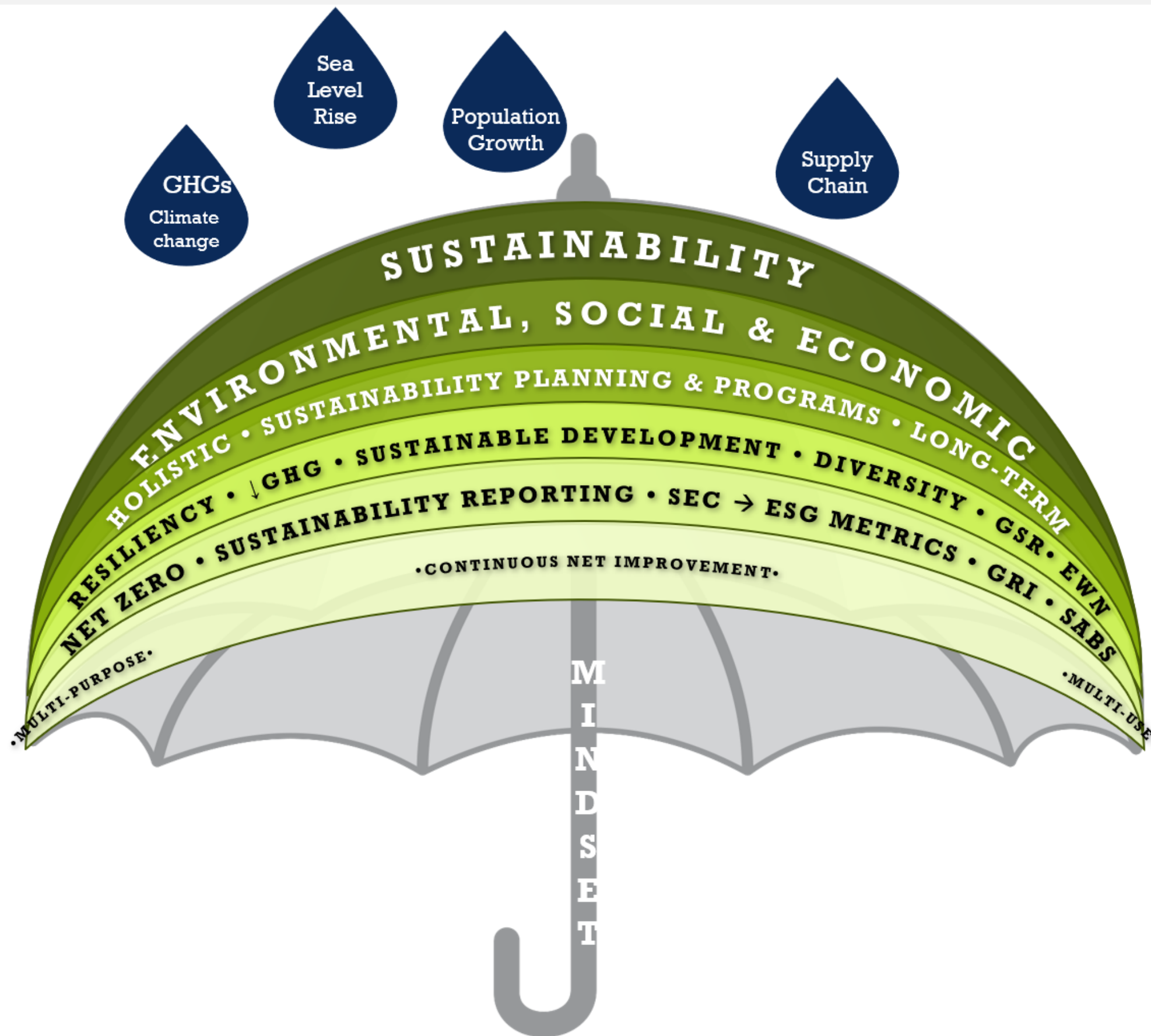


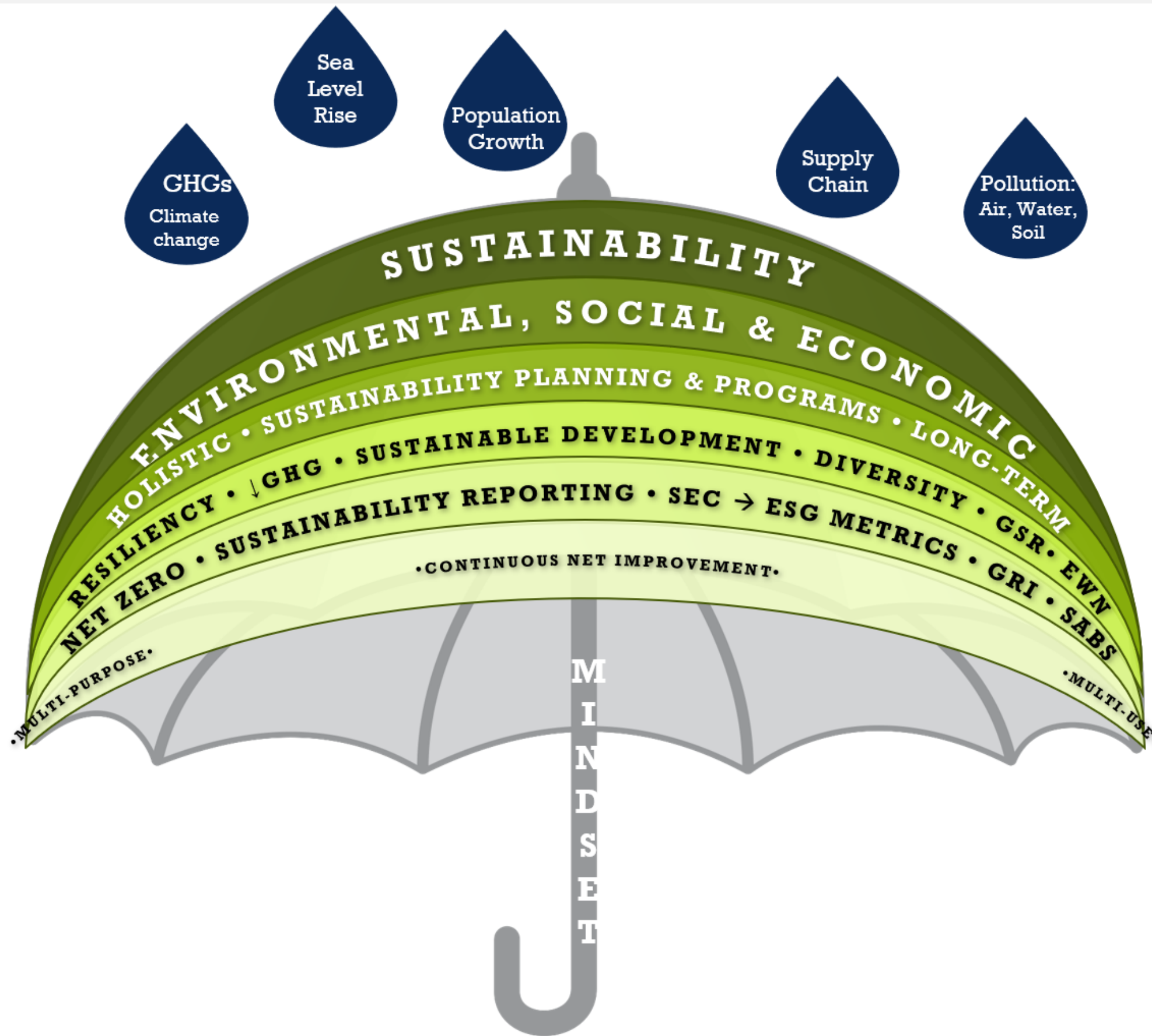
Sea
Level
Rise

Population
Growth

Supply
Chain









WHO ELSE IS DOING THIS ?

PENNSYLVANIA | 47 Boroughs and Townships have passed resolutions

Municipality	County
Abington Township	Montgomery
Ambler Borough (3/19/19)	Montgomery
Bridgeport Borough	Montgomery
Buckingham Twp (10/28/20)	Bucks
Charlestown Township	Chester
Cheltenham Township (3/20/19)	Montgomery
Conshohocken (6/19/19)	Montgomery
Downingtown Borough (11/7/17)	Chester
Doylestown Twp (3/17/20)	Bucks
East Bradford Township (10/9/18)	Chester
East Fallowfield (3/23/21)	Chester
East Pikeland	Chester
Hatboro Borough (10/19/20)	Montgomery
Haverford Township	Delaware
Honey Brook Township (4/13/22)	Chester
Kennett Township (5/2/18)	Chester
Landsdowne Borough (9/18/19)	Delaware
Lower Gwynedd (6/26/22)	Montgomery
Lower Merion (5/19/21)	Montgomery
Montgomery Township (5/10/21)	Montgomery
Narberth Borough (4/17/19)	Montgomery
Nether-Providence Township	Delaware
Norristown (4/2/19)	Montgomery

Patton Township (1/26/22)	Centre
Philadelphia's 100% Community-wide resolution (Philadelphia
Philadelphia's Municipal Energy Master Plan(mur	Philadelphia
Phoenixville Borough (9/12/17)	Chester
Plymouth Township (4/8/19)	Montgomery
Pocopson (6/24/19)	Chester
Radnor Township (2/25/19)	Delaware
Reading City (6/25/19)	Berks
Schuylkill Township (3/6/19)	Chester
Solebury Twp (7/30/20)	Bucks
Springfield (1/9/19)	Montgomery
State College Borough	Centre
Swarthmore Borough (9/9/19)	Delaware
Tredyffrin Township (9/16/19)	Chester
Upper Dublin (12/14/21)	Montgomery
Upper Merion (8/15/19)	Montgomery
Uwchlan Township (2/11/19)	Chester
West Bradford (2/9/21)	Chester
West Chester Borough (9/20/17)	Chester
West Norriton (4/14/20)	Montgomery
West Vincent (2/18/20)	Chester
West Whiteland (8/12/20)	Chester
Whitemarsh Township (3/14/19)	Montgomery
Whitpain Township (2/15/22)	Montgomery



WHO ELSE IS DOING THIS ?

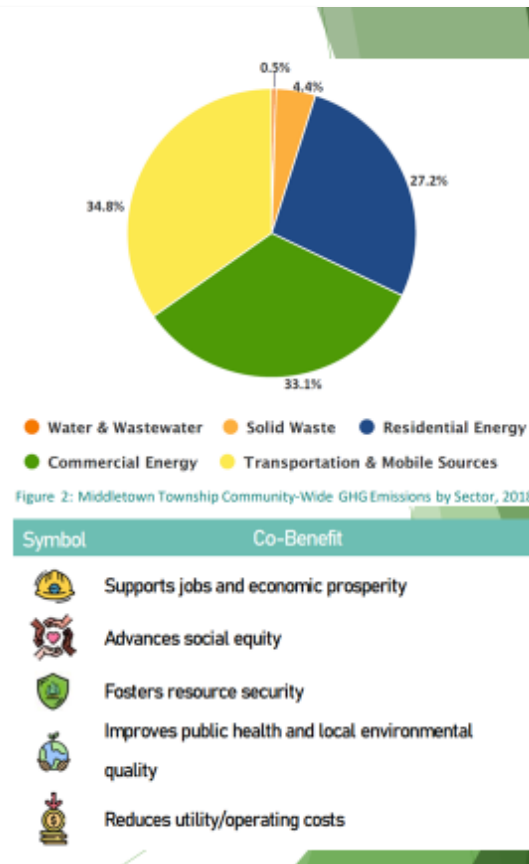
PENNSYLVANIA | Middletown Township

TOWNSHIP OF
—MIDDLETOWN—
BUCKS COUNTY

About our CAP

- ▶ GHG Inventory evaluates data from 2018 from various emission sources in five categories:
 - ▶ Commercial Energy
 - ▶ Residential Energy
 - ▶ Transportation & Mobile Sources
 - ▶ Waste, Composting, & Recycling
 - ▶ Water & Wastewater
- ▶ Identifies objectives within each category.
- ▶ Multiple actions listed for each objective.
- ▶ Co-Benefits identified to show additional positive impact of proposed actions.

Over 95% of our emissions!



Lessons Learned

- Don't underestimate the power of culture change.
- Start small; start with awareness.
- You don't have to be an expert to be a leader.
- And sometimes, it's better to be a follower.



WHO ELSE IS DOING THIS ?

DELAWARE VALLEY | Regional Planning Commission – Net Zero by 2050



Energy and Climate Change Initiatives

WHO ELSE IS DOING THIS ?

MASSACHUSETTES | MASS SAVE “Carbon Neutrality Program” Sponsored by Electric + Gas Companies

The screenshot shows the Mass Save website. At the top is the Mass Save logo with the tagline "Savings through energy efficiency". Navigation links include "Save", "Shop", "Learn", "Search", "MyENERGY", "Partners", "Contact", and "English". Below the navigation bar is a green section with four icons and links: a house for "Residential Rebates & Incentives", a lightbulb with a dollar sign for "Save With a No-Cost Energy Assessment", a checkmark for "See if You Qualify for Income Eligible Programs", and a building for "Business Rebates & Incentives". A light blue banner below this states: "Carbon neutrality is the future, and the Sponsors of Mass Save are all in. See the full report to learn more." Below the banner is a row of sponsor logos: BERKSHIRE GAS, Cape Light Compact, EVERSOURCE, Liberty, nationalgrid, and Unitil. A green oval highlights these logos. The bottom section has a dark blue background with white text: "We are Mass Save. The Sponsors of Mass Save are transforming the way Massachusetts residents and businesses use energy - providing financial support and technical services to help you save money and use less energy."

mass save
Savings through energy efficiency

Save ▼ Shop Learn ▼ Search 🔍 MyENERGY Partners Contact English ▼

Residential Rebates & Incentives Save With a No-Cost Energy Assessment See if You Qualify for Income Eligible Programs Business Rebates & Incentives

Carbon neutrality is the future, and the Sponsors of Mass Save are all in. See the full report to learn more.

BERKSHIRE GAS Cape Light Compact EVERSOURCE Liberty nationalgrid Unitil

We are Mass Save.


The Sponsors of Mass Save are transforming the way Massachusetts residents and businesses use energy - providing financial support and technical services to help you save money and use less energy.

WHO ELSE IS DOING THIS ?


NEW YORK| State Energy Research and Development Authority (NYSERDA) | Local Law 97

NYSERDA

Business & IndustryCommunities & GovernmentsPartners & InvestorsResearchers & PolicymakersResidents & Homeowners

 **SUBSCRIBE**
Pick a topic, get updates!

[Find a Program](#)[Find A Contractor](#)[About](#)



▾

Assisted Home
Performance with
ENERGY STAR®

Contractor Delivery
Channel - Become a
Contractor

Build-Ready Program


Workforce Training -
Building Operations &
Maintenance

Carbon Neutral Buildings

Carbon Neutral
Economic Development

Planning Ahead for Local Law 97

Start Planning Today

[Local Law 97 \(LL97\)](#)  compliance begins in 2024, but implementing energy management strategies for your multifamily properties doesn't happen overnight, so the time to plan is now. It's a good time to lay the groundwork for making comprehensive energy-saving upgrades or establishing on-going energy management strategies for your properties.

LL97 is part of New York City's Climate legislation passed in 2019, a group of local laws aimed at mitigating the effects of greenhouse gas emissions from buildings. **LL97 establishes emissions regulations on buildings over 25,000 sq. ft. that are subject to benchmarking.**

Benefits

Implementing energy management strategies and installing energy-saving solutions offers many long-lasting benefits for your business, your properties, and your tenants.

- Improve your bottom line with lower operating expenses
- Boost tenant satisfaction and reduce turnover by improving comfort and keeping rents affordable

WHO ELSE IS DOING THIS ?

NEW HAMPSHIRE | Town + School of Hanover - Ready for 100!

Unanimous Town Approval for Rf100 Goals



Humanity has a short window of time to transition to a 100% carbon-free economy to avert the worse events of the climate crisis, and towns like Hanover, NH aren't waiting for federal programs to start making big progress. Hanover, NH has taken the "Ready for 100" pledge, and Julia Griffin, Town Manager of Hanover, says, "Forget what the federal government is doing. We need to do it ourselves."

Hanover High School Climate Action Plan



Table 5 Implementation Matrix				
Measure Number	Measure Description	Implementing Body	Priority	Cost
BE-1	Purchase certified sustainable wood chips	Building Administration	High	?
BE-2	Upgrade heaters	Building Administration	Medium	\$\$\$
BE-3	Improved building insulation	Building Administration	High	\$\$\$
BE-4	EnergyStar®-rated appliances	Building Administration	High	\$\$
BE-5	Energy audit of building	Building Administration	High	\$\$
				Timing
				Near-term
				Long-term
				Long-term
				Mid-term

PRESENTATIONS |



Boards & Committees

Board of Supervisors
Environmental Advisory Committee
Historical Architectural Review Board
Land Preservation Committee
Parks & Recreation Board
Planning Commission
Solebury Farm Committee

Departments

Township Administration
Parks & Recreation
Planning, Code Enforcement, Permits
Police
Public Works

NEW HOPE, PA



Environmental Club
New Hope - Solebury
High School

BUCKS COUNTY



Neale Dougherty
Director of Sustainability
Bucks County, PA

& **YOU!**

NHS Environmental Club

OUR VISION: To educate NHS students on local and global environmental issues in an effort to help reduce our environmental impact as individuals and as a school community.



NHS Environmental Club

2022-2023 GOALS

1) Sustainability Plan (Ila)

- Renewable Energy
 - Plan to propose the addition of solar panels on the roof of the school to reduce our carbon footprint.
- Reduced Cafeteria Waste
 - Collaborate w/ students and staff to find effective strategies

2) Community Involvement (Cadence)

- Local organizations and international conservation and sustainability opportunities

3) District Outreach (Olivia)

- Student involvement
- Volunteer opportunities
- Spreading awareness



Contact Information

Sofia Tasoluk - CEO

Rena Xu - CEO

Cadence Scott - CSO

Ila Pendleton - CIO

Olivia Naranjo - CFO

Joe Glickman - CFO

Jaimee Kang - CCO

Sabrina Fitzsimmons - CCO

Kaitlyn Metzger - CCO

Questions?

Email: LMacDonald@nhsd.org or CLever@nhsd.org



Follow us on INSTAGRAM!

@NHSEnvironmentalClub

PRESENTATIONS |



NEW HOPE, PA



Environmental Club
New Hope - Solebury
High School

BUCKS COUNTY

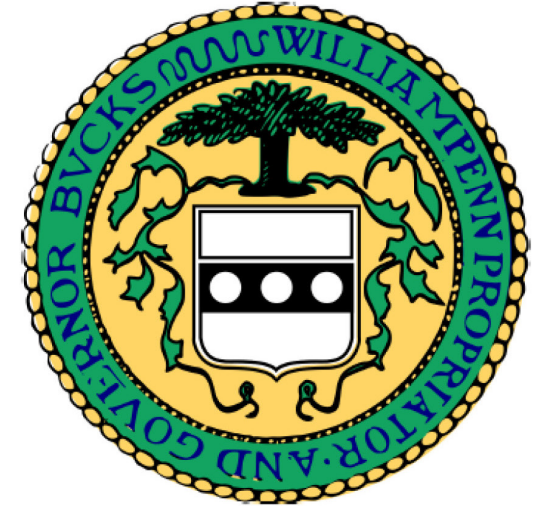


Neale Dougherty
Director of Sustainability
Bucks County, PA

& **YOU!**

BUCKS COUNTY

Climate Action Plan &
County Operations
Sustainability Plan





Meet our New Team!

Neale Dougherty

Director of Sustainability



-
- Inaugural position effective January 2022
 - Previously served as Bucks County Controller from 2018-2022
 - Sub-matriculated in Energy Management & Policy

Cassandra Goodmansen

Environmental Planner



-
- Joined the team in July 2022
 - Master's degree in Natural Resources and Climate Change, studied Bioregional Planning
 - Assisted City of Moscow Idaho and Nez Perce Tribe in Idaho with different parts of their Climate Action Plans



Main Areas of Focus

- **County Operations Sustainability Plan**

- Develop an actionable plan that makes working sustainably the default action
- Reduce the resources County operations requires for day-to-day work

- **Local Climate Action Program**

- Create an actionable plan that incorporates extensive input from county residents that allows all voices be heard
- Incorporate Mitigation, Adaptation, and Environmental Justice strategies



Local Climate Action Program

The Local Climate Action Program (LCAP) is an excellent opportunity. It is a partnership with Penn State University and fully funded by the PA DEP through an ICLEI grant program. Counties and local municipalities are paired with Penn State professors and students where, over the course of a year, they provide you with manpower (students) and technical assistance (through ICLEI Local Governments for Sustainability) to calculate your emissions and create a draft climate action plan for your community.

The current cycle (which we are on) is from July 2022 to June 2023. July 2022 to December 2022 is where emissions are calculated and January 2023 to June 2023 is where the Local Climate Action Plan is developed.

Any PA County, Township, or Borough can sign up through the PA DEP's website.



Other Projects

- Restart Ready-for-100 Committee
- Regional Power Purchase Agreement to provide County government energy requirements
- Model Renewable Energy Ordinance & Model Regional Solar Ordinance (Draft)
- Improve solar access throughout the county by achieving a Sol-Smart designation giving knowledge, technical assistance, and streamlining the process to acquire solar panels within the county
- Gain municipal insight through Intra-county sustainability discussions
- Researching how climate driven microbursts affect local flooding and emergency response budgets (PEMA)



Thank You

Neale Dougherty

nmdougherty@buckscounty.org

Cassandra Goodmansen

cgoodmansen@buckscounty.org



PRESENTATIONS |



NEW HOPE, PA

BUCKS COUNTY

Boards & Committees

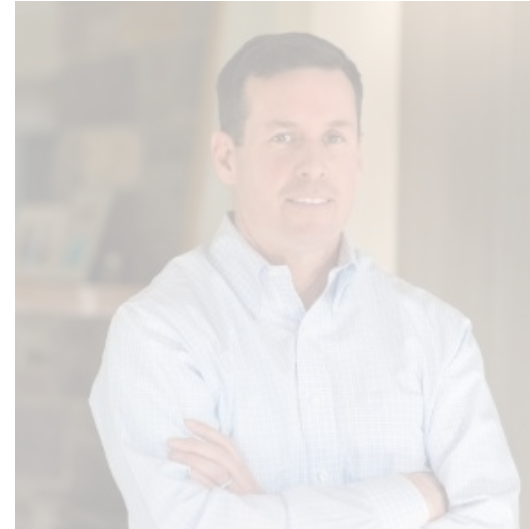
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Planning, Code Enforcement, Permits
Police
Public Works



Environmental Club
New Hope - Solebury
High School



Neale Dougherty
Director of Sustainability
Bucks County, PA

& YOU!

BREAKOUT SESSIONS | Strategies + Goals

- **See Township ETP Strategies + Goals @ each table**
- **Name Your Group!**
- **Make 3 Lists on flip charts**
 - **Concerns**: *identifying problems*
 - **Optimisms**: *identifying benefits*
 - **Ideas**: *proposing solutions*
- **Assign a presenter to share your group's thoughts!**

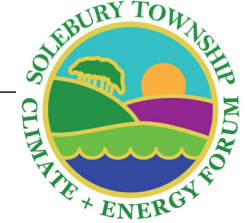


GROUP FEEDBACK

1. All Groups Present Findings
2. Attendees Vote on Favorites with Sticky Notes
3. Township Records Results
4. Group PHOTO!



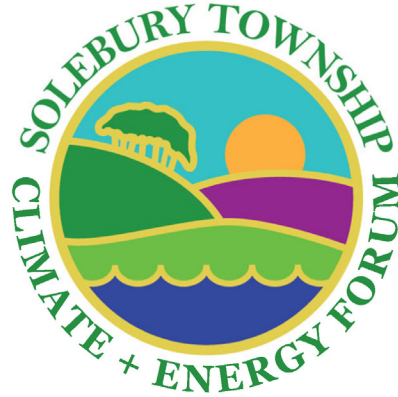
WHAT'S NEXT ?



- Where can I go to learn more? How can I get involved?
- Take or Scan: “Helpful Links”
- Sign up for Township News
- Comment on the Energy Transition Plan
- Talk to your Neighbors
- Volunteer with a local Environmental Group!



THANK YOU!



CONTACT + JOIN US

Environmental Advisory Council

EAC@SoleburyTwp.org

**Monthly Meetings every second Tuesday
@ the Township Building + Online!**



*Scan me for
Helpful Links!*

Save the dates :)

