



Strategic
Energy
Action Plan:
Updates
March 22, 2021



FY2021 SEAP

INVESTMENTS, GRANTS & POLICIES



2020 UPDATES & ACHIEVEMENTS

- Bloomberg Philanthropies American Cities Climate Challenge **extended through June 2021**
- Solar Investments
 - ✓ Completed the **design of more than 1-megawatt of solar photovoltaic systems** on City buildings
 - ✓ **Approved participation in Duke Energy's Green Source Advantage Program** for a 35-megawatt, utility-scale solar energy project – making Charlotte the nation's most populous city to acquire new renewable energy through a utility green tariff
- Electric Buses & Infrastructure Investments
 - ✓ **Aviation acquired 5 Battery Electric Buses**
 - ✓ **CATS** won a Federal Transit Administration Low or No Emissions grant of \$3.7M with a 50% local match to result in the **procurement of six Battery Electric Buses** – plus infrastructure and workforce development

FY2021 SEAP

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2020 UPDATES & ACHIEVEMENTS

- Renewable Energy and Efficiency Workforce (RENEW) Training Program
 - ✓ **Funding for 4 cohorts** through both Urban League of the Central Carolinas and Goodwill Industries of the Southern Piedmont; 2 cohorts graduated
 - ✓ Recently awarded the **Diversity in Cleantech Award** at the Research Triangle Cleantech Cluster's 2020 Cleantech Innovation Awards
- Electric Vehicles & Infrastructure Investments
 - ✓ Signed **sustainable fleet policies** into implementation
 - ✓ **\$1 million in EV infrastructure** for City-owned facilities, which will bring us to nearly **100 city-owned electric vehicle charging stations**
 - ✓ **Replaced 7 gas vehicles with EVs** for the employee motor pool; added an **additional 20 EVs** in various departments

2021 Progress

SUSTAINABLE FACILITIES POLICY UPDATE

The revised Sustainable Facilities Policy directs city departments to design, construct, and operate city buildings in alignment with our 2030 Strategic Energy Action Plan goals to have all of our buildings and fleet fueled by 100% zero carbon energy.

THE FOCUS OF THE REVISED POLICY

- ✓ REDUCE ENERGY CONSUMPTION
- ✓ ENABLE MORE ON-SITE RENEWABLE ENERGY GENERATION IN THE FORM OF SOLAR ENERGY
- ✓ PREPARE FOR THE TRANSITION TO ELECTRIC VEHICLES (EV), AND
- ✓ PROVIDE A MECHANISM TO TRACK PROGRESS TOWARD THE 2030 ZERO CARBON BUILDINGS GOAL

- Participated in **Duke Energy's Integrated Resource Plan** to advance SEAP Goals
- Contd. **Duke-Cats negotiations on e-bus transition**
- Installation of **3 more EV charging locations (13 chargers)** with 2 more to be installed by end of Fiscal Year
- Solid Waste demoing **electric street sweeper**
- *Tonight, Council votes on contract to include installation of 874.4 kilowatts of solar capacity, generate 1M kwh of zero-carbon electricity - **equivalent to powering 114 homes**; projected **savings of approx. \$3M** over life



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ONGOING ALIGNMENT & PARTNERSHIPS



Internal

- The SEAP calls for the **incorporation of SEAP goals and strategy** into the **Comprehensive Plan** and **UDO**. Existing workstreams include:
 - ✓ EV infrastructure and charging
 - ✓ Energy efficient buildings
 - ✓ Safe and accessible transit, bike lanes, sidewalks



CoolGlobes

External

- Partnered with **Discovery Place** and **Cool Globes** to bring a **public art exhibit** to Charlotte to raise awareness of the solutions to climate action with Charlotte-focused messaging
- **Developed an MOU with Arrival** to work together to achieve SEAP goals and strategy; creating workplan
- Working in partnership with Duke Energy further leverage MOU
- Contd. Work with **SEAP External Content Group Stakeholders** to catalyze community-led projects





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GRANTS AND AWARDS



SOUTHEAST SUSTAINABILITY DIRECTORS NETWORK

SOUTHEAST SUSTAINABILITY DIRECTORS NETWORK CHARETTE GRANT

Grant to share best practices on fleet policy with jurisdictions looking to replicate our policies.



CENTRALINA REGIONAL COUNCIL

CENTRALINA REGION OF EXCELLENCE CLEAN CITIES AWARD

Award for our Sustainable Fleet Policies.



Federal Transit Administration

LOW OR NO EMISSION GRANT

Won an FTA Low-No award of \$3.7M with a 50% local match to result in the procurement of six Battery Electric Buses plus accompanying infrastructure and workforce development.



RESEARCH TRIANGLE CLEANTECH CLUSTER™

» Transformation Through Collaboration

DIVERSITY IN CLEANTECH AWARD

Award for the RENEW Training Program.



GREEN FLEET AWARD

Award to showcase that Charlotte ranked #26 in 100 best fleets.



NC Clean Energy

TECHNOLOGY CENTER

CLEAN FUEL ADVANCED TECHNOLOGY GRANT

This grant was used to purchase 4 mobile, solar-powered, level 2 EV charging stations.



LEED FOR CITIES AND COMMUNITIES GRANT

Received a grant for technical support to apply for LEED for Cities certification.