



GENERATION DIVISION PROJECT OVERVIEW FOR 2026

Riverside Public Utilities

Board of Public Utilities
February 9, 2026

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BACKGROUND

Springs Power Plant



- 36 MW
- Commissioned in 2002
- 23 years in operation
- Forecasted retirement → 2030

Clearwater Power Plant



- 28 MW
- Commissioned in 2005
- 20 years in operation
- Forecasted retirement → 2040

Riverside Energy Resource Center (RERC)



- 196 MW
- Units 1 & 2 Commissioned in 2006
- 19 years in operation
- Units 3 & 4 Commissioned in 2011
- 14 years in operation
- Forecasted retirement → 2040



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BACKGROUND

1. Routine Maintenance and Support Services
 - a. Essential for normal day-to-day operations
 - b. Necessary to prepare for peak summer performance
 - c. Services for specialized equipment
 - d. Multi-year agreements
 - Ongoing maintenance activities
 - Better pricing
2. More extensive maintenance projects
 - a. Critical to meet retirement timeline



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BACKGROUND – 2025 PROJECT SUMMARY

Project	Facility	Board Approved Date
Routine Maintenance		
Gas Turbine Instrument Calibrations	RERC CW	9/22/2025
Gas Turbine Borescope Inspections	RERC CW	7/28/2025
Gas Compressor Maintenance	RERC	TBA on 1/12/2026
Air Compressor Maintenance	RERC Springs	12/8/2025
Routine Operational Support		
DAS Software Support	All Plants	2/10/2025
Supply of Ammonia	All Plants	6/9/2025
Water Treatment Chemicals	RERC CW	6/9/2025
Balance of Plant Controls Software Support	RERC Springs	2/24/2025
Extensive Maintenance		
Clearwater Cooling Tower Maintenance	CW	1/27/2025
Clearwater Controls Upgrade	CW	10/27/2025



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DISCUSSION – 2026 ROUTINE MAINTENANCE

Project	Description	Cost	Facility
Heat Recovery Steam Generator Maintenance	<ul style="list-style-type: none"> • Converts waste heat from gas turbine exhaust to steam • Replace deteriorated sections of the HRSG 	\$150,000	Clearwater
Reclaimed Water Storage Tank	<ul style="list-style-type: none"> • 300,000-gallon tank supplies reclaimed water to all four gas turbines • Interior of the tank requires recoating 	\$120,000	RERC
Electrical Switchgear Maintenance	<ul style="list-style-type: none"> • Distributes and protects power to critical plant equipment – 75 obsolete automation modules • Replace 37 obsolete modules with current, supported versions 	\$80,000	RERC



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DISCUSSION – 2026 ROUTINE MAINTENANCE

Project	Description	Cost	Facility
RERC Turbine Blade Maintenance Unit 4	<ul style="list-style-type: none"> • Stage 1 High Pressure Compressor (HPC) blades require replacement • Vital maintenance to prevent catastrophic failure 	\$300,000	RERC
RERC Air Compressor Maint. Units 1&2	<ul style="list-style-type: none"> • Pressurized air for plant equipment • Prolong the service life – 3 compressors 	\$90,000/yr	RERC
Uninterruptible Power Supply (UPS) Batteries	<ul style="list-style-type: none"> • Continuous source of electricity to vital plant equipment – 192 stationary batteries • Replace 60 batteries that have reached end of life 	\$150,000	RERC



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DISCUSSION – EXTENSIVE MAINTENANCE

RERC Gas Turbine Control System Maintenance

1. Dedicated control system for turbine normal operations
2. Existing systems installed in 2005 and 2011
3. 16 control modules have been classified as obsolete since 2014
4. Replacement parts are no longer available
5. Unsustainable for the plant to reach retirement
6. Evaluating the option to upgrade to a new configuration which will only require 8 new control modules
7. Preliminary estimate of \$250,000 however, final cost is still to be determined



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DISCUSSION – TIMELINE

Project	Tentative Board Approval
HRSG Insulation Maintenance	2 nd Qtr. 2026
Reclaimed Water Storage Tank Maintenance	2 nd Qtr. 2026
Electrical Switchgear Maintenance	2 nd Qtr. 2026
RERC Gas Turbine Control System Maintenance	2 nd Qtr. 2026
RERC Turbine Blade Maintenance – Unit 4	2 nd Qtr. 2026
RERC Air Compressor Maintenance – Units 1&2	3 rd Qtr. 2026
UPS Batteries at RERC	4 th Qtr. 2026



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RECOMMENDATION

That the Board of Public Utilities receive and file this overview of the upcoming Board agenda items for the Generation division.



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