


# Strategic Energy Action Plan: Updates

MARCH 22, 2021



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**FY2021 SEAP**  
INVESTMENTS,  
GRANTS & POLICIES

- \$2M in Solar Sales
- \$1M in Electric Vehicle Infrastructure
- \$740K for 27 Electric Vehicles
- 2 New Sustainable Fleet Policies Signed & in Implementation
- LEED for Cities Grant
- 2nd Year of Climate Challenge
- \$250K in Alternative Vehicle Location
- \$3.7M Grant for CATS Electric Bus, Infrastructure & Training
- \$3.7M CATS Match
- \$4.5M for Additional Electric Buses & Infrastructure
- \$500K for RENEW - Green Workforce Development Program

**SEAP**  
STRATEGIC ENERGY ACTION PLAN  
CITY OF CHARLOTTE

## 2020 UPDATES AND 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

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**SEAP**  
STRATEGIC ENERGY ACTION PLAN  
CITY OF CHARLOTTE

### 2020 UPDATES AND 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

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### 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 AND 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



## 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 CHARENTE GRANT**  
Grant to share best practices on fleet policy with jurisdictions looking to replicate our policies.



**DIVERSITY IN CLEANTECH AWARD**  
Award for the RENEW Training Program.



**CENTRALINA REGION OF EXCELLENCE CLEAN CITIES AWARD**  
Award for our Sustainable Fleet Policies.



**GREEN FLEET AWARD**  
Award to showcase that Charlotte ranked #26 in 100 best fleets.



**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.



**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.

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