

UPDATE ON RWQCP BIOGAS & DIGESTATE MANAGEMENT UPGRADING FACILITIES

Public Works Department

Mobility & Infrastructure Committee April 13, 2023

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PROJECT BACKGROUND

- 1. August 18, 2020, City Council Approves Public Works Renewable Resource Management Plan.
- 2. RWQCP infrastructure and biogas currently underutilized
- RWQCP upgrades can <u>optimize infrastructure</u> and <u>generate revenue</u> from byproducts (biogas & digestate)



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PROJECT BACKGROUND

- 4. Organic waste recycling at RWQCP can support SB1383 compliance and enhance project impact
- 5. Experienced P3 entity provides financing, infrastructure, and operations, which <u>reduces project</u> <u>risk</u> to City



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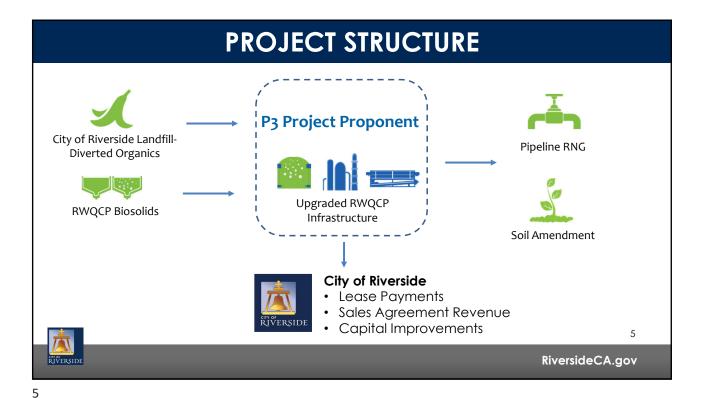
PROJECT SCOPE

- 1. <u>Biogas</u>: Upgrade RWQCP biogas to RNG for SoCal Gas pipeline injection and sale
- 2. <u>Digestate Management</u>: Process and manage RWQCP biosolids from anaerobic digestion for sale
- 3. <u>Rehabilitation of Digester No. 5</u>: Return digester to service to enable digestion of food waste, leveraging \$2 million in awarded CalRecycle grant funds

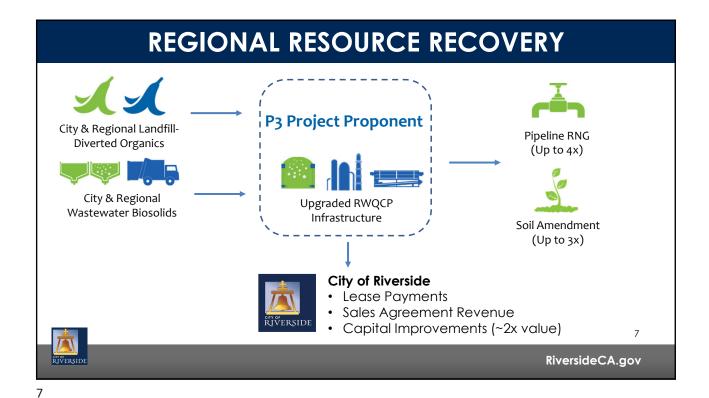


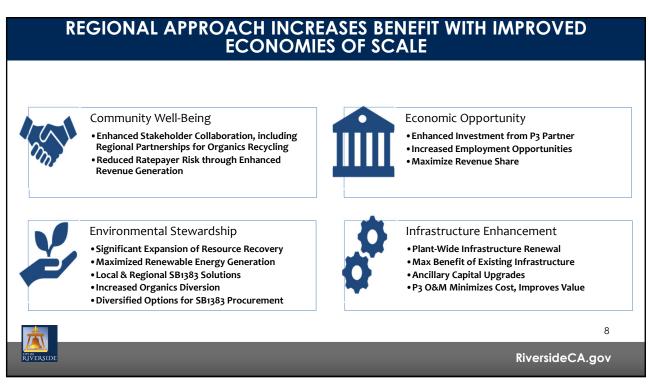
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ADVANCING CITY GOALS Community Well-Being **Economic Opportunity** Permit Compliance • Capital from P3 Partner Minimum Aesthetic Impact • Local Employment & Investment • Stakeholder Collaboration • Phasing to Expedite Benefits • Maximize Revenue Share • Neighboring Waste Recovery Facilities • Rate Stabilization **Environmental Stewardship** Infrastructure Enhancement • Maximize Biomethane & Digestate Recovery • Technology Solutions • 100% Utilization, Plus Enhanced Resource Recovery Ancillary Capital Upgrades SB1383 Solutions • P3 O&M Minimizes Cost, Improves Value • Future Expansion RiversideCA.gov





FUNDS ENHANCE ECONOMICS

- CalRecycle grant programs demonstrate continued State support for organics digestion & biogas projects
 - ORG5, 2021: \$2 million for Digester No. 5 rehab
 - ORG7, 2023: Up to \$13 million available for project scope, applications due April 20, 2023



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SUSTAINABLE AND SELF-RELIANT RIVERSIDE Collection Transported Anaerobic Digestion Organic Waste Collected and Produced Processed CLOSED LOOP **Upgrade Biogas** Renewable CNG to Renewable to Renewable for Riverside Fleet Natural Gas Electricity Inject Renewable 10 RiversideCA.gov

STRATEGIC PLAN ALIGNMENT

Strategic Priority 4 – Environmental Stewardship

Goal 4.6: Implement the requisite measures to achieve citywide carbon neutrality no later than 2040.

Strategic Priority 5 – High Performing Government

Goal 5.2: Utilize technology, data and process improvement strategies to increase efficiencies, guide decision making and ensure services are accessible and distributed equitably throughout all geographic areas of the City.

Priority 6 – Infrastructure, Mobility, and Connectivity

Goal 6.3 Identify and pursue new and unique funding opportunities to develop, operate, maintain, and renew infrastructure and programs that meet the community's needs.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility





Equity



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RECOMMENDATION

That the Mobility and Infrastructure receive and file an update on the Riverside Regional Water Quality Control Plant Biogas and Digestate Management Upgrading Facilities



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