

Tier 1: Carbon-cutting projects COA is moving forward on currently

Project Name	Description	Potential Annual CO2 Reduction (MT CO2e)	Project Cost (ballpark)	Departments Involved	Potential Funding Sources	Challenges to consider
Replace boiler and convert City Hall heating to all hot water	Replace boiler with high efficiency staged boiler; Retrofit outdated steam system to be fully on higher efficiency hot water heating	34	\$ 500,000	Gen Svcs	Gen Svcs CIP; General Fund	Beyond funding, none foreseen
Building Automation Expansion	Enhance the level and coverage of the current building automation program; Muni Bldg next on list	TBD	\$ 50,000	Gen Svcs	Gen Svcs CIP	Beyond funding, none foreseen
Fire Station 14 Design	Ensure new fire station is as green and efficient as possible, achieves LEED Silver	n/a	TBD	Gen Svcs; Fire	Gen Svcs CIP	Pending funding authorization for the construction
US Cellular Center HVAC Controls	Upgrade USCC HVAC controls system to enable remote access, advanced scheduling	TBD	\$ 25,000	CED; Gen Svcs	Green CIP	Compatibility with existing system
Civic Center Parking Garage LED Lighting	Convert existing T8 lighting to LED fixtures with motion/daylight sensors	66	\$ 120,000	Transportation; Gen Svcs	Parking Fund; Green CIP	Beyond funding, none foreseen
Purchase Hybrids and Plug in Hybrids (PHEVs) for fleet	As vehicles come up for replacement in Fleet CIP, replace with HEVs and PHEVs whenever possible	TBD	~\$3k per vehicle	Gen Svcs; Purchasing; Vehicle Users	Fleet CIP	Beyond funding, none foreseen
Solar PV on USCC	Lease of roofspace for a ~277 kW solar PV array on USCC roof	177	n/a - Leased	CED; Gen Svcs; Capital Projects	Solar Developer; Green CIP (to purchase RECs)	Roof lifespan, integration with other USCC needs. Other facilities under review for solar.
Phase V LED Street Light Replacement	Replace 355 Duke-owned roadway street light fixtures with LEDs	92	\$ -	Transportation	Duke Energy	Waiting for Duke to fit into their work queue
Area Light LED conversion	Replace 230 Duke-owned area light fixtures with LEDs	60	\$ -	Transportation	Duke Energy	Site visits required for each facility
Decorative LED Conversion (Duke-owned)	Convert 686 decorative lights downtown to LED	179	\$ -	Transportation	Duke Energy	Pole/light compatibility; LED light adequacy; Design aesthetics and public approval
Decorative LED Conversion (COA-owned)	Convert lights on Wall Street to LED. Subsequent lights to follow.	8	\$ 60,000	Transportation	Green CIP	New process for City will take time; some poles are possibly deficient

Total estimated:	616
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