

Strategic Energy Action Plan – SEAP+

TRANSPORTATION, PLANNING, & DEVELOPMENT COMMITTEE

APRIL 7, 2025



SEAP+ TPD Meeting Purpose

Council Priority Alignment

◁ 2040 Plan and Unified Development Ordinance

- Includes **Strategic Energy Action Plan (SEAP+)**

◁ Well-Managed Government

- Ensuring the city demonstrates inclusivity through a **commitment to and focusing on equity and safeguarding the environment** leadership in financial stewardship; reviewing best practices; and maintaining consistency in approach with an emphasis on effective and efficient services that are accountable, customer focused, and inclusive.

Purpose: The Council Committee will review the SEAP+ and key points, as well as review the adoption timeline. City staff to take additional feedback for follow-up.

SEAP+ TPD Key Takeaways

01

SEAP+ is an update to the 2018 Strategic Energy Action Plan, building on successes and striving to make additional progress toward updated ambitious, but realistic goals.

02

SEAP+ was developed with input from internal city departments, local sustainability experts, and the public.

03

SEAP+ aligns a range of focal areas with co-benefits and impacts.

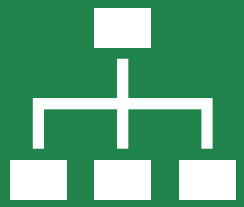
SEAP+ Council Communication

Previous Council Communication

- ◁ **March, 2025:** TPD Council Committee
- ◁ **February, 2025:** TPD Council Committee
- ◁ **October, 2024:** TPD Council Committee
- ◁ **January, 2024:** TPD Council Committee

Future Council Action

- ◁ **May 5, 2025: TPD Council Committee** - Request to approve advancing SEAP+ from committee to full Council
- ◁ **May 12, 2025: Full Council** – Review of SEAP+
- ◁ **May 27, 2025: Full Council** – Proposed SEAP+ adoption [Tuesday meeting]



SEAP+ Structure



Continued Approaches: Stages to Zero Carbon Energy

5 Stages to Zero Carbon Energy:

- Committed to the 5 stages approach originally shared in 2018.
 - Shifting Energy Demand,
 - Reducing Energy Consumption,
 - Changing the Energy Consumed (Sources),
 - Generating Energy On-site, and
 - Purchasing the Remainder



SEAP+ Related Events

Technical Advisory Committee Meetings (Dark Green)

Community Events (Light Green)

Newsletters (Medium Green)

Public Events (Blue)

SEAP Operations Team Meetings (Dark Blue)

Oct 4, 2024 Buildings & Energy Generation TAC

Oct 5, 2024 Hola Festival & Unearthed Env. Justice Community Festival

Oct 8, 2024 Civic Leadership Academy

Oct 18, 2024 Transportation TAC

Oct 21, 2024 Environmental Justice Town Hall

Oct 27, 2024 Biketoberfest

Oct 4, 2024 Newsletter

Nov 1, 2024 Newsletter

Oct 4, 2024 Buildings TAC

Oct 21, 2024 Environmental Justice Town Hall

Oct 27, 2024 Biketoberfest

Nov 1, 2024 Newsletter

Nov 2, 2024 Mecklenburg County Park and Recreation Fall Festival

Nov 8, 2024 Workforce Development and Climate Justice TAC

Nov 21, 2024 SEAP Community Launch

Nov 22, 2024 Goal Setting TAC

Dec 6, 2024 Newsletter

Dec 10, 2024 Charlotte Mecklenburg Climate Leaders

Dec 17, 2024 Newsletter

Dec 17, 2024 SEAP Virtual Workshop

Jan 13, 2025 SEAP Operations meeting with Charlotte Gov. Departments

Feb 28, 2025 Review draft strategies TAC

Mar 6, 2025 SEAP Public Review Event

10.28.24 SEAP Operations meeting with Charlotte Departments

October – December 2024 | Public Survey
353 Respondents • 11,629 Responses • 464 Comments

SEAP+ External Team

SEAP+	Brian Magi, UNCC
Technical Advisory Committee (TAC)	CT Anderson, Spring Clean
	Eboné Lockett, Harvesting Humanity
	Eoin Fitzgerald, Ally
	Eric Supil, Trips4kids
	Erika Ruane, Crescent Communities
	Erin Stanforth, Mecklenburg County
	Meg Fencil, Sustain Charlotte
	Jeff Robbins, CleanAIRE NC
	John Thigpen, JLL
	Katherine Idziorek, UNCC
	Latoya Faustin, She Built This City
	Lou Kromah, Dark Mode
	Matt Dugo, JCSU
	Matt Miller, CPCC
	Megan Upchurch, Centralina Regional Council
Ron Ross, Northwood Estates Community Organization	
Tiffany Fant, SolNation	
Zachary Jackson, Waveride	

SEAP+	Amber Padgett
Ambassadors	Antawuan Schofield
	C Bibbs
	Christy Kluesner
	Dean Kluesner
	Donald Green
	Bradley Fedele
	Grace Bartel
	Jennifer Roberts
	Maggie Storch
	Martin Jackson
	Matthew Bothe
	Maureen Gilewski
	Michael Evans
	Michael Lizotte
	Nancy Carter
	Roderick Mallory
	Rose Thomalen
Ruth Tansill	
Sara O'Mara	
Stephanie Wujcik Griffin	
Terry Lansdell	
Tim Daly	
Tina Katsanos	

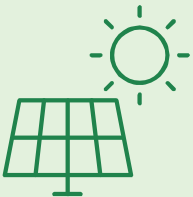
Charlotte's draft updated goals in the SEAP+

Charlotte is proposing to update three of its goals and set one new goal. These goals are either 'community-wide' and apply to the city as a whole, or 'municipal' and apply only to local government operations.

Community-wide goals



Charlotte will reduce community-wide greenhouse gas emissions 72% (to 3.56 mt CO₂e per capita) by 2035 and reach net-zero by 2050.



600 MW of distributed renewable energy generation will be installed in Charlotte by 2035.

Municipal goals



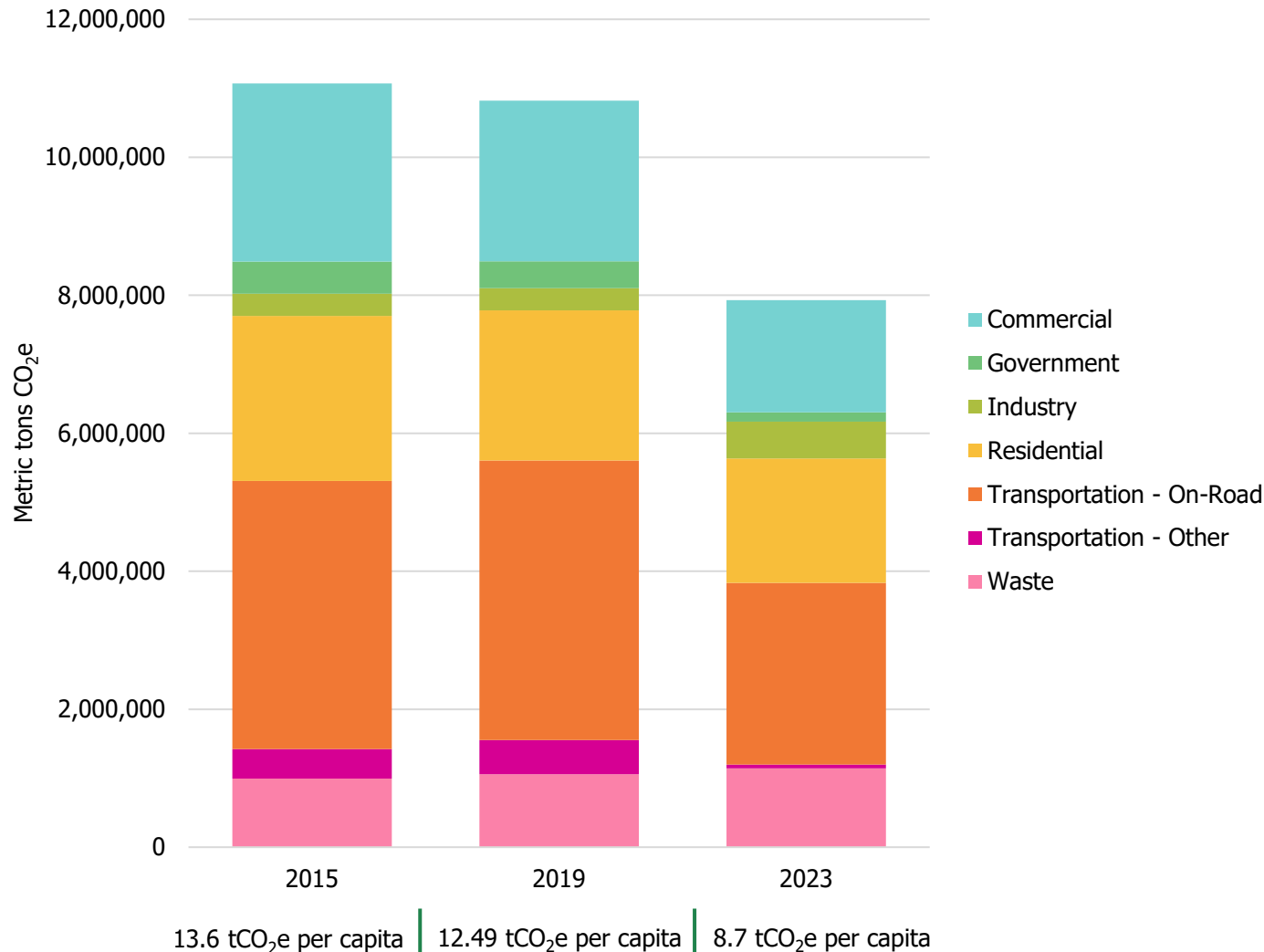
The city will source 100% of its electricity use in municipal buildings from zero carbon sources by 2030 and reach net zero emissions in municipal buildings by 2050.



The city will reach net zero emissions in its light-duty fleet by 2035 and in its entire fleet by 2050.

Greenhouse Gas Emissions Inventory

Charlotte's 2023 emissions by reporting category



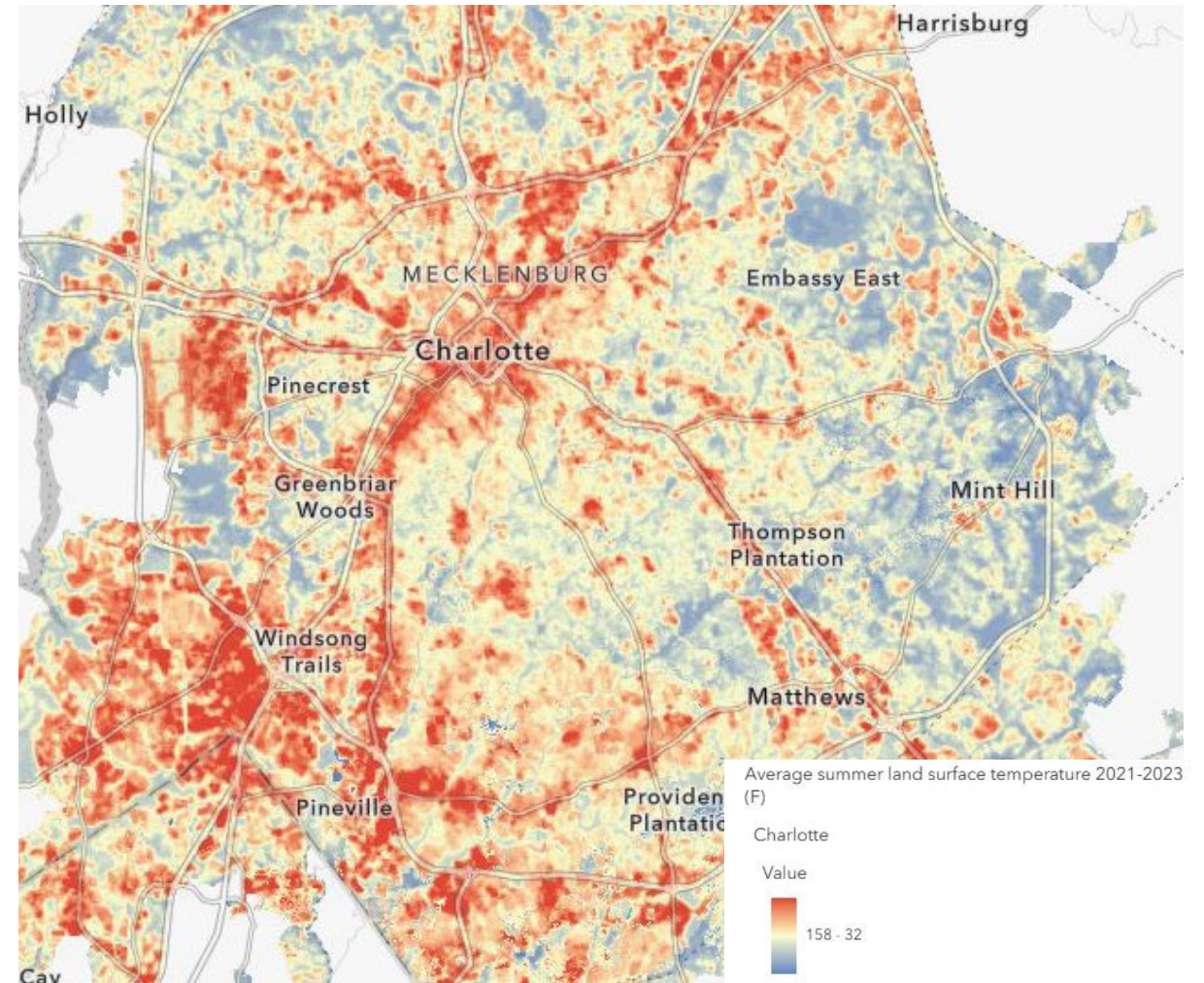
Key points:

- On a trajectory to meet the city's current low carbon city 2050 goal.
- Aligned to the Global Protocol for Community-Scale emissions.
- Per Capita GHG Emissions reduced by 30% 2019-2023.
 - In part attributable to improved methodologies.
 - Other reasons include a cleaner electric grid, energy efficiency initiatives, and more efficient vehicles like EVs and hybrids.

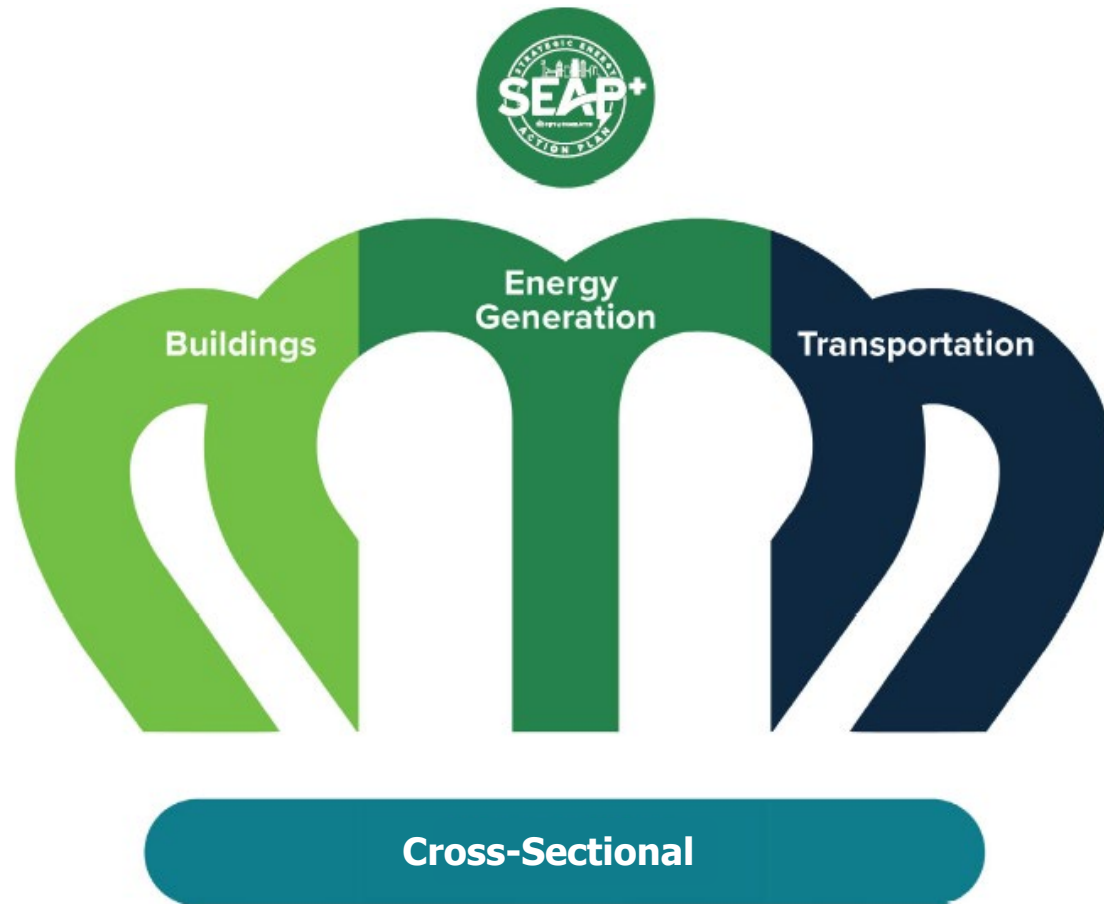
Climate Risk Assessment

Extreme Heat

- Rated the climate risk of the highest concern in the SEAP+ public survey.
- Charlotte has seen a **300% increase** in extreme heat days which poses health risks, especially for vulnerable groups.
- Low-income neighborhoods are hit hardest by extreme heat due to less greenery and more concrete



Focus Areas



Focus Areas:

- **Buildings** – with a focus on what we can do to build and power our residential and commercial buildings,
- **Energy Generation** – with a focus on where our energy comes from,
- **Transportation** – with a focus on supporting the SMP's mode share goal and access to sustainable modes of transportation,

***New:** All three focus areas will have **workforce development** embedded

- ***New: Cross-Sectional** – with a focus on strategies that are essential to achieving our goals, but do not fall directly within the other focus areas, such as **tree canopy support, waste diversion and reduction, climate resiliency**, etc.

Draft Strategies

Our Focus Areas



BUILDINGS

What we can do to build and power our residential and commercial buildings.

Strategy 1: Source 100% of electricity use in municipal buildings from zero carbon sources by 2030 and reach net zero emissions by 2050.

Strategy 2: Transition Residential Buildings to be Zero Carbon by 2050

Strategy 3: Transition Non-Residential (Commercial & Industrial) Buildings to be Zero Carbon by 2050



ENERGY GENERATION

What we can do to influence where we get our energy.

Strategy 4: Reach Net-Zero Emissions from Electricity Generation by 2050.

Strategy 5: Strive toward 600MW of Distributed Renewable Energy Generation in Charlotte.

Strategy 6: Develop a suite of educational tools.

Draft Strategies



TRANSPORTATION

What we can do to support the Strategic Mobility Plan's mode share goal and access to sustainable modes of transportation.

Strategy 7: Reach net zero emissions in municipal light-duty fleet by 2035 and in the entire fleet by 2050.

Strategy 8: Support reaching a 50-50 mode share by 2040, per the Strategic Mobility Plan (SMP).

Strategy 9: Facilitate rapid uptake of zero-carbon mobility options



CROSS SECTIONAL

What we can do to support strategies that are essential to achieving our goals, but do not fall directly within other focus areas.

Strategy 10: Continue to Develop a Smart Data Approach.

Strategy 11: Promote Waste Reduction and Diversion throughout Charlotte.

Strategy 12: Establish Public-Private-Plus Partnerships.

Strategy 13: Coordinate and Support Tree Canopy Action Plan.

Strategy 14: Promote climate resilience throughout Charlotte.

Strategy 15: Support efforts to Optimize Water Usage.

NEW! CBJ Best Places to Work Sustainability Award

- Partnership established with CBJ to create a new Best Places to Work Award Category – **Sustainability**
- This partnership will:
 - Bring more visibility to Power Down the Crown and provide value to existing partners
 - Lift and celebrate the great sustainability work occurring throughout the city
 - Encourage other organizations to join Power Down the Crown and pursue sustainable practices
 - Further position the City as a leader in sustainability

SPONSORED CONTENT

The Sustainability Award is a new category for CBJ's 2025 Best Places to Work Program



CITY OF CHARLOTTE



MAYOR VI LYLES
The City of Charlotte

"As we strive to make Charlotte a low-carbon city by 2050, it's crucial that we recognize and celebrate businesses that prioritize sustainability. By partnering with the Charlotte Business Journal to highlight sustainable practices through the 'Best Places to Work' Award, we're not only acknowledging their efforts but also encouraging others to join us in our mission. I invite all organizations to participate in our Power Down the Crown program, where together, we can share best practices, reduce energy consumption, and build a healthier, more resilient community for everyone."

-Mayor Vi Lyles

"Coca-Cola Consolidated is proud to work alongside other Charlotte businesses as a part of the Power Down the Crown initiative and honored to do what we can to protect the communities we refresh by reducing emissions and energy use in our operations,"

-Donnie Etheridge, EVP, Product Supply, Coca-Cola Consolidated.

"Collaborating with the city and other organizations through Power Down the Crown will provide invaluable insights and technical support, empowering us to lead by example in the HVAC industry and continuously elevate our sustainability efforts. Together, we are boldly challenging what's possible for a sustainable world."

-Carrie Nguyen, Trane Technologies

Join Power Down the Crown partners in showcasing your organization's sustainability by applying for the new Sustainability Award!
Learn more about Power Down The Crown by visiting: <https://community.charlottenc.gov/pages/power-down-the-crown>



Additional Considerations



Engaging in Key Programs & Initiatives

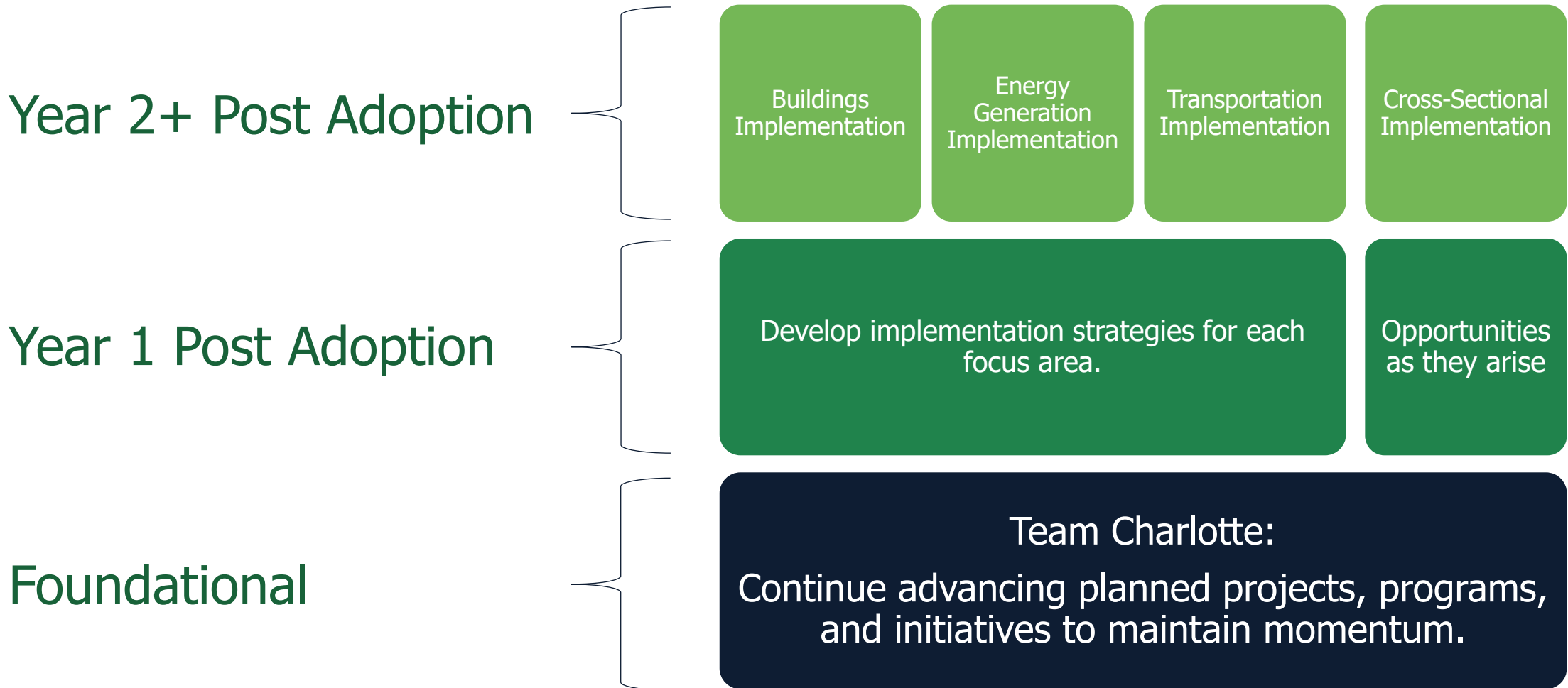
The **SEAP+** is a cross organizational plan connected to other strategies, plans, initiatives, and departmental work.

- Charlotte Future 2040 Comprehensive Plan
 - *Community Area Plans*
 - *Tree Canopy Action Plan*
- Corridors of Opportunity
 - *GreenPrints*
- Workforce Development Strategic Plan
 - *Renewable Energy and Efficiency Workforce (RENEW)*



Implementing the SEAP+

The **SEAP+** is a long-term plan connected to other strategies, plans, initiatives, and departmental work. Implementation is an on-going and iterative process.



Financing the SEAP+

Team Charlotte:

Managing and Advancing continued work through capital and operating budget.

Planning Implementation Strategies – Build ways to inform existing funded projects on how to support SEAP+ through Implementation Strategy development.

Grants, Rebates, & Tax Credits

Project-specific funding

Program management and support

Incentive funding

Public – Private – Plus Partnerships



Next Steps



Next Steps



April 2025

- Public review of draft SEAP+.
- Incorporate feedback & insights from Council Committee & the public.



May 2025

- **Request to approve advancing SEAP+ from committee to full Council.**
- Review SEAP+ with Full Council in prep for plan decision on May 27th, 2025.
- Proposed SEAP+ Adoption.



June 2025

- June 2025, begin action steps to develop implementation strategies and widely share information about SEAP+ throughout our community.



Thank You!