

Town Board Workshop January 22, 2024

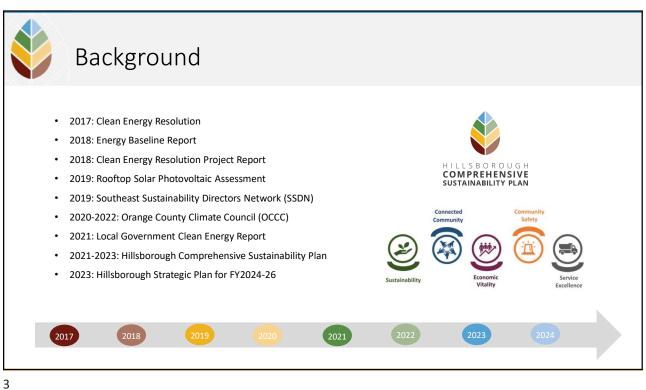


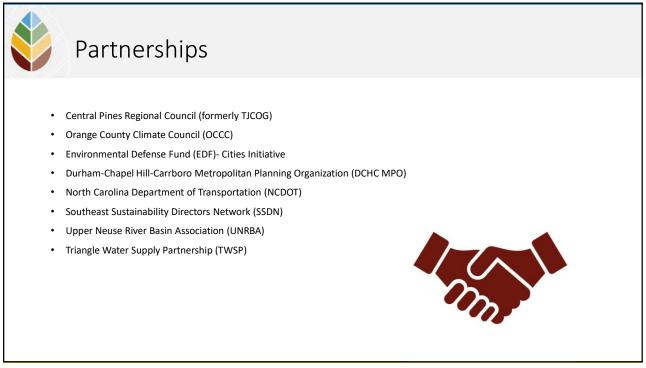
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## Clean Energy Resolution 2017

The Town of Hillsborough, North Carolina shall establish a transition from fossil fuel-powered operations to 100% clean/renewable energy by December 31, 2050, or sooner and 80% clean, renewable energy by 2030, to build a more resilient community, promote an environmentally sustainable economy, and to protect our local community and the Earth for current and future generations.







### Past Progress: Policies and Advocacy

- Parks Master Plans sustainability recommendations (2017-2022)
- · Grounds Maintenance best practices (2019)
- Managed natural landscapes ordinance (2019)
- Joint comments on Duke Energy-Integrated Resource Plan (2021)
- · Transportation and connectivity priorities (2021)
- Joint comments on Duke Energy-Carbon Plan (2022)
- Telecommuting policy for employees (2022)
- Public, Level 2, Electric Vehicle Supply Equipment Suitability Analysis (2022)
- LEED Community-Orange County (2022)
- Town standard for streetlights (3000 Kelvin, Type 2, 50 Watt) (2023)
- Solarize the Triangle (2022/2023)
- · "Leave the Leaves" video and campaign (2023)
- Vision Zero Policy (2023)

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### Past Progress: Projects

#### **Community Services**

- · LED lighting transition of Mercury Vapor (MV) streetlights
- · LED lighting transitions at facilities
- · Programmable thermostats at facilities
- · Tankless hot water heaters at facilities
- · Energy Star equipment/appliances at facilities
- Stormwater green infrastructure (ex. riparian buffer restoration, bioswales, compost blankets)
- · Grounds maintenance (ex. Pollinator/wildlife habitat, invasive species removal, Tree City, Bee City USA)

#### **Utilities**

- · Wastewater Treatment Plant upgrade
- Implementation of control system at Water Treatment Plant
- Elizabeth Brady Pump Station Variable Frequency Drive (VFD) Improvements



## Past Progress: Projects

#### **Police**

- 3-Electric patrol bicycles
- · 2-hybrid police vehicles

#### **All Departments**

- Transition from desktop computers to more efficient laptops
- Reduce use of Styrofoam and single-use plastics at town events
- Recycled paper products
- Employee Engagement Committee
- ENGAGE Hillsborough Series



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### Upcoming:

- Future Land Use Map Update
- Unified Development Ordinance Rewrite
- Future train station (Net-Zero ready goal)
- Highway 86/Fleet renovation (Electric vehicle ready)
- Adron Thompson renovation (Solar ready)
- New stormwater management plan
- Charging and Fueling Infrastructure (CFI) Grant (Round 2)
- LED transitions of streetlights (High Pressure Sodium)
- Multimodal transportation projects
- Ridgewalk greenway





### Future Needs and Opportunities

#### **Budget Needs**

- Energy tracking and management software (FY25)
- Facility management software and floor plans (FY25)
- Recycling at town parks (FY25)
- Updated solar analysis for facilities/parks
- · Sustainability intern
- · Grants administration help
- Matching funds for future grant applications
- Tree inventory/urban forestry plan
- · Electric vehicle charging for fleet
- Solar farm through Green Source Advantage (GSA) program
- · Solar and battery storage for facilities
- Solar canopy parking and picnic shelters
- Solar canopy electric vehicle charging

- Stormwater green infrastructure projects
- · Tree Plantings/reforestation
- Climate Pollution Reduction Grant (CPRG)

#### **Program/Policy Needs**

- · Rightsizing/transitioning fleet
- Electronic retention policy to reduce paper waste
- "Climate Corner" in employee and citizen newsletters
- Green Team (Engagement Committee)

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### Sustainability Funds – Recommended Programming

Recommended Use	FY22	FY23	FY24	FY25	FY26	FY27
Train Station Solar Panels	\$300,000	\$300,000	\$150,000			
<ul><li>Energy Tracking Software</li><li>Recycling at Parks</li><li>LED Streetlight Conversion</li></ul>			\$150,000			
<ul><li> Updated Solar Analysis for Facilities</li><li> Sustainability Intern</li><li> Grant Administration Assistance</li></ul>				\$200,000		
<ul><li>GSA Program</li><li>Tree Inventory/Urban Forestry Plans</li></ul>					\$400,000	
Solar and Weatherization Projects Tree Planting/Reforestation						\$300,000

How to fund sustainability initiatives for Utilities projects? Major need without current dedicated funding.



# Questions and Discussion

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