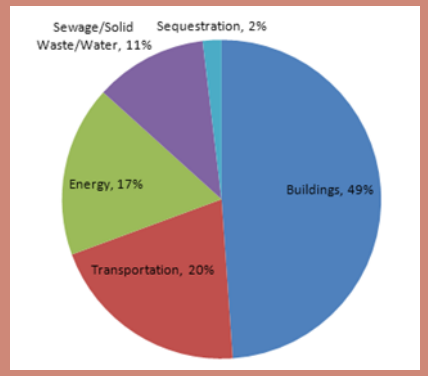


Ten Year Energy Plan

DRAFT

Overarching Goals:

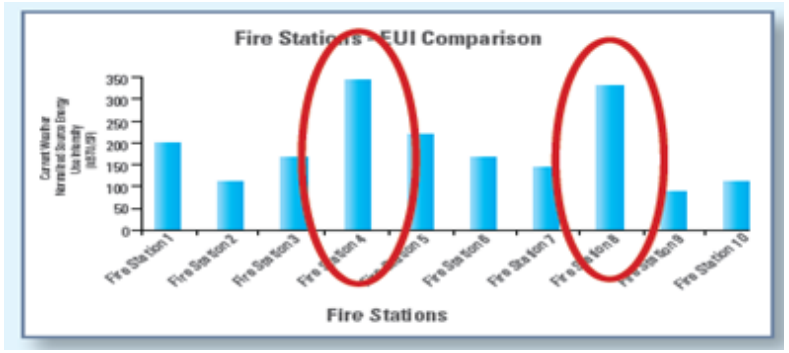
(Lifted from St Pete's Clean Energy Pathway)

Goals	Metrics
#1: Advance Energy Efficiency In Existing Buildings	__% Reduction in Energy Demand of existing buildings by _ (25/10) All City Bldgs Energy Star Gold in __ Years (10)
#2: Build Infrastructure that is Efficient AND Renewables Ready	All New buildings __% more efficient than Code All new buildings Solar Ready All New City Buildings, Green Building Certified Gold with Solar.
#3: Create and Procure Renewable Energy through Collaboration	Set Renewable Portfolio Goals: __% by __ (30% City by 30) __% by __ (100/2050)
#4: Develop a Smart, Reliable, and Resilient Energy System	Driven by KES: Smart grid and microgrids, centralized energy plants
#5: Enhance and Electrify Transportation	__% mode shift to electric vehicles OR __% reduction in transportation emissions (Transportation Ten Year Plan underway)

Year 1 (FY20/21)

City Government
Policy: All City upgrades: Energy Star
Policy: All new City Bldgs: Gold & Solar
Policy: Energy Fund
Data: Quarterly Energy Reports
Projects: Fire Station 1, Solid Waste Transfer Station, Wastewater Treatment Plant, Public Works
Policy: 10 Year Transportation Plan

Energy	Fund
1st Year	75% of Savings
2nd Year	50% of Savings
3rd Year	25% of Savings
4th +	0% of Savings



Wind Retrofits:

- Impact Doors
- Impact Windows
- Roofs

Year 1 (FY20/21)

Top	10 ROI
1	Programable Thermostat
2	CFLs / LEDs
3	Smart Power Strips
4	Water Heater Blanket
5	High E Shower Head
6	Seal Duct Leaks
7	Energy Star Dishwasher
8	Window Upgrades
9	Skylights
10	Insulate Walls

Weatherization Works in Florida

Growing Greener Every Day

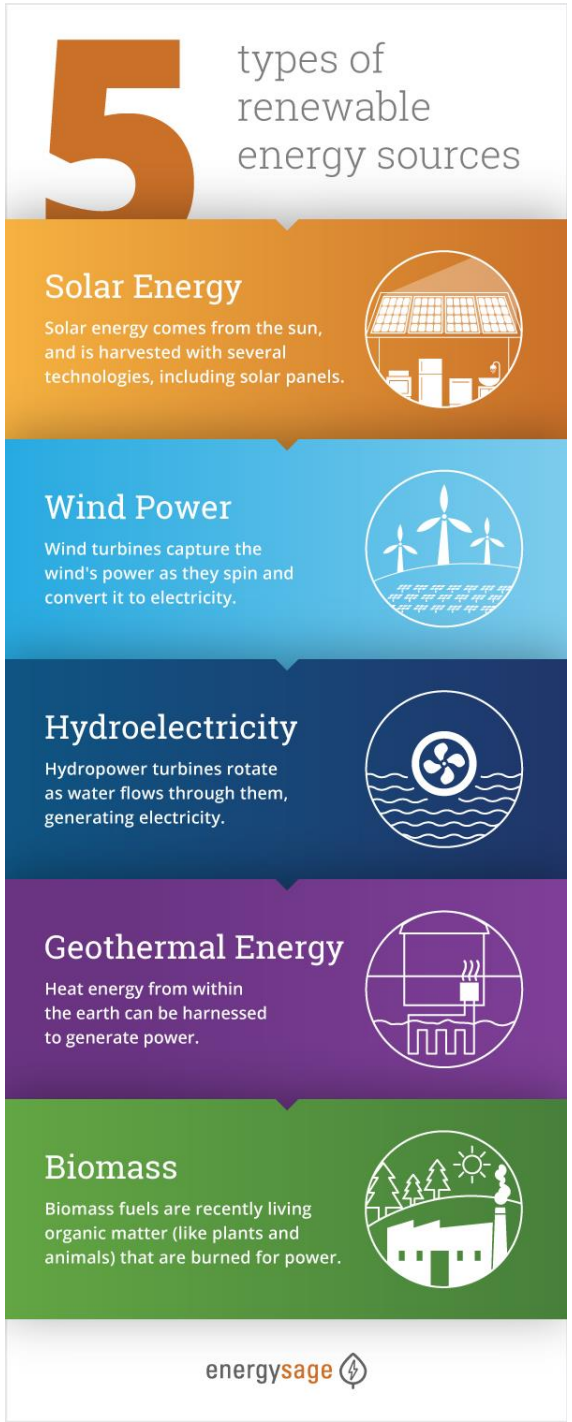
Residential and Commercial
Policy: All new and renovations: High Efficiency
Project: LED Street Lights
Project: Energy Use Map
Ed: Rebates, Audits, Weatherization, Top 10 Return on Investments

Year 2 (FY21/22)

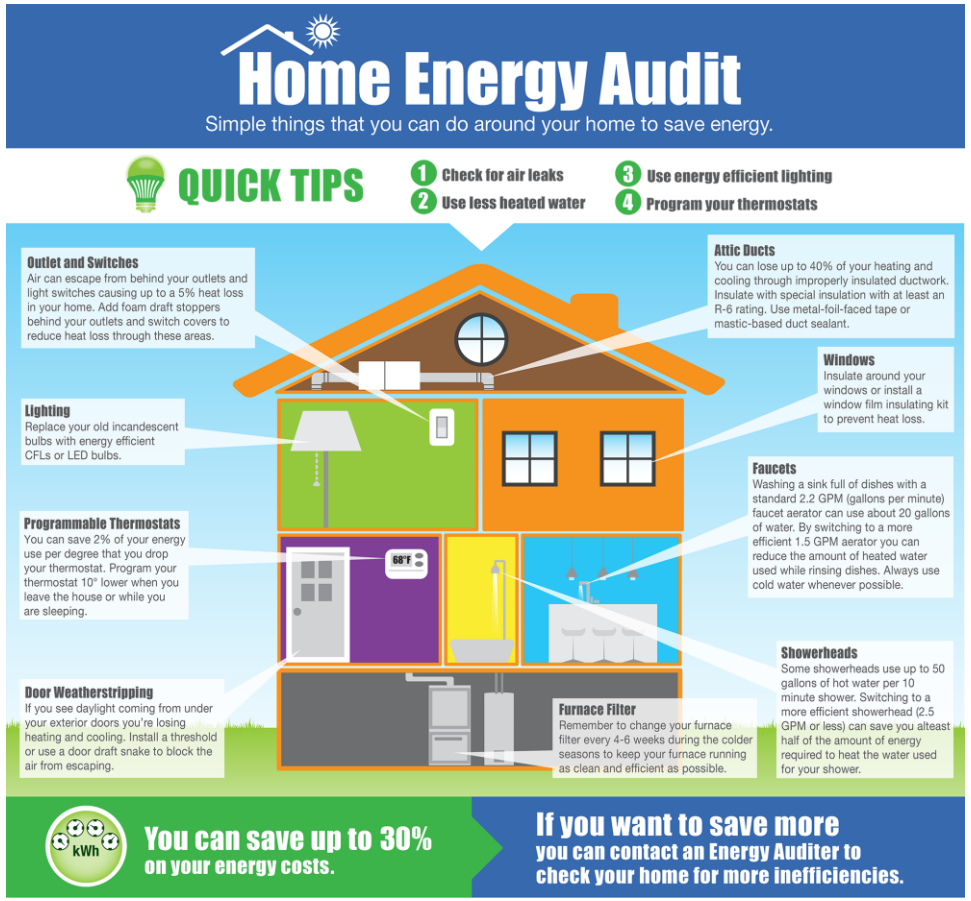
City Government
Policy: Solar Streamlining
Ed: Green Building Certification
Data: Walk through evaluation of all City Occupied Buildings
Data: Renewables Research
Project: 5 Highest ROI Buildings
Solar: New Fire Station 3
Solar: Douglass Gym Expansion
Collab: All Partners

SOLSMART

NATIONALLY DISTINGUISHED. **LOCALLY POWERED.**



Year 2 (FY21/22)



Residential

Ed: Upgraded Energy Audits

Ed: Rebates, Audits, Weatherization, Top 10 Return on Investment Projects.

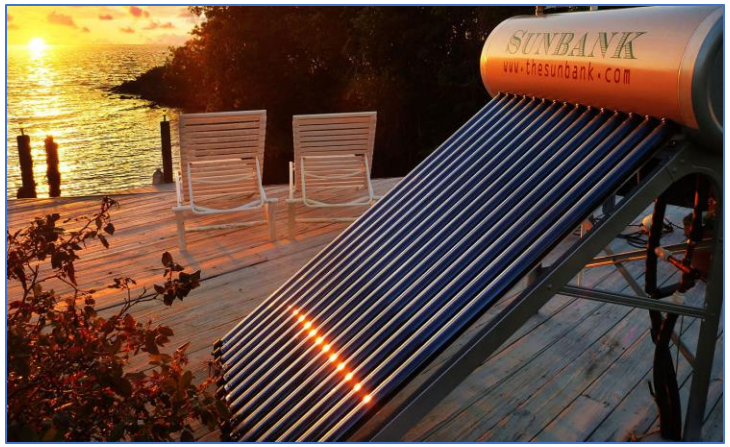
Commercial

Policy: Major Redevelopment: Choice of 3 Efficiency Efforts

Project: Green Business Certification

Year 3 (FY22/23)

City Government
Policy: Solar Water Heater streamlining
Data: Walkthrough Audits of all City Leased Buildings
Projects: 5 Highest ROI Buildings
Ed: Solar training for Inspectors
Collab: At least one Partner



HARBORWALK
KEY WEST HISTORIC SEAPORT

SOLSMART
NATIONALLY DISTINGUISHED. **LOCALLY POWERED.**

Year 3 (FY22/23)

Housing Authority of the City of Key West, Florida

Habitat for Humanity® of Key West and the Lower Florida Keys

ENERGY STAR® Portfolio Manager®

THE COLLEGE OF THE FLORIDA KEYS

Residential

Project: Low Income Housing

Commercial

Policy: Portfolio Manager

Both

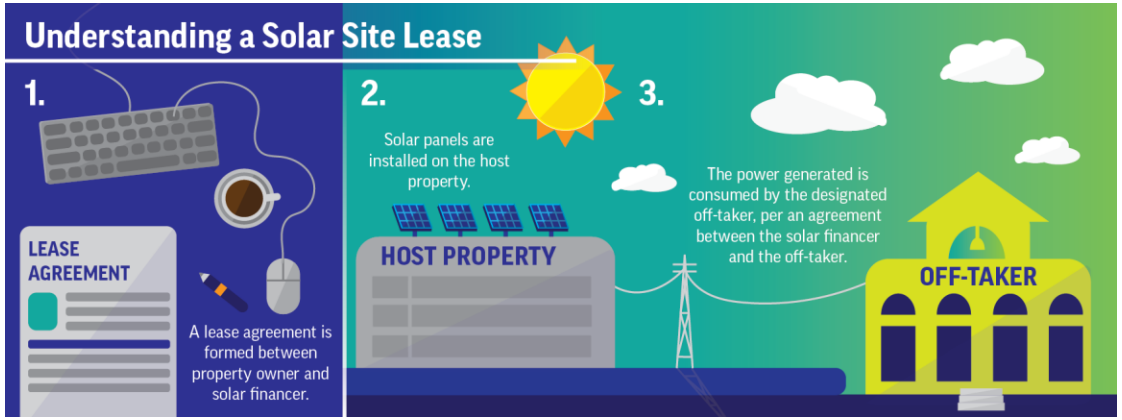
Ed: Solar/Electrical Contractors Refresher Courses

Year 4 (FY23/24)

City Government
Research: EV/Solar/Parking Lots
Project: 5 Highest ROI Buildings
Project: Solar on New or Existing Building
Project: 1st City Green Roof
Collab: At least one Partner

Year 4 (FY23/24)

greenLoans



SOLAR UNITED NEIGHBORS

PACE
Property Assessed Clean Energy Program

Residential
Project: Green Loans
Project: Solar Leasing

Commercial
Ed: Portfolio Manager
Collab: Community Solar

Both
Programs: Solar Coops / PACE

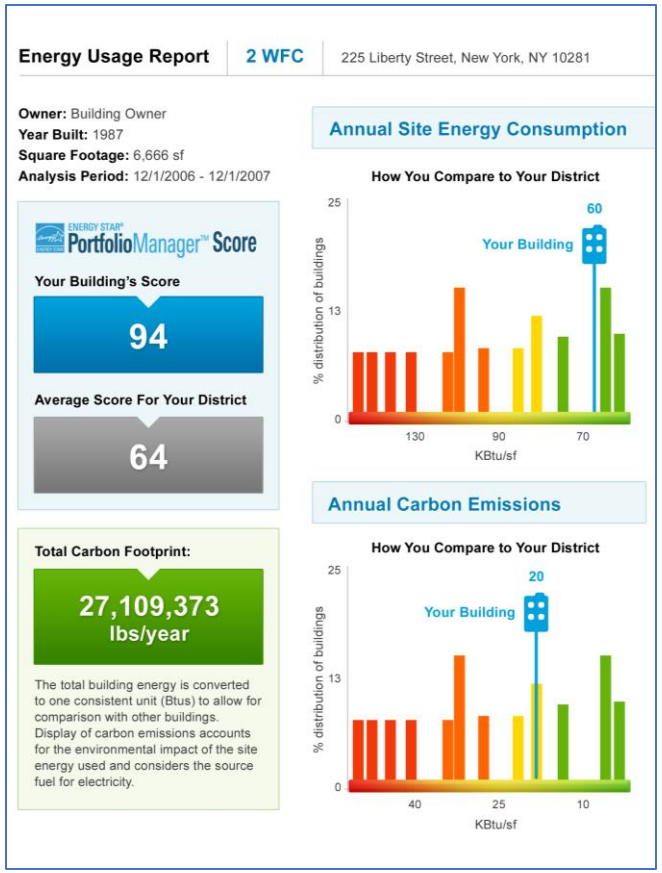
Year 5 (FY24/25)

City Government
Policy: Revisit Ten Year Plan
Project: 5 Highest ROI Buildings
Project: Solar on New or Existing Building
Project: Solar EV Parking Lot
Collab: At least one Partner

Orig Year	Update Year
✓ 1	
✓ 2	
✓ 3	
✓ 4	
✓ 5	
~~6~~	1
~~7~~	2
~~8~~	3
~~9~~	4
~~10~~	5
	6
	7
	8
	9
	10

Year 5 (FY24/25)

Total Households: ~10,000
Work with ~100 households in first year



Residential

Project: Help Lowest 1%

Commercial

Research: Analyze Bldg Stock – Set Portfolio Manager Tiers

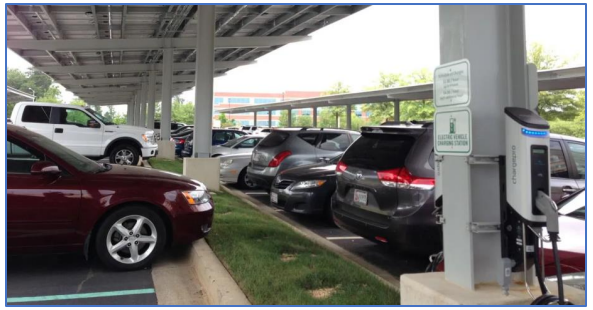
Ed: Commercial Challenge

GREEN BUSINESS CHALLENGE
AN ICLEI USA PROGRAM

Better Buildings CHALLENGE
U.S. DEPARTMENT OF ENERGY

Year 6 (FY25/26)

City Government
ALL City Occupied Bldgs Complete!
Data: Commercial Grade Audits on 5 City Occupied Buildings
Project: Partner on 5 City Leased Bldgs
Project: Solar on New or Existing Building
Project: Solar EV Parking Lot
Collab: At least one Partner



Year 6 (FY25/26)

Total Households: ~10,000
Work with ~500 households in 2nd year

Residential
Project: Lowest 5%

Commercial
Ed: Commercial Challenge

GREEN BUSINESS CHALLENGE
AN ICLEI USA PROGRAM

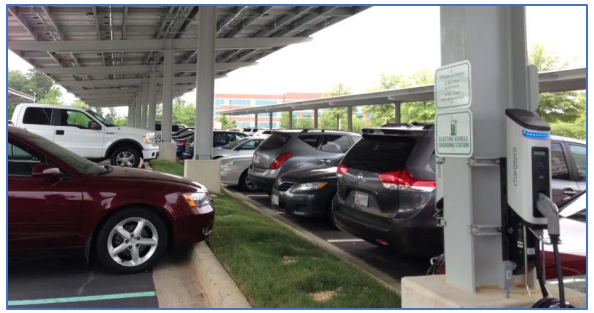
Better Buildings CHALLENGE
U.S. DEPARTMENT OF ENERGY

Year 7 (FY26/27)

City Government
Project: First ESCO Project
Project: Partner on 5 City Leased Bldgs
Project: Solar on New or Existing Building
Project: Solar EV Parking Lot
Collab: At least one Partner

ESCO

Energy Service Company



HARBORWALK

KEY WEST HISTORIC SEAPORT

Year 7 (FY26/27)

GREEN BUSINESS CHALLENGE
AN ICLEI USA PROGRAM

Better Buildings CHALLENGE
U.S. DEPARTMENT OF ENERGY

THE COLLEGE OF THE FLORIDA KEYS

Residential

Project: Lowest 5%

Commercial

Ed: Commercial Challenge

Both

Ed: Solar/Electrical Contractors Refresher Courses

Year 8-10 (FY27-30)

City Government
Project: Partner on 5 City Leased Bldgs
Project: Solar on New or Existing Building
Project: Solar EV Parking Lot
Collab: At least one Partner

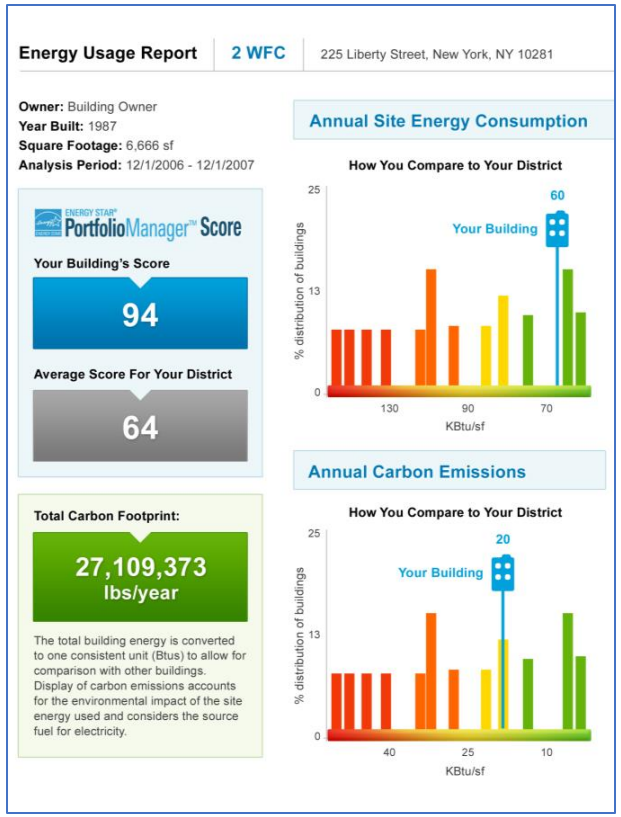
Year 8 (FY27/28)

Year 9 (FY28/29)

Year 10 (FY29/30)

SOLAR UNITED NEIGHBORS

PACE
Property Assessed Clean Energy Program



Residential

Project: Lowest 5%

Commercial

Ed: Commercial Challenge

FY29: Lowest Audits

FY30: Everybody up one Tier

Both

Ed: Solar United / PACE push