



**1664 - Energy Conservation at Various County Facilities**

**Project Series:** General Government Support: Shared Services      **Location:** Various County Facilities  
**Department(s):** Public Works      **Project Status:** Ongoing Energy Upgrades  
**Funding Status:** Funded As Scheduled And Increased      **Priority Rank:** 70

**PROJECT DESCRIPTION:** The Department of Public Works has been pursuing an aggressive energy conservation program in new design and renovation of existing facilities. All capital programs for new construction or renovations incorporate the best available architectural and engineering energy saving measures in the design. This project will speed up implementation of energy saving measures in our facilities, reducing energy consumption in Suffolk County facilities. Projects will be conducted in collaboration with energy conservation programs affiliated with NYTPA, LIPA, NYSEKDA and others.

Energy saving features incorporated in new designs or major renovations include:

- Increased insulation for the building envelope
- Solar film, weather stripping, and caulking
- Energy efficient lighting
- High-efficiency motors
- Direct fired chillers
- Economizer cycles on air handlers (using outside air for cooling)
- Water conservation equipment
- High-efficiency windows
- Building energy management systems
- Occupancy sensors on lighting systems
- High-efficiency dual fuel boiler burners
- High-efficiency boilers
- Variable speed drives on large fans and industrial equipment
- Co-generation installation

**OPERATING BUDGET IMPACT:** There should be a positive operating budget impact from this program.

**APPROPRIATION SCHEDULE (\$000s)**

Cost Elements	Total Est. Cost	Approp. Prior to 12/31/18	Additional Approp. Required	Adopted/Mod 2019 Capital Budget				Capital Program 2020-2022	Subsequent Years	Proposed 2020 CPTL Budget		Adopted 2020 CPTL Budget	
				2020	2021	2022	2020			2021	2022	2020 CPTL Budget	2020 CPTL Budget
1. Planning, Design & Supervision	2,359	1,909	450	100 B	100 B	0	100 B	200	150 B	100 B	100 B	100 B	
3. Construction	43,442	33,242	10,200	1,900 B	1,900 B	2,000 B	1,900 B	5,800	2,500 B	1,900 B	1,900 B	1,900 B	
<b>Total</b>	<b>45,801</b>	<b>35,151</b>	<b>10,650</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>6,000</b>	<b>2,650</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	