City of Racine Sustainability and Decarbonization Project

Finance and Personnel Committee Meeting July 10, 2023



About McKinstry



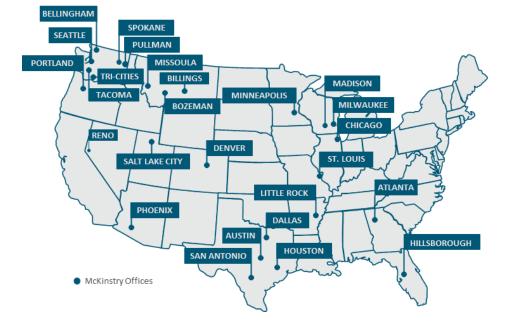


Our National Footprint

Local team backed by a deep bench

Our Midwest Footprint

- National leader in designing, constructing, operating and managing high-performing facilities
- Founded in 1960
- 26 offices nationwide
- 2,100+ employees
- 90+ licensed Professional Engineers
- \$700M annual revenue





- More than 80 projects worth over \$350 M in last five years
- Strong partnerships leading to legacy clients
- Local WI offices



City of Racine Partnership

Strong Commitment to the City of Racine

- McKinstry has 20+ years of <u>WI and National experience and is a leader in Guaranteed Energy</u> <u>Savings Projects in WI (\$350 Million in projects!)</u> using State Statute 66.0133
- Extensive experience with Solar PV; Solar Canopy; Energy Efficiency and EV Charging
- Unique Experience with Federal Funding ENERGY Projects and Department of Energy
 - <u>Blue Earth County</u> In construction: currently working with DOE on Federal Application forms, project approval anticipated in July
 - SouthWest Transit Authority In construction: currently working with DOE
- ✓ WE Energies Collaboration
- ✓ De-risk Solar PV projects by design, install, maintain and operate
- Approach to leverage energy and operational savings – guarantee results



Visior

Racine Sustainability and Decarbonization Project

Achieve the 1st system in the State of Wisconsin to offset electric vehicle bus charging with renewable energy generated on-site from solar PV at the Storage Garage site.

- Maximize Renewable Energy (Solar PV) to offset EV Bus charging on-site
 - ✓ 1st in State of WI !!
- Create jobs, local workforce & economic development
- Showcase clean energy technologies <u>"Smart City"</u>
- Accelerate City's sustainability and decarbonization goals <u>"Paris Climate</u> <u>Accord"</u>
- ✓ Long term utility savings City-wide: Minimize impact on taxpayers
- ✓ Demonstrate readiness for EV charging in Racine
- Prepare City with a "shovel-ready project" <u>50% funding from DOE</u>
- <u>Racine and RYDE continues a legacy of sustainability and innovation in</u> <u>Transit and City operations</u>



City of Racine – Sustainability and Decarbonization Project

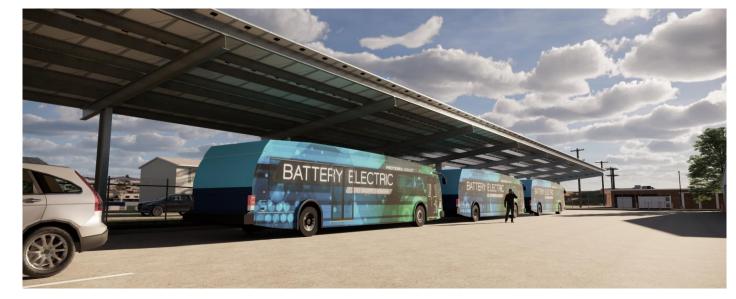


\$2.6 Million <u>City of Racine – Transit & RYDE</u> Solar PV – Storage Garage Offset EV Bus Charging

Multi Building Energy Upgrades Sustainability Energy Site













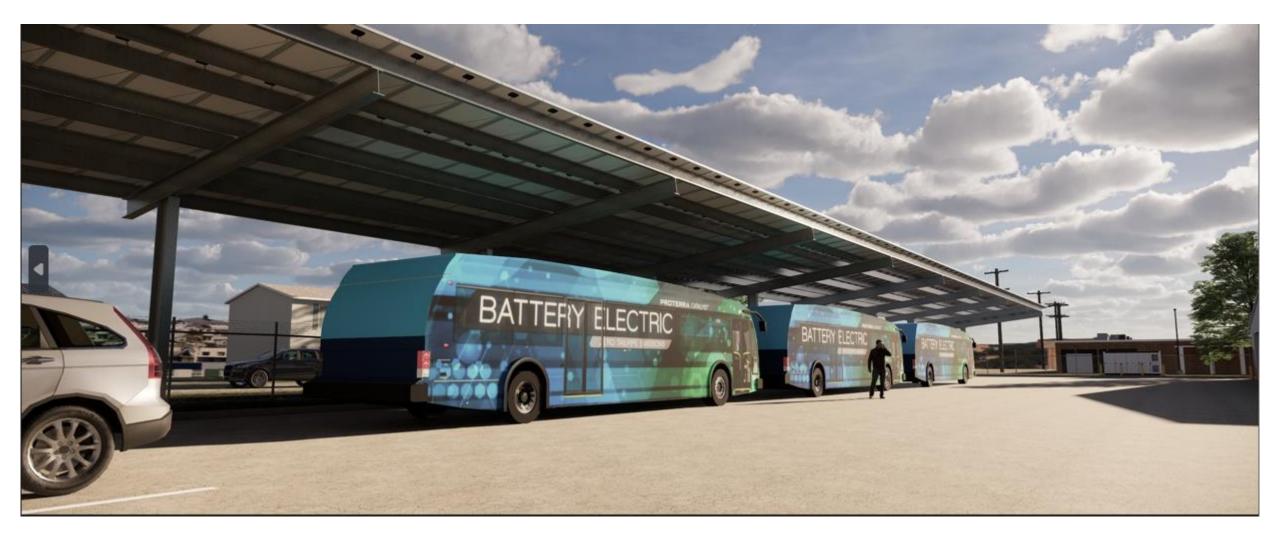


















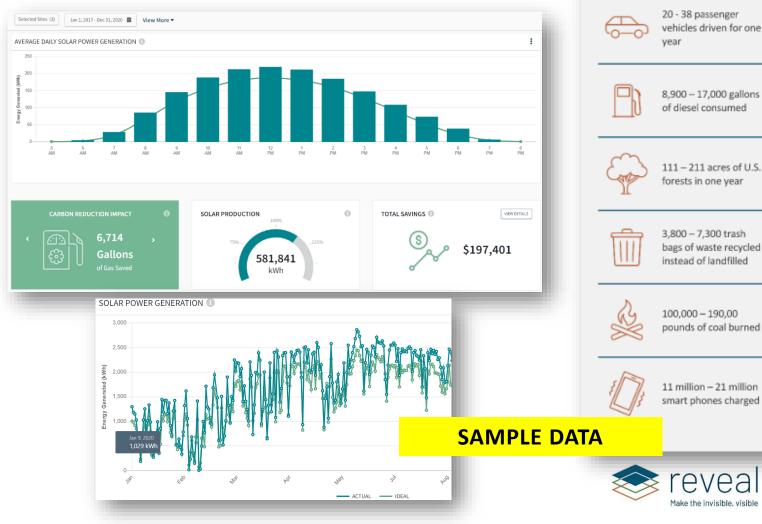
Energy Conservation & Renewables

2

3

1 Displays real-time and historical production data

- Compares actual values to predicted ideal values
- Calculates equivalencies to measure impact of renewable energy production



SOLAR PROJECT

ENVIRONMENTAL BENEFITS

Potential Environmental Offsets:

3.9 – 7.5 MWh of clean, renewable

electricity in Racine

over 30 years

Ackinstry For The Life Of Your Building

City of Racine and McKinstry Partnership

Sustainability and Decarbonization Project Work accomplished to prepare the City for a Guaranteed Energy Savings Agreement (WI State Statute 66.0133)		<u>Deliverable Date</u>
✓	Preliminary Energy Evaluation for Federal Funding report delivered	Aug. 5, 2022
✓	Congressionally Directed Spending (CDS) Project Package for applying for CDS funds via Senator Tammy Baldwin's office	May 4, 2022
~	Success! <u>City notified that the Sustainability and Decarbonization Project was included in</u> the FY23 CDS list of approved projects by the Federal Government as part of the Energy and Water Appropriations Bill ("City of Racine Storage Garage Site")	End 2022/ early 2023
\checkmark	City selected McKinstry to provide an Investment Grade Audit	Oct 7, 2022
✓	McKinstry delivered Investment Grade Audit report - detail required for Department of Energy for CDS projects	March 30, 2023
\checkmark	City received initial pending award letter from the Department of Energy (DOE)	June 8, 2023
\checkmark	One-Page Summary developed by City and McKinstry – delivered to DOE	June 19,2023



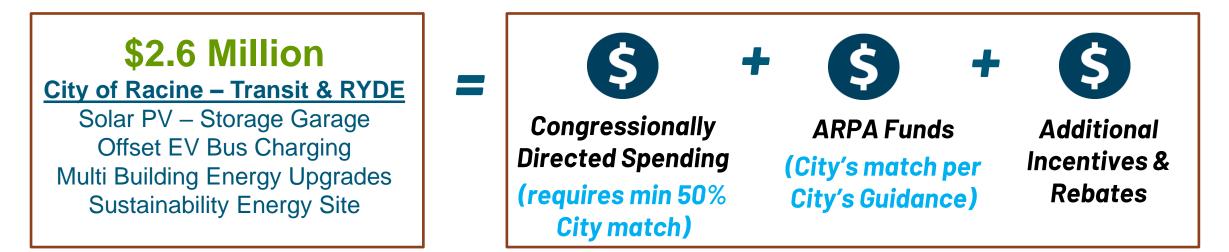
Funding the Sustainability and Decarbonization Project

Goal: Minimize need for City Capital Contribution

✓ Congressionally Directed Spending (\$1.235 Million)

✓ ARPA Funds - per City's guidance

✓ Leverage other local, state, utility grants



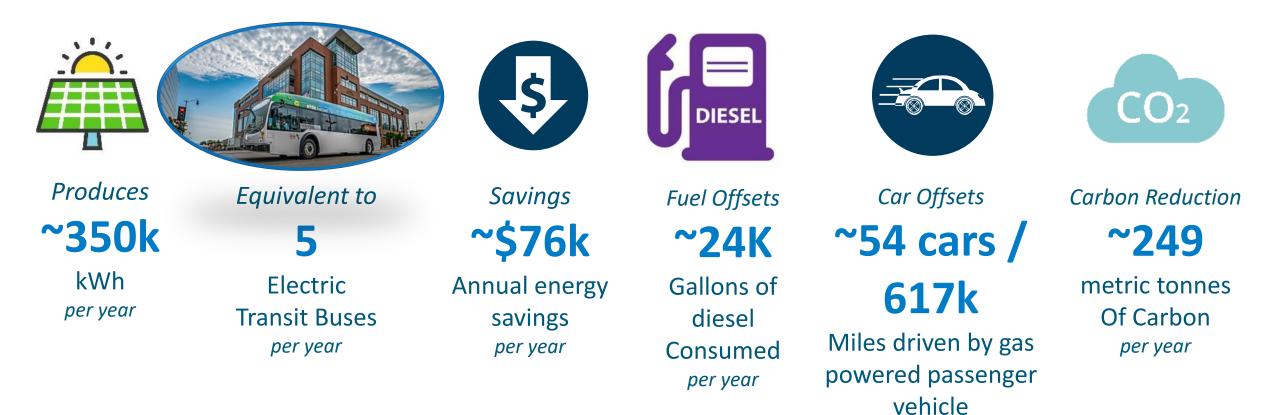
Plus – Guaranteed Energy Savings Agreement ~ \$76,000 / yr in savings



Sustainability and Economic Benefits

Annually, over the life-span of the systems, this project will provide:

In WI to offset EV Transit Bus charging with renewable energy generated on-site

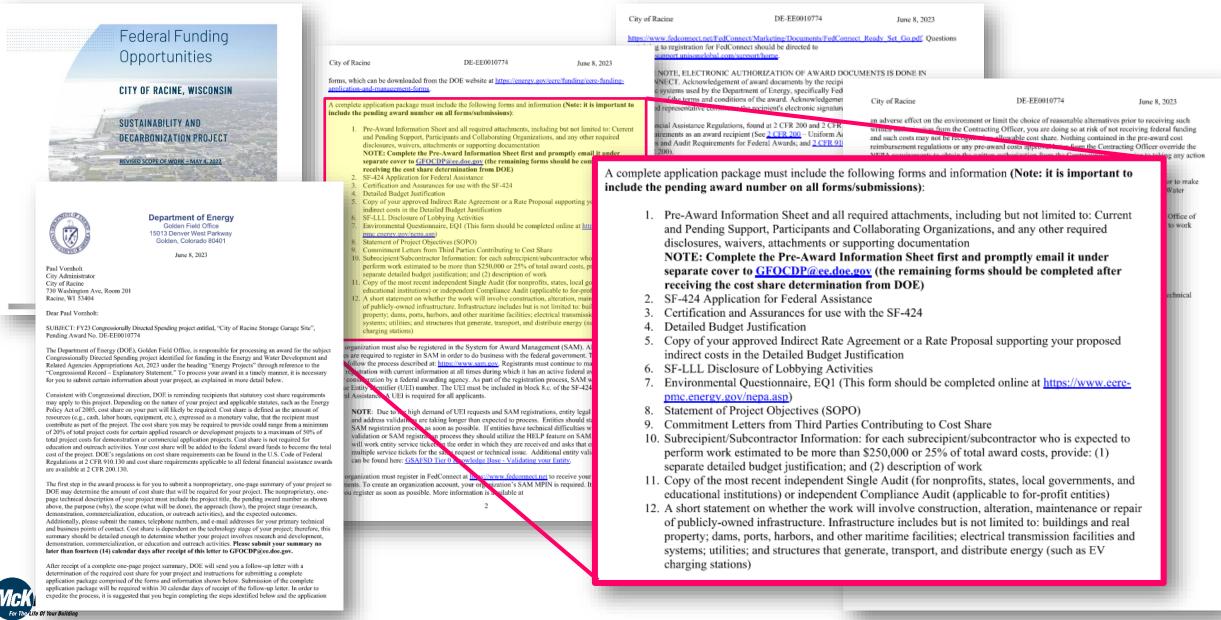




Note: All values subject to change upon IGA completion

per year

City of Racine – Department of Energy Initial Letter and Upcoming Work



Next Steps

- Seeking approval from City Finance and Personnel Committee
- July 18th Common Council Meeting
- Enter into a Guaranteed Energy Savings Agreement with McKinstry
 - Finalize project details for final design, implementation, project management, measure and verification
 - Guaranteed energy and operational savings (\$76 k/ year) WI State Statute 66.0133
 - Complete Forms for Department of Energy with McKinstry's assistance
 - Pending Award Letter Received June 8, 2023
 - Complete application package (12 ++ Forms)
 - DOE Project Manager Assigned
 - McKinstry to assist City as a liaison to the DOE (Blue Earth County current experience)
 - Deploy a SHOWCASE PROJECT for the City of Racine and RYDE

<u>Deploy a showcase project for the City of Racine Transit and RYDE</u> Go Electric! With Solar!



In WI to offset EV Transit Bus charging with renewable energy generated on-site

Questions

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