

INTEGRATED RESOURCE PLAN (IRP)

Date: May 9, 2023

IRPs shall consider all reasonable opportunities to meet future energy resource requirements using Demand Side Management techniques, new renewable resources and other programs that will provide retail consumers with electricity at the lowest possible costs, and minimize, to the extent practicable, adverse environmental effects.

To meet your Integrated Resource Planning reporting requirement, complete the following. Unaddressed items will be deemed incomplete and not eligible for approval. Western reserves the right to require customers to provide any supporting back-up data used to support and develop this report.

Customer Contact Information:

(Provide contact information for your organization. Contact person should be able to answer questions concerning the plan)

Customer Name:	Eastside Power Authority
Address:	23260 Round Valley Road, Lindsay, CA 93247
Contact Person:	Scott Edwards and Cori Bradley
Title:	Scott Edwards – General Manager Cori Bradley – Consultant
Phone Number:	Scott Edwards – 559-562-2581 Cori Bradley – 916-405-8923
E-Mail Address:	Scott Edwards – sae16@lsid.org Cori Bradley – cori@eastsidepa.org
Website:	www.eastsidepa.org

Type of Customer:

(Check one as applicable)

<input type="checkbox"/>	Municipal
<input type="checkbox"/>	State
<input type="checkbox"/>	Federal
<input checked="" type="checkbox"/>	Irrigation District
<input checked="" type="checkbox"/>	Water District
<input type="checkbox"/>	Other (Specify) _____

Identification of Resource Options (considerations that may be used to develop potential options include cost, market potential, consumer preferences, environmental impacts, demand or energy impacts, implementation issues, revenue impacts, and commercial availability):

Supply-side options:

(Including, but not limited to: purchase power contracts and conventional and renewable generation)

List existing supply-side options:	List future supply-side resource options considered and evaluated:
Solar Project PPA – 2 MW	Behind the meter solar
Fixed Quantity/Price contract (LD)	Grid-scale solar development
	Hydropower PPA
	Capacity contract for RA

Demand-side options:

List existing demand-side options:	List future demand-side resource options considered and evaluated:
	Energy storage
	Demand Response

Resource options chosen:

(Provide a narrative statement that describes the option chosen and clearly demonstrates that decisions were based on a reasonable analysis of the options)

ESPA is currently under negotiation for a grid connected solar contract via a PPA to come online in 2025.

ESPA has evaluated contracting and ownership of various small hydro-electric facilities in their local area in the last two years.

Most ESPA members do not have water storage to facilitate Demand Response (DR) or load curtailment without affecting water deliveries. One of the Districts is working on signing up with a DR provider.

ESPA is in discussions with solar/battery developers to evaluate distribution level project(s) on District owned land. The anticipation is that with the Federal incentives, maybe District owned projects many now be feasible.

Action Plan:

Specific Action Items to be Implemented Over the Next 5 Years:

(Lists are not meant to be inclusive, complete and provide other action items as applicable)

Energy Consumption Improvements:

Proposed Items	Begin Date	End Date	Est. kW capacity savings per year	Est. kWh savings per year	Milestones to evaluate accomplishments
Boiler, Furnace, air conditioning retrofits					
Weatherization, insulation					
storm windows/doors					
Insulation of air ducts, boilers, pipes, etc.					
Clock thermostats and equipment system timers					
Heat pumps					
Energy audits					
Public education programs					
Loan arrangements or rebate program for energy efficient equipment					
Use of infrared heat detection equipment					
Energy efficient lighting					
Equipment inspection programs					
Electric motor replacements					
Upgrading of distribution lines/substation equipment					
Power factor improvement					
Other:					

Renewable Energy Activities:

Proposed Items	Begin Date	End Date	Est. kW savings	Est. kWh savings	Milestones to evaluate accomplishments

			per year	per year	
Solar thermal/photovoltaic projects					
Day lighting technologies					
Active solar installations	Q2 2025	10 Years			Sign PPA
Active solar installations	2026	20 Years	TBA	TBA	District Project: Developer proposal evaluation
Biomass/refuse-derived fuels					
Geothermal projects					
Small-scale hydro projects					
Other:					

Load Management Techniques:

Proposed Items	Begin Date	End Date	Est. kW savings per year	Est. kWh savings per year	Milestones to evaluate accomplishments
Load management devices/systems					
Demand control techniques and equipment					
Smart meters or automated equipment					
Time-of-use meters					
Other:					

Rate Design Improvements:

Proposed Items	Begin Date	End Date	Est. kW savings per year	Est. kWh savings per year	Milestones to evaluate accomplishments
Cost-of-service pricing					
Elimination of declining block rates					
Time-of-day rates	1998	Ongoing			All costs pass through to water rates
Seasonal rates					
Interruptible rates					
Other:					

Agricultural Improvements:

Proposed Items	Begin Date	End Date	Est. kW savings per year	Est. kWh savings per year	Milestones to evaluate accomplishments
Irrigation pump utilization/scheduling					
Irrigation pump testing or efficiency improvements					

Electric motor replacement					
Photovoltaic pumping systems					
Ditch lining or piping					
Laser land leveling					
Pumpback systems					
Water conservation programs					
Other:					

5-Year Plan

Environmental Effects:

(Provide a narrative statement that sets forth the efforts taken to minimize adverse environmental effects of new resource acquisitions)

[Empty box for Environmental Effects narrative]

Public Participation:

(Customers must provide ample opportunity for full public participation in preparing and developing an IRP. Provide a brief description of public involvement activities, including how information was gathered from the public, how public concerns were identified, how information was shared with the public, and how it responded to the public comments)

ESPA reviews project options at publicly noticed meetings. On implementation ESPA follows CEQA standards for public participation

5-Year Plan

Future Energy Service Projections:

(Provide a load forecast to show expected growth or expansion; or a narrative statement concerning expected future growth)

Calendar Year	Peak Demand (kW)	Total Energy (kWh)
2024	11,000	32,000,000
2025	11,000	32,000,000
2026	11,000	32,000,000
2027	11,000	32,000,000
2028	11,000	32,000,000

or Narrative Statement:


Measurement Strategies:

(Provide a brief description of measurement strategies for options identified in the IRP to determine whether the IRP's objectives are being met. These validation methods must include identification of the baseline from which a customer will measure the benefits of its IRP implementation)

We use the California Renewable Portfolio Standard as the guide to bring on renewable resources. We started one project in 2017, next one should come online in 2025, and we are currently researching the next project for 2027. These dates keep us in compliance with renewable and carbon neutral state targets.

IRP Approval:

(Indicate that all of the IRP requirements have been met by having the responsible official sign below; or provide documentation that the IRP has been approved by the appropriate governing body)

Cori Bradley	Director of Power Dept
_____ (Name – Print or type)	_____ (Title)
	June 6, 2023
_____ (Signature)	_____ (Date)

Other Information:

(Provide/attach additional information if necessary)

5-Year Plan