

	CAAP Sector	Solution	Steps	Description	Amount	Relevant/Owning Departments	CAAP Team	FY2025 Result	
1	Energy	Deploy a "virtual power plant" to manage peak demand. A virtual power plant is the aggregation and management of distributed energy resources (DERs), devices such as smart thermostats, solar and storage units, electric water heaters, and other technologies that produce, store, or manage energy, in order to manage demand on the grid.	FY25: RFP for virtual power plant design.	The RFP submissions should detail the program design of the VPP, the types of distributed energy resources (DER) that could be integrated into the VPP, possible providers of aggregation software to manage the DERs, and potential cost savings for the utility and ratepayers.	\$70,000	City of Columbia Utilities	Clean Energy	This NDI was shortlisted for consideration with preliminary approval and ultimately was not approved due to funding availability.	
	Energy		<i>Future Funding Requests*</i> <i>*SUBJECT TO CHANGE BASED ON RFP RESULTS</i>						
					<p><i>Water & Light will retain or contract a VPP aggregation software provider to manage the VPP. The costs to the utility related to the incentivization, subsidization, or distribution of DERs to customers will depend on the VPP model that is adopted.</i></p> <p><i>The continuation of these expenses will depend on the structure of the VPP selected (i.e., if W&L purchases an aggregation software instead of contracting it, it will be a one-time expense; if W&L recoups the cost of DERs through on-bill financing, these appropriations will eventually be repaid; if W&L uses a bring-your-own device model, any costs to the utility for the VPP would be limited to incentives, etc.).</i></p>		City of Columbia Utilities		Clean Energy
	Energy	Establish 5 – 10 resilience hubs that can also participate in the VPP.	FY26: Retrofit select municipal buildings with distributed energy resources to be used as a resilience hub during a climate event.			City of Columbia Utilities, Public Works			
2	Housing, Building and Development	Match Zero Energy Ready Home 45 L tax credit for up to 5 homes.	Provide "matching" funds (up to a max \$5,000) for new construction homes (single and multifamily) that take part in the DOE Section 45L Zero Energy Ready Homes (ZERH) Tax Credit (https://www.energy.gov/eere/buildings/section-45l-tax-credits-zero-energy-ready-homes)	<p>Eligibility for matching incentives would be limited to projects that are being sponsored by local housing organizations such as Columbia Housing Authority, Habitat for Humanity, etc.</p> <p>Appropriate City Staff would be responsible for additional parameters regarding implementation.</p> <p>Benefits to city –</p> <ul style="list-style-type: none"> · Provides incentives to the building sector to develop appropriate skillsets/knowledge base in the Columbia region. · Energy Savings. ZERH modeling suggests a ~ 30 to 40% energy savings. <p>Recipients would provide cost of construction information.</p>	\$750,000 \$30,000 5 x \$5,000 structures and \$5,000 for admin/tracking/pro motion, etc	Housing and Neighborhood Services	Healthy Housing	This NDI did not receive preliminary approval. Based on overall funding availability and low staff capacity to implement the program.	
	Housing, Building and Development	Refurbish existing structures to improve/reduce energy consumption.		Similar concept of monitoring aspects of the projects so as to use as a training platform. Ideally structures would be similar so comparisons could be made against each other.		Housing and Neighborhood Services	Healthy Housing		

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3	Natural Resources	Allocate \$90,000 to strategic planting to revegetate stream buffers not included in 2007 buffer ordinance	Use NRI and stormwater data to designate opportunity areas for flood risk reduction			Sustainability/Parks & Rec	Good Stewards	This NDI did not receive preliminary approval primarily because the lack of information on what impact the funding amount would have, how areas would be identified for revegetation and what authority would be used made success too uncertain. Further study in these areas is recommended by CAAP teams as a first step.
4	Cross-Cutting Strategies and Actions	Add staff capacity to resilience initiatives (Show Me The Heat) 2 FTE.		Support OS FY2025 NDI		Sustainability	Good Stewards	This NDI received preliminary and final approval for 1 FTE.
5	Cross-Cutting Strategies and Actions	Funding for more marketing information, PSAs, on KOMU8 etc.		Support OS FY2025 NDI	~\$40,000 To align with staff proposal	Sustainability	Implementation	This NDI was shortlisted for consideration with preliminary approval and ultimately was not approved due to overall funding availability.