

RENEWABLE RESOURCE MANAGEMENT PLAN

Public Works Department

City Council August 4, 2020

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RENEWABLE RESOURCE MANAGEMENT

GOALS



Lead with Innovation and Technology



Stabilize
Operational Expenses



Achieve Energy Independence



Recover Resources for Sustainability

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RENEWABLE RESOURCES





- Local industry process and food waste – treatment fee collected
- Increase bio-methane for energy production
- Increase recycling to meet waste reduction mandates



Recycled Water Production

- Produces high quality water
- Recycle increasing along with regional water management
- Future potable water reuse and Santa Ana River habitat enhancement



Biosolids Beneficial Reuse

- Now land applied for non-food crops in Arizona
- Future produce high quality fertilizer for local – regional use Ag & Nurseries etc.

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RENEWABLE RESOURCES





Fuel Cell Energy

- PW-Private project Existing
- Uses bio-methane as fuel
- Provides 50% electrical demand & clean air emissions
- 20-year term with stable electrical costs





Microturbines Green Power

- PW-RPU project In-progress
- Use bio-methane as fuel
- Will provide another 50% of demand - 100% energy needs
- Provide RPU with green energy credits – Calif. cap and trade program



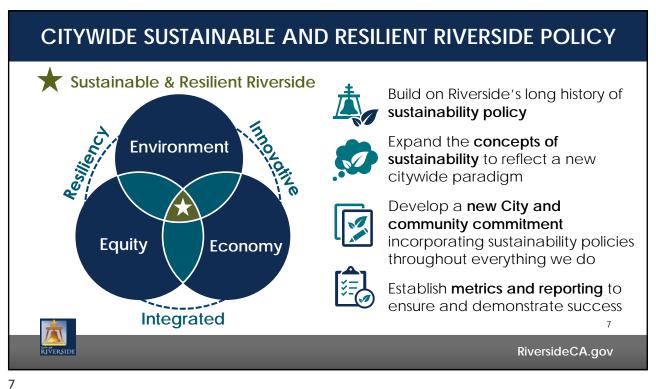


- PW-SoCal Gas project in progress
- Clean bio-methane to RNG standards
- Distribute RNG to NG pipeline for revenue generation
- Produce CNG for City stations



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RECOMMENDATION

That the City Council approve Public Works Renewable Resource Management.

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