Sheila Cook
Acting Vice President of Power Marketing
Rocky Mountain Region
Western Area Power Administration
P.O. Box 3700
Loveland, CO 80539-3003

Dear Ms. Cook:

Attached is the City of Fountain's (Fountain) Integrated Resource Plan (IRP) created for the Western Area Power Administration. The IRP has been reviewed and approved by Fountain City Council.

Please let me know if you have any questions.

Regards,

Katie A. Helm

Katie Helm
Conservation & Sustainability Program Manager
(719) 322-2029
khelm@fountaincolorado.org
City of Fountain
116 S. Main St, Fountain, CO 80817

RESOLUTON 21-026

A RESOLUTION AUTHORIZING ADOPTION OF THE 2021 INTEGRATED RESOURCE PLAN.

WHEREAS, The City of Fountain purchases firm capacity from the Western Area Power Administration (WAPA) under a long term, firm power contract; and

WHEREAS, Customers of WAPA must comply with the Energy Planning and Management Program (EPAMP) as defined in the Code of Federal Regulations in Title 10, Part 905 (EPAMP (10 CFR Part 905)); and

WHEREAS, the purposes of EPAMP are to meet the objectives of the Energy Policy Act of 1992; and

WHEREAS, The City of Fountain completes an Integrated Resource Plan every 5 years to comply with this requirement; and

WHEREAS, the City Council of the City of Fountain desires to approve the 2021 Integrated Resource Plan.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Fountain, Colorado, as follows:

1. Approves and adopts the 2021 Integrated Resource Plan

Done this 22nd day of June, 2021.

Gregory Lauer (Jun 29, 2021 18:46 MDT)

Greg Lauer, Mayor Pro Tem

ATTEST:

Silvia Huffman, City Clerk

CITY OF FOUNTAIN EL PASO SEAL COUNTY COLORADO

INTEGRATED RESOURCE PLAN (IRP)

Western Area Power Administration's (WAPA) customers must comply with the requirements of the Energy Planning and Management Program (EPAMP (10 CFR Part 905)) to meet the objectives of Section 114 of the Energy Policy Act of 1992 (EPAct). A WAPA customer is any entity that purchases firm capacity with or without energy, from WAPA under a long-term firm power contract. Integrated resource planning allows customers to meet the objectives of Section 114 of EPAct.

Integrated resource planning is a planning process for new energy resources that evaluates the full range of alternatives, including new generating capacity, power purchases, energy conservation and efficiency, renewable energy resources, district heating and cooling applications, and cogeneration, to provide reliable service to electric consumers. An IRP supports utility-developed goals and schedules. An IRP must treat demand and supply resources on a consistent and integrated basis. The plan must take into account necessary features for system operation, such as diversity, reliability, dispatchability, and other risk factors. The plan must take into account the ability to verify energy savings achieved through energy efficiency and the projected durability of such savings measured over time. *(See 10 CFR § 905.11 (a)).*

Who May Use This Form:

Utilities that primarily provide retail electric service that have limited staff, limited resource options, and obtain a significant portion of its energy needs through purchase power contracts are eligible to use this form. Utilities using this form may generate a limited amount of energy if the generating resources are primarily used as back up resources, to support maintenance and outages, or during periods of peak demand.

Completing This Form:

To meet the Integrated Resource Planning reporting requirement, complete this form in electronic format in its entirety. Unaddressed items will be deemed incomplete and the IRP may not be eligible for approval. All of the data fields in this form automatically expand. Additional information may be attached to and submitted with this report. WAPA reserves the right to require supporting back-up materials or data used to develop this report. If there is any conflict between this form and the requirements defined in EPAMP, the requirements in EPAMP shall prevail.

Submit the completed report with a cover letter to:

Attention: Vice President of Power Marketing
Western Area Power Administration
Rocky Mountain Region
P.O. Box 3700
5555 E. Crossroads Blvd.
Loveland, CO 80539-3003

EPAMP Overview

The Energy Planning and Management Program (EPAMP) is defined in the Code of Federal Regulations in Title 10, Part 905 (10 CFR 905). The purposes of EPAMP are to meet the objectives of the Energy Policy Act of 1992 (EPAct) while supporting integrated resource planning; demand-side management, including energy efficiency, conservation, and load management; and the use of renewable energy.

EPAMP was initially published in the Federal Register at 60 FR 54714 on October 20, 1995, and revised in 65 FR 16795 on March 30, 2000, and 73 FR 35062 on June 20, 2008. 10 CFR § 905.11 defines what must be included in an IRP.

WAPA's Energy Services Web site (https://www.wapa.gov/EnergyServices/Pages/energy-services.aspx) provides extensive information on integrated resource planning and reporting requirements. If you have questions or require assistance in preparing your IPR, contact your WAPA regional Energy Services representative.

IRP Content

INTEGRATED RESOURCE PLAN (IRP)
5-Year Plan

Customer Name:
City of Fountain

IRP History: Check one as applicable.	
	This is the submitter's first IRP submittal.
X	**This submittal is an update/revision to a previously submitted IRP.**

Reporting Dates:	
IRP Due Date: July 1, 2021	
Annual Progress Report Due Date:	July 1

Customer Contact Information: Provide contact information for your organization. The contact person should be able to answer questions concerning the IRP.	
Customer Name:	City of Fountain, CO
Address:	116 S. Main St.
City, State, Zip:	Fountain, CO 80817
Contact Person:	Katie Helm
Title:	Conservation & Sustainability Program Manager
Phone Number:	(719) 322-2029
E-Mail Address:	khelm@fountaincolorado.org
Website:	www.fountainutilities.org

Type of Customer: Check one as applicable.	
X	**Municipal Utility**
	Electric Cooperative
	Federal Entity
	State Entity
	Tribal
	Irrigation District
	Water District
	Other (Specify)**:**

SECTION 1 UTILITY/CUSTOMER OVERVIEW

Customer Profile:
Enter the following data for the most recently completed annual reporting period. Data may be available on form EIA-861, which your submit to the U.S. Energy Information Administration (EIA).

Reporting Period	
Reporting Period Start Date (mm/dd/yyyy)	January 1, 2020
Reporting Period End Date (mm/dd/yyyy)	December 31, 2020
Energy Sales & Usage	
Energy sales to Ultimate End Customers (MWh)	233,300.03096
Energy sales for Resale (MWh)	0
Energy Furnished Without Charge (MWh)	0
Energy Consumed by Respondent Without Charge (MWh)	0
Total Energy Losses (MWh entered as positive number)	32,468.71904
Total Energy Usage (sum of previous 5 lines in MWh)	265,768.75
Peak Demand (Reporting Period)	
Highest Hourly Summer (Jun. – Sept.) Peak Demand (MW)	62.934
Highest Hourly Winter (Dec. – Mar.) Peak Demand (MW)	39.12
Date of Highest Hourly Peak Demand (mm/dd/yyyy)	07/10/2020
Hour of Highest Hourly Peak Demand (hh AM/PM)	05:00 pm
Peak Demand (Historical)	
All-Time Highest Hourly System Peak Demand (MW)	62.934
Date of All-Time Hourly System Peak Demand (mm/dd/yyyy)	07/10/2020
Hour of All-Time Hourly Peak System Demand (hh AM/PM)	05:00 pm
Number of Customers/Meters (Year End of Reporting Period)	
Number of Residential Customers	16,644
Number of Commercial Customers	1,000
Number of Industrial Customers	0
Other (Specify):	
Other (Specify):	
Other (Specify):	
Other (Specify):	
Other (Specify):	

Customer Service Overview:

Describe your customer service territory and the services provided. Include geographic area, customer mix, key customer and significant loads, peak demand drivers, competitive situation, and other significant or unique aspects of the customer and/or service territory. Provide a brief summary of the key trends & challenges impacting future resource needs including population changes, customer growth/losses, and industrial developments.

The Fountain electric system was established in 1919 to provide electric service to the citizens of the town. Today, the City of Fountain Utilities Department serves a certificated service area of over 66 square miles in El Paso County, almost two-thirds of the area is outside the City corporate limits. The Fountain electric system is surrounded by the electric systems of Colorado Springs Utilities and the Mountain View Electric Association. Many soldiers at Ft Carson Army Base call Fountain home due to its proximity to the base. The growth and development in Fountain have been influenced by the growth of Ft Carson in recent years. This trend is expected to continue in the years to come.

Electrically, the City is directly interconnected with the electric system of Colorado Springs Utilities at the CU Fountain Substation. The City does not own or operate any electric generating facility.

In addition to the supply received from WAPA, the City purchases energy from the Public Service Company of Colorado (PSCO), Pueblo Dam Hydro Electric, and has an agreement to begin receiving supply from Guzman Energy upon expiration of the PSCO contract in 2027.

The electric load of the City continues to grow steadily over the years. Its summer peak demand has increased from 53 MW in 2015 to 63 MW in 2020. Our energy requirement remains close to 266,000 MWh. The City current has 17,644 utility customers comprised of 1,000 CII accounts and 16,644 residential accounts.

Water services within the electric territory are provided by the City of Fountain Utilities, Widefield Water and Sanitation District, Security Water and Sanitation District and Fountain Sanitation. Black Hills Energy and Colorado Springs Utilities provide natural gas to the area.

Electricity Utility Staff & Resources:

Summarize the number of full-time equivalent employees by primary functions such as power production, distribution, and administration. Describe any resource planning limitations, including economic, managerial, and/or resource capabilities.

The Fountain Utilities Department operates under the direction of the Utilities Director and Deputy Utilities Director. There are 25 full-time employees operating within the electric side of the Utilities Department.

Utility Director: Oversee utility operations, guide and manage initiatives.
Deputy Utility Director: Directs and manages the daily and tactical operations of the Utility Department.
Electric Apprentice Lineman (2): Maintenance of electric service lines.
Electric Asset & Planning Designer: Implementation, maintenance and support of electric utility computerized operations systems.
Electric General Foreman: Supervision of electric system, equipment procurement, project appraisal, inventory control, staff management and safety program.
Electric Inventory Clerk: Manages inventory used throughout electric utility.
Electric Journeyman Lineman (10): Installs and maintains electrical systems.
Electric Line Crew Foreman (4): Coordinate and supervise line crew operations.
Electric Troubleshooter: Provide support to line crew daily operations.
Management Assistant: Administrative support to department operations.
Sr Electric Distribution Designer: Manage system planning, design and construction of distribution system.
Utilities Groundskeeper: Warehouse maintenance and grounds keeping.

Historical Energy Use:

Enter the peak system demand and total annual energy use for the preceding ten (10) reporting years. For total energy, include retail sales, energy consumed or provided without charge, and system losses.

Reporting Year	Peak Demand (MW)	Total Energy (MWh)
2011	48.577	217,475.65
2012	51.501	220,117.4
2013	50.659	224,146.4
2014	50.348	219,496.7
2015	55.568	226,027.3
2016	53.627	238,965.3
2017	56.305	238,270.4
2018	58.758	246,290
2019	61.537	253,362.81
2020	62.934	265,768.75

SECTION 2 | FUTURE ENERGY SERVICES PROJECTIONS

Load Forecast:

Provide a load forecast summary for the next ten (10) years; **and** provide a narrative statement describing how the load forecast was developed. Discuss any expected future growth. If applicable, you may attach a load forecast study and briefly summarize the results in this section. *(See 10 CFR § 905.11 (b) (5)).*

Load Forecast:

Reporting Year	Peak Demand (MW)	Total Energy (MWh)
2021	67.841	260,785.364
2022	72.237	267,352.829
2023	76.919	274,166.896
2024	81.903	281,238.073
2025	87.211	288,577.360
2026	92.862	296,196.272
2027	98.880	304,106.867
2028	105.287	312,321.771
2029	112.110	320,854.205
2030	119.375	329,718.017

Narrative Statement:

The load forecast utilizes historic data from energy supplier billing information and a compound annual growth rate to trend future peak and energy usage. The system peak and energy use has many additional factors involved in prediction besides historic trends such as economy, weather, city growth and development, and population statistics. These factors influence the City's electric annual load factor down over the next 10 years.

From this data, the compound annual growth rate (CAGR) was calculated using the following formula:

$$CAGR = \left(\frac{\text{Ending Value}}{\text{Beginning Value}}\right)^{\left(\frac{1}{\#\text{ of years}}\right)} - 1$$

The system peak compound annual growth rate calculation was calculated for every month and a range of growth ranges from -0.20% for May to 6.48% for November was the result. Applying these growth rates to future years resulted in the load forecast prediction outlined above.

SECTION 3 | EXISTING SUPPLY-SIDE RESOURCES

Existing Supply-Side Resource Summary:

Provide a general summary of your existing supply-side resources including conventional resources, renewable generation, and purchase power contracts (including Western Area Power Administration contracts). Describe the general operation of these resources and any issues, challenges, or expected changes to these resources in the next five (5) years. *(See 10 CFR § 905.11 (b) (1)).*

Besides the Firm Electric Service contract with WAPA, the City has supplemental power purchase contracts with the Public Service Company of Colorado, Guzman Energy LLC and Southeastern Colorado Water Activity Enterprise.

The Public Service Company of Colorado (PSCO) Contract is a supplemental partial requirement contract. In 2018, PSCO became the successor and assignee of Twin Eagle Resource Management LLC. The original contract began on July 1, 2015 and will expire on December 31, 2027.

The Pueblo Dam Hydroelectric contract is a 30 year contract between the City of Fountain and the Southeastern Colorado Water Activity Enterprise. This agreement began on September 29, 2017 and will expire on December 31, 2047.

The City does not foresee any issues or challenges with these supply-side resources in the next five years.

Existing Generation Resources:

List your current supply-side resources, including conventional resources and renewable generation. If you do not own any generating resources, insert N/A in the first row. Insert additional rows as needed.

Resource Description (Identify resources as base load, intermediate, or peaking)	**Fuel Source**	**Rated Capacity (MW)**	**In-Service Date** (Year)	**Estimated Expiration/ Retirement Date** (Year)
N/A				

Existing Purchase Power Resources:

List your current purchase power resources. Define whether the contract provides firm service, non-firm service, all requirements or another type of service. Include Western Area Power Administration resources. If applicable, include a summary of resources that are under a net metering program. Insert additional rows as needed.

Resource Description	**Fuel Source** (If applicable)	**Contracted Demand (MW)**	**Type of Service** (Firm, Non-firm, Requirements, Other)	**Expiration Date** (Year)
WAPA	Hydro	2.298 MW – Summer 1.93 MW - Winter	Firm	2054
Public Service of Colorado (PSCO)	N/A		Supplemental Requirement	2027
Pueblo Dam Hydroelectric	Hydro		Supplemental Requirement	2047

SECTION 4 | EXISTING DEMAND-SIDE RESOURCES

Demand-side programs alter a customer's use pattern and include energy conservation, energy efficiency, load control/management, education, and distribution system upgrades that result in an improved combination of energy services to the customer and the ultimate consumer.

Existing Demand-Side Resources:
List your current demand-side programs, including energy conservation, energy efficiency, load control/management, education, or maintenance plans, or system upgrades. Programs may impact the utility distribution system, municipally owned facilities, and/or end-user energy consumption. Refer to Section 9 of this form for a list of example programs. Insert additional rows as needed.
(See 10 CFR § 905.11 (b) (1)).

Program Description	Estimated Program Savings (MW and/or MWh if known) (Include annual impact and impact over the life of the program if known.)
Street Light LED Upgrade Program Upgrade MV or HPS to LED	108.64 MWh annually • 194 upgrades
Clothes Washer Rebate $100 rebate credit to utility account for purchase of a new, EnergyStar certified clothes washer	16.92 MWh annually • 47 rebates
EnergyStar Refrigerator Rebate Up to $130 rebate credit to utility account for purchase of a new EnergyStar certified refrigerator	39.6 MWh annually • 33 rebates
EnergyStar Dishwasher Rebate $30 rebate credit to utility account for purchase of a new, EnergyStar certified dishwasher	1.26 MWh annually • 24 rebates
WaterSense Showerhead Exchange Program Utility customers may exchange old, inefficient showerheads for WaterSense certified heads	20.23 MWh annually • 178 exchanges
Energy Saving Trees Program Utility provides free trees to customers. Customers use an online tool to determine energy saved in cooling costs from shade projected onto the home upon tree maturity.	4.73 MWh annually • 94.57 MWh (20 year cumulative) • 228 trees
Lighten the Load – Conservation Kits Customers receiving utility assistance also receive financial coaching and a kit with LEDs, smart power strip, dish scraper, showerhead, and aerators.	Program savings not tracked • 71 kits distributed
Infrared Heat Detection for System Maintenance	Program savings not tracked • ~50 repairs

Program Description	Estimated Program Savings (MW and/or MWh if known) (Include annual impact and impact over the life of the program if known.)
Education Programs – Presentations • PowerTown – electric safety demonstration with conservation elements	Program savings not tracked
Education Programs – Activities Electric conservation and safety trivia, games, activities, informational handouts at events. These typically include provision of resources as listed below. • Events include Trunk or Treat, Community Night in the Park, Movie Night in the Park, Back to School, Fountain Creek Nature Center Family Fun Day, PPLD Summer Adventure Party, Memorial Day Parade and Festival, Career Fair. Others as requested.	Program savings not tracked
Education Programs – Communications Promote energy conservation behavioral changes • Communication mediums include Conservation & Sustainability website, City social media accounts, quarterly utility newsletter, email, and TV monitors at City buildings.	Program savings not tracked
Resources – Provided at presentations, events and as prizes for educational campaigns • Fountain Utilities Activity Book • LED Bulbs • LED keychain • Smart power strip • Solar phone charger • Smart thermostat • WaterSense shower heads • WaterSense aerators • Dish scrapers	Program savings not tracked
Time-of-Use Meters Hourly interval data, accessible daily	Program savings not tracked
Tree Trimming Program Annual program	Program savings not tracked • 320 work hours annually

SECTION 5	FUTURE RESOURCE REQUIREMENTS AND RESOUCE OPTIONS

Balance of Loads and Resources (Future Resource Requirements):
Provide a narrative statement that summarizes the new resources required to provide retail consumers with adequate and reliable electric service during the 5-year resource planning period. Identify any federal or state regulations that may impact your future resource requirements. If you are not experiencing or anticipating load growth and a need for new resources, describe your current procedure to periodically evaluate the possible future need for new resources.

On May 12, 2020, the City entered into an 18.5 year contract with Guzman Energy in anticipation of its future electric needs. This agreement expanded the City's energy portfolio in congruence to its growth and demand. Although currently under contract, the City of Fountain will not begin receiving electric supply from Guzman Energy until conclusion of the supplemental partial requirement contract with PSCO. This agreement will expire on December 31, 2039.

The City has no need for any new power supply resource additions to meet its electric energy requirements for at least the next 10 years. The City proactively assesses its entire electric infrastructure annually for maintenance needs and performs repairs accordingly. Additionally, the City tracks population, demand and peak load trends to ensure that it continues to meet the needs of the community well into the future.

Identification of Resource Options

Identification and comparison of resource options is an assessment and comparison of existing and future supply-side and demand-side resources available to a customer based upon size, type, resource needs, geographic area, and competitive situation. Resource options evaluated must be identified. The options evaluated should related to the resource situation unique to each WAPA customer as determined by profile data such as service area, geographical characteristics, customer mix, historical loads, projected growth, existing system data, rates, financial information, and load forecast. *(See 10 CFR § 905.11 (b) (1)).*

Considerations that may be used to develop potential resource options include cost, market potential, consumer preferences, environmental impacts, demand or energy impacts, implementation issues, revenue impacts, and commercial availability. *(See 10 CFR § 905.11 (b) (1) (iii)).*

Future Supply-side Options:

List the future supply-side resource options that were considered and evaluated, including, but not limited to conventional generation, renewable generation, and power purchase contracts. Include a brief discussion on the applicability of each option for further consideration or implementation based on your system requirements and capabilities. If new resources are not required during the 5-year resource planning period, please indicate that below. Insert additional rows as needed.
(See 10 CFR § 905.11 (b) (1)).

Supply-Side Option	Applicability for Implementation or Further Consideration
Solar for municipal buildings	Although not required, the City is proactively investigating solar generation for municipal buildings.

Future Demand-side Options:

List the future demand-side resource options that were considered and evaluated. Demand-side programs alter a customer's use pattern and include energy conservation, energy efficiency, load control/management, education, and distribution system upgrades that result in an improved combination of energy services to the customer and the ultimate consumer. Include a brief discussion on the applicability of each option for further consideration or implementation based on your system requirements and capabilities. Insert additional rows as needed. *(See 10 CFR § 905.11 (b) (2)).*

Demand-Side Option	Applicability for Implementation or Further Consideration
Smart Thermostat Rebate	Energy conservation, peak demand reduction • Natural gas provider already provides rebate for this.
Energy Assessments	Guided energy assessment for home or businesses to identify energy inefficiencies or hazards, provide recommendations. • RFP posted in 2019. Not feasible to contract or perform internally. Will reassess at later date.
LED Rebates	Credit to utility bill for upgrade to LED fixtures. • Investigated in 2018. Feasibility challenges due to limited resources, but plan to reassess and implement in next five years.
Online Learning	Utilize online learning software to create and manage courses relatable to energy assessments, weatherization, and behavioral changes to reduce energy use. • Affordable, accessible and will allow the City to expand its reach.

Resource Options Chosen:

Describe the resource options that were chosen for implementation or further consideration and clearly demonstrate that decisions were based on a reasonable analysis of the options. Resource decisions may strike a balance among applicable evaluation factors such as cost, market potential, customer preferences, environmental impacts, demand or energy impacts, implementation issues or constraints, revenue impacts, and commercial availability. *(See 10 CFR § 905.11 (b) (1) (iv)).*

The City had a supplemental requirement power supply contract with Twin Eagle Resource Management LLC that was scheduled to expire on December 31, 2025. In 2018, the Public Service Company of Colorado (PSCO) became the successor and assignee of Twin Eagle Resource Management LLC. The City was not a part of this process. In order for the City to secure its current agreement with Pueblo Hydro, the PSCO contract was extended an additional two years, now scheduled to expire on December 31, 2027. This extension allowed the City to incorporate hydro power into our portfolio and secure a lower rate with PSCO.

In 2020, the City contacted five energy suppliers to assess if there was interest in a long-term contract. Guzman Energy LLC was the selected supplier because it provided the best proposal to the City taking into consideration price, price certainty, risk, longevity of the agreement and flexibility to incorporate renewable supply options. The new contract provides significant savings to the City and the Utilities Department was able to reduce the electric rates for all customers. The Guzman contract allows Fountain two different phases in the future to integrate renewable energy into its supply portfolio.

Although currently under contract, the City of Fountain will not begin receiving supply from Guzman Energy until conclusion of the supplemental partial requirement contract with PSCO in 2027.

The Pueblo Dam Hydroelectric contract is a 30 year contract between the City of Fountain and the Southeastern Colorado Water Activity Enterprise. This agreement began on September 29, 2017 and will expire on December 31, 2047. Southeastern Water Conservancy District approached the City with their proposal. This proposal grants the City 50% of its overall energy output, increasing to 100% in 2028. The City secured this agreement because it improves rates for customers, has term longevity and clean energy benefits.

SECTION 6 | ENVIRONMENTAL EFFECTS

Environmental Effects:

To the extent practical, WAPA customers must minimize environmental effects of new resource acquisitions and document these efforts. IRPs must include a qualitative analysis of environmental impacts in summary format. Describe the efforts taken to minimize adverse environmental effects of new resource acquisitions. Describe how your planning process accounts for environmental effects. Include a discussion of policies you conform with or adhere to, and resource decisions that have minimized or will minimize environmental impacts by you and/or your wholesale electricity supplier(s). WAPA customers are neither precluded from nor required to include a qualitative analysis of environmental externalities as part of the IRP process. If you choose to include a quantitative analysis, in addition to the summary below, please attach separately. *(See 10 CFR § 905.11 (b) (3)).*

Renewable energy is always included in RFPs from supplemental suppliers as an energy supply option but is not a requirement. Aside from the Pueblo Dam Hydro agreement, the City's power supply contracts do not specify the details of their supply portfolio nor are they required to.

The Pueblo Dam Hydro Plant is an environmentally sustainable, clean source of power whereas no water is consumed during the generation of electricity. Through this agreement, the City demonstrates its commitment to minimizing environmental effects. This agreement enabled the City to reduce energy costs.

The Guzman Energy contract was constructed to allow the City incremental flexibility to broaden its supply sources, with the ability to incorporate additional renewable resources at incremental dates.

SECTION 7	PUBLIC PARTICIPATION

Public Participation:
Customers must provide ample opportunity for full public participation in preparing and developing an IRP. Describe the 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 your organization responded to the public's comments. *(See 10 CFR § 905.11 (b) (4)).*

This document was presented to and approved by the City Council. The City posts council agenda items to the web and encourages public attendance at all City Council meetings. In 2020 we improved accessibility to council meetings by offering a virtual join option with two-way communication. The progress of these programs is shared with City Council on a weekly basis and are periodically presented in open session.

The City of Fountain Utilities Department has frequent and consistent presence at various community events, connecting with an average of just under 4,000 community members annually in a normal year. During these events we promote energy and water efficiency programs such as rebates, seminars, technical assistance and more. Also, during these events and programs, utility staff consistently solicit feedback on the interests and needs of utility customers. The City uses this feedback to shape future offerings.

Additionally, the City of Fountain Utilities Department has social media presence where we utilize two-way communication to gather customer feedback. We average just under 42,000 social media engagements annually.

Following participation in current efficiency programs, surveys are administered to participants. This allows the City to gather feedback on what customers liked or didn't like about a program, as well as future offerings they would like to see. All of this information is used to guide demand management programs.

SECTION 8	ACTION PLAN & MEASUREMENT STRATEGIES

Action Plan Summary:

Describe the high-level goals and objectives that are expected to be met by the implementation of this resource plan within the 5-year resource planning period. Include longer term objectives and associated time period(s) if applicable. *(See 10 CFR § 905.11 (b) (2)) and (See 10 CFR § 905.11 (b) (6)).*

1. Research and build additional rebate programs for LEDs, electric lawnmowers and more.
2. Build online learning courses that empower utility customers to be more efficient in their utility use through fixture assessment, upgrade, behavioral changes and more.
3. Research feasibility and need of EV Charging Stations in Fountain area.
4. Explore and pursue building efficiency upgrades at city owned buildings.
5. Reduce distribution system energy losses through proactive maintenance.

Specific Actions:

List specific actions you will take to implement your plan over the 5-year planning horizon.

New Supply-Side Resource Acquisitions:

List new resource options your organization is planning to implement, investigate, or pursue in the next five years. Include conventional generation, renewable resources, net metering programs, and purchase power contracts. Include key milestones such as the issuing an RFP, executing a contract, or completing a study. *(See 10 CFR § 905.11 (b) (2)).*

Proposed New Resource	Begin Date	Est. New Capacity (MW)	Milestones to evaluate progress and/or accomplishments
Investigate solar for municipal buildings	2021	1.1 MW	• Assess feasibility • Create scope of work • Identify/apply for funding opportunities

New Demand-Side Programs & Energy Consumption Improvements:

List energy efficiency, energy conservation, and load management programs your organization is planning to implement or evaluate in the next five years. Include key milestones to evaluate the progress of each program. Insert additional rows as needed. *(See 10 CFR § 905.11 (b) (2)).*

Example programs could include:

- Education programs & communications
- Energy efficient lighting upgrades
- Energy audits
- Weatherization & Insulation
- Window/doors upgrades
- Boiler, furnace or air conditioning retrofits
- Programmable thermostats
- Equipment inspection programs
- Use of infrared heat detection equipment for maintenance
- Tree-trimming/brush clearing programs
- Electric motor replacements
- Upgrading distribution line/substation equipment
- Power factor improvement
- Loan arrangements for energy efficiency upgrades
- Rebate programs for energy efficient equipment
- Key account programs
- Load management programs
- Demand control equipment
- Rate designs
- Smart meters (Time-of-Use Meters)

Proposed Items	Begin Date	Est. kW capacity savings per year	Est. kWh savings per year	Milestones to evaluate progress and/or accomplishments
LED Rebates	2022	TBD	TBD	• Identify program specifications including eligibility requirements. • Identify staff responsibilities in administration. • Implement, market, fine tune. • Quarterly review of number of approved rebates.
Online Learning	2022	N/A	N/A	• Gather course content, assemble, finalize, pilot, fine tune, mass market. • Number of courses created. • Number of registered users. • Number of completed courses.
EV Charging Stations	2023	N/A	N/A	• Identify needs/ideal locations. • Assess feasibility • Create project scope.

Proposed Items	Begin Date	Est. kW capacity savings per year	Est. kWh savings per year	Milestones to evaluate progress and/or accomplishments
				• Identify/apply for funding opportunities.
Electric Lawnmower Rebate	2021	N/A	N/A	• Research preexisting programs. • Create eligibility requirements, application and approval process. • Identify staff responsibilities in administration • Market, pilot. • Assess participation rates on quarterly basis.
Building Efficiency Upgrades	Ongoing	TBD	TBD	• Upgrade City owned buildings when budget permits or through grants • Create capital improvements plan • Create point system to identify prioritization of fixture replacement based on efficiency, safety, and more.

Measurement Strategies:

Describe your plan to evaluate and measure the actions and options identified in the IRP to determine if the IRP's objectives are being met. The plan must identify and include a baseline from which you will measure the IRP implementation's benefits. *(See 10 CFR § 905.11 (b) (6)).*

The City will use 2020 data as the baseline for measurement.

The following will be tracked and reported in the subsequent annual updates:

- Observe program participation rates of demand side programs.
- Quantify energy savings associated with demand side measures.
- Solicit, analyze and use qualitative feedback from customers to fine tune programs.
- Report progress of programs in weekly reports to City Council.

SECTION 9	SIGNATURES AND APPROVAL

IRP Approval:

Indicate that all of the IRP requirements have been met by having the responsible official sign below; **and** provide documentation that the IRP has been approved by the appropriate governing body (i.e. provide a copy of the minutes that document an approval resolution). *(See 10 CFR § 905.11 (b) (4)).*

(Name – Print or type)	**(Title)**
(Signature)	**(Date)**

Other Information:

(Provide/attach additional information if necessary)

IRP Posting Requirement:

10 CFR § 905.23 of the EPAMP as amended effective July 21, 2008, facilitates public review of customers' approved IRPs by requiring that a customer's IRP be posted on its publicly available Web site or on WAPA's Web site. Please check the method in which you will comply with this requirement within thirty (30) days of receiving notification the IRP has been approved:

	Customer will post the approved IRP on its publicly available website and send the URL to WAPA.
X	Customer would like WAPA to post the approved IRP on WAPA's website.

IRP Updates:

WAPA's customers must submit updated IRPs every five (5) years after WAPA's approval of the initial IRP.

IRP Annual Progress Reports:

WAPA's customers must submit IRP progress reports each year within thirty (30) days of the anniversary date of the approval of the currently applicable IRP. Annual progress reports can be submitted using WAPA's on-line reporting tool, which can be accessed at: https://www.wapa.gov/EnergyServices/IRP/Pages/irp.asp