

INTEGRATED RESOURCE PLAN (IRP)

Date:

June 30, 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:	County of Sacramento
Address:	700 H St Suite 6750, Sacramento, CA 95814
Contact Person:	Margie Daugherty
Title:	Senior Administrative Analyst
Phone Number:	(916) 874-2861
E-Mail Address:	DaughertyM@sacounty.gov
Website:	www.sacounty.gov

Type of Customer:

(Check one as applicable)

<input checked="" type="checkbox"/>	Municipal
<input type="checkbox"/>	State
<input type="checkbox"/>	Federal
<input type="checkbox"/>	Irrigation District
<input 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:
Sacramento Municipal Utility District (SMUD)	SMUD

Demand-side options:

List existing demand-side options:	List future demand-side resource options considered and evaluated:
Change out low energy efficient equipment with higher efficiency equipment (A/C, chillers, heaters, boilers, pumps, turbines, manufacturing, etc.).	Change out low energy efficient equipment with higher efficiency equipment (A/C, chillers, heaters, boilers, pumps, turbines, manufacturing, etc.).
Re-fixture with energy efficient lighting.	Re-fixture with energy efficient lighting.
Retrofit roofs with energy efficient roofing technology.	Retrofit roofs with energy efficient roofing technology.
Roof top solar.	Roof top solar.

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)

The County of Sacramento’s Base Resource serves one load, SMUD customers at McClellan Park, formally known as McClellan Air Force Base. McClellan Air Force Base (under ownership of the Federal Government) was the original recipient of an allocation of power from the Western Area Power Administration (WAPA). When McClellan Air Force Base officially closed in July 2001, the County of Sacramento received the allocation formerly delivered to McClellan Air Force Base to assist in the economic transition from a military installation to a civilian business park.

SMUD provides power to McClellan Park. SMUD’s McClellan Park customers are invoiced similar to other SMUD customers. WAPA delivers the County’s power to SMUD and SMUD credits the County for the power delivered by WAPA. The credit that the County receives from SMUD, net of County costs to purchase the Base Resource, is available and used to purchase and install various types of energy saving equipment in facilities of SMUD customers at McClellan Park. The millions of square feet of facilities at McClellan Park house office, warehouse,

manufacturing, airfield and other uses with over 200 tenants and 15,000 daily visitors.

The Action Plan focuses on Energy Consumption improvements recognizing that SMUD is the power provider to businesses at McClellan Park.

Demand-side options address energy efficiency to reduce energy use. This may include retrofits to efficient lighting and higher efficiency equipment, and installations of energy efficient roofing technology. The use of available credit to fund upgrades to energy efficient equipment, assisting businesses, lower energy use and customer bills, was approved by the Sacramento County Board of Supervisors.

SMUD also provides energy efficiency incentives, and solar and storage options.

Future power usage at McClellan Park is dependent upon the ability to attract new business and retain existing business tenants. The type of business that occupy the available spaces will also have a direct effect on power usage.

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	2024	2028			
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	2024	2028			
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 per year	Est. kWh savings per year	Milestones to evaluate accomplishments
Solar thermal/photovoltaic projects					
Day lighting technologies					
Active solar installations					
Active solar installations					
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					
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)

SMUD is the sole power provider for McClellan Park. McClellan Park is in a Mediterranean climate which has hot summers and cool wet winters. Therefore, the load peaks in the summer months. SMUD's rates include Time-of-Day Rate periods aligning with SMUD customer electricity use and to take maximum advantage of solar production. Each individual tenant selects its load management technique. Tenants may save on summer bills by reducing electricity use at Peak times.

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)

The Sacramento County Board of Supervisors (Board) is the governing body for the County of Sacramento. There are 5 members of the Board and each represents one of 5 districts. County staff, under Board direction, ensure the delivery of services and programs essential to the continued prosperity of the Sacramento County region.

The Board meets regularly to discuss all matters in the County, including items associated with McClellan Park.

The use of available credit to fund upgrades to energy efficient equipment was approved by the Board. Other authorized uses of the available credit include: subsidies to major power users at McClellan Park for attraction of businesses and economic redevelopment of the former military base; and subsidies with a defined time period and rate to attract businesses to McClellan Park.

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		
2025		
2026		
2027		
2028		

or Narrative Statement:

Calendar year 2022 Total Energy equaled 202,220,561 kWh. The Peak Demand occurred on September 6, 2022. The Peak Hourly amount equaled 48,822 kWh.

As McClellan Park businesses and other users are electric customers of SMUD, Sacramento County does not have the information available to provide a load forecast. SMUD is the provider for McClellan Park. The numbers listed in the narrative above were provided by WAPA. The load for the period of 2024-2028 will be dependent in part on a number of factors including individual business usage and load management, energy efficiency upgrades and retrofits, weather and number of continuing and new businesses and other electrical users operating at McClellan Park.

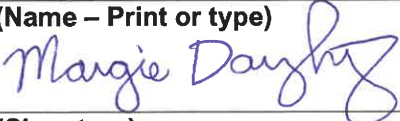
Measurement Strategies:

(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)

The points of delivery of power from SMUD to McClellan Park where the power is metered are the Haggin, Bell and ADC substations. The County does not have individual meters that can measure the exact savings incurred with the installation of/retrofit to energy efficient equipment. Instead, the County uses estimates of energy efficiency and power cost savings to customers.

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)

Margie Daugherty (Name – Print or type)	Senior Administrative Analyst (Title)
 (Signature)	June 30, 2023 (Date)

Other Information:

(Provide/attach additional information if necessary)

5-Year Plan