

10 Year Energy Plan

Timeline:

- Internal Review: Now – Sept 4
- Stakeholder Review: Sept 7-11
- Keys Energy Sit Down: Sept 14-18
- Present to Patti: Sept 25
- (*KES Board: Sept 26*)
- Johnnie presents to CC: Oct 6

Overarching Goals:

(Lifted from St Pete's Clean Energy Pathway)	Local Goal
#1: Advance Energy Efficiency In Existing Buildings	25% Reduction in Energy Demand of existing buildings (by?) All City Bldgs Energy Star Gold in 10 Years All Existing buildings: Efficiencies at Renovations
#2: Build Infrastructure that is Efficient AND Renewables Ready	All New Buildings __% more efficient than Code & Solar Ready All New City Buildings, Green Building Certified Gold with Solar.
#3: Create and Procure Renewable Energy through Collaboration	Set Renewable Portfolio Goal: 100% by 2050? X% Renewables in by 2030 (what is current level?) (% on City Bldgs, % in Community)
#4: Develop a Smart, Reliable, and Resilient Energy System	Driven by KES: Smart grid and microgrids, centralized energy plants
#5: Enhance and Electrify Transportation	X% mode shift to electric vehicles OR 13% reduction in transportation emissions (Transportation Ten Year Plan underway)

FY	City Govt	Residential	Commercial
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<p>20-21</p> <p>Climate Action Plan: 12 Actions</p>	<p><u>Energy Efficiency:</u> Policy: In City: All high E, Energy Star Policy: Create Energy Fund (1st year 75% of project savings go into fund, 2nd year 50%, 3rd year 25%, 4th and after 0) Data: Quarterly Reports by Building</p> <p>Project: Police Bldg (FY21 budget) Project HMGP Windows and Doors:</p> <ul style="list-style-type: none"> • Fire Station 1 • Solid Waste • Wastewater, • Public Works <p>Prize: Annual Energy Use Recognition</p> <p><u>Alt Energy:</u></p> <ul style="list-style-type: none"> • Policy: Renewable Portfolio Goal/Time <p>Begin Transportation Ten Year Plan</p>	<p><u>Energy Efficiency:</u> Policy: All retrofits and new: High E</p> <p>Project: LED Street Lights Project: Analyze bldg. stock Project: Create Energy Map (Use intensity by parcel)</p> <p>Ed: Rebates, Audits, Weatherization Ed: Top 10 Energy Efficiencies for KW</p> <p><u>Alt Energy:</u> Lobby: State and Feds Ed: Efficiencies</p>	<p><u>Energy Efficiency:</u> Policy: All retro and new: High E</p> <p>Projects: LED Street Lights Project: Analyze bldg. stock Project: Create Energy Map</p> <p>Data: ID Top Energy Users</p> <p>Ed: Top 10 Energy Efficiencies for KW</p> <p><u>Alt Energy:</u> Lobby: State and Feds Ed: Efficiencies</p>
<p>21-22</p> <p>Climate Action Plan: 11 Actions</p>	<p>Projects: 5 Buildings with highest ROI Data: Eval All City Occupied Bldgs</p> <p>Policy: SolSmart Gold</p> <p>Data: Other Energies Research</p> <p>New Bldg: Fire Station 3 - Gold New Bldg: Douglass Gym Expansion - Gold</p>	<p>Project: Upgraded KEYS Energy Audits</p> <p>Ed: Rebates, Audits, Weatherization Ed: Green Business Certification</p> <p>State Lobbying Update KES Strategic Plan</p>	<p>Policy: Major Devt: Audit or Commissioning; Highly Reflective Roofs</p> <p>Ed: Commercial Challenge: Focus on City Leasees</p> <p>Ed: Top Ten Energy Efficiencies</p> <p>KES EV Charger Roll Out State Lobbying Update KES Strategic Plan</p>
<p>Yr 3 22-23</p>	<p>Policy: Solar Water Heaters Projects: 5 Buildings with highest ROI Data: Eval 20 City Leased Bldgs</p> <p>Analyze Bldg Stock</p>	<p>Project: Low Income Housing</p> <p>Ed: Rebates, Audits, Weatherization</p> <p>Solar/Elec Contractor Refreshers/CEUs</p>	<p>Policy: Portfolio Mgr</p> <p>Ed: Commercial Challenge: Focus on Largest Bldgs</p>

Climate Action Plan: 5 Actions	New Bldgs: Palm Av Existing Bldg? Training for Permit/Code Staffs KES Collaboration for Solar	Solar Water Heaters	Solar/Elec Contractor Refreshers/CEUs Solar Water Heaters
Year 4 23-24 Climate Action Plan: 4 Actions	Policy: Solar Protection Ed: Energy Map Projects: 5 Buildings with highest ROI Projects: 1 st City Green Roof Solar Parking / EVs 1 New Bldg / 1 Existing Bldg	Project: Green Loans Ed: Rebates, Audits, Weatherization Solar United/PACE KES Solar Leasing	Ed: Portfolio Mgr Ed: Commercial Challenge: Solar United/PACE Solar Project with Top Ten
Yr5 24-25 Climate Action Plan: 11 Actions	Projects: 5 Buildings with highest ROI Prizes: All City Occupied Bldgs Complete Solar Parking /EVs 1 New Bldg / 1 Existing Bldg	Project: Lowest 5% Ed: Rebates, Audits, Weatherization	Analyze Bldg Stock: Set PM Tiers Ed: Commercial Challenge: Low Scores: Energy Audits Lowest: Up one Tier
Yr6 25-26 Climate Action Plan: 1 Actions	Data: Commercial Grade Audits on 5 buildings Projects: Partner on 5 Leased Buildings Solar Parking /EVs 1 New Bldg / 1 Existing Bldg (Palm Ave?)	Project: Lowest 5% Ed: Rebates, Audits, Weatherization	Ed: Commercial Challenge:
Yr7 26-27 Climate Action Plan: 0 Actions	Projects: First ESCO Project? Projects: Partner on 5 Leased Buildings Solar Parking /EVs 1 New Bldg / 1 Existing Bldg	Project: Lowest 5% Ed: Rebates, Audits, Weatherization Solar Contractor Classes	Ed: Commercial Challenge: Lowest: Audits Solar Contractor Classes

Yr8 27-28 Climate Action Plan: 1 Actions	Projects: Partner on 5 Leased Buildings Solar Parking /EVs 1 New Bldg / 1 Existing Bldg	Project: Lowest 5% Ed: Rebates, Audits, Weatherization Solar United/PACE	Ed: Commercial Challenge: Solar United/PACE
28-29	Projects: Partner on 5 Leased Buildings Solar Parking /EVs 1 New Bldg / 1 Existing Bldg	Project: Lowest 5% Ed: Rebates, Audits, Weatherization Solar United/PACE	Ed: Commercial Challenge: Lowest: Audits
29-30	Projects: Partner on 5 Leased Buildings Solar Parking /EVs 1 New Bldg / 1 Existing Bldg	Project: Lowest 5% Ed: Rebates, Audits, Weatherization	Ed: Commercial Challenge: Everyone up one tier