



# RENEWABLE RESOURCE MANAGEMENT PLAN

Public Works Department

City Council  
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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 RESOURCE MANAGEMENT

## RESOURCE AREAS



Recycled Water



Organics



Energy



Waste Recycling



Public Works is coordinating with Riverside Public Utilities on **Water** and **Energy** partnership opportunities.



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# ONE WATER - ONE RIVERSIDE

## INTEGRATED WATER PLANNING



### Video Introduction

Riverside Public Utilities and Public Works are working as ONE to add value to our community by maintaining a reliable water supply, advancing our economy and keeping waterways healthy.

<https://www.youtube.com/watch?v=kalrKA-fSQ4>



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## RENEWABLE RESOURCES



### Organics Recycling

- 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



### Renewable Natural Gas (RNG)

- 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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## CITYWIDE SUSTAINABLE AND RESILIENT RIVERSIDE POLICY

### ★ Sustainable & Resilient Riverside



Build on Riverside's long history of **sustainability policy**



Expand the **concepts of sustainability** to reflect a new citywide paradigm



Develop a **new City and community commitment** incorporating sustainability policies throughout everything we do



Establish **metrics and reporting** to ensure and demonstrate success

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## RECOMMENDATION

That the City Council approve Public Works Renewable Resource Management.



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