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Filed For: Nevada Power Company and Sierra Pacific Power

In accordance with NRS Chapter 719,
this filing has been electronically signed and filed
by: /s Ashleigh Sternod

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This filing has been electronically filed and deemed to be signed by an authorized
agent or
representative of the signer(s) and
Nevada Power Company and Sierra Pacific Power



April 14, 2023

Trisha Osborne
Assistant Commission Secretary
Public Utilities Commission of Nevada
1150 East William Street
Carson City, Nevada 89701

Re: **Nevada Power Company, d/b/a NV Energy, and Sierra Pacific Power Company, d/b/a NV Energy; Portfolio Standard Annual Report for Compliance Year 2022**

Dear Ms. Osborne:

Enclosed for filing are Nevada Power Company's ("Nevada Power") and Sierra Pacific Power Company's ("Sierra") (collectively, the "Companies") aforementioned filing.

The documents accompanying this report are:

1. Draft Public Notice of the filing;
2. Portfolio Standard Annual Report for Compliance Year 2022, which has an eight-part Appendix that includes the required Attestation Letters in Appendix Section 5.3

This filing complies with the requirements of NAC 704.8877 and NAC 704.8879, which requires providers of electric service to submit to the Commission an annual report regarding compliance with the portfolio standard for the previous compliance year. In particular, NAC 704.8877 and NAC 704.8879 require that the following information be set forth:

NAC 704.8879(2)(a).

The capacity of each renewable energy system owned, operated or controlled by the provider, the total number of kilowatt-hours generated by each such system during the most recently completed compliance year and the percentage of that total amount which was generated directly from renewable energy.

Tables 3-4 (Nevada Power) and 4-5 (Sierra) details the capacity of each of the Companies' renewable energy systems for 2022. These tables are found at Sections 3.7 and 4.8 respectively.

NAC 704.8879(2)(b).

Whether the provider began construction on, acquired or placed into operation any renewable energy system.

New Company owned renewable systems are discussed in Sections 3.8 (Nevada Power) and 4.9. (Sierra) of the report.

NAC 704.8877(1)(a) and NAC 704.8879(2)(c).

The total number of kilowatt-hours sold by the provider to its retail customers in this State during the most recently completed compliance year.

Actual retail sales for each company for the calendar year 2022 are reported in Section 3.9 (Nevada Power) and 4.10 (Sierra).

NAC 704.8879(2)(d).

The total number of kilowatt-hours that the provider generated or acquired from renewable energy systems during the most recently completed compliance year and, for that total number of kilowatt-hours, subtotals for the number of kilowatt-hours: (1) Generated by the provider from its own renewable energy systems; (2) Acquired by the provider pursuant to preexisting renewable energy contracts; (3) Acquired by the provider pursuant to new renewable energy contracts; (4) Attributable to the provider from solar thermal systems; (5) Fed back to the provider from net metering systems used by customer-generators and (6) Carried forward by the provider from previous compliance years.”

Tables 3-5 (Nevada Power) and 4-6 (Sierra) provide the required information. Table 3-5 is found in Section 3.10 and Table 4-6 is found in Section 4.11.

NAC 704.8879(2)(e).

The total number of kilowatt-hours that the provider: (1). Sold as a result of customer participation in a voluntary option to purchase all or a portion of the customer’s energy from renewable resources; and (2) Sold pursuant to paragraphs (b) and (c) of subsection 2 of NRS 704.7828.

Table 3-6 (Nevada Power) and Table 4-7 (Sierra) provide the required information. Table 3-6 is found in Section 3.11 and Table 4-7 is found in Section 4.12.

NAC 704.8879(2)(f).

The total number of kilowatt-hours that the provider intends to carry forward from the most recently completed compliance year.

Tables 3-7 (Nevada Power) and 4-8 (Sierra) provide the required information. Table 3-7 is found in Section 3.12 and Table 4-8 is found in Section 4.13.

NAC 704.8877(1)(b)-(c) and NAC 704.8879(2)(f)-(g).

The estimated amount of retail sales the provider expects to sell to its retail customers during the current compliance year and the estimated number of kilowatt-hours that the provider must generate or acquire from renewable energy systems to comply with its portfolio standard for the current compliance year.

Estimated 2023 retail sales in kilowatt-hours are reported in Section 3.13 (Nevada Power) and 4.14 (Sierra). The number of PCs each Company will be required to generate or acquire in 2023 is shown in Table 3-8 (Nevada Power) and Table 4-9 (Sierra). Table 3-8 is located in Section 3.14 and Table 4-9 is located in Section 4.15.

NAC 704.8879(2)(h).

The estimated costs for the utility provider to comply with its portfolio standard for the current compliance year 2023. If appropriate, the utility provider must report such estimated costs for each major type of cost, such as general and administrative costs and costs for purchased power.

Tables 3-9 (Nevada Power) and 4-10 (Sierra) detail the required information. Table 3-9 is located in Section 3.15 and Table 4-10 is located in Section 4.16.

NAC 704.8879(3)(a)-(b).

The provider must make an affirmative showing that the provider complied with its portfolio standard and if not in compliance, the annual report must:

- a) Make a detailed explanation for its noncompliance; and**
- b) Provide any information that would support an exemption for the provider from any administrative fine or other administrative action.”**

The affirmation of compliance for Nevada Power is found at Section 3.16 and is depicted in Table 3-10 in the Section. The affirmation of compliance for Sierra is found in Section 4.17 and is depicted in Table 4-11 in that Section.

NAC 704.8879(4)(a)-(b)

If the provider acquired any kilowatt hours from a renewable energy system that is not owned, operated or controlled by the provider, the annual report must include an attestation from the owner or operator of the renewable energy system that the energy represented by those kilowatt-hours

- (a) Has not been and will not be sold or otherwise exchanged for compensation or used for credit in any other state or jurisdiction; and**
- (b) Has not been and will not be included within a blended energy product certified to include a fixed percentage of renewable energy in any other state of jurisdiction.**

The signed attestation letters are located in Appendix Section 5.3.

Accompanying this transmittal letter are portions of the filing that are to be kept under seal pursuant to Nevada Revised Statutes § 703.190(2) and Nevada Administrative Code § 703.527 *et seq.* This information is contained in a sealed envelope, appropriately marked, and contains unredacted versions of the following:

- Appendix 5.4 contains customer-specific information regarding electricity usage. As a result, the Companies have designated this information as confidential pursuant to NRS § 703.196 and NAC § 703.5274.
- Appendix 5.8 is being provided confidentially because it contains detailed information regarding the bids received in response to Sierra's solicitation for offers from interested parties wishing to purchase unbundled PCs. Due to the possibility that the Companies may market PCs in the future, publicly disclosing this information places Sierra at a competitive disadvantage. As a result, Sierra has designated this information as confidential pursuant to NRS § 703.196 and NAC § 703.5274.

Pursuant to NAC § 703.5274(2), Sierra requests that the above-described information not be disclosed to the public and that this information remain confidential for a period of five years, after which the Commission may return or destroy these materials, whichever is most convenient. Protective agreements with Staff and BCP have been sent and once executed Staff and BCP will be served with confidential unredacted versions of the above-described material

If you have any questions or concerns pertaining to this filing, please do not hesitate to contact me directly.

Sincerely,

/s/ Michael Knox

Michael Knox
Senior Attorney
Nevada Power Company, d/b/a NV Energy
Sierra Pacific Power Company, d/b/a NV Energy
775-834-5793
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DRAFT NOTICE

PUBLIC NOTICE
(Pursuant to NAC 703.162 and NAC 703.5274)

I. Pursuant to NAC 703.160(5)(a), the title of the filing is:

Filing by NEVADA POWER COMPANY, d/b/a NV ENERGY, and SIERRA PACIFIC POWER COMPANY, d/b/a NV ENERGY, for acceptance of their Portfolio Standard Annual Report for Compliance Year 2022.

II. Pursuant to NAC 703.160(5)(b), the name of the applicants are:

NEVADA POWER COMPANY, d/b/a NV ENERGY, and SIERRA PACIFIC POWER COMPANY, d/b/a NV ENERGY.

III. Pursuant to NAC 703.160(5)(c), a brief description of the purpose of the filing is:

This is NEVADA POWER'S and SIERRA PACIFIC'S 2022 Annual Report of the Portfolio Standard for renewable energy filed pursuant to Nevada Revised Statutes ("NRS") Sections 704.7821 to 704.7828, and Nevada Administrative Code ("NAC"), Sections 704.8831 to 8893, including but not limited to NRS 704.7825 and NAC 704.8879. The Portfolio Standard Annual Report provides information to the Commission regarding the actions undertaken by the Companies to comply with the Portfolio Standard for Renewable Energy for Compliance Year 2022.

The Nevada Legislature enacted into law a Renewable Energy Portfolio Standard ("RPS") which mandates that providers of electrical service are required to generate, acquire or save electricity from portfolio energy systems or efficiency measures a number of portfolio energy credits ("PECs") that is equal to or greater than a percentage of their retail sales as defined in NRS 704.7821(1). For the calendar year 2022, that percentage is set at 29% percent of electricity sold to

their Nevada retail customers. Additionally, not more than 10 percent of that total came come from energy efficiency measures. Of the energy efficiency measures, at least 50 percent of that amount must have come from energy efficiency measures installed at service locations of residential customers unless a different percentage is approved by the Commission.

If the Commission determines that for Compliance Year 2022 there was not or will not be a sufficient supply of portfolio energy credits available to the provider pursuant to contract with just and reasonable terms and conditions, the Commission shall exempt the Companies from the remaining requirements as allowable under NRS 704.7821(6).

AND Pursuant to NAC 703.160(5)(c), the effect of the relief upon consumers:

The Portfolio Standard Annual Report is filed pursuant to regulation and does not seek “relief” as that term is used in NAC 703.160(5).

- IV. Pursuant to NAC 703.162(2), a consumer session is not required by NRS 704.069.
- V. This draft notice does not pertain to a tariff filing.

REPORT

NV Energy

Nevada Power Company *d/b/a* NV Energy

Sierra Pacific Power Company *d/b/a* NV Energy

Portfolio Standard Annual Report

Compliance Year 2022

Docket No. 23-040xx

April 14, 2023

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

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NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

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Glossary of Terms and Abbreviations

2022 Annual Report	Portfolio Standard Annual Report Compliance Year 2022
AB	Assembly Bill
AC	Alternate Current
Commission	Public Utilities Commission of Nevada
COD	Commercial Operating Date
DSM	Demand-Side Management (energy efficiency savings)
DOS	Distribution Only Service
ESP	Energy Supply Plan
kPC	One thousand Portfolio Energy Credits
kW	Kilowatt of AC nameplate capacity, unless noted otherwise
kWh	Kilowatt-hours
MW	Megawatt of AC nameplate capacity, unless noted otherwise
MWh	Megawatt-hours (or one thousand kilowatt-hours)
NAC	Nevada Administrative Code
NGR	NV GreenEnergy Rider
Nevada Power	Nevada Power Company d/b/a NV Energy
NRS	Nevada Revised Statutes
NVE	NV Energy, Inc.
NVTREC	Nevada Tracks Renewable Energy Credits
PC	Portfolio Energy Credit, one kilowatt-hour of renewable energy generated or one kilowatt-hour of energy saved through an efficiency program
PPA	Power Purchase Agreement
PUCN	Public Utilities Commission of Nevada
R-BTER	Renewable Base Tariff Energy Rate
REC	Renewable Energy Credit (1 REC = 1 kPC) Alternative term for a kPC
RFP	Request for Proposal
RPS	Renewable Portfolio Standard
SB	Senate Bill
Sierra	Sierra Pacific Power Company d/b/a NV Energy
WREGIS	Western Renewable Energy Generation Information System

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

1. Introduction

Nevada Power Company d/b/a NV Energy (“Nevada Power”) and Sierra Pacific Power Company d/b/a NV Energy (“Sierra”) are both wholly owned subsidiaries of NV Energy, Inc., a wholly owned subsidiary of Berkshire Hathaway Energy Company. Nevada Power and Sierra, collectively referred to in this report at times as the “Utilities” or “NV Energy” serve a combined service territory of approximately 45,592 square miles, all in the state of Nevada, and together they serve over 1.39 million electric customers. Nevada Power and Sierra serve approximately 1,006,000 electric customers in southern Nevada, primarily in the Las Vegas area, and 373,000 electric customers in northern Nevada, as well as 181,000 natural gas customers in the Reno-Sparks area of northern Nevada.

This Portfolio Standard Annual Report for Compliance Year 2022 (“2022 Annual Report”) is submitted by Nevada Power and Sierra to the Public Utilities Commission of Nevada (“Commission”) pursuant to section 704.7801 et seq. of the Nevada Revised Statutes (“NRS”) and the corresponding provisions of the Nevada Administrative Code (“NAC”) to document their respective compliance with Nevada’s Renewable Portfolio Standard (“RPS”).

The RPS increased to 29 percent for the calendar year 2022. It will increase to 34 percent for calendar years 2024 through 2026, 42 percent for calendar years 2027 through 2029, and 50 percent for calendar year 2030 and thereafter. In complying with this requirement, for 2022, no more than 10 percent of the overall credits can come from energy efficiency measures, and of those credits, at least 50 percent must come from energy efficiency measures installed at service locations of residential customers. The 10 percent cap will drop to zero starting in compliance year 2025. Energy saved by customers through energy efficiency and conservation measures is referred to as Demand-Side Management (“DSM”).

The Nevada RPS is stated in terms of the number of Portfolio Credits (“PC”) required for compliance. A PC is equal to one kWh of renewable energy generated or one kWh of energy saved through an efficiency program.

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Portfolio Standard Annual Report, Compliance Year 2022

2. Executive Summary

Both Nevada Power and Sierra successfully met the 2022 RPS requirement. For Nevada Power, the 2022 RPS required the utility to supply 6,077,700 kPCs. Nevada Power exceeded the requirement by accumulating 7,766,503 eligible kPCs in total.

For Sierra, the 2022 RPS required the utility to supply 2,277,102 kPCs. Sierra exceeded this requirement, accumulating 2,808,786 eligible kPCs in total.

Table 2-1 below summarizes the calculation of the 2022 RPS credit requirement, the total number of eligible credits by credit type, the overall RPS percentage, for each utility and for NV Energy in total.¹

Table 2-1 Nevada Power, Sierra, & NV Energy 2022 Compliance Summary

	Nevada Power	Sierra	NV Energy
Retail Sales (MWh)	20,957,586	7,852,075	28,809,662
RPS Requirement	<u>29%</u>	<u>29%</u>	<u>29%</u>
Credit Requirement	6,077,700	2,277,102	8,354,802
Eligible 2022 Credits (kPCs)			
Non-DSM	7,158,733	2,581,076	9,739,809
DSM (Capped at 10%)	<u>607,770</u>	<u>227,710</u>	<u>835,480</u>
Total	7,766,503	2,808,786	10,575,289
Overall RPS %	37.1%	35.8%	36.7%

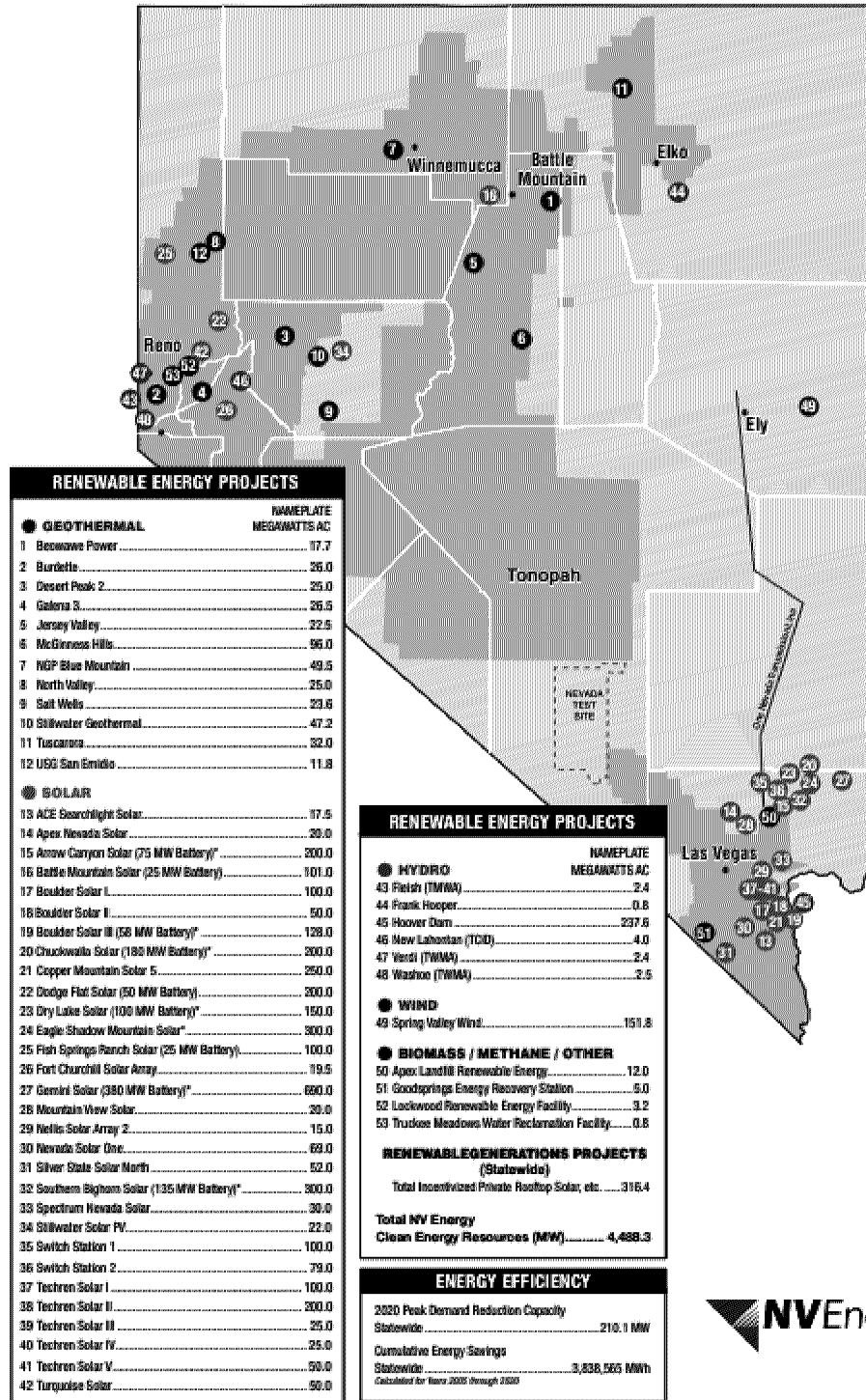
The 2022 Annual Report is divided into two parts, one for each utility, and each part is further divided into sections. There are 18 sections for Nevada Power and 19 sections for Sierra. The sections provide a comprehensive update for each of the key areas, activities and/or metrics that determine the overall results that each utility achieved in 2022 in meeting its statutory and other renewable energy credit commitments. This filing complies with the requirements of NAC §§ 704.877 and 704.998 which require that certain information be set forth.

A map of all facilities operating, in construction, or in development for Nevada Power and Sierra is set forth in the following page in Figure 1 and shows the individual projects by name, type, nameplate megawatt rating and corresponding map location.

¹ Total NV Energy is shown for illustration. The RPS requirements apply to each utility individually.

FIGURE 1. RENEWABLE ENERGY GENERATOR MAP

NV Energy's Clean Energy Commitment

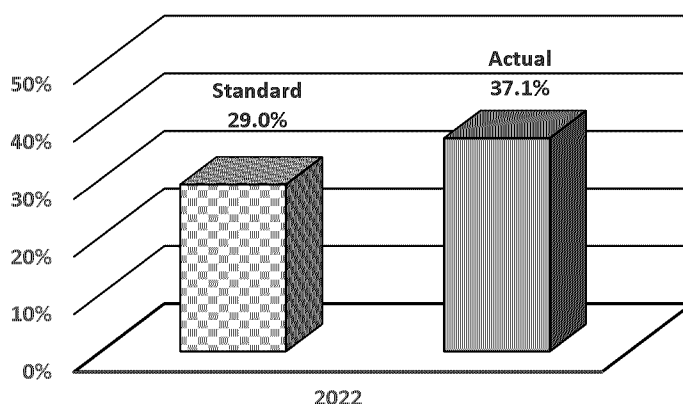


3. Nevada Power Annual Report Requirements

3.1 2022 Nevada Power Overview

Nevada Power exceeded the 2022 RPS credit requirement of 29 percent of retail sales from RPS-eligible resources, achieving 37.1 percent. The RPS percentage shown below in Figure 2 is based on an overall credit requirement of 6,077,700 kPCs and total eligible credits of 7,766,503 kPCs. Ignoring DSM credits in excess of the 10 percent DSM limit, Nevada Power ended 2022 with a net surplus of 1,688,803 kPCs.

FIGURE 2. 2022 NEVADA POWER RPS STANDARD VS ACTUAL PERCENTAGE



Nevada Power ended 2022 with approximately 1,930 MW of operating renewable generation capacity.² All Nevada Power’s operating projects are located in Nevada, and all are currently delivering renewable energy to meet the needs of Nevada Power’s customers. In addition to 1,930 MW of renewable capacity currently in operation, Nevada Power ended 2022 with five photovoltaic projects totaling 1,348 MW in various stages of development and construction. All of these projects include co-located battery storage. Battery storage offers flexibility giving Nevada Power the ability to store generation when demand and prices are low and releasing it back to the grid when demand and prices start to rise. This helps to optimize must-take renewable resources, like solar photovoltaic and wind, where generation and load do not always align.

Table 3-1 below is a list of the Nevada Power pre-commercial, pipeline projects showing the facility name, resource type, approval docket number, projected commercial operation date, nameplate capacity, storage capacity, and energy and capacity allocation as approved by the Commission in the order. The table below excludes Iron Point and Hot Pot. At this time it appears

² The 1,930 MW is calculated based on dividing the Nevada Solar One 69-MW agreement between Nevada Power (46.9 MW) and Sierra (22.1 MW), as previously approved by the Commission. It includes the two PEC only agreements, Nellis 1, 13.2 MW and Las Vegas Water District, 3 MW, and Nevada Power’s allocation of Hoover, 237.6 MW. It includes Eagle Shadow Mountain (300 MW) which started delivering test energy in late 2021 and Nevada Power’s share of Moapa Arrow Canyon (60 MW) which started delivering test energy in September 2022. Both are expected to declare commercial operation in 2023.

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

that both solar projects cannot move forward as approved by the Commission in Docket No. 18-06003, and therefore both have been removed from the outlook.

Table 3-1 Nevada Power Pipeline Generation as of December 31, 2022³

Facility	Resource Type	Approval Docket No.	Projected COD	Nameplate MW AC	Storage Capacity	Energy / Capacity Allocation	
						NPC	SPPC
Eagle Shadow Mountain ^a	Solar PV	18-06003	09/30/23	300		300	
Moapa (Arrow Canyon) Solar ^{a, b}	Solar PV	19-06039	06/01/23	200	75	60	140
Southern Bighorn Solar Farm ^b	Solar PV	19-06039	09/01/23	300	135	180	120
Chuckwalla	Solar PV	20-07023	12/01/23	200	180	200	
Dry Lake	Solar PV	20-07023	12/31/23	150	100	150	
Boulder Solar III	Solar PV	20-07023	12/31/23	128	58	128	
Gemini Solar ^c	Solar PV	19-06039	05/01/24	690	380	690	
				1,968	928	1,708	260.0

Notes to Table 3-1

- a. Both facilities delivered test energy in 2022 and both are projected to declare commercial operation in 2023
- b. The energy/capacity of the project as allocated between Nevada Power and Sierra per the order (Docket No. 19-06039)
- c. 40 percent of the PCs derived from Gemini Solar are to be assigned to Sierra per the order (Docket No. 19-06039)

In addition to its growing portfolio of company-owned and long-term contract renewable generating resources, Nevada Power entered into a short-term purchase agreement with Tonopah Solar Energy. The short-term agreement covers the purchase of energy and energy credits from Tonopah's Crescent Dunes solar thermal facility. The Company previously had entered into a Commission-approved long-term energy purchase agreement for the energy and energy credits from this plant. That agreement, however, was terminated in October 2019 after the plant suffered several years of chronic mechanical issues which impacted its ability to meet its energy supply commitments. The plant ended up being shut down in April 2019 to undergo a series of extensive repairs. The facility has since changed ownership, and the new owners claim to have addressed the underlying reliability issues. The plant resumed operations in July 2021. In addition to negotiating favorable pricing, the short-term agreement provides Nevada Power with an additional green resource to assist in meeting customer demand during peak summer months. It also provides Nevada Power a cushion until the 1,708 MW of new generation in the pipeline can achieve commercial operation. The short-term purchase agreement runs through September 30, 2024.

3.2 2022 NV GreenEnergy Rider Tariff

Nevada Power had previously entered into two NV GreenEnergy Rider ("NGR") agreements with Switch Ltd. ("Switch"). The first, Switch Station 1, also known as Playa Solar 2, is a 100 MW photovoltaic project located in Clark County, Nevada, northeast of Las Vegas. The project was approved by the Commission in Docket No. 15-07003 as one of the Emissions Reduction and

³ Eagle Shadow Mountain commercial operation date is now expected September 30, 2023. Southern Bighorn, Chuckwalla, and Boulder Solar III, the commercial operation dates shown in the table will most likely not be met. All three PPAs remain in place, and parties are engaged in discussions to determine plans for the projects moving forward. (reference IRP Action Plan update, Docket No. 23-02033)

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

Capacity Replacement ("ERCR") renewable projects. Subsequently, Nevada Power entered into an NGR agreement with Switch, under which the renewable energy attributes from the project were assigned to Switch. This agreement was approved by the Commission in Docket No. 15-08005. Nevada Power also entered into a second NGR agreement with Switch for 35 percent of the output from a 79 MW photovoltaic project, Switch Station 2, also known as Playa Solar 1, located in Clark County, Nevada. The agreement was approved by the Commission in Docket No. 15-11028. The Switch Station 2 NGR agreement was modified per a January 17, 2018, notice from Switch and starting April 17, 2018, 100 percent of the energy and credits were assigned to Sierra and Sierra's companion NGR agreement with Switch.

In 2016, Switch received Commission approval to purchase its energy, capacity and/or ancillary services from a provider of new electric services for its operations in both Utilities' service territories. Switch's 704B application was approved in Docket No. 16-09023. Switch began purchasing its energy from an alternative supplier beginning June 1, 2017. Although Switch is no longer a bundled customer for most of their loads, Switch will continue to purchase the PCs from Switch Station 1 for the duration of the agreement.

Nevada Power entered into an agreement to sell credits to Sierra as part of an NGR approved by the Commission between Sierra and Truckee Meadows Community College ("TMCC"). Under the three-year agreement, Nevada Power is to sell 600 kPCs to Sierra monthly. The agreement commenced on December 1, 2019. The credits are to be sourced from Techren Solar 1. Sierra will sell the credits to TMCC under an NGR agreement. The NGR between Sierra and TMCC, and a companion sales agreement between Sierra and Nevada Power to provide the PCs were approved by the Commission in Docket No. 19-05006. That agreement terminated November 2022. The PCs from the above NGR agreements and the Nevada Power/Sierra credit sales agreement are reported below in Section 3.11, Credit Sales.

Finally, the Company launched a revised NGR Option 1 program or open season in 2022. This program, which was approved by the Commission in Docket No. 21-09018, is now open to both residential and non-residential customers of Nevada Power. The previous NGR Option 1 program was limited to just Sierra customers. The updated program is designed to help customers achieve their sustainability goals and to help drive clean energy development in Nevada. Nevada Power was initially targeting 3 MW of renewable resource capacity for residential and 50 MW for non-residential customers. The Company conducted its first open season in February 2022 where interested customers could enroll in the new NGR tariff. In 2022, three residential customers and three commercial customers were enrolled. A total of 20,998,688 kilowatt hours were billed under the tariff in calendar year 2022, and Nevada Power will retire an equivalent number of PCs against the tariff (not the RPS). Revenue billed under the tariff totaled \$41,639.43. Bundled retail sales will also be reduced by 20,998.6 hours, an amount equal to the number of PCs to be retired under the green tariff, to calculate Nevada Power's 2022 RPS credit requirement. The PCs from the NGR Option 1 2022 billings are reported below in Section 3.11, Credit Sales. Please refer to Appendix 5.4, 2022 NGR Option 1 Summary, for more information about the number of participating customers, customer type, and the kilowatt hours and dollars billed under the tariff in 2022.

The Company launched a follow up open season on November 3, 2022. The second season begins July 1, 2023. Please refer to Docket No. 23-03029 for details on the results of the second open enrollment season. The second and subsequent open seasons assume an annual program limit of 139,284 megawatt hours. Like the season one, kilowatt hours billed under the tariff in 2023 will be tracked and an equivalent number of PCs retired.

3.3 2022 Energy Supply Agreements.

Nevada Power entered into an Energy Supply Agreement (“ESA”) with the Lumen Group, LLC. There are two sections to the ESA, short-term and long-term, with each section covering Nevada Power’s obligation to provide energy credits to Lumen. The long-term section’s terms and conditions will be triggered when a designated renewable pipeline resource declares commercial operation. This is expected to occur 2023. In 2022, Nevada Power and Lumen were operating under the agreement’s short-term terms and conditions. The short-term obligations included a letter agreement whereby Nevada Power would transfer PCs to Lumen in an amount equal to the customer’s load-ratio share of the total PCs associated with the Renewable Base Tariff Energy Rate (“R-BTER”) and the Temporary Renewable Energy Development (“TRED”). The credits transferred are in addition to Lumen’s 29 percent RPS obligation. Nevada Power’s 2022 bundled retail sales reported in Section 3.9, Retail Sales, include 2022 energy sales to Lumen. In 2022, Nevada Power’s credit obligation under letter agreement totaled 46,650 kPCs, and Nevada Power’s 2022 retail sales will be reduced by 46,650 MWh, an amount equal to the number of PCs Nevada Power will transfer to Lumen. The ESA and the associated letter agreement were approved by the Commission in Docket No. 19-12017.

3.4 2022 704B Agreements

In 2020, Las Vegas Resorts Holdings, LLC (The Sahara Las Vegas”), received Commission approval to purchase their energy, capacity and/or ancillary services from a provider of new electrical resources. The Sahara Las Vegas’ request was approved by the Commission in Docket No. 18-12019. The Sahara Las Vegas exited Nevada Power on January 1, 2020.

In 2019, Georgia-Pacific Gypsum, LLC (“Georgia-Pacific”), received Commission approval to purchase their energy, capacity, and ancillary services from a provider of new electrical resources. Georgia-Pacific’s request was approved by the Commission in Docket No. 18-09015. Georgia-Pacific exited Nevada Power on February 1, 2020.

In 2017, Caesars Enterprise Services, LLC (“Caesars”), received Commission approval to purchase their energy, capacity and/or ancillary services from a provider of new electrical resources. Caesars’s request was approved by the Commission in Docket No. 16-11034. Caesars exited Nevada Power on February 1, 2018.

In 2016, MGM Resorts International (“MGM”) and Wynn Las Vegas (“Wynn”) received Commission approval to purchase their energy, capacity and/or ancillary services from a provider of new electrical resources. MGM’s request was approved by the Commission in Docket No. 15-05017; Wynn’s request was approved in Docket No. 15-05006. Both MGM and Wynn subsequently began purchasing from an alternative energy provider effective October 1, 2016. MGM sold Circus Circus Las Vegas on January 1, 2020. The property, although no longer owned by MGM, is subject to the same exit terms as MGM.

Under the terms of the exit orders, the above entities are subject to a special tariff, R-BTER, for specified period of time to offset a portion of the cost of certain long-term renewable power purchase agreements that Nevada Power entered into when Nevada Power was their energy supplier. Payment of the tariff entitles the six distribution only service (“DOS”) customers to

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receive a portion of the PCs associated with the agreements included in the tariff.⁴ Nevada Power's credit obligation is calculated based on their retail sales as a percentage of Nevada Power's overall retail sales adjusted to include DOS for the above entities subject to the R-BTER tariff. The resulting percentage is then used to calculate the number of PCs from the underlying power purchase agreements to be transferred. The allocation is adjusted to account for Nevada Power's outstanding credit repayment obligation to Sierra. MGM, Circus Circus Las Vegas, and Wynn's R-BTER obligation, and the associated credit allocation, terminated on December 31, 2022. Caesars's R-BTER terminates on December 31, 2023. The Sahara Las Vegas terminates on December 31, 2025. Georgia-Pacific terminates on January 31, 2026. In addition, all six companies are entitled to a portion of the credits from RenewableGenerations incentivized systems ("RENGEN" credits). The Sahara Las Vegas and Georgia-Pacific are also entitled to receive a portion of the credits from the TRED. The annual credit obligation for both the Renewable Energy Program Rate ("REPR") and TRED are based on a similar calculation as the R-BTER.⁵

The table below shows Nevada Power's credit obligation for 2022 and projected 2023-2026 credit obligation per the terms of the five 704B Commission decisions with multi-year credit obligations. The table below only covers actual and projected credit obligations to 704B customers that exited Nevada Power's bundled service prior to January 1, 2022.

⁴ Caesars Enterprise Services, The Circus Circus Las Vegas, Georgia-Pacific Gypsum, MGM Resorts International, The Sahara Las Vegas, and The Wynn.

⁵ For Circus Circus Las Vegas, MGM & Wynn the REPR terminated on 09/30/2022. For Caesars, The Sahara Las Vegas, and Georgia-Pacific the REPR terminates when the R-BTER terminates.

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Table 3-2 2022 Actual & 2023–2026 Projected 704B Credit Obligations

	Actual 2022	Projected > 2023	2024	2025	2026
	kPCs	kPCs	kPCs	kPCs	kPCs
MGM					
R-BTER	104,699	Obligation Terminated on December 31, 2022			
REPR	18,461				
Total	123,160	0	0	0	0
Circus Circus					
R-BTER	6,772	Obligation Terminated on December 31, 2022			
REPR	1,194				
Total	7,966	0	0	0	0
Wynn					
R-BTER	23,080	Obligation Terminated on December 31, 2022			
REPR	4,070				
Total	27,150	0	0	0	0
Caesars					
R-BTER	71,688	72,490	Obligation Terminates December 31, 2023		
REPR	14,493	15,020			
Total	86,181	87,510	0	0	0
The Sahara Las Vegas					
R-BTER/TRED	2,996	3,014	3,922	3,854	Obligation Terminates
REPR	825	857	855	837	December 31, 2025
Total	3,821	3,871	4,777	4,691	0
Georgia Pacific					
R-BTER/TRED	2,507	2,529	3,172	3,173	264
REPR	678	704	703	688	60
Total	3,185	3,233	3,875	3,861	324

Notes to Table 3-2:

The above 2023-2026 credit obligation (kPC) totals are estimates. The exact numbers of credits to be transferred for each period will be determined based on Caesar's, Georgia-Pacific's, and The Sahara Las Vegas' actual distribution load; Nevada Power's actual bundled retail load; and the actual number of credits generated by the renewable resources included in the R-BTER, REPR and TRED.

3.5 2023 Compliance Outlook

Nevada Power's compliance outlook is cautiously positive. The Company has been successful in building a pipeline of new projects to meet its future credit and renewable energy needs. As stated in the previous filings, however, no outlook is without risk. The biggest risks today are delays and cancelations. For example, the Company's pipeline no longer includes Hot Pot and Iron Point solar projects as the Company is taking a conservative approach on the viability of pipeline projects. All of Nevada Power's pipeline projects are currently solar, and the difficulty of procuring panels, racking, cabling, transformers, and other critical hardware is not unique to any single project. Supply chain disruptions and cost increases are part of doing business in a post COVID world, and it is possible that other projects may experience similar delays.⁶ While Nevada Power has a robust pipeline of projects in various stages of development, its ability to offset energy/credit losses

⁶ Delays and terminations are an evolving challenge and both utilities will continue to adjust their outlooks and take corrective action as new information and alternatives become available.

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stemming from delays and terminations is not unlimited. The worst-case scenario remains that additional pipeline projects are delayed or cancelled. Delays and shortages can drive up costs to a point where a project that was previously economical becomes uneconomical. Unlike delayed projects where a project might be able to deliver test energy during a protracted construction/commissioning process, canceled projects deliver nothing and can take four or more years, from start of procurement efforts to COD, to replace.

In summary, while Nevada Power is currently positioned to meet its future credit commitments (RPS, NGR, ESA and 704B obligations), experience has shown that renewable projects, both operating and pipeline, are unpredictable. Nevada Power will continue explore all options, including continuing to issue renewable energy RFPs and exploring short-term purchase agreements that benefit customers, so that it can procure the renewable generating resources needed to continue its commitment to becoming carbon-free. To this end, the RPS is the floor.

3.6 2022 Surplus Credit Calculation

Table 3-2 below shows the calculation of the surplus credits required under NRS § 704.7828. Excluding DSM credits, which are subject to limitations and are likely to have no value other than to Sierra, Nevada Power ended 2022 with 1,087,411 kPCs in excess of optional 10 percentage marketing requirement and 185,324 kPCs in excess of the mandatory 25 percent marketing requirement. As required per statute, Nevada Power will market the 185,324 kPCs. The decision to execute a sale will take into consideration the proceeds received from selling the surplus credits, and the status of the pipeline projects. If one or more of the pipeline projects is delayed or terminated, the Company may not execute a sale. The overarching policy is to never place future compliance at risk by selling credits that could be needed at a later time.

Table 3-3 Nevada Power 2022 Surplus Carry Forward Test (in kPCs)

Surplus 2022 Non-DSM Credits	1,688,803
Surplus 2022 DSM Credits	<u>5,154,637</u>
Total Surplus Credits	6,843,440
Less DSM Credits	<u>5,154,637</u>
Surplus Unrestricted Credits	1,688,803
Projected 2023 Credit Requirement	6,013,916
	10% 601,392
	25% 1,503,479
Credits in Excess of Thresholds	10% 1,087,411
	25% 185,324

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The following pages contain the reporting information required by NAC § 704.8879 for annual reporting by providers of electric service.⁷ For convenience, Nevada Power has listed the specific requirements of the Annual Report as set forth in NAC § 704.8879(2).

3.7 2022 Capacity

NAC § 704.8879(2)(a). The capacity of each renewable energy system owned, operated, or controlled by the provider, the total number of kilowatt-hours generated by each such system during the most recently completed compliance year, and the percentage of that total amount which was generated directly from renewable energy.

Table 3-4 Nevada Power 2022 Owned Renewable Energy Capacity

	Capacity (kW)	2022 Generation (kWh)	2022 Credits (PCs)	% From Renewable Energy
Mojave HS Solar ¹	350	816,626	816,626	100%
Pearson EV Charging	19	34,810	34,810	100%
Goodsprings ²	7,500	30,816,234	36,464,731	100%
Nellis Solar Array II ³	15,000	38,365,000	92,076,000	100%
Totals	22,869	70,032,670	129,392,167	100%

Notes to Table 3-4:

- ¹. The first of three small solar arrays installed to support the Company's expanded solar access program. The program was approved by the Commission in Docket No. 20-07023. The array received permission to operate on December 21, 2021.
- ². Credit total includes station usage
- ³. Credit total includes the impact of the solar credit multiplier (2.4x)

3.8 2022 New Systems

NAC § 704.8879(2)(b). Whether, during the most recently completed compliance year, the provider began construction on, acquired, or placed into operation any renewable energy system and, if so, the date of any such event.

Nevada Power completed no new company-owned renewable facilities in 2022. Nevada Power does continue to work on Dry Lake Solar. Dry Lake Solar is a 150 MW company-owned project with a 100 MW (400 MWh) co-located energy storage system. This facility will not be included in Nevada Power's rate base or revenue requirement. Once operational, the facility will sell the energy generated to Nevada Power under a Power Purchase Agreement. The project was approved

⁷ The Annual Report obligations are as set forth in NAC § 704.8879.

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by the Commission in Docket No. 20-07023 and is projected to declare commercial operation on December 31, 2023.

3.9 2022 Retail Sales

NAC § 704.8879(2)(c). The total number of kilowatt-hours sold by the provider to its retail customers in this State during the most recently completed compliance year.

The total number of kilowatt-hours sold by Nevada Power in 2022 to its bundled, retail customers was 21,025,235,000. This total includes bundled retail sales sold under a Commission approved NGR Option 1 and ESA tariff where credits are either transferred to a customer or retired on behalf of a customer above and separately from the RPS. After adjusting for the PCs associated with 2022 NGR Option 1 and ESA sales, Nevada Power's adjusted retail sales, the basis for calculating the RPS credit requirement, was 20,957,586,000 kilowatt hours.

3.10 2022 RPS Compliance Total and Summary of RPS Sources

NAC § 704.8879(2)(d). The total number of kilowatt-hours that the provider generated, acquired, or saved from portfolio energy systems or efficiency measures during the most recently completed compliance year and, from that total number of kilowatt-hours, subtotals for the number of kilowatt-hours: (1) generated or saved by the provider from its own portfolio energy systems or efficiency measures; (2) acquired by the provider pursuant to long-term portfolio energy credits contracts; (3) acquired by the provider pursuant to long-term renewable energy contracts; (4) acquired by the provider pursuant to short-term portfolio energy credits contracts; (5) acquired by the provider pursuant to short-term renewable energy contracts; (6) acquired or saved by the provider pursuant to energy efficiency contracts; (7) attributable to the provider from solar thermal systems; (8) fed back to the provider from net metering systems used by customer-generators pursuant to NRS §§ 704.766 to 704.775, inclusive; (9) carried forward by the provider from previous compliance years; and (10) saved by the provider as a result of energy efficiency measures installed at service locations of residential customers of the provider for the purposes of paragraph (b) of subsection 2 of NRS § 704.7821.

Table 3-5 Nevada Power 2022 Summary of RPS Sources

	kWh¹ (in 000)
1. Generated or saved from owned portfolio energy systems or efficiency measures	129,392
2. Acquired pursuant to long-term portfolio energy credit contracts	76,723
3. Acquired pursuant to long-term renewable energy contracts	4,810,339

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4. Acquired pursuant to short-term portfolio energy credit contracts	0
5. Acquired pursuant to short-term renewable energy contracts	152,652
6. Acquired or saved pursuant to energy efficiency contracts	-- ²
7. Attributable to the provider from solar thermal systems	73,646
8. Fed back to the provider from net metering systems used by customers	642,299
9. Carried forward from previous compliance years ³	1,273,682
10. Saved from energy efficiency measures ⁴	607,770
	7,766,503

Notes to Table 3-5:

¹ 1 kWh = 1 PC, 1,000 kWh (1 MWh) = 1 kPC, totals reflect the solar distributed generation multiplier where applicable.

² Amount is included in Row 10.

³ The 1,273,682 kPC value excludes DSM credits carried forward from 2021, 5,214,620 kPCs.

⁴ Amount reflects allowable 10% cap, does not include the carry forward of 5,154,637 approved DSM kPCs in Appendix 5.1.

3.11 2022 Credit Sales

NAC § 704.8879(2)(e). The total number of kilowatt-hours that the provider: (1) sold as a result of customer participation in a voluntary option to purchase all or a portion of the customer's energy from renewable resources; and (2) sold pursuant to paragraphs (b) and (c) of subsection 2 of NRS § 704.7828.

Table 3-6 Nevada Power 2022 Voluntary and Excess Credit Sales

Type of Sale	Total kWh / PCs Sold
Kilowatt-hours sold under a NGR or an approved ESA agreement ¹	350,730,000
Kilowatt-hours sold in excess of 10% but less than 25% of the amount of portfolio energy credits necessary to comply with the subsequent calendar year	0
Kilowatt-hours sold in excess of 25% of the amount of portfolio energy credits necessary to comply with the subsequent calendar year.	0
Kilowatt-hours sold other ²	6,600,000

Notes to table 3-6

¹ 2022 NGR ESA, NGR Option 1 and Option 2 Credit Transfers:

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- Switch, Switch Station 1, Docket No. 15-07003, 283,081,000 PCs. The Switch kPCs would not be included in any Nevada Power retail sales adjustment as Switch is a distribution only customer.
 - Lumen Group, LLC, Docket No 19-12017, 46,650,000 PCs, to be transferred to Lumen Group under a Commission approved ESA. Lumen is a bundled customer of Nevada Power and energy sales to Lumen under the short-term section of the ESA are included in Nevada Power's Bundled Retail Sales total.
 - NGR, Option 1 v2, Tariff retirements, 20,999,000, Docket No. 21-09018.
- 2 As approved in Docket No. 19-05006, 600,000 PCs per month were to be transferred to Sierra. The credits transferred would be used by Sierra to meet a three-year NGR commitment that it entered into with Truckee Meadows Community College. The agreement terminated November 2022.

3.12 2022 Carry Forwards

AC § 704.8879(2)(f). The total number of kilowatt-hours that the provider intends to carry forward from the most recently completed compliance year.

Table 3-7 Nevada Power 2022 Carry Forward

Surpluses	Vintage	kPCs ¹	kPCs ¹	kPCs ¹
		Non-DSM	DSM ³	Total
1 Carried forward as excess from the previous compliance years ² ;	2015		442,129	442,129
	2016		1,355,848	1,355,848
	2017		773,536	773,536
	2018		692,045	692,045
	2019		706,417	706,417
	2020		648,337	648,337
	2021	1,273,682	596,308	1,869,990
	Total	1,273,682	5,214,620	6,488,302
2 Intends to carry forward as excess from the most recently completed compliance year;	2022	1,688,803	547,788	2,236,591
	Total	1,688,803	547,788	2,236,591
3 Intends to carry forward as excess from the previous compliance years;	2015		2,445	2,445
	2016		1,187,762	1,187,762
	2017		773,536	773,536
	2018		692,045	692,045
	2019		706,417	706,417
	2020		648,337	648,337
	2021		596,308	596,308
	Total	0	4,606,850	4,606,850
	Total	1,688,803	5,154,637	6,843,440

Deficiencies

- | | |
|--|----------------|
| 4 Carried forward as deficiencies from the previous compliance years; | Not applicable |
| 5 Intends to carry forward as deficiencies from the most recently completed compliance year; and | Not applicable |
| 6 Intends to carry forward as deficiencies from previous compliance years | Not applicable |

1 1 kPC = 1,000 kWh or 1,000 kPC

2 Reference Docket No. 22-04016 (1,273,682,000 non-Demand Side Management portfolio credits and 5,214,620,000 Demand Side Management portfolio credits)

3 2022 DSM carry forward includes credits derived from the 2022 verification and measurement (M&V) reports which were approved in 2022

3.13 2023 Estimated Sales

NAC § 704.8879(2)(g). The estimated number of kilowatt-hours that the provider expects to sell to its retail customers in this State during the current compliance year.

The total number of kilowatt-hours expected to be sold by Nevada Power in 2023 is estimated to be 21,176,446,000. This estimate includes sales to NGR Option 1 customers and sales to customers under Commission approved ESAs but excludes DOS customers that have received Commission approval to purchase their energy from an alternative supplier.⁸

3.14 2023 Estimated Credit Requirement

NAC § 704.8879(2)(h). The estimated number of kilowatt-hours that the provider must generate, acquire, or save from portfolio energy systems or efficiency measures to comply with its portfolio standard for the current compliance year, as calculated by the provider pursuant to NAC §704.8877.

Table 3-8 Nevada Power 2023 Estimated RPS Credit Requirement

	kWh ¹
Estimated 2023 Retail Sales ¹	21,176,446,000
Less Bundled Retail Sales under a Commission-approved tariff ²	438,805,000
Estimated Retail Sales Subject to the RPS	20,737,641,000
29% RPS Requirement	6,013,916,000
10% DSM Allowance	601,392,000

Notes to Table 3-8:

¹ 2023 Estimated Bundled Retail Sales

² 2019 Nevada Senate Bill 358 allows utilities to exclude the PCs associated bundled retail sales subject to a Commission approved green tariff or ESA where renewable energy credits are either transferred to or retired on behalf of a bundled customer and are not applied towards the annual RPS requirement

3.15 2023 Estimated Costs

NAC § 704.8879(2)(i). If the provider is a utility provider, the estimated costs for the utility provider to comply with its portfolio standard for the current compliance year. If

⁸ Joint Integrated Resource Plan Fourth Amendment, base retail sales forecast, reference Docket No. 22-11032.

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appropriate, the utility provider must report such estimated costs for each major type of cost, such as general and administrative costs and costs for purchased power.

Table 3-9 Nevada Power 2023 Estimated RPS Compliance Costs

	\$
<u>Renewable Energy</u>	
Purchase Power and PC Expenditures	\$329,693,000
Development	3,209,000
Company-Owned O&M	707,000
General and Administrative	1,317,000
Total	<u>\$344,926,000</u>

Notes to Table 3-9:

Excludes: (1) other ancillary department costs such as legal, contract administration, transmission & accounting, which are not exclusively dedicated to renewable activities; and (2) costs which are included in general rates from prior rate cases.

Excludes: 2023 estimated DR and DSM program expenditures. Credits derived from post-2020 programs can no longer be used towards RPS compliance.

3.16 2022 Affirmative Showing of RPS Compliance

Per NAC § 704.8879(3), Nevada Power must make an affirmative showing that it complied with its portfolio standard during the most recently completed compliance year.

As described herein, Nevada Power exceeded the RPS credit requirements (29 percent of retail sales) for the calendar year ending 2022 with 37.1 percent of retail sales met by RPS-eligible resources.

Table 3-10 Nevada Power 2022 RPS Compliance Summary

	kPC ¹
Overall RPS Summary	<i>(In thousands)</i>
Total Credits	7,766,503
29% RPS Credit Requirement ²	<u>6,077,700</u>
Cumulative RPS Position (+/-)	1,688,803

Notes to Table 3-10:

¹ 1 kWh = 1 PC, 1,000 kWh (1 MWh) = 1 kPC² Based on 2022 bundled retail sales of 21,025,235 MW hours less NGR and ESA credits totaling 67,649 kPCs

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2 The 1,680,030 kPC surplus total excludes surplus 2022 DSM credits which total 5,154,637 kPCs

Additional detail for 2022 and projected estimates for 2023 and the plan period of 2024 through 2026, including a breakdown by renewable facility, are provided in Appendix 5.1 of this report.

3.17 2022 Attestations

Since Nevada Power acquired kilowatt-hours from renewable energy systems that are not owned, operated, or controlled by it to comply with its portfolio standard during 2022, NAC § 704.8879(4) requires Nevada Power to provide separate attestations from the owner or operator of the renewable energy system that the energy represented by those kilowatt-hours: (a) has not been and will not be sold or otherwise exchanged for compensation or used for credit in any other state or jurisdiction; and (b) has not been and will not be included within a blended energy product certified to include a fixed percentage of renewable energy in any other state or jurisdiction. These individual attestations and a summary table of the attestations are provided in Appendix 5.3.

3.18 DSM Contributions

The Commission's Order in Docket No. 22-04016 authorized Nevada Power to carry forward 5,214,620 pre-2020 demand-side-management kPCs. Compliance year 2022 resulted in an additional 547,788 DSM derived kPCs (reference Appendix 5.6. for details). Collectively, both totals will provide more than a sufficient number of PCs to fill the 10 percent allotment from efficiency measures that is allowed to meet the current year's RPS credit standard. DSM Credits available for 2022 compliance that are in excess of the ten percent limit will be banked and applied towards Nevada Power's 2023 compliance.

In this filing, like the previous one, the Company requests to include DSM credits derived in 2022. The reason for the request is twofold. First, DSM only credits from pre-2020 efficiency programs can qualify for certification. The efficiency programs outlined in Appendix 5.6. have already been vetted, and there are no new/proposed programs to review. Second, the actual retail sales total for 2022 is known. Staff has the information needed to confirm the number of credits generated during the 2022 calendar year without having to delay confirmation until 2023.

Although this request does not benefit Nevada Power, it does benefit Sierra. Nevada Power has more than a sufficient number of certified DSM-derived credits to fill DSM percentage contribution allowable under the statutes through 2024. The only impact to Nevada Power is the number of stranded DSM credits which can no longer be used after 2024 will increase.

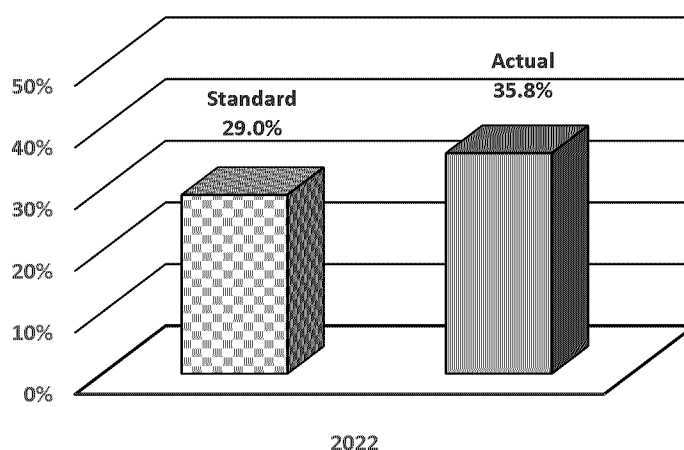
Please reference Section 4.19, 2022 DSM Contribution, for information on how this change benefits Sierra and Sierra's customers.

4. Sierra Pacific Power Annual Report Requirements

4.1 2022 Sierra Overview

Sierra exceeded the 2022 RPS requirement ending 2022 at 35.8 percent. The RPS percentages shown below are based on overall credit requirement of 2,277,102 kPCs and a total of 2,808,786 eligible credits. Ignoring DSM credits in excess of the 10 percent limit, SPPC ended 2022 with a net surplus of 531,684 kPCs.

FIGURE 3. 2022 SIERRA RPS STANDARD VS ACTUAL PERCENTAGE



Sierra ended 2022 with approximately 1080.7 MW of renewable capacity in service.⁹ Like Nevada Power, all 1080.7 MW are located in Nevada providing green energy to meet the needs of Sierra's customers. In 2022, Sierra added two utility scale solar projects, Dodge Flat and Fish Springs Ranch. Dodge Flat is a 200 MW solar facility with 50 MW of storage capacity. The project was approved by the Commission in Docket No. 18-06003. Dodge Flat Solar is located in Washoe County, Nevada. The facility declared commercial operation on March 2, 2022. Fish Springs Ranch is a 100 MW solar facility with 25 MW of storage capacity. Fish Springs Ranch was approved by the Commission in Docket No. 18-06003. Fish Springs Ranch is also located in Washoe County, Nevada. The facility declared commercial operation on March 15, 2022.

In addition to the 1080.7 MW of renewable capacity currently in operation, Sierra ended 2022 with one photovoltaic project and one geothermal project totaling 145 MW of new generation in various stages of development and construction. The solar project includes co-located battery storage.

⁹ The 1,080.7 MW is calculated based on dividing the Nevada Solar One 69-MW agreement between Nevada Power (46.9 MW) and Sierra (22.1 MW), as previously approved by the Commission. It includes Sierra's share of Moapa Arrow Canyon (140 MW). Moapa Arrow Canyon started delivering test energy in September 2022. The facility is projected to declare COD in Q2, 2023. Finally, the total excludes Hooper Hydro .8-MW where Sierra does not claim the PCs from the generation.

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Battery storage offers flexibility by giving Sierra the ability to store generation when demand and prices are low and releasing it back to the grid when demand and prices start to rise. This helps to optimize must take renewable resources, like solar photovoltaic and wind, where generation and load do not always align.

In addition to the two projects in development and/or construction, Sierra also ended 2022 with two geothermal projects pending Commission approval (ref. Docket No. 22-11032). The first, Ormat Portfolio, consists of eight geothermal facilities with staggered commercial operating dates. The second, Valmy Geothermal, is a 20 MW geothermal facility that will achieve commercial operation in phases. Combined, Ormat Portfolio and Valmy Geothermal, will add 140 MWs of baseline, renewable power to meet the energy needs of Sierra's customers.

Table 4-1 below is a list of the Sierra pre-commercial pipeline and pending projects showing the facility name, the resource type, the approved/pending docket number, the projected commercial operation date, the nameplate capacity (AC), the storage capacity, and the energy and capacity allocation, if applicable, as approved by the Commission in the approval order. The table below excludes Iron Point and Hot Pot. At this time, it appears that both solar projects cannot move forward as approved by the Commission in Docket No. 18-06003, and therefore both have been removed from the outlook.

Table 4-1 Sierra Pipeline Generation as December 31, 2022

Facility	Resource Type	Approval Docket No.	Projected COD	Nameplate MW AC	Storage Capacity	Energy / Capacity Allocation	
						SPPC	NPC
North Valley Geothermal	Geothermal	22-03024	04/30/23	25		25	
Moapa (Arrow Canyon) Solar ^{a, b}	Solar PV	19-06039	06/01/23	200	75	140	60
Southern Bighorn Solar Farm ^b	Solar PV	19-06039	09/01/23	300	135	120	180
				525	210	285	240
Facility	Resource Type	Pending Docket No.	Projected COD	Nameplate MW AC	Storage Capacity	SPPC	NPC
Ormat Portfolio (OWGP, LLC) ^c							
> Beowawe	Geothermal	22-11032	01/01/25	20		20	
> Galena 1 (Burdette)	Geothermal	22-11032	02/01/27	15		15	
> Desert Peak 2	Geothermal	22-11032	02/01/28	10		10	
> Galena 3	Geothermal	22-11032	01/01/29	15		15	
> North Valley 2	Geothermal	22-11032	01/01/26	15		15	
> Lone Mountain	Geothermal	22-11032	01/01/26	15		15	
> Gerlach	Geothermal	22-11032	01/01/28	15		15	
> Pinto	Geothermal	22-11032	01/01/27	15		15	
Valmy (Eavor) Geothermal ^{c, d}	Geothermal	22-11032	12/31/26	20		20	
				140	0	140	
			Total	665	210	425	240

Notes to Table 4-1

- a. Moapa Arrow Canyon started test energy deliveries in September 2022. It is projected to declare commercial operation in Q2 2023
- b. The energy/capacity of the project as allocated between Nevada Power and Sierra per the order (Docket No. 19-06039)
- c. Pending PUCN approval
- d. Valmy Geothermal will power up in phases with initial deliveries starting November 2025 and full operations expected December 2028.

4.2 2022 NV GreenEnergy Rider Tariff

In 2013, Sierra sought and received Commission approval for the Nevada GreenEnergy Rider program. The NGR is a voluntary program open to Sierra's residential and non-residential customers. Option 1 of the Northern NV GreenEnergy Rider allows customers of any class to purchase either 50 percent or 100 percent of their energy needs from renewable resources. Option 2 allows customers of GS-2 class or larger to enter into a special contract with Sierra for the environmental attributes produced by a specific renewable resource.

The Company launched a revised NGR Option 1 program or open season in 2022. This program, which was approved by the Commission in Docket No. 21-09018, is open to both residential and non-residential customers of Sierra. The program is designed to help customers achieve their sustainability goals and to help drive clean energy development in Nevada. Sierra was targeting two MW of renewable resource capacity for residential and 33 MW for non-residential customers.

The Company conducted its first open season in February 2022 where interested customers could enroll in the new NGR tariff. Sierra's legacy NGR Option 1 customers also had the option to enroll in the new program (the old program terminated June 30, 2022). In 2022, between the original and the revised program, Sierra had 113 customers enrolled. The majority of customers were residential customers that had been previously enrolled in the original program. A total of 63,028,646¹⁰ kilowatt hours were billed under the tariffs in calendar year 2022, and Sierra will retire an equivalent number of PCs. Revenue billed under the tariff totaled \$137,941.60. Bundled retail sales will also be reduced by 63,028.6 MW hours, an amount equal to the number of PCs to be retired under the green tariff to calculate Sierra's 2022 RPS credit requirement. The PCs set aside for Sierra's NGR Option 1 program are reported below in Section 4.10, Credit Sales. Please refer to Appendix 5.4, 2022 NGR Option 1 Summary, for additional information about the number of participating customers, customer type, and the kilowatt hours and dollars billed under the old and new tariff in 2022.

Finally, the Company released a follow up open season on November 3, 2022. The second season begins July 1, 2023 (please refer to Docket No. 23-03029 for details on the results of the second open enrollment season). The second and subsequent open seasons assume an annual program limit of 91,980 megawatt hours. Like the first, all kilowatt hours billed under the tariff in 2023 will be tracked and an equivalent number of PCs retired in 2024.

In 2022, Sierra had three customers – Apple, Switch and TMCC enrolled in an Option 2 NGR agreement. Under the first agreement, Apple is receiving the renewable energy credits from Fort Churchill Solar Array which commenced operation in August 2015. The energy generated by the Fort Churchill Solar Array is delivered to Sierra's system, and Apple has ownership for all renewable credits associated with the generation. Apple uses the credits to offset the energy consumption of its data center. The Fort Churchill lease agreement was approved by the Commission in Docket No. 13-07005. The solar facility was subsequently purchased by Sierra in late December 2021. The purchase was approved by the Commission in Docket No. 21-06001. In

¹⁰ Billed under the original NGR Option I, 501,621 kWh (Jan 1 – June 30) billed under the new NGR Option 1, 62,527,025 kWh (July 1 – Dec 31)

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2022, the solar array generated 25,911.5 MWh of renewable energy with an equal number of renewable energy credits transferred to Apple.

Subsequent to the Fort Churchill NGR, Apple and Sierra entered into a second NGR transaction for 50 MW from a solar photovoltaic project, Boulder Solar 2, located in Clark County, Nevada. This agreement was approved by the Commission in Docket No. 15-11025. The Boulder Solar 2 project successfully completed commissioning in January 2017. In 2022, Boulder Solar II generated 131,101 MWh of renewable energy with an equal number of renewable energy credits transferred to Apple.

Sierra received Commission approval to enter into a third NGR agreement with Apple for the renewable credits from a renewable project, Techren Solar 2. Techren Solar 2 is a 200 MW photovoltaic facility also located in Clark County, Nevada. This agreement was approved by the Commission in Docket No. 17-02008. Techren Solar 2 successfully completed commissioning in October 2019. In 2022, Techren Solar 2 generated 560,408 MWh of renewable energy with an equal number of renewable energy credits transferred to Apple.

Sierra received Commission approval for a fourth NGR agreement with Apple for the renewable energy credits from a new renewable energy project, Turquoise Nevada Solar. Turquoise Nevada Solar is a 50 MW photovoltaic facility located in the Reno Technology Park near Reno, Nevada. This agreement was approved by the Commission in Docket No. 17-11002. The project successfully completed commissioning on December 7, 2020. In 2022, Turquoise Nevada Solar generated 112,268 MWh of renewable energy with an equal number of renewable energy credits transferred to Apple.

In 2015, Sierra entered into an NGR agreement with Switch for 65 percent of the output from a 79 MW photovoltaic project, Switch Station 2, located in Clark County, Nevada. The agreement was approved by the Commission in Docket No. 15-11025. The balance of the renewable attributes from the project are assigned to Switch under a companion agreement with Nevada Power. The Switch Station 2 NGR agreement was modified per a January 17, 2018, notice from Switch and starting April 17, 2018, one hundred percent of the energy and credits were assigned to Sierra and Sierra's companion NGR agreement with Switch. In 2022, Switch Station 2 produced 202,738 MWh of renewable energy.

In 2016, Switch received Commission approval to purchase its energy, capacity and/or ancillary services from a provider of new electric services for its operations in both Utilities' service territories. Switch's 704B application was approved in Docket No. 16-09023. Switch began purchasing its energy from an alternative supplier beginning June 1, 2017. Although Switch is no longer a bundled customer, Switch will continue to purchase PCs from Switch Station 2 for the duration of the agreement.

Finally, Sierra received Commission approval in 2019 to enter into a NGR agreement with TMCC (Docket No. 19-05006). Under the agreement, Sierra will sell and TMCC will purchase 600 kPCs from Techren 1 per month under a three-year NGR agreement commencing December 1, 2019. Since Techren 1 is a Nevada Power facility, the NGR includes a companion sales agreement whereby Nevada Power will sell 600 kPCs per month to Sierra that it in turn will sell to TMCC. The 2019 agreement terminated in November 2022. In 2022, Nevada Power sold 6,600 kPCs to Sierra which were then sold and transferred to TMCC.

Table 4.7 in Section 4.12., Credit Sales, summarizes all credits committed by Sierra in 2022 under both Option 1 and Option 2 of the NGR tariffs.

4.3 2022 704B Agreements

In 2022 Sierra had no 704B credit obligations.

4.4 2022 Other Credit Obligations

In 2010, Sierra received authority to transfer control of the assets and operations comprising its California electric distribution system to California Pacific Electric Company, LLC (“CalPeco”), now Liberty Utilities (“Liberty”). As a result of this transfer, Sierra no longer has a California RPS obligation. Sierra has since entered into several supply agreements with Liberty which spelled out Sierra’s obligations to provide energy and capacity to Liberty. These agreements included an obligation on the part of Sierra to supply California eligible renewable energy credits to Liberty. The current agreement, dated August 21, 2020, covers the period December 30, 2020, through December 29, 2025. Under the terms of this agreement, Sierra will provide renewable energy credits to Liberty based on total megawatt hour sales, and whether Liberty added new renewable projects during the term of the agreement. The table below outlines Sierra’s obligation to provide Liberty with renewable energy credits per current supply agreement.

Table 4-2 Sierra’s Credit Obligation to Liberty

Renewable Percentage		
Year	Additional Projects	No Additional Projects
2021	5.0%	5.0%
2022	5.0%	5.0%
2023	16.0% (6 months)	16.0%
2024	0%	20.0%
2025	0%	24.0%

Under the current agreement, Sierra’s 2022 credit obligation to Liberty is five percent. This equates to 22,731 kPCs, and Sierra will transfer 22,731 kPCs to Liberty from California Energy Commission registered renewable generators.

4.5 2022 Compliance Outlook

Sierra’s compliance outlook is positive. This is an upgrade from 2021’s outlook of cautiously optimistic for three reasons: 1) two new large solar projects, Dodge Flat and Fish Springs Ranch, described earlier in this filing, declared commercial operation, 2) if the Commission approves the two geothermal PPAs pending in Docket No. 22-11032, it will place Sierra on solid path to meet its future credit and renewable energy needs, and 3) although no outlook is without risk, Sierra currently does not face the same degree of uncertainty as Nevada Power. Aside from Hot Pot and Iron Point being removed from the outlook, Sierra currently only has a single pipeline project at risk, Southern Big Horn Solar. Its two other pipeline projects, Moapa (Arrow Canyon) Solar and North Valley geothermal, are nearing commercial operation. Finally, while both utilities continue to focus on building a robust portfolio of renewable generation to meet a growing RPS and customer demand, Sierra has been especially successful in its efforts to replace generation lost to

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expiring PPAs.¹¹ Specifically, the approval of Ormat portfolio agreement as requested in Docket No. 22-11032 will go a long way in helping to backfill geothermal energy lost due to expiring geothermal PPAs.

In summary, while Sierra is currently positioned to meet its future credit commitments (RPS, NGR and ESA obligations), experience has shown that renewable projects, both operating and pipeline, are unpredictable. To this end, Sierra will continue explore all options, including continuing to issue renewable energy RFPs and exploring short-term purchase agreements that benefit customers, so that it can procure the renewable generating resources needed to continue its commitment to becoming carbon-free. To this end, the RPS is the floor.

4.6 2022 Surplus Credit Calculations

Table 4-3 below shows the calculation of the surplus credits required under Nevada Revised Statutes 704.7828. DSM credits, which are subject to limitations and likely have no value other than to Nevada Power and Sierra, were excluded. After this adjustment, Sierra will end 2022 with a surplus of 300,656 kPCs in excess of the 10 percent threshold of 231,028 kPCs, and no credits excess of the mandatory 25 percent marketing requirement. A decision whether to market the 300,656 kPCs in excess of 10 percentage threshold will be made in the current calendar year if the circumstances are favorable and the sale benefits our customers.

Table 4-3 Sierra 2022 Surplus Carry Forward Test

Surplus Non-DSM Credits		531,684
Surplus DSM Credits		<u>235,557</u>
Total Surplus Credits		767,241
Less DSM Credits		<u>235,557</u>
Surplus Unrestricted Credits		531,684
Estimated 2023 Credit Requirement		2,310,278
	10%	231,028
	25%	577,570
Credits in Excess of Thresholds	10%	300,656
	25%	0

¹¹ This does not imply that the Companies would rule out renewing existing agreements. Rather, it recognizes the uncertainty as to whether the resource and equipment are capable of supporting ongoing generation, and whether the Companies and the counterparty can come to terms on renewing the agreement. In 2022, three geothermal PPAs expired: Brady, Steamboat 2, and Steamboat 3.

4.7 2021 Surplus Marketing Efforts & Outcome

Nevada Revised Statute 704.7828 requires that if surplus credits from a given year exceed more than 10 percent but less than 25 percent of the amount of portfolio credits necessary to comply with the portfolio standard for the subsequent year, the provider may sell any credits in excess of 10 percent of the amount of portfolio energy credits necessary to comply with its portfolio standard for the subsequent year. The statute also states that if surplus credits from a given year exceed more than 25 percent of the amount of portfolio credits necessary to comply with the portfolio standard for the subsequent year, the provider shall use reasonable efforts to sell any credits in excess of the 25 percent of the amount of portfolio energy credits necessary to comply with its portfolio standard for the subsequent year.

Sierra ended 2021 with a surplus credit balance of 1,065,991 kPCs. This surplus balance is composed of non-solar, non-DSM credits, solar credits, and DSM credits. The table below shows the calculations the Company used to determine Sierra's excess credit balance to market under the statute.

Sierra chose not to include surplus DSM credits totaling 380,805 kPCs in the above calculation. This classification of credits is limited in use by statute, scheduled to be phased out, and cannot be used to meet RPS compliance in neighboring states. Sierra also may have a need for these credits before the ability use them expires after compliance year 2024.

Table 4-4 Sierra 2021 Surplus Carry Forward Test

Surplus Non-DSM Credits		685,186
Surplus DSM Credits		<u>380,805</u>
Total Surplus Credits		1,065,991
Less DSM Credits		<u>380,805</u>
Surplus Unrestricted Credits		685,186
Estimated 2022 Credit Requirement		2,207,861
(Per the 2021 Annual Compliance Filing)	10%	220,786
	25%	551,965
Credits in Excess of Thresholds	10%	464,400
	25%	133,221

Sierra issued a reverse RFP on September 13, 2022, to solicit offers from interested parties wishing to purchase unbundled PCs. The offer was issued to NV Energy's regular energy trading partners, renewable energy credit brokers, and its distribution only service ("DOS") customers. Appendix 5.6 is the copy of the offer including all terms and conditions and a breakdown of the 133,221 surplus credits offered up for sale by technology, state certification and vintage. Appendix 5.7 is a distribution list of recipients who received the offer. The Company received a total of three bids.

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Confidential Appendix 5.8 summarizes the bids received: the bidder, quantity requested, price offered per kPC, and any qualifiers (CEC eligible, Green-e® listed, etc.)

Sierra chose to not execute a sale agreement. The reason for this decision was uncertainty in the renewable project pipeline such that Sierra may need the credits. Although Sierra currently enjoys a credit surplus, until its pipeline projects all achieve operation, and the outcome of the two PPAs pending approval is known, it is not in Sierra's or its customer's best interest to sell credits in 2022 that could potentially be needed in the future. This is especially true given that the number of options to obtain Nevada RPS eligible replacement credits within the next three years is limited.

The following pages contain the reporting information required by Section 704.8879 of the Nevada Administrative Code for annual reporting by providers of electric service.¹² For convenience, Sierra has listed the specific requirements of the 2022 Annual Report as set forth in Clause (2) of NAC § 704.8879.

4.8 2022 Capacity

NAC § 704.8879(2)(a). The capacity of each renewable energy system owned, operated or controlled by the provider, the total number of kilowatt-hours generated by each such system during the most recently completed compliance year and the percentage of that total amount which was generated directly from renewable energy.

Table 4-5 Sierra 2022 Owned Renewable Energy Capacity

System Name	Capacity (kW)	2022 Generation (kWh)	2022 Credits (PCs)	% from Renewable Energy
Sierra Plaza PV	75	13,127	13,117	100%
Sierra Plaza Tracking PV	1	2,189	2,189	100%
Fort Churchill Solar Array ¹	19,500	25,911,491	25,911,491	100%
	19,576	25,926,807	25,926,797	100%

1. The Fort Churchill Solar Array was purchased from Apple in December 2021. The purchase was approved by the Commission in Docket No. 21-06001. The credits from the energy produced by the array are assigned to Apple under an NGR Option 2 agreement which was approved by the Commission in Docket No. 13-07005

4.9 2022 New Systems

NAC § 704.8879(2)(b). Whether, during the most recently completed compliance year, the provider began construction on, acquired or placed into operation any renewable energy system and, if so, the date of any such event.

The provider did not complete, nor did construction begin on any renewable energy system. No new renewable energy systems were acquired by the provider, and none were placed into operation by the provider.

¹² The annual report obligations are as set forth in NAC § 704.8879.

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4.10 2022 Retail Sales

NAC § 704.8879(2)(c). The total number of kilowatt-hours sold by the provider to its retail customers in this State during the most recently completed compliance year.

The total number of kilowatt-hours sold by Sierra in 2022 to its bundled, retail customers was 8,751,393,000. This total includes bundled retail sales sold under a Commission approved NGR tariff where the credits are either transferred to the customer or retired on behalf of the customer above and separately from the RPS. After adjusting for the NGR sales and Sierra's adjusted retail sales, the basis for calculating the RPS credit requirement was 7,852,075,000 kilowatt hours.

4.11 2022 RPS Compliance Total and Summary of RPS Sources

NAC § 704.8879(2)(d). The total number of kilowatt-hours that the provider generated, acquired or saved from portfolio energy systems or efficiency measures during the most recently completed compliance year and, from that total number of kilowatt-hours, subtotals for the number of kilowatt-hours: (1) generated or saved by the provider from its own portfolio energy systems or efficiency measures; (2) acquired by the provider pursuant to long-term portfolio energy credits contracts; (3) acquired by the provider pursuant to long-term renewable energy contracts; (4) acquired by the provider pursuant to short-term portfolio energy credits contracts; (5) acquired by the provider pursuant to short-term renewable energy contracts; (6) acquired or saved by the provider pursuant to energy efficiency contracts; (7) attributable to the provider from solar thermal systems; (8) fed back to the provider from net metering systems used by customer-generators pursuant to NRS § 704.766 to 704.775, inclusive; (9) carried forward by the provider from previous compliance years; and (10) saved by the provider as a result of energy efficiency measures installed at service locations of residential customers of the provider for the purposes of paragraph (b) of subsection 2 of NRS § 704.7821.

Table 4-6 Sierra 2022 Summary of RPS Sources

	kWh¹ (in 000)
1. Generated or saved from owned portfolio energy systems or efficiency measures	15
2. Acquired pursuant to long-term portfolio energy credit contracts	9,340
3. Acquired pursuant to long-term renewable energy contracts	1,705,882
4. Acquired pursuant to short-term portfolio energy credit contracts	25,525
5. Acquired pursuant to short-term renewable energy contracts	0
6. Acquired or saved pursuant to energy efficiency contracts	-- ²
7. Attributable to the provider from solar thermal systems	34,657

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8. Fed back to the provider from net metering systems used by customers	120,470
9. Carried forward from previous compliance years ³	685,187
10. Saved from energy efficiency measures ⁴	227,710
	2,808,786

Notes to Table 4-6:

1. 1 kWh = 1 PC, 1,000 kWh (1 MWh) = 1 kPC, totals reflect the solar distributed generation multiplier where applicable.
2. Amount is included in Row 10.
3. The 685,187 kPC value excludes DSM credits carried forward from 2021, 380,805 kPCs.
4. Amount reflects allowable 10% cap, does not include the 2022 carry forward of 235,557 excess DSM kPCs to 2023 as shown in Appendix 5.2.

4.12 2022 Credit Sales

NAC § 704.8879(2)(e). The total number of kilowatt-hours that the provider: (1) sold as a result of customer participation in a voluntary option to purchase all or a portion of the customer's energy from renewable resources; and (2) sold pursuant to paragraphs (b) and (c) of subsection 2 of NRS § 704.7828.

Table 4-7 Sierra 2022 Voluntary and Excess Credit Sales

Type of Sale	Total kWh / PCs Sold
Kilowatt-hours sold under a Nevada GreenEnergy Rider Option 1 or 2 agreement. ¹	1,102,055,491
Kilowatt-hours sold in excess of 10 percent but less than 25 percent of the amount of portfolio energy credits necessary to comply with the subsequent calendar year	0
Kilowatt-hours sold in excess of 25 percent of the amount of portfolio energy credits necessary to comply with the subsequent calendar year	0

Notes to Table 4-7:

- NGR Option 2, Apple, Fort Churchill, Docket No. 13-07005 25,911,491 PCs
- NGR Option 2, Apple, Boulder Solar II, Docket No. 15-11025 131,101,000 PCs
- NGR Option 2, Apple, Techren 2, Docket No. 17-02008 560,408,000 PCs
- NGR Option 2, Apple, Turquoise, Docket No. 17-11002 112,268,000 PCs
- NGR Option 2, Switch, Switch Station II, Docket No. 15-11025 202,738,000 PCs
- NPC Option 2, TMCC, Techren 1, Docket No. 19-05006 6,600,000 PCs
- NGR Option 1, Northern NV Green Energy Choice 63,029,000 PCs

The Switch PCs, 202,738,000, are not included in Sierra's 2022 retail sales adjustment as Switch is not a fully bundled customer.

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4.13 2022 Carry Forwards

NAC § 704.8879(2)(f). The total number of kilowatt-hours that the provider intends to carry forward from the most recently completed compliance year.

Table 4-8 2022 Sierra Carry Forward

Surpluses	Vintage	kPCs ¹	kPCs ¹	kPCs
		Non-DSM	DSM ³	Total
1 Carried forward as excess from the previous compliance years ² ;	2018	0	76,006	76,006
	2019	0	103,376	103,376
	2020	0	106,325	106,325
	2021	685,186	95,098	780,284
	Total	685,186	380,805	1,065,991
2 Intends to carry forward as excess from the most recently completed compliance year;	2022	531,684	82,461	614,145
	Total	531,684	82,461	614,145
3 Intends to carry forward as excess from the previous compliance years;	2020		57,998	0
	2021		95,098	95,098
	Total	0	153,095	95,098
	Total	531,684	235,557	767,241
Deficiencies				
4 Carried forward as deficiencies from the previous compliance years;			Not applicable	
5 Intends to carry forward as a deficiencies from the most recently completed compliance year; and			Not applicable	
6 Intends to carry forward as deficiencies from previous compliance years			Not applicable	

1 1 kPC = 1,000 kWh or 1,000 kPC

2 Reference Docket No. 22-04016 (685,186,000 non-Demand Side Management portfolio credits and 380,805,000 Demand Side Managemnt portfolio credits)

3 2022 DSM carry forward includes credits derived from the 2022 verification and measurement (M&V) reports which were approved in 2022

4.14 2023 Estimated Retail Sales

NAC § 704.8879(2)(g). The estimated number of kilowatt-hours that the provider expects to sell to its retail customers in this State during the current compliance year.

The total number of kilowatt-hours expected to be sold by Sierra in 2023 is estimated to be 8,970,482,000. This estimate includes sales to NGR customers but excludes sales to DOS customers who have received Commission approval to purchase their energy from an alternative

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supplier. 2023 bundled sales under a Commission approved NGR tariff are estimated to be 1,004,005 kWh.¹³

4.15 2023 Estimated Credit Requirement

NAC § 704.8879(2)(h). The estimated number of kilowatt-hours that the provider must generate, acquire or save from portfolio energy systems or efficiency measures to comply with its portfolio standard for the current compliance year, as calculated by the provider pursuant to NAC § 704.8877.

Table 4-9 Sierra 2023 Estimated RPS Credit Requirement

	kWh
Estimated 2023 Bundled Retail Sales ¹	8,970,482,000
Less Estimated Bundled Retail Sales under a Commission Approved Green Tariff ²	(1,004,005,000)
Estimated Retail Sales Subject to the RPS	7,966,477,000
29% RPS Requirement	2,310,278,000
10% DSM Allowance	231,028,000

Notes to Table 4-9:

1. 2023 Estimated Bundled Retail Sales

2. 2019 Nevada Senate Bill 358 allows utilities to exclude the PCs associated with bundled retail sales subject to a Commission-approved green tariff where the renewable energy credits are either transferred to or retired on behalf of the customer and are not applied towards the annual RPS requirement

4.16 2023 Estimated Costs

NAC § 704.8879(2)(i). If the provider is a utility provider, the estimated costs for the utility provider to comply with its portfolio standard for the current compliance year. If appropriate, the utility provider must report such estimated costs for each major type of cost, such as general and administrative costs and costs for purchased power.

Table 4-10 Sierra 2023 Estimated RPS Compliance Costs

<u>Renewable Energy</u>	\$
Purchase Power and PC Expenditures	\$118,139,000
Company-Development	2,561,000

¹³ Joint Integrated Resource Plan Fourth Amendment, base retail sales forecast, reference Docket No. 22-11032.

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General & Administrative Expenditures	1,317,000
Company-Owned O&M	511,000
	\$122,528,000

Notes to Table 4-10:

Excludes: (1) Ancillary department costs such as legal, contract administration, transmission & accounting, which are not exclusively dedicated to renewable activities; and (2) costs which are included in general rates from prior rate cases.

Excludes: 2023 estimated DR and DSM program expenditures. Credits derived from post-2020 programs can no longer be used towards RPS compliance.

4.17 2022 Affirmative Showing of RPS Compliance

Per Section 704.8879(3) of the Nevada Administrative Code, Sierra must make an affirmative showing that it complied with its portfolio standard during the most recently completed compliance year.

As described herein, Sierra exceeded the RPS credit requirements (29 percent of retail sales) for the calendar year ending 2022 with 35.8 percent of retail sales met by RPS-eligible resources.

Table 4-11 Sierra 2022 RPS Compliance Summary

	kPCs ¹
<u>Overall RPS Summary</u>	
Total Credits	2,808,786
29% RPS Requirement ²	2,277,102
Cumulative RPS Position (+/-) ³	531,684

Notes to Table 4-11:

¹ 1 kWh = 1 PC, 1,000 kWh (1 MWh) = 1 kPC

² Based on 2022 bundled retail sales of 8,751,393 MWh less the 899,317 kPCs associated with PUCN-approved, bundled NGR sales

The 531,684 kPCs surplus total excludes 2022 surplus DSM credits totaling 235,557 kPCs

Additional detail for 2022 and projected estimates for 2023 and the plan period of 2024 through 2026, including a breakdown by renewable facility, are provided in Appendix 5.2 of this report.

4.18 2022 Attestations

Since Sierra acquired kilowatt-hours from renewable energy systems that are not owned, operated or controlled by it to comply with its portfolio standard during 2021, NAC § 704.8879(4) requires Sierra to provide separate attestations from the owner or operator of the renewable energy system that the energy represented by those kilowatt-hours: (a) has not been and will not be sold or otherwise exchanged for compensation or used for credit in any other state or jurisdiction; and (b)

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has not been and will not be included within a blended energy product certified to include a fixed percentage of renewable energy in any other state or jurisdiction. These individual attestations and a summary table of the attestations are provided in Appendix 5.3.

4.19 2022 DSM Contribution

The Commission's Order in Docket No. 21-04019 authorized Sierra to carry forward 388,860 pre-2020 DSM kPCs. Calendar year 2022 yielded an additional 82,461 DSM derived kPCs (reference Appendix 5.6. for details). Collectively, the two totals will provide more than enough PCs to fill the 10 percent of credits from efficiency measures that is allowable to meet the current year's RPS credit standard. DSM credits available for 2022 compliance that are excess of the ten percent limit will be banked and applied towards Sierra's 2023 compliance.

In this filing, like in last year's filing, the Company is requesting to discontinue the practice of delaying the certification and use of DSM credits from the previous calendar. The reason for this request is twofold. First, only DSM credits from pre-2020 efficiency programs can qualify for certification. The various efficiency programs outlined in Appendix 5.6. have already been vetted, so there are no new programs to review. Second, actual retail sales for 2022 are known. Staff has the information needed to confirm the number of DSM derived credits generated during calendar year 2022 without having to delay the process until 2023.

Eliminating what amounts to a one-year delay in certification provides Sierra with the additional DSM credits its needs fully fund the maximum ten percent DSM RPS contribution through 2023. Although Sierra is still forecasted to fall short of the ten percent cap in 2024, the size of the shortfall would be significantly reduced. If the Company were to continue the practice of deferring certification by two years, the 2024 RECs would not be confirmed until 2025 which is one year past expiration.

DSM derived credits come from programs that were funded by Sierra's customers, and the objective is to extract the maximum benefit from the programs which includes the use of the derived credits. Any DSM shortfall would need to be filled with non-DSM credits. Non-DSM credits have a higher value. They do not have RPS use restrictions; they can be used towards green tariffs; and they can be marketed and sold to other parties with the proceeds benefiting Sierra's customers.

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5. Appendix

5.1 NEVADA POWER 2022 ACTUAL AND 2023-2026 OUTLOOK

Nevada Power	Actual	Projected ^a				
	2022	2023	2024	2025	2026	
Bundled Retail Sales (MWhs)						
The PCs Associated with Optional Green Tariff Retail Sales	21,025,235	21,176,446	21,608,171	21,963,555	22,173,512	
NGR Option 1 (Commercial & Residential) Green Tariff Sales	b. (20,999)	(116,256)	(185,898)	(185,898)	(185,898)	
Commission Approved NGR Option 2 & ESA Green Tariff Sales	b. (46,650)	(322,549)	(514,426)	(514,426)	(514,426)	
Adjusted Retail Sales	20,957,586	20,737,641	20,907,847	21,263,231	21,473,188	
RPS %	29%	29%	34%	34%	34%	
Total RPS Credit Requirement	6,077,700	6,013,916	7,108,668	7,229,499	7,300,884	
Maximum DSM Allowance, 10% 2020-2024	607,770	601,392	710,867	0	0	
Geothermal						
Desert Peak 2, Net	88,378	94,281	90,528	88,803	88,803	
Desert Peak 2, SU	32,272	9,597	9,445	9,012	9,012	
Faulkner 1, Net	210,338	219,032	219,032	219,032	219,032	
Faulkner 1, SU	103,454	34,702	34,702	34,702	34,702	
Jersey Valley, Net	63,084	64,713	64,713	64,713	64,713	
Jersey Valley, SU	39,288	14,529	14,529	14,529	14,529	
McGinness Hills, Net	665,051	641,697	641,697	641,697	641,697	
McGinness Hills, SU	153,122	110,692	110,692	110,692	110,692	
Salt Wells, Net	84,514	71,302	73,507	75,780	75,780	
Salt Wells, SU	33,121	21,238	21,238	21,238	21,238	
Stillwater II, Net	115,841	137,169	133,054	129,062	129,062	
Stillwater II, SU	42,361	78,214	74,099	74,099	74,099	
Tuscarora, Net	130,887	127,397	127,397	127,397	127,397	
Tuscarora, SU	60,953	24,271	24,271	24,271	24,271	
Misc. Credit Purchases & Credits in lue of Payment	0	0	0	0	0	
2009 Ormat SPPC/NPC PC Transfer Agreement	c. 19,710	19,710	19,710	19,710	19,710	
	1,842,374	1,668,544	1,658,614	1,654,738	1,654,738	
Solar						
Nevada Solar One, Net	63,024	68,021	68,021	68,021	68,021	
Nevada Solar One, SU	10,622	8,970	8,970	8,970	8,970	
Tonopah Solar, Net Short-Term	100,682	176,890	140,290	0	0	
Tonopah Solar, SU Short-Term	51,970	0	0	0	0	
Apex Solar, Net	51,625	51,770	51,770	51,770	51,770	
Apex Solar, SU	211	200	200	200	200	
Boulder Solar I	267,670	282,833	282,126	281,421	280,717	
Boulder Solar III	0	0	11,547	376,973	375,021	
Chuckwalla Solar	0	27,110	589,837	587,960	586,083	
Copper Mountain 5	671,032	709,457	705,874	702,290	698,707	
Dry Lake	0	0	433,091	431,596	430,101	
Eagle Shadow Mountain Solar	734,561	879,888	452,215	920,140	917,371	
Gemini Solar (REC allocation 40% SPPC/60% NPC)	0	0	916,181	1,304,628	1,296,345	
Moapa (Arrow Canyon) Solar Energy/REC allocation 70% SPPC, 30% NPC	d. 25,814	202,761	202,142	201,522	200,902	
Mountain View Solar, Net	54,625	52,840	52,840	52,840	52,840	
Mountain View Solar, SU	442	2,200	2,200	2,200	2,200	
Nellis Solar II, Net	38,365	39,638	39,533	39,428	39,323	
Nellis Solar II Multiplier Credits (1.4x)	53,711	55,493	55,346	55,199	55,052	
Searchlight Solar, Net	48,142	47,509	47,509	47,509	47,509	
Silver State Solar, Net	117,099	116,934	116,934	116,934	116,934	
Silver State Solar, SU	2,540	2,633	2,633	2,633	2,633	
Southern Bighorn Solar (60%)	0	173,791	608,262	606,400	604,537	
Spectrum, Net	83,983	83,520	83,520	83,520	83,520	
Spectrum, SU	313	314	314	314	314	

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Table 5.1 Nevada Power Summary Table-Continued

	Actual	Projected ^a			
	2022	2023	2024	2025	2026
Nevada Power					
Stillwater 2 Solar, Net	44,795	41,159	41,159	41,159	41,159
Stillwater 2 Solar, SU	60,921	57,623	57,623	57,623	57,623
Techren Solar I	216,065	234,822	234,822	234,822	234,822
Techren Solar III	66,997	71,754	71,538	71,321	71,104
Techren Solar V	134,362	138,765	138,346	137,927	137,509
Nellis AFB Solar Star	48,744	68,045	67,705	67,366	67,029
PowerLight - LVWD	8,268	11,631	11,573	11,515	11,515
	2,956,584	3,606,571	5,494,120	6,564,201	6,539,832
Landfill Gas:					
CC Landfill Energy, Net	29,526	29,464	29,464	29,464	29,464
CC Landfill Energy, SU	8,387	7,570	7,570	7,570	7,570
Lockwood, Net	19,671	21,741	21,741	21,741	21,741
Lockwood, SU	842	1,217	1,217	1,217	1,217
	58,426	59,993	59,993	59,993	59,993
Waste Heat					
Goodsprings (NVE Owned), Net	30,816	27,365	27,365	27,365	27,365
Goodsprings (NVE Owned), SU	5,648	5,473	5,473	5,473	5,473
	36,465	32,838	32,838	32,838	32,838
Wind					
Spring Valley Project, Net	317,286	346,500	346,500	346,500	346,500
Spring Valley Project, SU	6,346	6,800	6,800	6,800	6,800
	323,632	353,300	353,300	353,300	353,300
Hydro					
Hoover	350,132	327,223	327,223	327,223	327,223
	350,132	327,223	327,223	327,223	327,223
NVE Owned Small Systems					
	851	14	14	14	14
Net Metered (RenewableGenerations)					
Solar - South	640,645	637,795	634,606	631,433	628,276
Non-Solar - South	3	0	0	0	0
	640,648	637,795	634,606	631,433	628,276
Net Metered (Advanced Building Techniques)					
Solar - South	1,651	665	665	665	665
NON-DSM CREDIT SUMMARY					
Prior Year Carry Forward Credits	e. 1,273,682	1,688,803	2,429,804	3,884,400	5,570,431
Geothermal	1,842,374	1,668,544	1,658,614	1,654,738	1,654,738
Solar	2,956,584	3,606,571	5,494,120	6,564,201	6,539,832
Biomass/Methane	58,426	59,993	59,993	59,993	59,993
Hydro	350,132	327,223	327,223	327,223	327,223
Waste Heat Recovery	36,465	32,838	32,838	32,838	32,838
NVE Owned Small Systems	851	14	14	14	14
Wind	323,632	353,300	353,300	353,300	353,300
Net Metered (RenewablesGenerations) & ABT	642,299	638,460	635,271	632,098	628,941
Less Non-RPS Credit Commitments	g. (325,712)	(533,419)	(708,976)	(708,876)	(700,648)
Total Non-Solar, Non-DSM PCs	7,158,733	7,842,328	10,282,201	12,799,930	14,466,661

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Table 5.1 Nevada Power Summary Table-Continued

		Actual	Projected ^a			
		2022	2023	2024	2025	2026
Nevada Power						
DSM						
Prior Year Carry Forward	e.	5,214,620	5,154,637	4,953,437	0	0
DSM credits approved in current year for prior year	h.	547,788	400,192	0	0	0
Total DSM		5,762,407	5,554,829	4,953,437	0	0
DSM Cap		607,770	601,392	710,867	0	0
DSM Credits Applied Towards the Current Year RPS		607,770	601,392	710,867	0	0
Current Year DSM Surplus to be Carried Forward		5,154,637	4,953,437	4,242,570	0	0
COMPLIANCE SUMMARY						
CREDIT REQUIREMENT						
		6,077,700	6,013,916	7,108,668	7,229,499	7,300,884
OVERALL ELIGIBLE PCS						
Non-DSM		7,158,733	7,842,328	10,282,201	12,799,930	14,466,661
DSM		607,770	601,392	710,867	0	0
Total kPCs		7,766,503	8,443,720	10,993,068	12,799,930	14,466,661
NET SURPLUS / <Deficit>		1,688,803	2,429,804	3,884,400	5,570,431	7,165,777
Overall Surplus Credits:						
Non-DSM		1,688,803	2,429,804	3,884,400	5,570,431	7,165,777
DSM		5,154,637	4,953,437	4,242,570	0	0
Total Surplus Credits		6,843,440	7,383,241	8,126,970	5,570,431	7,165,777

- a. The 2023 to 2026 RPS credit requirement and credit supply forecasts are forward looking estimates. Retail sales are based on 2022 4th IRPA base retail sales outlook (Docket No. 22-11032). The actual credit requirement, credit supply, and the timing of new projects could vary significantly.
- b. The PCs associated with bundled retail sales under a Commission approved green tariff, NGR or ESA, whereby the portfolio energy credits are either transferred to or retired on behalf of a customer separately from the RPS. In 2019 Senate Bill 358 modified the RPS to exclude such sales in calculating the annual credit requirement. A revised NGR Option 1 tariff was approved by the Commission in Dockets 21-09018 (NPC) and 21-08019 (SPPC). The revised NGR Option tariff is now open to residential and non-residential customers of both utilities starting July 1, 2022.
- c. Per PUCN order 09-09018 (SPPC) and 09-08020 (NPC) credits from the expansion of certain Ormat facilities would be sold to NPC by SPPC based on a pre-negotiated schedule and price.
- d. Test energy (2022 & 2023 Q1-Q2). The company expects that the test energy produced by Moapa Arrow Canyon will be certified by WREGIS once the unit declares COD. Under the current WREGIS operating rules (Section 5.3.9), test energy up to 24 months prior to COD is eligible for certification provided that unit is approved by WREGIS within 75 days of the unit's COD.
- e. Authorized, pre-2022 credit balances rolled forwarded per PUCN order 22-04016: 1,273,682 non-Demand Side Management kPCs & 5,214,620 Demand-Side Management kPCs
- g. Credits transferred to 704B customers per the exit agreements, retired under the NGR Option 1 v2 tariff or transferred to a customer under an Energy Supply Agreement
- h. The exact number of 2023-2024 DSM credits is the subject of a separate and later filing. Only 2022 or older DSM credits will be applied against the current year's RPS credit requirement subject to all DSM credit limitations.

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5.2 SIERRA PACIFIC 2022 ACTUAL AND 2023-2026 OUTLOOK

	Actual	Projected ^a			
	2022	2023	2024	2025	2026
Sierra Pacific Power					
Bundled Retail Sales (MWhs)	8,751,393	8,970,482	9,308,816	9,596,795	9,851,290
The PCs Associated with Optional Green Tariff Retail Sales					
NGR Option 1 v1&v2 (Commercial & Residential) Tariff Sales	b. (63,029)	(162,942)	(200,266)	(200,266)	(200,266)
Commission Approved NGR Option 2 & ESA Green Tariff Sales	b. (836,288)	(841,063)	(838,566)	(838,362)	(833,577)
Adjusted Retail Sales	7,852,075	7,966,477	8,269,984	8,558,167	8,817,447
RPS %	29%	29%	34%	34%	34%
RPS Credit Requirement	2,277,102	2,310,278	2,811,794	2,909,777	2,997,932
Maximum DSM Allowance 10% 2022-2024	227,710	231,028	186,894	0	0
Geothermal					
Beowawe, Net	89,728	96,404	96,404	0	0
Beowawe, SU	22,001	8,322	8,322	0	0
Brady, Net (PPA terminated 7/31.23)	46,265	0	0	0	0
Galena 3, Net	98,911	100,855	100,855	101,131	100,855
Galena 3, SU	39,271	11,937	21,574	16,728	11,937
Richard Burdette, Net	115,387	118,566	120,470	111,130	118,566
Richard Burdette, SU	27,493	28,000	28,000	28,077	28,000
North Valley, Net	0	156,456	216,951	216,458	214,782
North Valley, SU	0	23,500	32,500	32,489	32,200
Ormat Bundled, Net (8 units, staggered COD)	0	0	0	175,671	306,412
Ormat Bundled, SU (8 units, staggered COD)	0	0	0	26,372	46,000
San Emidio, Net	85,671	87,829	87,829	88,070	87,829
San Emidio, SU	29,890	15,549	15,549	15,592	15,549
Steamboat II, Net (PPA terminated 12/18/23)	42,214	0	0	0	0
Steamboat III, Net (PPA terminated 12/18/23)	42,054	0	0	0	0
Valmy Geothermal (phased COD)	0	0	0	15,246	92,223
Misc. Credit Purchases & Credits in lue of Payment	25,525	0	0	0	0
2009 Ormat SPPC/NPC PC Transfer Agreement	(19,710)	(19,710)	(19,710)	(19,710)	(19,710)
	644,699	627,709	708,745	807,253	1,034,643
Solar					
Nevada Solar One, Net	29,658	32,009	32,009	32,097	32,009
Nevada Solar One, SU	4,999	4,220	4,220	4,232	4,220
Battle Mountain	269,794	289,840	288,725	288,398	286,495
Dodge Flat	498,189	566,891	564,020	562,685	558,277
Fish Springs Ranch	226,953	266,924	265,571	264,941	262,864
Gemini Solar (REC allocation 40% SPPC/60% NPC)	0	0	610,787	869,752	864,230
Moapa (Arrow Canyon) Solar Energy/REC allocation 70% SPPC, 30% NPC	c. 60,233	473,110	471,664	471,506	468,772
Southern Bighorn (Energy/REC allocation 40% SPPC, 60% NPC)	0	115,861	405,508	405,374	403,025
Techren Solar 1 (transferred from Nevada Power)	6,600	0	0	0	0
Techren Solar 4	64,421	66,058	66,058	66,238	66,058
Misc. Credit Purchases & Credit Transfers					
	1,160,847	1,814,913	2,708,562	2,965,224	2,945,949
Biomass/Biogas					
City of Sparks/TMWW (Credit Only)	9,340	9,159	8,692	0	0
	9,340	9,159	8,692	0	0
Hydro					
Fleish, Net	17,676	16,812	16,812	16,858	16,812
Verdi, Net	15,111	14,340	14,340	14,379	14,340
Washoe, Net	9,830	5,439	5,439	5,454	5,439
TCID New Lahontan, Net	10,260	10,260	10,260	5,369	0
	52,877	46,851	46,851	42,060	36,591
NVE Owned Small Systems					
	15	2	2	2	2

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Table 5.2 Sierra Pacific Power Summary Table-Continued

		Actual	Projected ^a			
		2022	2023	2024	2025	2026
Sierra Pacific Power						
Net Metered (RenewableGenerations)						
Solar - North		120,239	119,400	119,997	119,397	118,800
Non-Solar - North		232	443	443	443	443
		120,471	119,843	120,440	119,840	119,243
NON-DSM CREDIT SUMMARY						
Prior Year Surplus Carry Forward Credits	d.	685,187	531,684	813,068	1,461,974	2,142,532
Geothermal		644,699	627,709	708,745	807,253	1,034,643
Solar		1,160,847	1,814,913	2,708,562	2,965,224	2,945,949
Biomass/Methane		9,340	9,159	8,692	0	0
Hydro		52,877	46,851	46,851	42,060	36,591
NVE Owned Small Systems		15	2	2	2	2
Net Metered (RenewablesGenerations)		120,471	119,843	120,440	119,840	119,243
Less Non-DSM, Non-RPS Credit Commitments & Credit Sales	e.	(92,360)	(257,843)	(319,485)	(344,044)	(200,266)
Total Non-Solar PCs		2,581,076	2,892,318	4,086,874	5,052,309	6,078,694
DSM						
Prior Year Carry Forward	d.	380,805	235,557	115,906	0	0
DSM credits approved in current year for prior years	f.	82,461	111,377	70,988	0	0
Total DSM		463,267	346,934	186,894	0	0
The lower of the DSM Cap or the avaiable balance		227,710	231,028	186,894	0	0
DSM Credits Applied Towards the Current Year RPS		227,710	231,028	186,894	0	0
Current Year DSM Surplus to be Carried Forward		235,557	115,906	0	0	0
COMPLIANCE SUMMARY:						
CREDIT REQUIREMENT		2,277,102	2,310,278	2,811,794	2,909,777	2,997,932
OVERALL ELIGIBLE PCS						
Non-DSM		2,581,076	2,892,318	4,086,874	5,052,309	6,078,694
DSM		227,710	231,028	186,894	0	0
Total kPCs		2,808,786	3,123,346	4,273,768	5,052,309	6,078,694
NET SURPLUS / <Deficit>		531,684	813,068	1,461,974	2,142,532	3,080,762
Overall Surplus Credits:						
Non-DSM		531,684	813,068	1,461,974	2,142,532	3,080,762
DSM		235,557	115,906	0	0	0
Total Surplus Credits		767,241	928,974	1,461,974	2,142,532	3,080,762
Net kPCs Carried Forward		767,241	928,974	1,461,974	2,142,532	3,080,762

- The 2023 to 2026 RPS credit requirement and credit supply forecasts are forward looking estimates. Retail sales are based on 2022 4th IRPA base retail sales outlook (Docket No. 22-11032). The actual credit requirement, credit supply, and the timing of new projects could vary significantly. The above list excludes customer-dedicated Nevada GreenRider Tariff projects where the credits and other renewable attributes are fully assigned to the customer. In the case of Sierra, such agreements include Boulder Solar 2, Fort Churchill Solar Array, Techren II Solar, and Turquoise Nevada Solar.
- a. The PCs associated with bundled retail sales under a Commission approved green tariff, NGR or ESA, whereby the portfolio energy credits are either transferred to or retired on behalf of a customer separately from the RPS. In 2019 Senate Bill 358 modified the RPS to exclude such sales in calculating the annual credit requirement. A revised NGR Option 1 tariff was approved by the Commission in Dockets 21-09018 (NPC) and 21-08019 (SPPC). The revised NGR Option tariff is open to residential and non-residential customers of both utilities starting July 1, 2022. Customers can apply during the annual opened enrollment period.
- b. Test energy (2022 & 2023 Q1-Q2). The company expects that the test energy produced by Moapa Arrow Canyon will be certified by WREGIS once the unit declares COD.
- c. Under the current WREGIS operating rules (Section 5.3.9), test energy up to 24 months prior to COD is eligible for certification provided that unit is approved by WREGIS within 75 days of the unit's COD.
- d. Authorized, pre-2021 credit balances rolled forwarded per PUCN order 22-04016 (685,186 non-demand-side kPCs and 380,805 demand-side management kPCs).
- e. kPCs transferred or retired separate from the RPS under an service agreement (Liberty Energy) and/or an NGR tariff.
- f. The exact number of 2023-2024 DSM credits is the subject of a separate and later filing. Only 2022 or older DSM credits will be applied against the current year's RPS credit requirement subject to all DSM credit limitations.

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5.3 2022 ATTESTATIONS

Nevada Power & Sierra Pacific Power Purchase Power Agreements

Owner	Facilities	Attestation Returned?
ACE Searchlight Solar, LLC c/o D.E. Shaw Renewable Investments, LLC	Searchlight Solar	Yes
Acciona Energy North America	Nevada Solar One	Yes
Nexterra Energy Resources, LLC	Mountain View Solar	Yes
Nexterra Energy Resources, LLC	Dodge Flat & Fish Springs Ranch	Yes
City of Sparks - TMWRF	Truckee Meadows Waste Water Facility	Yes
Spring Valley Wind LLC c/o Pattern Energy Group LP	Spring Valley Wind	Yes
SunPower Corporation, Systems	Fort Apache, Grand Canyon, Luce, Ronzone, Spring Mountain & Spring Preserve	Yes
Solar Star Management Terraform Power	Solar Star, NAFB	Yes
Omat Nevada, Inc	Beowawe, Brady (Jan 1 - July 31), Desert Peak 2, Galena 3, Jersey Valley, McGinness Hills 1 & 2, Richard Burdette, Steamboats 2 & 3 (Jan 1 to Dec.18), Tuscarora, & San Emidio	Yes
Truckee Meadows Water Authority	Washoe, Verdi, & Fleish	Yes
Truckee Carson Irrigation District	New Lahontan	Yes
NGP Blue Mountain I LLC	NGP Blue Mountain I LLC	Yes
Enel Stillwater, LLC & Enel Salt Wells, LLC	Salt Wells, Stillwater Geothermal & Stillwater PV	Yes
Enbridge Energy Company Inc.	Silver State Solar Power North, LLC	Yes
Republic Services Renewable Energy, LLC	Apex LF Renewable Energy Generating Facility (CC Landfill)	Yes
WM Nevada Renewable Energy, LLC	WMNRE - Lockwood	Yes
Southern Power Company	RV Apex Solar, FRV Spectrum, Boulder Solar I	Yes
EDF Renewable Energy, Inc.	Switch Station 1, Switch Station 2 (the credits generated from these facilities are dedicated to Switch, Inc. under an NV GreenEnergy Rider Agreement)	Yes
Clenera Renewable Energy	Techren Solar 1, 2, 3, 4 & 5	Yes
Colorado River Commission	Nevada Power's 2020 share of Hoover's Net Generation	Yes
Turquoise Nevada LLC c/o Greenbacker Renewable Energy Corp.	Turquoise Nevada	Yes
American Electrical Power	Boulder Solar II	Yes
Copper Mountain Solar 5, LLC / Consolidated Edison, Inc.	Copper Mountain 5	Yes
Battle Mountain SP, LLC / Consolidated Edison Development, Inc.	Battle Mountain	Yes
Arevon Energy, Inc.	Eagle Shadow Mountain	Yes
Tonopah Solar Energy	Tonopah Crescent Dunes Solar	Yes
Arrow Canyon Solar, LLC EDF Renewables, Inc.	Moapa Arrow Canyon Solar	Yes

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2022 Annual Renewable Energy Portfolio Credit Attestation Request

The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

- a.) Has not been and will not be sold or otherwise exchanged for compensation or used in any other state or jurisdiction; and
- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Nevada Solar One

Olivia Giacomelli

Signature

Olivia Giacomelli

Name

Nevada Solar One

Company Name

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2022 Annual Renewable Energy Portfolio Credit Attestation Request

The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

- a.) Has not been and will not be sold or otherwise exchanged for compensation or used in any other state or jurisdiction; and
- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Mountain View Solar

A handwritten signature in black ink, appearing to read "Amanda Merlino", written over a horizontal line.

Signature

Amanda Merlino

Name

Mountain View Solar

Company Name

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The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

- a.) Has not been and will not be sold or otherwise exchanged for compensation or used in any other state or jurisdiction; and
- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Dodge Flat, Fish Springs Ranch

A handwritten signature in black ink, appearing to read 'A. Merlino', written over a horizontal line.

Signature

Amanda Merlino

Name

Dodge Flat and Fish Springs Ranch

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

Truckee Meadows Waste Water Facility

A handwritten signature in black ink, appearing to read "Michael A. Driskater", written over a horizontal line.

Signature

Michael A. Driskater

Name

CITY of Sparks - TRUCKEE MEADOWS WATER RECLAMATION FACILITY

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Spring Valley Wind

A handwritten signature in black ink that reads 'Rita Brady'.

Signature

Rita Brady, Director, Asset Management, Pattern Energy

Name

Spring Valley Wind LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: A6B01009-5D78-479C-9C3E-C3025DC84551



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Fort Apache, Grand Canyon, Luce, Ronzone, Spring Mountain & Spring Preserve

DocuSigned by:

Frederic A Potts III

3/13/2023

AB34CB3CB43M485

Signature

Date

Frederic A Potts, III

TotalEnergies Distributed Generation USA

¹ Requirement is per NAC § 704.8879(4), Annual Reports

P.O. Box 98910, Pearson, 3rd Floor, MS 29, Las Vegas, NV 89151-0001

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

Solar Star, NAFB

A handwritten signature in black ink, appearing to read "SSG", written over a horizontal line.

Signature

Stephen Gallagher, Chief Commercial Officer

Name

Solar Star NAFB, LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

Beowawe, Brady (Jan-July only), Desert Peak 2, Galena 3, Jersey Valley, McGinness Hills 1 & 2, Richard Burdette, Steamboats 2 & 3 (Jan-Nov only), Tuscarora, & San Emidio

A handwritten signature in cursive script that reads "Jeannie Hudson".

Signature

Jeannie Hudson

Name

Ormat Nevada, Inc.

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

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Facility (s):

Washoe, Verdi, & Fleish

Ryan Dixon

Signature

Ryan Dixon

Name

Truckee Meadows Water Authority

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

New Lahontan

A handwritten signature in black ink, appearing to read "Ben Shawcroft", written over a horizontal line.

Signature

Ben Shawcroft, General Manager

Name

Truckee-Carson Irrigation District

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



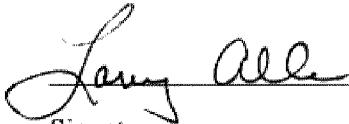
2022 Annual Renewable Energy Portfolio Credit Attestation Request


The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

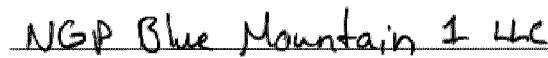
- a.) Has not been and will not be sold or otherwise exchanged for compensation or used in any other state or jurisdiction; and
- b.) Has not been and will not be included within a blended product certified to include a fixed percentage of renewable energy in any other state or jurisdiction.

Facility (s):

NGP Blue Mountain I LLC (Faulkner 1 Power Plant)


Signature


Name


Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

The renewable energy and associated portfolio energy credits produced at the facility(s) listed below in calendar year 2022 and transfer to Sierra Pacific Power Company/Nevada Power Company¹:

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Facility (s):

Salt Wells, Stillwater Geothermal & Stillwater PV

Signature

Roberto Rosner

Signed by ROBERTO
ROSNER
on 10/01/2023 at
19:27:58 CET
Enel North America,
Inc.

Name

Company Name

¹ Requirement is per NAC § 704.8879(4), Annual Reports

P.O. Box 98910, Pearson, 3rd Floor, MS 29, Las Vegas, NV 89151-0001

Initials of
SHIPLEY, SUZSA
at 14:04:32 EST

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

Silver State Solar Power North, LLC

A handwritten signature in black ink, appearing to read "K. Hurd", written over a horizontal line.

Signature

Kyle Hurd

Name

Enbridge

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

Apex LF Renewable Energy Generating Facility (CC Landfill)

David Vossmer

Signature

David Vossmer-General Manager

Name

Republic Services Renewable Energy LLC.

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: D1E0E542-6FBF-4529-9600-426333600A34



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

WMNRE - Lockwood

DocuSigned by:
Paul Hesson
54F8E01C1A84D9

Signature

Paul Hesson

Name

WM Nevada Renewable Energy, L.L.C.

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

RV Apex Solar, FRV Spectrum, Boulder Solar I

A handwritten signature in black ink, appearing to read "Thomas E. Schmaeling", written over a horizontal line.

Signature

Thomas E. Schmaeling

Name

Southern Power Company

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

Switch Station 1, Switch Station 2 (the credits generated from these facilities are dedicated to Switch, Inc. under an NV GreenEnergy Rider Agreement)

Signature *Matt Guernsey*

Name Matt Guernsey

Company Name Playa Solar 1 (Switch Station 2), Playa Solar 2 (Switch Station 1)

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: 9F0E98D9-48C2-4254-90BC-3014AA1F912C



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Facility (s):	Techren Solar I LLC
	Techren Solar II LLC
	Techren Solar III LLC
Techren Solar 1, 2, 3, 4 & 5	Techren Solar IV LLC
	Techren Solar V LLC

DocuSigned by:
Samuel Menco
D0E7F01769A9A424...

Signature

Samuel Menco, Senior Vice President

Name

Global Atlantic Financial Company

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

Nevada Power's share of Hoover's 2022 Net Generation

Gail A. Bates

Signature

Gail A. Bates

Name

Colorado River Commission of Nevada

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: AF4EC99C-0D2D-4780-AAD2-ED3E2985438C



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Facility (s):

Turquoise Nevada

DocuSigned by:
Matt Murphy
A23E3CC4FDE1488...

Signature

Matt Murphy - Authorized Signature

Name

Turquoise Nevada LLC by Turquoise Holdings LLC., its Manager

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



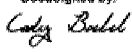
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Facility (s):

Boulder Solar II

DocuSigned by:

9299A8A9017B42F...

Signature

Cody Boebel

Name

Boulder Solar II LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: A5D4D3CE-C2E8-46C5-B83F-2330A933B564



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Facility (s):

Copper Mountain 5

DocuSigned by:
Kimberly Pisaneschi
101CD5EF00FF425

Signature

Kimberly Pisaneschi

Name

Copper Mountain Solar 5, LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

DocuSign Envelope ID: 8028E645-93DD-43B8-AEBD-330031BB4D27



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Facility (s):

Battle Mountain

DocuSigned by:
kimberly Pisaneschi
101C05EFD0FF425...

Signature

kimberly Pisaneschi

Name

Battle Mountain SP, LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

Eagle Shadow Mountain Solar Farm

A handwritten signature in cursive script, appearing to read "Chris Blythe".

Signature

Chris Blythe

Name

Arevon Energy, Inc.

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



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Facility (s):

Tonopah Crescent Dunes Solar

A handwritten signature in cursive script, appearing to read "C Sopko", written over a horizontal line.

Signature

Cindy Sopko

Name

Tonopah Solar Energy, LLC

Company Name

NV Energy
Portfolio Standard Annual Report, Compliance Year 2022



2022 Annual Renewable Energy Portfolio Credit Attestation Request

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Facility (s):

Moapa Arrow Canyon Solar

Signature *Matt Guernsey*

Name Matt Guernsey

Company Name Arrow Canyon Solar

5.4 2022 NPC & SPPC GREENENERGY RIDER OPTION 1 BILLING DATA

CONFIDENTIAL



REDACTED PUBLIC VERSION
NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

NPC & SPPC GREENENERGY RIDER OPTION 1 BILLING DATA (CONTINUED)

CONFIDENTIAL

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NV Energy
Portfolio Standard Annual Report, Compliance Year 2022

5.5 2022 NPC & SPPC DSM CREDIT CALCULATIONS

NPC 2022

Total NPC DSM Portfolio Energy Credits for 2022													
Nevada Power													
DSM Programs	2005 Full Annual Savings kWh	2006 Full Annual Savings kWh	2007 Full Annual Savings kWh	2008 Full Annual Savings kWh	2009 Full Annual Savings kWh	2010 Full Annual Savings kWh	2011 Full Annual Savings kWh	2012 Full Annual Savings kWh	2013 Full Annual Savings kWh	2014 Full Annual Savings kWh	2015 Full Annual Savings kWh	2016 Full Annual Savings kWh	2017 Full Annual Savings kWh
Residential													
Advanced Build Tech	0	0	0	0	0	0	365,917	501,257	0	0	0	0	0
Consumer Electronics:80 Plus	0	0	0	0	0	0	2,473,763	0	0	0	0	0	0
Direct Install	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Assessments: In home	0	0	0	0	0	0	0	0	0	0	0	0	0
Online Energy Assessments	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Education Kits	0	0	0	0	0	0	0	0	0	0	0	0	0
EnergySmart Lighting	0	0	0	0	0	0	0	0	0	0	0	0	0
EnergySmart HomePlus	0	0	0	0	0	0	0	0	0	0	0	0	0
High Efficiency AC	13,400,810	32,563,206	0	1,533,238	2,041,407	4,054,597	3,926,034	4,018,236	9,573,484	10,345,621	5,017,447	12,495,859	10,937,357
Home Energy Reports	0	0	0	0	0	0	4,379,734	6,850,111	0	0	0	0	0
HomeFree Needs	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Income	0	0	0	0	0	0	35,796	0	0	0	0	0	0
Energy Smart Manufactured Homes	0	0	0	0	0	0	0	0	0	0	0	0	0
Pool Pumps	0	0	0	0	0	0	0	2,869,452	8,598,006	10,196,676	11,125,100	0	0
Refrigerator Recycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar Thermal Water Heaters	0	0	0	0	0	0	65,814	20,530	34,242	7,189	4,438	0	0
Residential Total	13,400,810	32,563,206	0	1,533,238	3,992,290	4,054,597	8,772,425	16,733,449	18,205,732	32,827,306	38,059,646	12,495,859	10,938,523
Commercial													
Business Energy Services/Non-Profit	0	0	0	0	0	0	33,335,767	89,951,467	94,699,185	105,561,343	109,505,228	102,563,683	133,176,397
704B Recapture - Wynd	0	0	0	0	0	0	(1,672,236)	(456,804)	(6,902,664)	(6,020,448)	(5,386,504)	0	0
704B Recapture - MGM	0	0	0	0	0	0	(16,219,140)	(17,697,180)	(14,259,480)	(16,021,284)	(15,464,052)	0	0
704B Recapture - Circus South	0	0	0	0	0	0	0	0	0	(3,973,555)	(3,787,157)	(34,482,148)	0
704B Recapture - SLS Las Vegas	0	0	0	0	0	0	0	0	0	(401,502)	(292,817)	0	0
704B Recapture - Georgia-Pacific	0	0	0	0	0	0	0	0	0	0	0	(281,639)	0
Net Commercial Incentives	0	0	0	0	0	0	15,464,391	69,991,840	73,410,599	79,144,554	84,572,698	66,799,492	135,176,397
Business Energy Reports	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial Construction	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial Demand Response	0	0	0	0	0	0	25,725,138	59,394,066	24,440,406	0	0	0	0
Consumer Electronics:80 Plus	0	0	0	0	0	0	7,526,035	14,280,537	0	0	0	0	0
Energy Efficient Schools	0	0	0	0	0	0	21,581,481	27,401	0	0	0	0	0
Hotels/Motels	0	0	0	0	0	0	5,756,419	5,909,732	11,246,004	8,790,183	9,298,071	13,852,233	12,542,061
Non-Profit Grants	0	0	0	0	0	0	0	0	0	0	0	0	0
Line loss multiplier	1.05												
Commercial Total	0	0	0	0	0	0	44,824,492	84,635,110	85,306,605	88,547,029	94,718,190	80,451,725	147,718,458
Total	13,400,810	32,563,206	0	1,533,238	3,992,290	4,054,597	13,296,917	23,368,559	23,512,337	41,374,335	132,778,836	92,947,584	118,656,981
On peak multiplier	2.00												
Total NPC DSM Portfolio Energy Credits for 2022	26,801,620	65,126,412	0	3,066,476	7,984,580	8,109,194	26,593,408	46,737,119	47,818,942	82,921,364	227,496,976	173,399,309	266,375,409
% kWh On Peak for Annual kWh Savings	8.00%	8.00%	0.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
Total Savings kWh	866,364	2,473,763	0	12,495,859	1,133,663	2,734,271	7,900%	18,389%	781%	35,796	15,297%	18,389%	18,389%
2019 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2018 Full Year Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2017 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2016 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2015 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2013 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2012 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2010 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2009 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2008 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2007 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2006 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
2005 Full Annual Savings kWh	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Portfolio Energy Credits	26,801,620	65,126,412	0	3,066,476	7,984,580	8,109,194	26,593,408	46,737,119	47,818,942	82,921,364	227,496,976	173,399,309	266,375,409
Residential	13,400,810	32,563,206	0	1,533,238	3,992,290	4,054,597	8,772,425	16,733,449	18,205,732	32,827,306	38,059,646	12,495,859	10,938,523
Commercial	0	0	0	0	0	0	44,824,492	84,635,110	85,306,605	88,547,029	94,718,190	80,451,725	147,718,458
Total DSM	13,400,810	32,563,206	0	1,533,238	3,992,290	4,054,597	13,296,917	23,368,559	23,512,337	41,374,335	132,778,836	92,947,584	118,656,981
Portfolio Energy Credits for 2022	26,801,620	65,126,412	0	3,066,476	7,984,580	8,109,194	26,593,408	46,737,119	47,818,942	82,921,364	227,496,976	173,399,309	266,375,409

Notes for Table:
 Total PCs Claimed From Energy Efficiency Measures are calculated such that 50% of Total Savings (in kWh) included come from residential sources. See NBS 704.7821.
 Annual Savings from M&V reports filed in the following dockets:
 2005 Savings - Docket No. 06-06051
 2006 Savings - Docket No. 07-08016
 2007 Savings - Docket No. 08-08011
 2008 Savings - Docket No. 09-08017
 2009 Savings - Docket No. 10-10024
 2010 Savings - Combined Docket Nos. 12-03004, 12-03005 and 12-03006
 2011 Savings - Combined Docket Nos. 12-06052, 12-06053 and 12-08009
 2012 Savings - Combined Docket Nos. 13-07002, 12-06053 and 13-07005
 2013 Savings - Combined Docket Nos. 14-07007 and 14-07008
 2014 Savings - Combined Docket Nos. 15-06065 and 15-07004
 2015 Savings - Combined Docket Nos. 16-07001 and 16-07007
 2016 Savings - Combined Docket Nos. 17-06043 and 17-06044
 2017 Savings - Docket No. 18-06003
 2018 Savings - Docket No. 19-07003
 2019 Savings - Docket No. 20-07004
 2020 Savings - No additional savings are authorized from DSM programs

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DSM Programs	2006 Full Annual Savings kWh	2007 Full Annual Savings kWh	2008 Full Annual Savings kWh	2009 Full Annual Savings kWh	2010 Full Annual Savings kWh	2011 Full Annual Savings kWh	2012 Full Annual Savings kWh	2013 Full Annual Savings kWh	2014 Full Annual Savings kWh	2015 Full Year Savings kWh	2016 Full Year Savings kWh	2017 Full Year Savings kWh	2018 Full Year Savings kWh	2019 Full Year Savings kWh	Total Savings kWh	% kWh On Peak for Annual kWh Savings
Residential																
Consumer Electronics/80 Plus	0	0	0	0	0	0	870,090	0	0	0	0	0	0	0	870,090	26.59%
Demand Response	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.99%
Direct Install	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.04%
Energy Assessments in home	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.87%
Energy Assessments online	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.87%
Energy Education Kits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.82%
Energy Smart Manufactured Homes	0	0	228,000	9,792	69,189	80,189	0	0	0	0	0	0	0	0	387,161	23.44%
Energysmart Lighting	0	0	0	0	0	0	0	0	2,319,792	6,632,903	6,441,578	0	0	0	26,105,881	24.18%
Home Energy Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.87%
Low Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.34%
Refrigerator Recycling	0	0	0	0	0	0	0	0	1,233,550	2,545,844	0	0	0	0	3,779,394	16.85%
Solar Thermal Water Heaters	0	0	0	0	0	42,338	29,666	58,668	15,110	54,250	0	0	0	0	200,052	21.97%
Residential Total	0	0	228,000	9,792	69,189	122,547	899,756	58,668	3,568,432	9,232,999	6,441,578	0	0	11,828,320	32,829,125	22.70%
Commercial																
Business Energy Services/Non-Profit Grants	0	0	0	0	30,316,481	30,326,756	23,031,818	21,737,690	37,464,750	28,645,212	42,809,439	50,803,353	51,103,276	68,524,769	384,763,544	16.95%
70/80 Recapture - Casarsa North	0	0	0	0	0	0	(115,202)	(74,037)	(9,553)	(1,136)	(117,949)	0	0	0	(463,878)	0
70/80 Recapture - Perpetual	0	0	0	0	0	0	(270,123)	(82,689)	0	0	0	0	0	0	(352,812)	0
Net Commercial Incentives	0	0	0	0	30,316,481	30,326,756	22,916,616	21,393,536	37,372,507	28,498,076	42,691,490	50,803,353	51,103,276	68,524,769	383,946,854	16.95%
Business Energy Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.79%
Commercial Construction	0	0	0	6,974,009	1,691,813	4,563,197	5,246,686	11,861,041	0	0	0	0	0	0	35,204,331	15.94%
Commercial Demand Response	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.57%
Consumer Electronics/80 Plus	0	0	0	0	0	0	0	0	1,586,536	1,074,472	1,730,824	3,253,549	6,056,818	5,664,239	30,924,228	11.79%
Energy Smart Schools	0	0	3,264,938	3,052,071	1,870,398	1,153,881	0	2,214,482	0	0	0	0	0	0	1,176,306	22.70%
Hotel/Motels	0	0	1,176,396	0	0	0	0	0	367,276	722,699	0	0	0	0	2,566,688	16.27%
Non-Profit Grants	112,049	46,687	258,172	33,991	585,604	230,035	105,843	218,331	367,276	722,699	0	0	0	0	453,841,593	16.53%
Commercial Total	112,049	46,687	9,569,111	10,060,071	34,464,296	36,273,869	28,289,241	35,687,434	39,326,319	30,295,247	44,422,314	54,856,902	57,160,094	74,189,008	453,841,593	16.53%
Line loss multiplier	1.05															
On peak multiplier	2.00															
Total																
Residential																
Commercial																
Total DSM																
Portfolio Energy Credits for 2022																
Portfolio Energy Credits for 2022																

Notes for Table:

Total PCs Claimed From Energy Efficiency Measures are calculated such that 50% of Total Savings (in kWh) included come from residential sources. See NYS 704.7821.

Annual Savings from M&V reports filed in the following dockets:

- 2006 Savings - Docket No. 07-06049
- 2007 Savings - Docket No. 08-08012
- 2008 Savings - Docket No. 09-08017
- 2009 Savings - Docket No. 10-10024
- 2010 Savings - Combined Docket Nos. 12-03004, 12-03005 and 12-03006
- 2011 Savings - Combined Docket Nos. 12-06052, 12-06053 and 12-06009
- 2012 Savings - Combined Docket Nos. 13-07002, 12-06053 and 13-07005
- 2013 Savings - Combined Docket Nos. 14-07007 and 14-07008
- 2014 Savings - Combined Docket Nos. 15-06065 and 15-07004
- 2015 Savings - Combined Docket Nos. 16-07001 and 16-07007
- 2016 Savings - Combined Docket Nos. 17-06043 and 17-06044
- 2017 Savings - Docket No. 18-06003
- 2018 Savings - Docket No. 19-07003
- 2019 Savings - Docket No. 20-07004
- 2020 Savings - No additional savings are authorized from DSM programs

5.6 2022 REVERSE RFP OFFER

Reverse Request for Proposal for Renewable Energy Credits (“RFP”)

September 13, 2022

Sierra Pacific Power Company, a Nevada corporation doing business as NV Energy (“Sierra Pacific”), is soliciting proposals to sell unbundled Renewable Energy Credits (“RECs”), also referred to in Nevada as Portfolio Energy Credits (“PECs”). Sierra Pacific is required under Nevada Revised Statute 704.7828 to market for sale RECs that are in excess of twenty five percent of the number of RECs that are needed to comply with its projected portfolio energy standard for the subsequent calendar year.

Interested buyers should provide Sierra Pacific with the requested information on the attached 2022 Bid Response Form, Exhibit A, by no later than September 19, 2022, by 9:00 a.m. Pacific Prevailing Time (PPT) by e-mail to: NVERECOoffer@NVEnergy.com. When submitting a bid, please put the following in the subject line of the email: “2022 NVE REC Offer”, followed by the name of your company.

RFP Description and Definitions

Seller:

Sierra Pacific Power Company, dba NV Energy

Buyer:

Counterparty

Product:

Certain offered RECs, from eligible renewable resources shown in Exhibit B, with the following characteristics:

- Unbundled, pre-2022 net RECs,
- Western Renewable Energy General Information System (“WREGIS”) certified,
- RECs listed are sourced from generators that have been has been certified by the Public Utilities Commission of Nevada (“PUCN”) as Nevada Renewable Portfolio Standard (“RPS”) eligible resources subject to limitations,
- “REC” has the meaning given to Green Attributes in Nevada as defined under Nevada Revised Statute 704.7815 and 704.78215,
- All RECs are from renewable generating resources located within the State of Nevada.

REC Quantity Offered:

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The maximum number of RECs offered cannot exceed to maximum available per Exhibit B. Sierra Pacific may in its discretion further limit the maximum number of RECs for which it will accept bids. The minimum number of RECs bid by a prospective buyer should not be less than 5,000 RECs and all bid quantities must be in increments of 1,000 RECs.

REC:

1 REC or kPC = 1 megawatt hour of renewable energy produced

REC Price Offer:

\$/REC

REC Delivery:

RECs will be transferred to the Buyer's account in The Western Renewable Energy General Information System ("WREGIS").

Underlying Agreement:

Existing enabling agreement or WSPP Agreement – Schedule R

Contingencies:

The proposed terms and conditions are for discussion purposes only and are not an offer or commitment of Sierra Pacific to enter into any transaction. Sierra Pacific reserves the right to terminate this offer at any time prior to deadline. The number of and specific types of RECs offered for sale is subject to change until the execution of a definitive agreement between seller and buyer containing all appropriate provisions, including those related to dispute resolution, credit and governing law. Submission of the 2022 Sierra Pacific REC RFP Response Form, Exhibit A, does not obligate either party to enter into a transaction or definitive agreement with the other party, and each party may cease discussion for any reason at any time.

Sierra Pacific may seek regulatory review by the Public Utilities Commission of Nevada ("PUCN"), in the case of certain sales to ensure that the sale does not in any way disadvantage Sierra Pacific's customers.

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Exhibit A – 2022 Sierra Pacific REC RFP Response Form

Please return by e-mail to: NVERECOoffer@NVEnergy.com

Buyer Contact Information:

Counterparty Name: _____

Contact Name: _____

Contact Number: _____

Contact Email: _____

Prospective Buyers are requested to specify the RECs that they are interested in purchasing based on the RECs offered for sale per Exhibit B. Note, the maximum quantity requested cannot exceed 133,221 REC / (kPC).

Resource	Registry	Certification	Year	Bid Price \$/REC	Quantity Minimum 1,000

The above RFP response does not constitute an obligation on the part of the bidder to purchase or Sierra Pacific to sell the above requested RECs until both parties have reached a binding agreement. All agreements may be subject to further regulatory review by the Public Utilities Commission of Nevada (“PUCN”).

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The 2022 Reverse Request of Proposal is capped at a maximum of

133,221 RECs/(kPCs)

Maximum
Qty
Available by
Category *

Resource	Registry	Certification	Vintage	Type	Category *
Geothermal	WREGIS	PUCN	2021	Net	133,221
Solar Photovoltaic	WREGIS	PUCN	2021	Net	133,221
Solar Thermal	WREGIS	PUCN	2021	Net	31,281

Notes:

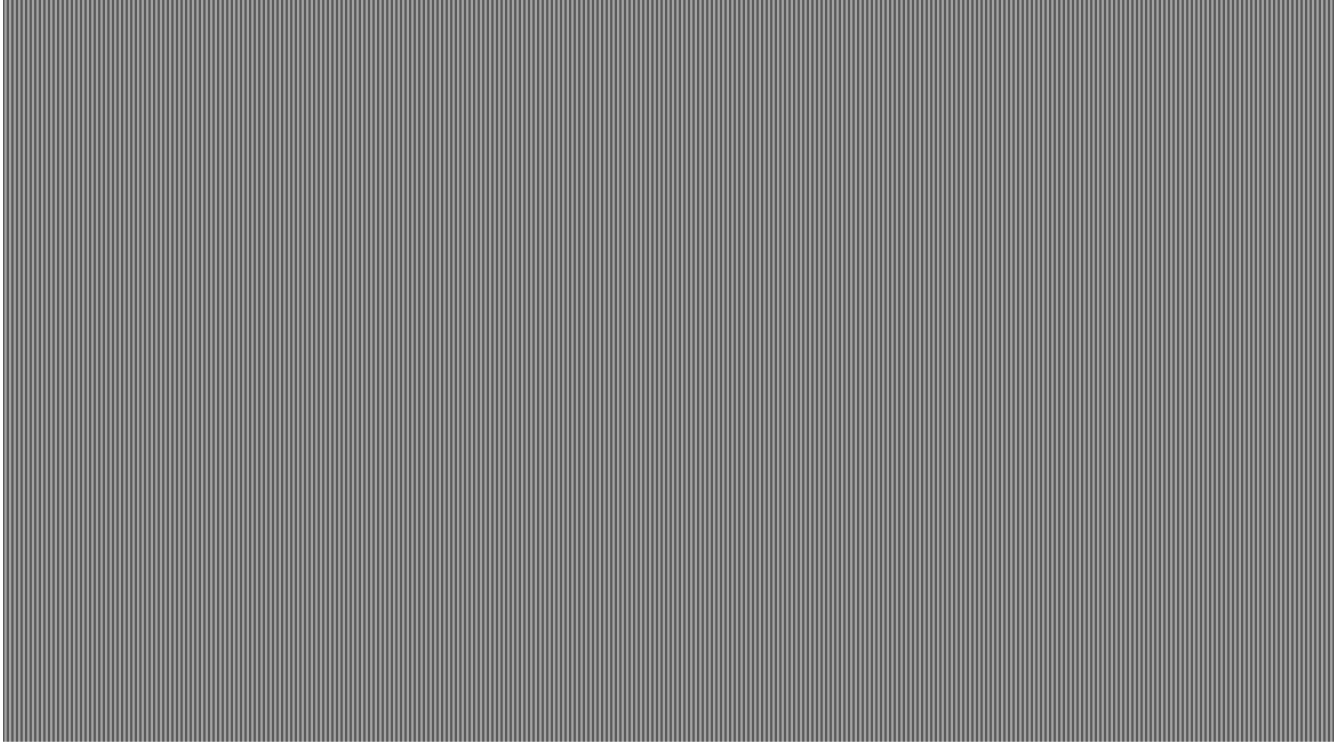
All of the above RECs come from renewable facilities located in the State of Nevada. The RECs come from facilities that have been certified by Public Utilities Commission of Nevada, and the RECs generated can be used towards meeting the State of Nevada's Annual Renewable Portfolio Standard. Sierra Pacific has entered into a long-term purchase power agreement with the facilities supplying the RECs under which Sierra Pacific has the exclusive rights to the net energy produced by the facility and all environmental attributes, including the renewable energy credits, associated with the energy production. The above quantities represent the maximum number of credits available by each resource category. While buyers can choose to purchase RECs from any combination of the above resources, in no case shall the total number of credits requested exceed the 133,221 REC cap.

5.7 2022 REVERSE RFP OFFER MAILING LIST

COMPANY
Circus Circus Las Vegas
Caesars
Georgia Pacific
MGM Resorts
The Sahara Las Vegas
Wynn Las Vegas
The Peppermill
Switch LTD
Constellation
Tenaska Power Services
Macquarie Energy, LLC
Exelon Generation Company, LLC
Shell Energy North America (US), L.P.
Morgan Stanley Capital Group, LLC
3 Phases Renewable
3Degrees Inc
Act Commodities
AEP Energy, Inc.
Amerex Energy Services
Avangrid Renewables
Blue Delta Energy
Carbon Solutions Group (CSG)
Good Energy
Geenlight Energy Group
Karbone, Inc.
Macquarie Energy LLC
NextEra Energy Resources
OneEnergy Renewables
Sterling Planet
STX Commodities
Harrison Renewables

5.8 2022 REVERSE RFP SUMMARY OF BIDS RECEIVED

CONFIDENTIAL



CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing filing of **NEVADA POWER COMPANY D/B/A NV ENERGY AND SIERRA PACIFIC POWER COMPANY D/B/A NV ENERGY** in Docket No. 23-040__ upon the persons listed below by electronic service:

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Attorney General's Office
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bcpserv@ag.nv.gov

DATED this 14th day of April, 2023.

/s/ Ashleigh Dennis
Ashleigh Dennis
Regulatory Operations Analyst
Nevada Power Company
Sierra Pacific Power Company