



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
3. RWQCP upgrades can optimize infrastructure and generate revenue 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 reduces project risk to City



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PROJECT SCOPE

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

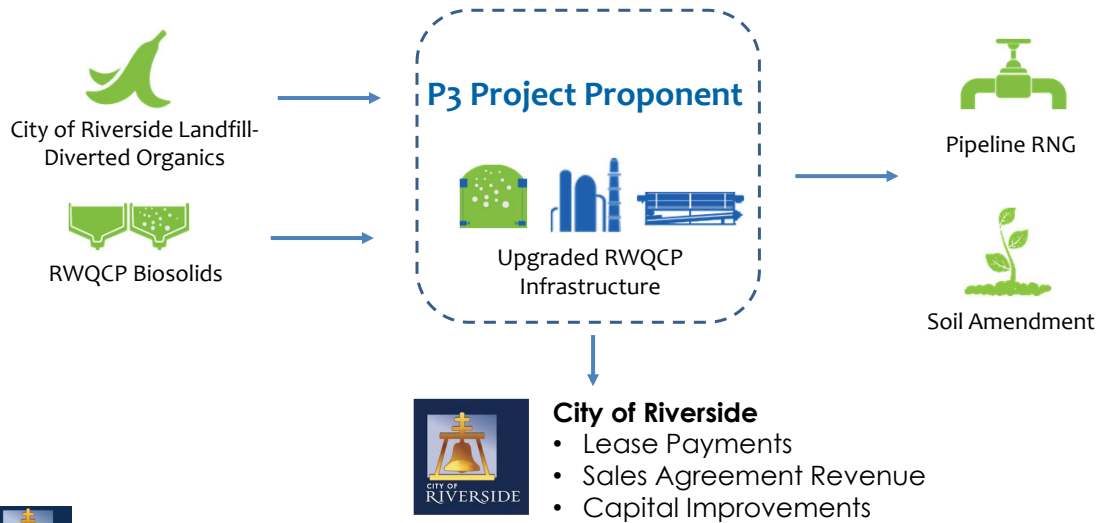


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PROJECT STRUCTURE



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ADVANCING CITY GOALS



Community Well-Being

- Permit Compliance
- Minimum Aesthetic Impact
- Stakeholder Collaboration
- Neighboring Waste Recovery Facilities
- Rate Stabilization



Economic Opportunity

- Capital from P3 Partner
- Local Employment & Investment
- Phasing to Expedite Benefits
- Maximize Revenue Share



Environmental Stewardship

- Maximize Biomethane & Digestate Recovery
- 100% Utilization, Plus Enhanced Resource Recovery
- SB1383 Solutions



Infrastructure Enhancement

- Technology Solutions
- Ancillary Capital Upgrades
- P3 O&M Minimizes Cost, Improves Value
- Future Expansion

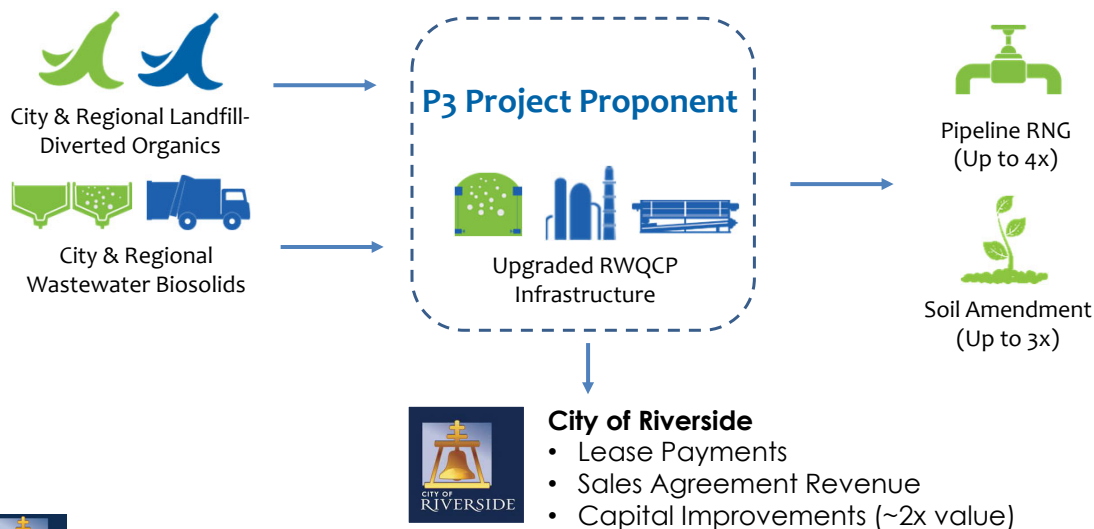
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REGIONAL RESOURCE RECOVERY



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REGIONAL APPROACH INCREASES BENEFIT WITH IMPROVED ECONOMIES OF SCALE



Community Well-Being

- Enhanced Stakeholder Collaboration, including Regional Partnerships for Organics Recycling
- Reduced Ratepayer Risk through Enhanced Revenue Generation



Economic Opportunity

- Enhanced Investment from P3 Partner
- Increased Employment Opportunities
- Maximize Revenue Share



Environmental Stewardship

- Significant Expansion of Resource Recovery
- Maximized Renewable Energy Generation
- Local & Regional SB1383 Solutions
- Increased Organics Diversion
- Diversified Options for SB1383 Procurement



Infrastructure Enhancement

- Plant-Wide Infrastructure Renewal
- Max Benefit of Existing Infrastructure
- Ancillary Capital Upgrades
- P3 O&M Minimizes Cost, Improves Value



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FUNDS ENHANCE ECONOMICS

1. 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

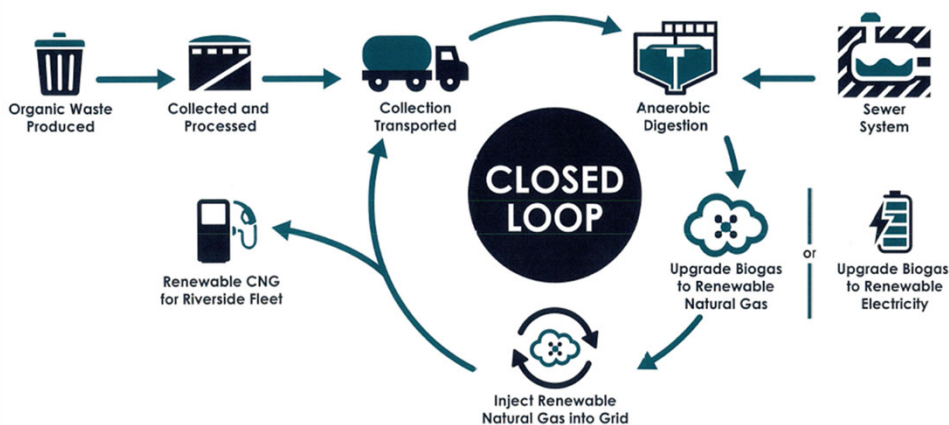


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SUSTAINABLE AND SELF-RELIANT RIVERSIDE



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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



Sustainability & Resiliency



Equity



Innovation



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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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