

ATTACHMENT 1

CLEAN ENERGY PROGRAMS ANNUAL PLAN

Docket No. 20-01040

Clean Energy Programs Annual Plan

A. Executive Summary

NV Energy is entering its 17th year of providing education, outreach, customer service, and incentives to residential, governmental and commercial customers who wish to participate in any of the clean energy programs to install private generation systems, electric vehicle infrastructure, or energy storage systems. This annual plan details NV Energy's strategy for continuing to support program participation for the 2020-2021 plan year.

As of June 5, 2019, the Solar Incentives program became fully subscribed and the program was closed to any new applications. The energy storage, electric vehicle infrastructure demonstration program and lower income solar energy incentive programs that launched in 2018 as a result of Senate Bill 145 ("SB145") continued in 2019. Solar incentive applications submitted on or before June 5, 2019 continue to be processed in the pipeline as part of program wind down. Program wind down efforts will continue through reviewing incentive documentation and payment processing for both up-front incentives and performance based incentive payments. SB145, signed into law on May 31, 2017, combined the funds available for incentives for these programs into a total incentive budget of \$295,270,000. In the 2019 calendar year, a total of 10,899 Solar Incentives projects were interconnected for a total of 77.5 megawatts of capacity. A total of \$13,963,472 of incentive funding was paid out. No new applications were received for the hydro and wind programs and they had no installations or paid incentives. The energy storage program received 368 applications and reserved \$822,997 in incentive fund. The electric vehicle incentive programs received 56 project applications and reserved \$272,936 in incentive funds.

Assembly Bill 405 ("AB405"), signed into law on June 15, 2017, created a new net energy metering rate that allocates customers into one of four 80 megawatt tiers. Each tier outlines the rate at which a customer is compensated for any excess generation that is produced on a monthly basis. The net metering rate is currently in tier three. The passage and enactment of AB405 resulted in a large increase of installed systems in the Solar Incentives program. In the 2019 calendar year, the Solar Incentives program received 6,137 applications, a 59% decrease compared to the number of applications received during the 2018 calendar year, primarily due to the Solar Incentives program becoming fully subscribed in June 2019. However, solar interconnection applications have continued at a steady pace even after the transition into tier three.

Low Income Solar Energy Program

The Lower Income Solar Energy Pilot Program ("LISEPP") was established by Assembly Bill 428 in the 2013 Nevada Legislature, and codified in NRS 704.786. This bill mandated that NV Energy implement a total of two megawatts of solar energy systems on the facilities of businesses that serve a significant population of low income customers in Northern and Southern Nevada. The approved stipulation of docket 17-02006 in 2017 authorized the continuation of the Lower Income Solar Energy Program ("LISEP") for the 2017-2018 program year and, establishing an installation target of 500 kilowatts in each service territory. The term "Pilot" was dropped from the program's name to reflect the intent for a more permanent program offering. In Senate Bill 145 the 2017 Nevada Legislature authorized up to \$1,000,000 per year through 2023 for the Lower Income Solar Energy Program which was codified in NRS 701B.005.3. The program has been very well received with all available funding being subscribed for the 2019-2020 program year. The LISEP is fully discussed in Section C.

Clean Energy Programs Annual Plan

Energy Storage

The energy storage program incentive offerings continued during the 2019 program year. While the energy storage market is still in its infancy, during the 2019 calendar year, 366 total residential energy storage applications were received with 114 completed projects representing 2,379 installed kWh.

The residential energy storage applications and installations are mainly driven by early adopter residential customers. As installed costs of residential energy storage decline, the payback periods will improve and help accelerate consumer adoption, especially when coupled with additional customer offerings like time varying rates (i.e. time-of-use or "TOU") or demand response ("DR") programs.

The non-residential energy storage market transformation remains in its early stages throughout most of the country. Ongoing challenges include longer investment payback periods for small energy storage systems as compared to other customer bill reduction options such as energy efficiency retrofit projects. Additionally, when a customer does not already have a renewable resource to integrate, the requirement for an integrated renewable system imposes additional costs on the project and may make it infeasible. As such, NV Energy proposes increased incentive rates with a higher payment cap for installed costs to drive program application volume in program year 2020. NV Energy also proposes allowing incentives for standalone energy storage systems in the small energy storage program. NV Energy anticipates that proposed new incentive levels will better align market signals and encourage early adopters and innovators to pursue the procurement of energy storage solutions with target investment payback periods within a two to four year range.

Electric Vehicles

The electric vehicle ("EV") programs continued in the 2019 program year. These programs include EV Charging Station Incentives, the Nevada Electric Highway, EV Custom Grant Program and Technical Advisory Services. These were strategically designed to expand the EV charging infrastructure and promote adoption of electric vehicles across the state of Nevada by providing incentives to offset the cost of engineering, procurement and installation of the electric vehicle charging stations.

Customer education and outreach efforts continued to promote education on electric vehicles. During calendar year 2019, NV Energy hosted four ride and drive events, two in the northern Nevada territory and two in the southern Nevada territory. The NV Energy electric vehicle incentive programs have received 56 applications with 50 level two ("L2") connectors and 14 direct current fast chargers ("DCFC") that have been installed.

For program year 2020, NV Energy is proposing to increase certain market sector incentive amounts and maximum incentive cap to address unique barriers faced by those customers. Two new programs are proposed under a joint incentive funding program between NV Energy and the Nevada Governor's Office of Energy ("GOE") targeting low income housing and governmental sectors. Additionally, in July 2019, Senate Bill 299 ("SB299") passed providing that utilities shall include, within the Electric Vehicle Infrastructure Demonstration ("EVID") program, activities to

Clean Energy Programs Annual Plan

incentivize the deployment of electric school buses. A proposed plan to implement the electric school bus program for the 2020 program year is included in this plan.

Phase one of the Nevada Electric Highway ("NEH") program was focused on the completion of five EV charging station sites along U.S. 95 connecting Reno and Las Vegas. Phase two of the NEH expanded the focus of the project to construct EV charging stations on the 1-15, 1-80, U.S. 93, U.S. 50, and additional sites on the U.S. 95. In 2018, the NEH project funding was expanded due to the influx of \$3.7 million (15%) of Nevada's Volkswagen Mitigation Trust settlement funds. The Nevada GOE has designated a total of 38 sites along the five major corridors and has been actively engaged with NV Energy and the other state utility providers to act as the designated recipients of the funding to award sub-grants to install EV charging infrastructure at the sites. NV Energy is completing the last remaining site from phase one of NEH. For the second phase of NEH, one site has completed construction and 13 sites are in different phases of site selection, engineering, procurement and construction as further detailed in Section C.

Summary

NV Energy's goal is to continue to run a well-managed program that enables market development for renewable energy, electric vehicle, and energy storage technologies as the law intended. NV Energy believes that this Annual Plan will focus resources where they are most impactful. With more than a decade of success, this plan provides customer choice, supports continued clean energy program development, and positions the program to successfully achieve Nevada's legislative goals.

Clean Energy Programs
Annual Plan Select Tables

Table 22: Completed Solar Incentives Program Projects by Category

Completed Solar Incentives Program Projects by Category						
Customer Sector	2018			2019		
	Applications Filed	Completed Projects	Capacity kW	Applications Filed	Completed Projects	Capacity kW
Northern Nevada (formerly Sierra Pacific Power)	937	383	2,103	314	586	3,977
Large Commercial/Industrial	3	1	140	0	2	496
Agriculture Low Income/Nonprofit/Public	0	0	0	0	0	0
Low-Income/Nonprofit	0	0	0	0	0	0
Public Entity	0	0	0	0	0	0
Public Governmental	0	0	0	0	0	0
Public Non-Governmental	0	0	0	0	0	0
Residential	931	381	1,957	312	579	3,299
Residential/Small Commercial	0	0	0	0	0	0
School	0	0	0	0	0	0
Small Business	0	0	0	0	0	0
Small Commercial	3	1	7	2	5	183
Southern Nevada formerly Nevada Power)	13,950	5,495	39,179	5,823	10,313	73,567
Large Commercial/Industrial	5	2	69	0	2	515
Agriculture Low Income/Nonprofit/Public	0	0	0	0	0	0
Low-Income/Nonprofit	33	6	41	14	33	446
Public Entity	3	0	0	2	0	0
Public Governmental	0	0	0	0	0	0
Public Non-Governmental	0	0	0	0	0	0
Residential	13,908	5,485	39,020	5,804	10,277	72,602
Residential/Small Commercial	0	0	0	0	0	0
School	0	0	0	0	0	0
Small Business	0	1	9	0	0	0
Small Commercial	1	1	40	3	1	4
NVE Total:	14,887	5,878	41,284	6,137	10,899	77,544

Clean Energy Programs
Annual Plan Select Tables

Table 25: Incentives Paid

January 1, 2019 - December 31, 2019	
Customer Sector	Incentives Paid
Northern Nevada (formerly Sierra Pacific Power)	\$778,312
Large Commercial/Industrial	\$125,949
Agriculture Low Income/Nonprofit/Public	\$0
Low-Income/Nonprofit	\$4,296
Public and Other	\$0
Public Entity	\$44,132
Public Governmental	\$0
Public Non-Governmental	\$0
Residential	\$600,134
Residential/Small Commercial	\$0
School	\$0
Small Business	\$0
Small Commercial	\$3,801
Southern Nevada (formerly Nevada Power)	\$13,185,160
Large Commercial/Industrial	\$452,160
Agriculture Low Income/Nonprofit/Public	\$0
Low-Income/Nonprofit	\$252,065
Public and Other	\$0
Public Entity	\$34,835
Public Governmental	\$0
Public Non-Governmental	\$0
Residential	\$12,397,838
Residential/Small Commercial	\$0
School	\$0
Small Business	\$0
Small Commercial	\$48,262
Total:	\$13,963,472

Clean Energy Programs
Annual Plan Select Tables

Table 26: Solar Incentives Program Completed Capacity and Incentives Paid

Completed Capacity and Incentives Paid		
Calendar Year	kW Completed	Incentives Paid
2004	14	\$71,812
2005	316	\$1,468,153
2006	453	\$1,665,992
2007	501	\$1,553,156
2008	657	\$2,426,032
2009	1,410	\$4,893,115
2010	5,345	\$22,121,822
2011	19,470	\$87,109,526
2012	7,287	\$32,050,560
2013	5,365	\$14,188,919
2014	11,952	\$28,996,674
2015	64,936	\$16,910,941
2016	47,296	\$13,949,848
2017	14,813	\$3,027,418
2018	42,020	\$9,330,627
2019	77,544	\$13,963,472
Total:	299,379	\$253,728,067

Clean Energy Programs
 Annual Plan Select Tables

Table 27: Solar Incentives Program Reserved Capacity and Incentives Reserved

Reserved Capacity and Incentives		
Calendar Year	kW Reserved	Incentives Reserved
2004	0	\$0
2005	0	\$0
2006	0	\$0
2007	0	\$0
2008	0	\$0
2009	0	\$0
2010	0	\$0
2011	0	\$0
2012	0	\$0
2013	0	\$0
2014	1,177	\$198,892
2015	8,951	\$1,042,578
2016	3,355	\$425,472
2017	557	\$77,882
2018	4,487	\$941,506
2019	17,161	\$3,418,592
Total:	35,687	\$6,104,922

Clean Energy Programs
 Annual Plan Select Tables

Table 43: Low Income Solar Energy Program Installed Capacity and Incentives Paid

Calendar Year	kW Installed	Incentives Paid (\$)	
		NV Energy	NGOE
2015	997.068	3,026,260	"NA"
2016	383.895	2,910,264	0
2017	616.722	224,733	349,917
2018	485.271	826,799	97,054
2019	487.783	733,161	172,286
Total	2,970,739	7,721,217	619,257

Table 46: Hydro Incentives Program Installed Capacity and Incentives Paid

Installed Capacity and Incentives Paid		
Calendar Year	kW Completed	Incentives Paid
2010	93	\$232,500
2011	502	\$1,215,000
2012	0	\$0
2013	0	\$0
2014	0	\$0
2015	0	\$0
2016	0	\$0
2017	0	\$0
2018	750	\$650,000
2019	0	\$0
Total	1,345	\$2,097,500

Clean Energy Programs
 Annual Plan Select Tables

Table 52: Wind Incentives Program Installed Capacity and Incentives Paid

Installed Capacity and Incentives Paid		
Calendar Year	kW Completed	Incentives Paid
2009	97	\$247,300
2010	116	\$334,800
2011	1,829	\$4,872,700
2012	7,189	\$18,236,883
2013	240	\$538,965
2014	658	\$1,415,560
2015	0	\$0
2016	0	\$0
2017	0	\$0
2018	0	\$0
2019	0	\$0
Total:	10,129	\$25,646,20

Table 67: Energy Storage Program Projects by Category

January 1, 2019 — December 31, 2019			
Customer Category	Applications Filed	Completed Projects	Completed Capacity kWh
Large Commercial/Industrial	0	0	0
Residential	368	114	2,379
Small Commercial	0	0	0
Total:	368	114	2,379

Table 71: Energy Storage Incentives Program Completed Capacity and Incentives Paid

Completed Capacity and Incentives Paid		
Calendar Year	kW Completed	Incentives Paid
2018	0	\$0
2019	114	\$259,749
Total:	114	\$259,749

Clean Energy Programs
Annual Plan Select Tables

Table 73: Energy Storage Outstanding Incentive Liabilities

Program	Capacity (kWh)	Incentive Liabilities
Energy Storage Incentives Program	217	\$835,945

Table 84: EV Charging Station

July 1, 2019— December 31,

Category	Applications Filed	DCFC Applied	L2C Applied	Completed Projects	DCFC Installed	L2C Installed
Fleet	0	0	0	0	0	0
Multi-Family	3	0	16	1	0	2
Workplace	9	0	38	10	2	40
Public Facility	3	2	8	0	0	0
Other	1	0	10	0	0	0
Custom Grant	0	0	0	0	0	0
Nevada Electric Highway	1	16	0	0	0	0
Total:	17	18	72	11	2	42

Table 86: EV Charging Station Incentives Program Projects by Category

Customer Sector	2018					
	Applications Filed	DCFC Applied	L2C Applied	Completed Projects	DCFC Applied	L2C Applied
Fleet	2	10	2	0	0	0
Multi-Family	5	0	20	0	0	0
Workplace	15	5	135	0	0	0
Public Facility	0	0	0	0	0	0
Other	0	0	0	0	0	0
Custom Grant	0	1	2	0	0	0
Nevada Electric Highway	0	0	0	0	0	0
Total:	22	16	159	0	0	0
Customer Sector	2019					
Fleet	0	0	0	1	10	0
Multi-Family	6	0	28	1	0	2
Workplace	29	0	134	13	4	48
Public Facility	4	2	32	0	0	0
Other	1	0	10	0	0	0
Custom Grant	2	0	140	0	0	0
Nevada Electric Highway	14	28	13	0	0	0
Total:	56	30	357	15	14	50

Clean Energy Programs
 Annual Plan Select Tables

Table 89: EV Charging Station Incentives Paid

January 1, 2019 — December 31, 2019	
Category	Incentives Paid
Fleet	\$75,000
Multi-Family	\$6,000
Workplace	\$181,136
Public Facility	\$0
Other	\$0
Custom Grant	\$0
Nevada Electric Highway	\$10,800
Total:	\$272,936

Table 90: EV Charging Station Incentives Program Incentives Paid

Calendar Year	Incentives Paid
2018	\$0
2019	\$272,936
Total:	\$272,936

Table 91: Outstanding Liabilities

Program	Incentive Liabilities
EV Charging Station Incentives Program	\$3,434,529

Table 92: EV Custom Grant Liabilities

Project	Funds Reserved
The Town of Gardnerville Electric Vehicle Station	\$ 188,535.00
The Washoe County 9th Street Administration Complex	\$ 53,268.00
McCarran Airport Electric Ground Support Equipment	\$ 809,081.00
Total	\$ 1,050,884.00

Clean Energy Programs
Annual Plan Select Tables

Table 93: Nevada Electric Highway 2019 Outstanding Incentives

January 1, 2019 — December 31, 2019			
Phase	Total Sites Awarded	NVE Incentive Liabilities	GOE Incentive Liabilities
1	1	\$ 0	\$ 150,000
2	6	\$ 2,058,745.00	\$ 383,739
Total:	7	\$ 2,058,745.00	\$ 533,739

ATTACHMENT 2

NV ENERGY 2019 SERVICE QUALITY & METRICS REPORT

Docket No. 20-04001

NV Energy 2019 Service Quality & Metrics Report



April 1, 2020

Overview of Report

Nevada Power Company d/b/a NV Energy (“NPC”) and Sierra Pacific Power Company d/b/a NV Energy (“SPPC” and collectively, “NV Energy” or the “Companies”) submit this annual quality of service report pursuant to Ordering Paragraph 4 of the Order issued by the Public Utilities Commission of Nevada (the “Commission”) on October 14, 2015 in Docket No. 15-06064. This report provides data on customer service performance by providing the following metrics for the period of 2015 through 2019:

Contact Center Metrics

- Cumulative Service Level
- Abandoned Calls Percentage
- Percentage of Interactive Voice Response Calls

Billing and Metering Metrics

- Percentage of Bills Mailed/Presented Within 7 Calendar Days of Meter Reading Date

Metering Metrics

- Number of Meter Failures per 1,000 meters

Customer Payment Channels Metrics

- Percentage of Payments Made Through All Payment Channels (including U.S. Mail, Electronically, Shop & Pay locations, Payment Kiosks, and North Las Vegas (non-kiosk))
- Number of Kiosk Payments (North Las Vegas Office, Retail Locations and Overall)

Customer Programs and Services Metrics

- Number and Percentage of Customers Signed Up For My Account
- Number and Percentage of Customers that Have Elected Paperless Billing
- Number of Commission Staff-handled Complaints

FlexPay Program Metrics

- Number of Participants in the FlexPay Program
- Number of Service Disconnects
- Number of Participants that Obtained Good Credit through the FlexPay Program
- The Average Payment Amount
- Number of Payments
- Average Number of Payments
- Methods of Payments
- Number of Customer-written Communications
- Number of Customers who Transfer back to Original Rate Schedules from the FlexPay Program and their Reasons Why
- Tracking and Reporting the Reduction in Required Deposits, Past Due Balances of FlexPay Program Customers at the Time of Program Enrollment
- Monthly Number of Calls Received by the Call Center Regarding the FlexPay Program
- The Length of Time Customers Remain in the FlexPay Program

- The Average Length of Time in the FlexPay Program
- The Specific Number of Disconnections for Non-payment
- The Number of Service Reconnections after DNP
- The Number of DNP by Days, Hours and Average before Reconnection
- The Frequency of Disconnects on a Monthly Basis
- The Geographic Breakdown of DNP by Zip Code
- The Number of Deposit Arrangements and Payment Arrangements Entered into by Participants Leaving the FlexPay Program
- Gas Service Reconnection Dollar Amount and Frequency Incurred (SPPC only)

Reliability Metrics

- Customer Average Interruption Duration Index (“CAIDI”)
- System Average Interruption Frequency Index (“SAIFI”)
- System Average Interruption Duration Index (“SAIDI”)
- Natural Gas Dig-ins (SPPC only)
- Natural Gas Leak Ratio (SPPC only)

Safety Metrics

- OSHA Recordable Injuries – Corporate Overall
- OSHA Recordable Injuries – Customer Operations
- Preventable Vehicle Accidents – Corporate Overall
- Preventable Vehicle Accidents – Customer Operations

Market Strategies International (MSI) Customer Satisfaction Survey Results

- Overall Customer Satisfaction (MSI Survey Question 1)
- Restoring Electric Service (MSI Survey Question 11)
- Providing Reliable Electric Service (MSI Survey Question 16)
- Helping Customers Use Energy Safely (MSI Survey Question 20)
- Being Easy to do Business With (MSI Survey Question 41)

The Market Strategies International (MSI) Customer Satisfaction Survey Results are reported separately for residential and non-residential customers.

The other metrics - Contact Center, Billing, Customer Payments, Customer Programs, and Safety – are not tracked and reported separately by company.

This report replaces the separate annual quality of service reports that NPC and SPPC previously filed in Docket No. 04-7009.

In response to NV Energy’s 2018 Service Quality & Metrics Report, the Regulatory Operations Staff of the Commission (“Staff”) made the following suggestions that NV Energy has accepted and incorporated into this report:

1. NV Energy has added the definition of what qualifies as a meter failure and how Automated Metering Infrastructure (AMI) equipment and High Temperature Alarms (HTA) are assessed relative to a meter failures;

2. NV Energy has added a definition of meter failures qualifications, how NVE distinguishes between meter failures and equipment failures; and
3. A breakdown of meter population by year for each service territory in order to calculate the Number of Meter Failures per 1,000 meters for NPC and SPPC.

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ATTACHMENT 3

Nevada Power Company & Sierra Pacific Power Company d/b/a NV Energy

PORTFOLIO STANDARD ANNUAL REPORT

Compliance Year 2019

Docket No. 20-04018

NV Energy
Portfolio Standard Annual Report, Compliance Year 2019

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 approximately 1.31 million electric customers. Nevada Power and Sierra serve approximately 956,000 electric customers in southern Nevada, primarily in the Las Vegas area, and 353,000 electric customers in northern Nevada, as well as 163,000 natural gas customers in the Reno-Sparks area of northern Nevada.

This Portfolio Standard Annual Report for Compliance Year 2019 (“2019 Annual Report”) covering the period from January 1, 2019, through December 31, 2019, 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”).

Nevada’s history with respect to renewable energy policy dates back to utility restructuring legislation in 1997. It was then that the Nevada Legislature enacted the initial RPS requirement, which mandates that a specific minimum portion of the energy delivered to Nevada retail customers be met by renewable energy resources. Since that time, Nevada has made several revisions to the RPS. In 2019, Senate Bill (“SB”) 358 was enacted to further the goal of shifting the mix of power generation in Nevada from that of fossil fuel to sustainable, green generation. Among the notable changes, SB 358 increased the RPS percentage levels, expanded resource eligibility, changed the credit requirement calculation and eliminated the minimum solar credit requirement.

The most significant change was the increasing of the RPS percentages. SB 358 increases the RPS percentages in a series of steps. The RPS will increase to 22 percent for the calendar year 2020, 24 percent for the calendar year 2021, 29 percent for the calendar years 2022 through 2023, 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. The bill expanded resource eligibility by including the generation from certain large hydro facilities such as Hoover Dam.¹ It also adjusted the RPS calculation by permitting retail providers to exclude from retail sales subject to the RPS compliance, retail sales under a Commission-approved optional pricing program where the provider either transfers Portfolio Energy Credits (“PCs”) to the customer or retires PCs above the renewable energy standard on behalf of the customer. Such sales agreements include retail sales made under a Commission-approved NV GreenEnergy Rider (“NGR”) Tariff. Finally, the bill eliminated the minimum solar credit requirement. The annual RPS credit requirement is now agnostic, and utilities can satisfy the RPS requirement using PUCN-approved PCs from any type of Nevada eligible renewable generating resource.

SB 358 left in place the laws governing the ability to use PCs derived from energy efficiency programs to satisfy the credit requirement. In complying with the requirement, for 2019, no more than 20 percent of the overall credits can come from energy efficiency measures, and of those

¹ Only energy produced by qualifying large hydro facilities after the effective date of the SB 358, April 22, 2019, can be counted towards RPS compliance

NV Energy
Portfolio Standard Annual Report, Compliance Year 2019

credits, at least 50 percent must come from energy efficiency measures installed at service locations of residential customers. The 20 percent cap will drop to no more than 10 percent starting in compliance year 2020 before dropping 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 PCs required for compliance. A PC is equal to one kilowatt-hour (“kWh”) of renewable energy generated or one kWh of energy saved through an efficiency program. Similarly, one megawatt-hour (“MWh”) of energy from renewable resources or savings from an efficiency program would result in one thousand PCs, or a “kPC”.

**NV Energy
Portfolio Standard Annual Report, Compliance Year 2019**

2. Executive Summary

Both Nevada Power and Sierra successfully met the 2019 RPS requirement. For Nevada Power, the 2019 RPS required the utility to supply 3,892,382 kPCs. Nevada Power exceeded the requirement by accumulating 5,658,582 eligible kPCs in total.

For Sierra, the 2019 RPS required the utility to supply 1,769,127 kPCs. Sierra exceeded this requirement, accumulating 2,127,781 eligible kPCs in total.

Table 2-1 below summarizes the calculation of the 2019 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.²

Table 2-1 Nevada Power, Sierra, & NV Energy 2019 Compliance Summary

	Nevada Power	Sierra	NV Energy
Retail Sales (MWh)	19,461,909	8,845,636	28,307,545
RPS Requirement	<u>20%</u>	<u>20%</u>	<u>20%</u>
Credit Requirement	3,892,382	1,769,127	5,661,509
DSM Allowance (20%)	778,476	353,825	1,132,301
Eligible 2019 Credits (kPCs)			
Non-DSM	4,880,106	1,773,956	6,654,062
DSM	<u>778,476</u>	<u>353,825</u>	<u>1,132,301</u>
Total	5,658,582	2,127,781	7,786,363
Overall RPS %	29.1%	24.1%	27.5 %

The 2019 Portfolio Standard Annual report is divided into two parts, one for each utility, and each part is further divided into sections. 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 2019 in meeting its statutory and other renewable energy credit commitments. This filing complies with the requirements of NAC 704.877 and NAC 704.998 which require that certain information be set forth.

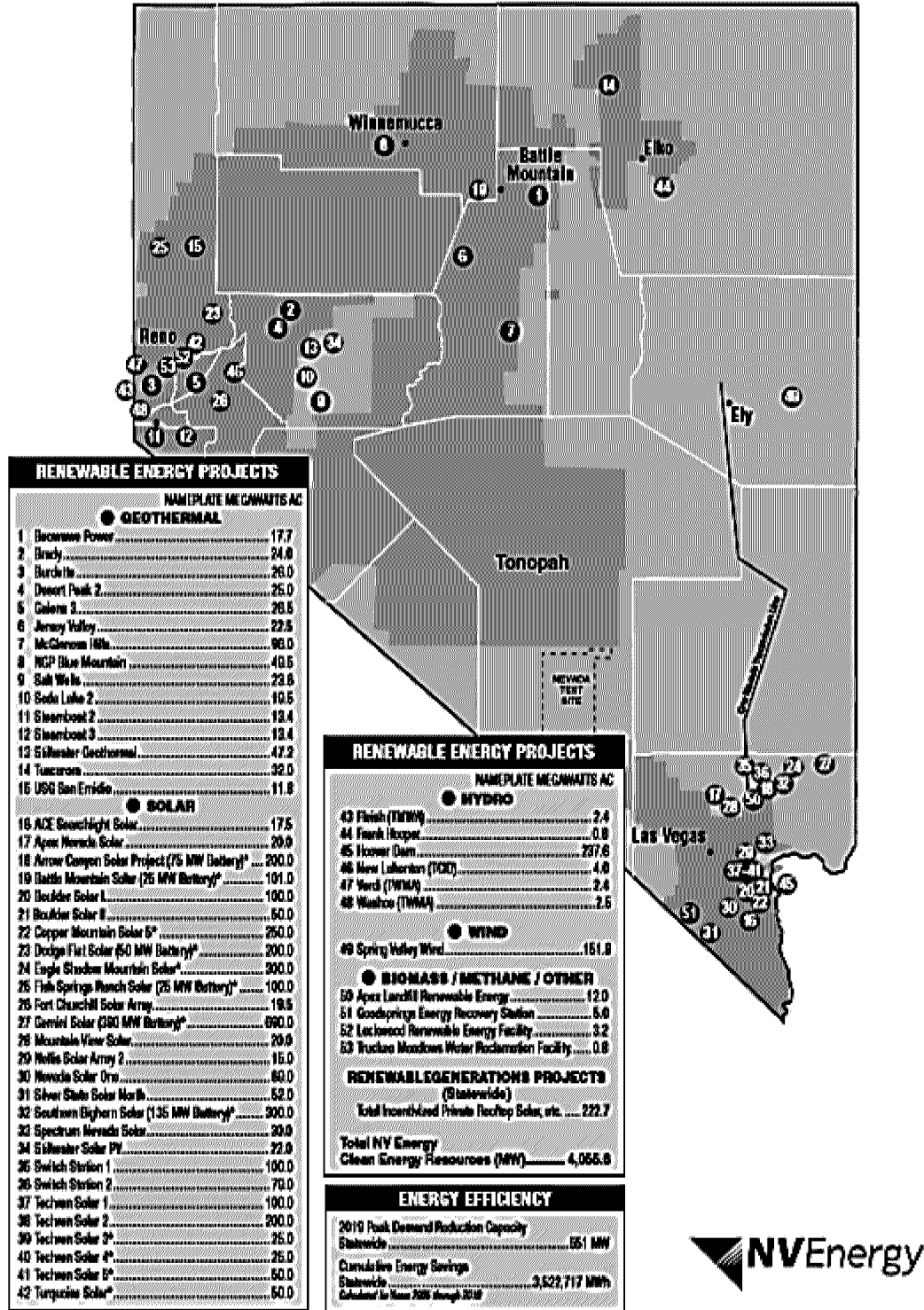
A map of all facilities operating, in construction, or in development for Nevada Power and Sierra is set forth in the following page in Figure 1 and shows the individual projects by name, type, nameplate megawatt rating and corresponding map location.

² Total NV Energy is shown for illustration. The RPS requirements apply to each utility individually. The previous solar carve out was eliminated by changes made to the RPS laws in 2019 under Senate Bill 358

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Figure 1 Renewable Energy Projects Map

NV Energy's Clean Energy Commitment



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storage capacity, and energy and capacity allocation as approved by the Commission in the approval order.

Table 3-1 Nevada Power Pipeline Generation as of December 31, 2019

NPC

Facility	Type	Approval Docket No.	Projected COD	Nameplate AC	Storage Capacity	Energy / Capacity Allocation		
						NPC	SPPC	
Copper Mountain	Solar PV	18-06003	01/01/22	250		250.0		
Eagle Shadow Mountain	Solar PV	18-06003	01/01/22	300		300.0		
Gemini Solar *	Solar PV	19-06039	12/01/23	690	380	690.0		
Arrow Canyon **	Solar PV	19-06039	12/01/22	200	75	60.0	140.0	
Southern Bighorn Solar Farm **	Solar PV	19-06039	12/31/23	300	135	180.0	120.0	
Techren Solar 3	Solar PV	17-11004	09/01/20	25		25.0		
Techren Solar 5	Solar PV	18-06003	01/01/21	50		50.0		
					1,815	590	1,555.0	260.0

* 40 percent of the PCs derived from Gemini Solar are to be assigned to Sierra per the order (Docket No. 19-06039)

** The energy/capacity of the project as allocated between Nevada Power and Sierra per the order (Docket No. 19-06039)

3.2. 2019 NV GreenEnergy Rider Tariff

Nevada Power had previously entered into two 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 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, one hundred 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 portfolio energy credits from Switch Station 1 for the duration of the agreement.

In addition to the Switch NGR agreement, Nevada Power also entered into a short-term NGR agreement with the City of Las Vegas. Under the agreement, Nevada Power sells 43,200 kPCs annually from Boulder Solar 1 to the City of Las Vegas. The three-year agreement commenced when the project achieved commercial operation on December 9, 2016, and ran through December 2019. The sale agreement was approved by the Commission in Docket No. 15-11026.

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Table 4-1 Sierra Pipeline Generation as December 31, 2019

Facility	Type	Approval Docket No.	Projected COD	Nameplate AC	Storage Capacity	Energy / Capacity Allocation	
						SPPC	NPC
Battle Mountain	Solar PV		07/01/21	101	25	101.0	
Dodge Flat	Solar PV	18-06003	12/01/21	200	50	200.0	
Fish Springs	Solar PV	18-06003	12/01/21	100	25	100.0	
Arrow Canyon *	Solar PV	19-06039	12/01/22	200	75	140.0	60.0
Southern Bighorn Solar Farm *	Solar PV	19-06039	12/31/23	300	135	120.0	180.0
Techren Solar 4	Solar PV	17-11003	09/01/20	25		25.0	
Turquoise **	Solar PV	17-11002	11/01/20	50		50.0	
976.0						736.0	240.0

* The energy/capacity of the project as allocated between Nevada Power and Sierra per the order (Docket No. 19-06039)

** Nevada GreenEnergy Rider facility where 100 percent of the energy credits will be transferred to Apple Inc. under a Commission approved tariff.

4.2. 2019 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.

As of December 31, 2019, 49 customers were enrolled in the NGR Option 1 tariff. Per the terms of the tariff, Sierra will retire 221 kPCs separately and in addition to credits retired under the RPS. Sierra billed a total of \$7,879 dollars in 2019 under the tariff. The offsetting expense incurred to administer Option 1 of the tariff was de minimis. Appendix 5.4 is a detailed schedule showing NGR Option 1 customers by class and listing the total dollars billed under the tariff in 2019.

Sierra has three customers – Apple, Switch and Truckee Meadow Community College – with which it has entered into an Option 2 NGR agreement. Under the first agreement, Apple is now receiving the renewable energy credits from Fort Churchill Solar Array which commenced operation in August 2015. Per the agreement, Sierra receives an annual ground lease payment and operates the facility. The energy generated by the Fort Churchill Solar Array is delivered to Sierra’s system. Apple retains ownership of the renewable credits associated with the generation. The credits are used by Apple to offset the energy consumption of its data center. The Fort Churchill lease agreement was approved by the Commission in Docket No. 13-07005. In 2019, the solar array generated 36,426 MWh of renewable energy, with an equal number of renewable credits transferred to Apple.

Subsequent to the Fort Churchill NGR, Apple and Sierra entered into a second NGR transaction for 50 MW from the new solar photovoltaic project Boulder Solar 2 located in Clark County, Nevada. This agreement was approved by the Commission in Docket No. 15-11025. Boulder Solar 2 project successfully completed commissioning on January 27, 2017. In 2019, the Boulder Solar II array generated 131,664 MWh of renewable energy.

Sierra received Commission approval to enter into a third NGR agreement with Apple for the renewable credits from a new renewable project, Techren Solar 2 (reference Docket No. 17-

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5. Appendix

5.1. NEVADA POWER 2019 ACTUAL AND 2020-2023 OUTLOOK

	Actual	Projected ^a			
	2019	2020	2021	2022	2023
Nevada Power / NV Energy South					
Bundled Retail Sales (MWhs)	19,505,109	19,929,878	20,124,647	20,369,461	20,617,657
Optional Green Tariff Retail Sales					
Nevada Power / City of Las Vegas	b. (43,200)	0	0	0	0
Nevada Power / LV Stadium Events, LVR Real Property	b. 0	0	0	0	(83,248)
Adjusted Retail Sales	19,461,909	19,929,878	20,124,647	20,369,461	20,534,409
RPS %		20%	22%	24%	29%
Total RPS Credit Requirement	3,892,382	4,384,573	4,829,915	5,907,144	5,954,979
Maximum DSM Allowance (20% 2019, 10% 2020-2023)	778,476	438,457	482,992	590,714	595,498
Geothermal					
Desert Peak 2, Net	93,385	93,856	88,234	88,234	88,234
Desert Peak 2, SU	30,904	11,190	11,159	11,159	11,159
Faulkner 1, Net	221,713	239,154	238,501	238,501	238,501
Faulkner 1, SU	105,177	35,873	35,775	35,775	35,775
Galena 2, Net	6,412	0	0	0	0
Galena 2, SU	4,731	0	0	0	0
Jersey Valley, Net	71,255	74,419	70,505	70,505	70,505
Jersey Valley, SU	38,834	15,335	14,529	14,529	14,529
McGinness Hills, Net	758,187	767,054	763,619	763,619	763,619
McGinness Hills, SU	157,145	110,995	110,692	110,692	110,692
Salt Wells, Net	89,809	101,453	98,140	95,196	95,196
Salt Wells, SU	32,996	24,056	27,025	29,970	29,970
Stillwater II, Net	146,105	150,706	150,294	150,294	150,294
Stillwater II, SU	47,319	70,299	70,107	70,107	70,107
Tuscarora, Net	124,100	127,746	127,397	127,397	127,397
Tuscarora, SU	48,192	24,338	24,271	24,271	24,271
2009 Ormat SPPC/NPC PC Transfer Agreement	c. 19,710	19,710	19,710	19,710	19,710
	1,995,973	1,866,183	1,849,958	1,849,958	1,849,958
Solar					
Crescent Dunes, Net	47,937	0	0	0	0
Crescent Dunes, SU	5,892	0	0	0	0
Nevada Solar One, Net	77,031	80,333	80,114	80,114	80,114
Nevada Solar One, SU	12,071	8,994	8,970	8,970	8,970
Apex Solar, Net	51,306	52,043	51,901	51,901	51,901
Apex Solar, SU	197	978	975	975	975
Arrow Canyon (was Moapa Solar) 30%	0	0	0	10,204	191,886
Boulder Solar I	268,134	287,910	286,406	285,690	284,976
Copper Mountain 5	0	0	0	720,222	716,621
Eagle Mountain Solar	0	0	0	922,909	920,140
Gemini Solar (REC allocation 40% SPPC/60% NPC)	0	0	0	0	66,634
Mountain View Solar, Net	53,217	52,985	52,840	52,840	52,840
Mountain View Solar, SU	1,994	1,060	1,057	1,057	1,057
Nellis Solar II, Net	38,918	41,736	41,517	41,412	41,306
Nellis Solar II Multiplier Credits (1.4x)	54,485	58,430	58,123	57,976	57,829
Searchlight Solar, Net	47,995	47,639	47,509	47,509	47,509
Silver State Solar, Net	113,676	125,545	125,202	125,202	125,202
Silver State Solar, SU	2,064	7,276	7,256	7,256	7,256
Southern Bighorn Solar (60%)	0	0	0	0	173,791
Spectrum, Net	81,863	83,317	83,089	83,089	83,089
Spectrum, SU	324	1,112	1,109	1,109	1,109

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Table 5.1 Nevada Power Summary Table (Continued)

	Actual	Projected ^a				
	2019	2020	2021	2022	2023	
Nevada Power / NV Energy South						
Stillwater 2 Solar, Net	38,871	41,272	41,159	41,159	41,159	
Stillwater 2 Solar, SU	65,367	57,781	57,623	57,623	57,623	
Techren Solar I	246,243	285,875	284,236	283,378	282,521	
Techren Solar III	0	19,614	72,622	72,404	72,186	
Techren Solar V NPC 60%	0	0	140,444	140,022	139,601	
Nellis AFB Solar Star	64,971	69,265	68,730	68,387	68,045	
PowerLight - LVWD	11,413	11,840	11,749	11,690	11,631	
	1,283,968	1,335,003	1,522,630	3,173,097	3,585,970	
Landfill Gas:						
CC Landfill Energy, Net	30,778	29,684	29,397	29,397	29,397	
CC Landfill Energy, SU	8,540	9,727	9,700	9,700	9,700	
Lockwood, Net	23,378	24,595	24,528	24,528	24,528	
Lockwood, SU	916	1,221	1,217	1,217	1,217	
	63,612	65,227	64,843	64,843	64,843	
Waste Heat						
Goodsprings (NVE Owned), Net	22,657	28,690	28,612	28,612	28,612	
Goodsprings (NVE Owned), SU	4,710	5,738	5,722	5,722	5,722	
	27,367	34,428	34,334	34,334	34,334	
Wind						
Spring Valley Project, Net	329,399	347,450	346,500	346,500	346,500	
Spring Valley Project, SU	6,588	0	0	0	0	
	335,987	347,450	346,500	346,500	346,500	
Hydro						
Hoover	258,073	378,888	377,853	377,853	377,853	
	258,073	378,888	377,853	377,853	377,853	
NVE Owned Small (< .5 MW) Systems						
Solar - South	85	100	100	100	100	
Non-Solar - South	0	0	0	0	0	
	85	100	100	100	100	
Net Metered (Renewable Generations)						
Solar - South	619,314	639,800	639,800	636,601	633,418	
Non-Solar - South	0	0	0	0	0	
	619,314	639,800	639,800	636,601	633,418	
Net Metered (Advanced Building Techniques)						
Solar - South	1,605	1,500	1,500	1,500	1,500	
NON-DSM CREDIT SUMMARY						
Prior Year Carry Forward Credits	d.	898,930	1,766,200	1,291,484	996,549	1,887,663
Geothermal		1,995,973	1,866,183	1,849,958	1,849,958	1,849,958
Solar		1,283,968	1,335,003	1,522,630	3,173,097	3,585,970
Biomass/Methane		63,612	65,227	64,843	64,843	64,843
Hydro		258,073	378,888	377,853	377,853	377,853
Waste Heat Recovery		27,367	34,428	34,334	34,334	34,334
Wind		335,987	347,450	346,500	346,500	346,500
Net Metered (Renewables Generations) & ABT		621,004	641,400	641,400	638,201	635,018
Transferred to Joint Pool for the benefit of Sierra (Non-DSM)	e.	(300,000)	(945,000)	(538,438)	0	0
Less Non-RPS Credit Commitments	f.	(304,808)	(252,179)	(247,093)	(277,242)	(177,770)
Total Non-Solar, Non-DSM PCs		4,880,106	5,237,600	5,343,472	7,204,093	8,604,370

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Table 5.1 Nevada Power Summary Table-Continued

Nevada Power / NV Energy South	Actual	Projected ^a			
	2019	2020	2021	2022	2023
DSM					
Prior Year Carry Forward	d. 4,290,256	4,215,441	4,480,645	4,701,314	4,814,260
DSM credits approved in 2019 for 2018 and prior years	g. 703,661	703,661	703,661	703,661	703,661
Total DSM	4,993,917	4,919,102	5,184,306	5,404,974	5,517,921
DSM Cap	778,476	438,457	482,992	590,714	595,498
DSM Credits Applied Towards the Current Year RPS	778,476	438,457	482,992	590,714	595,498
Current Year DSM Surplus to be Carried Forward	4,215,441	4,480,645	4,701,314	4,814,260	4,922,423
COMPLIANCE SUMMARY					
CREDIT REQUIREMENT	3,892,382	4,384,573	4,829,915	5,907,144	5,954,979
OVERALL ELIGIBLE PCS					
Non-DSM	4,880,106	5,237,600	5,343,472	7,204,093	8,604,370
DSM	778,476	438,457	482,992	590,714	595,498
Total kPCs	5,658,582	5,676,057	5,826,464	7,794,807	9,199,868
NET SURPLUS / <Deficit>	1,766,200	1,291,484	996,549	1,887,663	3,244,889
Overall Surplus Credits:					
Non-DSM	1,766,200	1,291,484	996,549	1,887,663	3,244,889
DSM	4,215,441	4,480,645	4,701,314	4,814,260	4,922,423
Total Surplus Credits	5,981,641	5,772,129	5,697,863	6,701,923	8,167,312

a. The 2020 to 2023 RPS credit requirement and credit supply forecasts are forward looking estimates. Retail sales are based on the February 2020, non-COVID-19 adjusted, base retail sales outlook. The actual credit requirement, credit supply, and the timing of new projects can vary. The above list excludes dedicated Nevada GreenRider Tariff projects where the 100% credits and other green attributes are assigned to the customer.

b. Retail sales under a Commission approved green tariff whereby the portfolio energy credits are transferred to the customer or retired on behalf of the customer separately from the RPS. In 2019 Senate Bill 358 modified the RPS to exclude such sales in calculating the annual credit requirement. The 2023 adjustment is the estimated credit impact of the Energy Supply Agreement between NPC and the LV Stadium Events Company, LLC and LVR Real Property, LLC, Docket No. 19-10012

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. Authorized, pre-2019 credit balances rolled forwarded per PUCN order 19-04010 (non-solar/non demand side kPCs, 0, solar kPCs 898,931, and demand-side management kPCs 4,290,256)

e. The number of NPC non-DSM surplus credits repaid (2019) or to be repaid (2020-2021) to the joint credit pool and transferred to SPPC. The exact timing of the remaining repayments is subject to change.

f. Non-solar and solar kPCs transferred to 704B customers per the exit agreements & 600 kPCs transferred from Techren Solar 1 to Sierra under a three year PC sales agreement

g. The exact number of 2019 DSM credits is the subject of a separate and later filing. Only 2018 and prior certified 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 2019 ACTUAL AND 2020-2023 OUTLOOK

	Actual	Projected ^a			
	2019	2020	2021	2022	2023
Sierra Pacific Power / NV Energy North					
Bundled Retail Sales (MWhs)	9,195,752	9,352,946	9,515,068	8,842,337	8,990,513
Optional Green Tariff Retail Sales					
Sierra Pacific / Apple Fort Churchill	b. (36,426)	(36,345)	(36,065)	(36,302)	(36,120)
Sierra Pacific / Apple Boulder Solar 2	b. (131,664)	(137,026)	(136,310)	(135,970)	(135,630)
Sierra Pacific / Apple Tehren 2	b. (181,205)	(573,471)	(570,188)	(568,473)	(566,757)
Sierra Pacific / Apple Turquoise Solar	b. 0	0	(115,545)	(115,083)	(114,621)
Sierra Pacific / TMCC Tehren 1	b. (600)	(7,200)	(7,200)	(6,600)	0
Sierra Pacific / NGR Option 1	b. (221)	(219)	(219)	(219)	(219)
Adjusted Retail Sales	8,845,636	8,598,685	8,649,541	7,979,691	8,137,166
RPS %	20%	22%	24%	29%	29%
RPS Credit Requirement	1,769,127	1,891,711	2,075,890	2,314,110	2,359,778
Maximum DSM Allowance (20% 2019, 10% 2020-2023)	353,825	189,171	207,589	231,411	235,978
Geothermal					
Beowawe, Net	99,101	99,136	98,865	98,865	98,865
Beowawe, SU	20,933	8,345	8,322	8,322	8,322
Brady, Net	105,122	76,858	76,648	45,958	0
Galena 3, Net	126,728	131,572	128,740	130,155	130,155
Galena 3, SU	42,805	10,695	19,762	14,682	11,937
Whitegrass Unit 1, Net	6,956	0	0	0	0
Whitegrass Unit 1, SU	3,820	0	0	0	0
Richard Burdette, Net	135,616	137,978	138,383	137,504	137,601
Richard Burdette, SU	31,132	36,610	29,535	16,564	27,124
San Emidio (Amor 2), Net	73,381	68,490	68,302	68,302	68,302
San Emidio (Amor 2) SU	29,522	18,412	18,362	18,362	18,362
Soda Lake I & II, Net	35,306	0	0	0	0
Steamboat II, Net	53,257	55,989	55,836	55,836	0
Steamboat III, Net	61,884	62,707	62,536	62,536	0
Misc. Credit Purchases & Credits in lue of Payment	113,353	0	0	0	0
2009 Ormat SPPC/NPC PC Transfer Agreement	(19,710)	(19,710)	(19,710)	(19,710)	(19,710)
	919,205	687,082	685,581	637,377	480,959
Solar					
Nevada Solar One, Net	36,252	37,786	37,683	37,683	37,683
Nevada Solar One, SU	5,679	4,232	4,220	4,220	4,220
Arrow Canyon (was Moapa Solar) 70%	0	0	0	23,809	447,735
Battle Mountain	0	0	181,040	296,655	294,281
Dodge Flats	0	0	21,799	574,307	568,564
Fish Springs Ranch	0	0	9,312	270,632	269,278
Gemini Solar (REC allocation 40% SPPC/60% NPC)	0	0	0	0	44,423
Southern Bighorn Solar (40%)	0	0	0	0	115,861
Techren Solar 1 (transferred from Nevada Power)	600	7,200	7,200	6,600	0
Techren Solar 4	0	19,614	72,622	72,404	72,186
Misc. Credit Purchases & Credit Transfers	10,471	0	0	0	0
	53,002	68,832	333,877	1,286,310	1,854,232
Biomass/Biogas					
City of Sparks/TMWW (Credit Only)	10,298	10,312	10,283	10,283	10,283
	10,298	10,312	10,283	10,283	10,283
Hydro					
Fleish, Net	11,627	13,253	13,217	13,217	13,217
TCID New Lahontan, Net	15,632	16,553	16,508	16,508	16,508
Verdi, Net	17,371	17,490	17,442	17,442	17,442
Washoe, Net	13,447	12,523	12,489	12,489	12,489
	58,077	59,818	59,655	59,655	59,655

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Table 5.2. Sierra Pacific Power Summary Table-Continued

Sierra Pacific Power / NV Energy North	Actual	Projected ⁺			
	2019	2020	2021	2022	2023
NVE Owned Small (< .5 MW) Systems					
Solar - North	73	100	100	100	100
	73	100	100	100	100
Net Metered (Renewable Generations)					
Solar - North	131,207	132,000	132,000	131,340	130,683
Non-Solar - North	564	869	869	869	869
	131,771	132,869	132,869	132,209	131,552
NON-DSM CREDIT SUMMARY					
Prior Year Surplus Carry Forward Credits	c. 329,778	358,654	490,036	301,459	249,680
Transferred to Credit Pool for the benefit of Sierra (Non-DSM)	d. 300,000	945,000	538,438	0	0
Geothermal	919,205	687,082	685,581	637,377	480,959
Solar	53,075	68,832	333,877	1,286,310	1,854,232
Biomass/Methane	10,298	10,312	10,283	10,283	10,283
Hydro	58,077	59,818	59,655	59,655	59,655
Net Metered (Renewables Generations)	131,771	132,969	132,969	132,309	131,652
Less Non-Solar, Non-RPS Credit Commitments & Credit Sales	e. (28,248)	(70,091)	(81,079)	(95,015)	(110,096)
Total Non-Solar PCs	1,773,956	2,192,575	2,169,760	2,332,379	2,676,365
DSM					
Prior Year Carry Forward	c. 715,584	472,232	393,533	296,417	175,479
DSM credits approved in 2019 for 2018 and prior years	f. 110,473	110,473	110,473	110,473	110,473
Total DSM	826,057	582,704	504,006	406,890	285,951
DSM Cap	353,825	189,171	207,589	231,411	235,978
DSM Credits Applied Towards the Current Year RPS	353,825	189,171	207,589	231,411	235,978
Current Year DSM Surplus to be Carried Forward	472,232	393,533	296,417	175,479	49,973
COMPLIANCE SUMMARY:					
CREDIT REQUIREMENT	1,769,127	1,891,711	2,075,890	2,314,110	2,359,778
OVERALL ELIGIBLE PCS					
Non-DSM	1,773,956	2,192,575	2,169,760	2,332,379	2,676,365
DSM	353,825	189,171	207,589	231,411	235,978
Total kPCs	2,127,781	2,381,746	2,377,349	2,563,790	2,912,343
NET SURPLUS / <Deficit>	358,654	490,036	301,459	249,680	552,565

NV Energy
Portfolio Standard Annual Report, Compliance Year 2019

Table 5.2 Sierra Pacific Power Summary Table-Continue Table 5.2

Sierra Pacific Power / NV Energy North	Actual	Projected ^a			
	2019	2020	2021	2022	2023
Overall Surplus Credits:					
Non-DSM	358,654	490,036	301,459	249,680	552,565
DSM	472,232	393,533	296,417	175,479	49,973
Total Surplus Credits	830,885	883,569	597,877	425,159	602,538
Net kPCs Carried Forward	830,885	883,569	597,877	425,159	602,538

- a. The 2020 to 2023 RPS credit requirement and credit supply forecasts are forward looking estimates. Retail sales are based on the February 2020, non-COVID-19 adjusted, base retail sales outlook. The actual credit requirement, credit supply, and the timing of new projects can vary. 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, and Techren II Solar
- b. Retail sales under a Commission approved green tariff whereby the portfolio energy credits are transferred to the customer or retired on behalf of the customer separately from the RPS. In 2019, Senate Bill 358 modified the RPS to exclude such sales when calculating the annual credit requirement.
- c. Authorized, pre-2019 credit balances rolled forwarded per PUCN order 19-04010 (non-solar/non demand side kPCs 0, solar kPCs 329,777 & demand-side management kPCs 715,584)
- The 2018 report included credits from Whitegrass Unit 1 which were certified under Homestretch (13,051 kPCs). The Homestretch geothermal plant was decommissioned and replaced by a similar capacity, geothermal plant Whitegrass Unit 1. This transition occurred on February 6, 2018. The company did not fully learn of the retirement/replacement until October 2019. WREGIS operating rules prevented the company from making an adjustment to reclassify the 2018 credits from Homestretch to Whitegrass Unit 1 as the credits had already been issued and retired. The company is disclosing this information to be transparent. It is not making an adjustment to the carry forward balance because the 2018 kPCs in question 1) fully met the Nevada Standard (geothermal net energy) 2) were never double counted, 3) were purchased by Sierra, so there is no issue of ownership, and 4) the information available to the company in 2018 pointed to Homestretch being repowered and renamed not retired and replaced.
- d. The number of NPC non-DSM surplus credits repaid in 2019 or to be repaid (2020-2021) to the joint credit pool and transferred to SPPC. The exact timing of the remaining repayments is subject to change.
- e. Non-solar and solar kPCs transferred to 704B customers per the exit agreements, station usage credits transferred to NPC per PUCN order 09-09018, credits retired separately from the RPS for NGR Option 1 customers
- f. The exact number of 2019 DSM credits is the subject of a separate and later filing. Only 2018 and prior certified DSM credits will be applied against the current year's RPS credit requirement subject to all DSM credit limitations.

ATTACHMENT 4

Nevada Power Company & Sierra Pacific Power Company d/b/a NV Energy

**2020 NV ENERGY ANNUAL DEMAND SIDE MANAGEMENT
UPDATE REPORT**

Docket No. 20-07004

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Section 1 - Overview and Request for Approval

The 2020 Annual Demand Side Management Update Report ("DSM Update Report") provides information and analysis used by Nevada Power Company d/b/a NV Energy ("Nevada Power") and Sierra Pacific Power Company d/b/a NV Energy ("Sierra" and collectively with Nevada Power "NV Energy") to describe implementation results and estimates, program enhancements, and other changes to the Demand Side Management ("DSM") portfolio of energy efficiency ("EE") and conservation programs. Additionally, the DSM Update Report proposes programmatic and budgetary changes for the forthcoming 2021 program year. NV Energy requests that the Public Utilities Commission of Nevada ("Commission") authorize NV Energy's 2021 proposed portfolio of DSM programs, which strikes a balance between energy savings, costs of those savings, impacts to NV Energy, and customer rate impacts.

The 2021 DSM Update Report is designed to meet a statewide energy savings target of 1.10 percent of 2021 energy sales as shown in Table DSM-1. NV Energy's statewide budgets and targets are also provided in Table DSM-1. The proposed budget of \$50 million for 2021 has a total resource cost ("TRC") benefits/cost ratio of 2.49. This DSM Plan will bring a net benefit of approximately \$157 million to the communities served by NV Energy. The TRC benefits, costs, and ratios are provided in Tables DSM-12A through DSM-12C.

The 2021 DSM Update Report proposes to administer cost-effective programs and accomplishes NV Energy's goal of fostering the development and implementation of EE in Nevada. NV Energy continues to have success in identifying program efficiencies and optimizing program designs to drive energy savings, with the added benefit of reducing the overall cost to customers.

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Table DSM-1: 2021 Statewide Target

Nevada Power	
Budget	\$37,470,000
Retail Sales (kWh)	20,006,731,000
1.1% Target (kWh)	220,074,041
Energy Savings Target (kWh)	238,140,000
% Energy Savings to Retail Sales	1.19%
Sierra	
Budget	\$12,530,000
Retail Sales (kWh)	9,537,169,000
1.1% Target (kWh)	104,908,859
Energy Savings Target (kWh)	85,521,000
% Energy Savings to Retail Sales	0.90%
NV Energy Combined Statewide	
Budget	\$50,000,000
Retail Sales (kWh)	29,543,900,000
1.1% Target (kWh)	324,982,900
Energy Savings Target (kWh)	323,661,000
% Energy Savings to Retail Sales	1.10%

Overview of the Plan

The DSM Update Report is organized in seven sections. This section, Section 1, provides an overview of the DSM Update Report and briefly discusses recent relevant legislative activities. It further presents the request for approval of the DSM Update Report, including compliance items and directives for which NV Energy is requesting the Commission find NV Energy in compliance, and a discussion of key issues and initiatives related to program performance. Section 1 also includes a roadmap to the Commission's regulations and mandates that apply to this DSM Update Report. The roadmap indicates the parts of this filing that fulfill the requirements specified by each section of the applicable regulations and mandates. Section 2 provides a summary of DSM activities for year 2019 and a summary of DSM performance for prior years. Section 3 provides the program year budgets and targets for 2020 and DSM updates. Section 4 presents the DSM Update Report plan for the 2021 program year. Sections 5 through 7 provide the program data sheets for each of the proposed programs. The DSM Technical Appendices provide key supporting data including, descriptions of NV Energy's cost-benefits model, summary spreadsheets used to determine replacement revenues, Measurement and Verification ("M&V") reports, and other documents.

In compliance with the Commission's direction, concurrent with the filing of this DSM Update Report NV Energy has provided to the Commission's Regulatory Operations Staff ("Staff") and the Bureau of Consumer Protection ("BCP") all supporting information and data in executable format upon which it relied to develop cost-benefit calculations ("Workpapers¹"). The Workpapers

¹ See Commission Ordering Paragraph 11 in in Docket Nos. 12-06052 and 12-06053, issued December 24, 2012.

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include all spreadsheets and calculations prepared by NV Energy in support of the filing, as well as by any outside M&V contractors and consultants, in executable and manipulative format.

Legislative Activities

In response to Senate Bill 150 ("SB 150") and Assembly Bill 223 ("AB 223") enacted by the 2017 Nevada Legislature, NV Energy in program year 2020 is:

- Maximizing annual energy savings to achieve on a joint basis an average of 1.10 percent of the weather normalized retail sales statewide over the three-year action plan period;
- Implementing its portfolio to expend at least five percent of the total annual expenditures that are directed towards low-income customers; and
- Executing the implementation of programs, which achieves a cost-effective ratio for the portfolio.

NV Energy's implementation strategy integrates and leverages EE and Demand Response ("DR") programs by customer segment. Nevada Power and Sierra continue to propose integrated services designed to maintain a practical budget, optimize energy and demand savings, and increase participation, while using a more personalized and customized approach to deliver programs. The programs have been bundled into the following categories:

- Education and Development
- Home Services
- Business Services

Budgets, savings, and cost-effectiveness have been presented at the program level to provide the same level of transparency as in prior-year filings.

NV Energy continues to monitor Nevada's State lighting standards,² lighting market penetration, and adoption of ENERGY STAR[®] lighting, such as, light-emitting diode ("LED") lamps.

Request for Approval of the DSM Update Report

NV Energy requests that pursuant to Nevada Administrative Code ("NAC") §704.934(8), the Commission approve the DSM Update Report, including the recommendation that all DSM programs approved by the Commission as a part of NV Energy's 2018 Joint Integrated Resource Plan ("IRP") for program year 2019 and the Commission authorized 2020 DSM Plan in Docket No. 19-07004 be continued in 2021.

² See, e.g., NRS 701.260.

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NV Energy is requesting specific acceptance of the expenditures and energy savings for program year 2019 as presented in Tables DSM-4 through DSM-8C. Pursuant to NAC §704.9522, NV Energy also requests that the Commission review and approve the M&V reports for program year 2019 provided in Technical Appendices DSM-5 through DSM-24 for the DSM programs delivered in the 2019 program year.

NV Energy is requesting specific acceptance of the budgets and energy savings targets for program year 2021 as presented in Tables DSM-1 through DSM-2C and DSM-11A through DSM-14C.

Table DSM-2A: Nevada Power Proposed 2021 Budget

Programs	Proposed Budget	Annual Demand Savings (kW)	Annual Energy Savings (kWh)
Energy Education	\$600,000	27	240,000
Energy Reports	\$800,000	4,373	11,000,000
Energy Assessments	\$2,110,000	3,260	8,200,000
Program Development*	\$200,000		
Education and Development Total	\$3,710,000	7,660	19,440,000
Residential Lighting	\$1,500,000	1,201	19,000,000
Low Income	\$1,860,000	146	1,150,000
Direct Install	\$500,000	103	1,300,000
Residential Demand Response - Manage	\$6,000,000	151,673	23,000,000
Residential Demand Response - Build	\$4,000,000	11,493	3,000,000
Pool Pumps	\$800,000	755	2,800,000
Residential Air Conditioning	\$3,100,000	2,759	5,000,000
Home Services Total	\$17,760,000	168,130	55,250,000
Schools	\$1,500,000	1,885	12,500,000
Commercial Services	\$13,000,000	22,888	144,850,000
Commercial Demand Response - Manage	\$650,000	23,495	6,000,000
Commercial Demand Response - Build	\$850,000	4,430	100,000
Business Services Total	\$16,000,000	52,699	163,450,000
DSM Portfolio Total	\$37,470,000	228,489	238,140,000

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

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Table DSM-2B: Sierra Proposed 2021 Budget

Programs	Proposed Budget	Annual Demand Savings (kW)	Annual Energy Savings (kWh)
Energy Education	\$475,000	14	120,000
Energy Reports	\$500,000	1,488	5,000,000
Energy Assessments	\$925,000	604	2,030,000
Program Development*	\$100,000		
Education and Development Total	\$2,000,000	2,106	7,150,000
Residential Lighting	\$800,000	594	9,500,000
Low Income	\$630,000	50	372,000
Direct Install	\$150,000	43	500,000
Residential Demand Response - Manage	\$750,000	14,544	2,500,000
Residential Demand Response - Build	\$1,400,000	4,600	500,000
Home Services Total	\$3,730,000	19,831	13,372,000
Schools	\$800,000	923	8,500,000
Commercial Services	\$5,300,000	6,716	56,029,000
Commercial Demand Response - Manage	\$250,000	5,571	458,000
Commercial Demand Response - Build	\$450,000	466	12,000
Business Services Total	\$6,800,000	13,676	64,999,000
DSM Portfolio Total	\$12,530,000	35,613	85,521,000

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

Table DSM-2C: NV Energy Proposed 2021 Budget

Programs	Proposed Budget	Annual Demand Savings (kW)	Annual Energy Savings (kWh)
Energy Education	\$1,075,000	41	360,000
Energy Reports	\$1,300,000	5,861	16,000,000
Energy Assessments	\$3,035,000	3,864	10,230,000
Program Development*	\$300,000		
Education and Development Total	\$5,710,000	9,766	26,590,000
Residential Lighting	\$2,300,000	1,795	28,500,000
Low Income	\$2,490,000	196	1,522,000
Direct Install	\$650,000	146	1,800,000
Residential Demand Response - Manage	\$6,750,000	166,217	25,500,000
Residential Demand Response - Build	\$5,400,000	16,093	3,500,000
Pool Pumps	\$800,000	755	2,800,000
Residential Air Conditioning	\$3,100,000	2,759	5,000,000
Home Services Total	\$21,490,000	187,961	68,622,000
Schools	\$2,300,000	2,808	21,000,000
Commercial Services	\$18,300,000	29,604	200,879,000
Commercial Demand Response - Manage	\$900,000	29,066	6,458,000
Commercial Demand Response - Build	\$1,300,000	4,896	112,000
Business Services Total	\$22,800,000	66,375	228,449,000
DSM Portfolio Total	\$50,000,000	264,102	323,661,000

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

**Nevada Power Company d/b/a as NV Energy
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Summary of 2019 Results

Table DSM-4: 2019 Statewide Savings Achieved

Nevada Power	
Actual Expenditures	\$33,197,277
2019 Retail Sales Target (kWh)	20,272,610,000
1.1% Target (kWh)	222,998,710
Energy Savings Achieved (kWh)	232,653,028
% Energy Savings to Retail Sales	1.15%
Sierra	
Actual Expenditures	\$11,360,730
2019 Retail Sales Target (kWh)	9,071,001,000
1.1% Target (kWh)	99,781,011
Energy Savings Achieved (kWh)	94,562,194
% Energy Savings to Retail Sales	1.04%
NV Energy Combined Statewide	
Actual Expenditures	\$44,557,941
2019 Retail Sales Target (kWh)	29,343,611,000
1.1% Target (kWh)	322,779,721
Energy Savings Achieved (kWh)	327,215,222
% Energy Savings to Retail Sales	1.12%

**Nevada Power Company d/b/a as NV Energy
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Table DSM-5A: 2019 Nevada Power Financial Results

Programs	Authorized Budget	Actual Expenditures	Variance Over (Under)
Energy Education	\$600,000	\$368,221	(38.6%)
Energy Reports	\$800,000	\$970,575	21.3%
Energy Assessments	\$2,500,000	\$2,061,572	(17.5%)
Program Development	\$200,000	\$73,288	(63.4%)
Rate Impact Study*	\$0	\$12,346	
Education and Development Total	\$4,100,000	\$3,486,003	(15.0%)
Residential Lighting	\$2,100,000	\$2,027,676	(3.4%)
Low Income**	\$2,000,000	\$3,190,468**	59.5%
Direct Install	\$500,000	\$305,282	(38.9%)
Residential Demand Response — Manage	\$7,300,000	\$5,121,265	(29.8%)
Residential Demand Response — Build	\$7,000,000	\$4,630,429	(33.9%)
Pool Pumps	\$1,000,000	\$465,356	(53.5%)
Residential Air Conditioning	\$7,000,000	\$2,145,140	(69.4%)
Home Services Total	\$26,900,000	\$14,695,148	(45.4%)
Schools	\$1,600,000	\$992,516	(38.0%)
Commercial Services	\$14,700,000	\$12,648,703	(14.0%)
Commercial Demand Response — Manage	\$800,000	\$449,441	(43.8%)
Commercial Demand Response — Build	\$1,700,000	\$925,633	(45.6%)
Business Services Total	\$18,800,000	\$15,016,293	(20.1%)
DSM Portfolio Total	\$49,800,000	\$33,197,211	(33.3%)

* Docket No. 18-06003, November 11, 2018, Order at 6, para. 5.

** Low-Income program expenditures are not included in the total because they are embedded in all residential programs. See Technical Appendix DSM-26.

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Table DSM-5B: 2019 Sierra Financial Results

Programs	Authorized Budget	Actual Expenditures	Variance Over (Under)
Energy Education	\$475,000	\$252,591	(46.8%)
Energy Reports	\$500,000	\$483,712	(3.3%)
Energy Assessments	\$1,125,000	\$767,014	(31.8%)
Program Development	\$50,000	\$54,528	9.1%
Rate Impact Study*	\$0	\$5,291	
Education and Development Total	\$2,150,000	\$1,563,137	(27.3%)
Residential Lighting	\$1,100,000	\$993,376	(9.7%)
Low Income**	\$600,000	\$932,183**	55.4%
Direct Install	\$150,000	\$115,317	(23.1%)
Residential Demand Response — Manage	\$800,000	\$724,008	(9.5%)
Residential Demand Response — Build	\$2,500,000	\$1,340,451	(46.4%)
Home Services Total	\$5,150,000	\$3,173,152	(38.4%)
Schools	\$600,000	\$701,641	16.9%
Commercial Services	\$5,600,000	\$5,135,080	(8.3%)
Commercial Demand Response — Manage	\$400,000	\$176,759	(55.8%)
Commercial Demand Response — Build	\$900,000	\$610,962	(32.1%)
Business Services Total	\$7,500,000	\$6,624,442	(11.7%)
DSM Portfolio Total	\$14,800,000	\$11,360,730	(23.2%)

* Docket No. 18-06003, November 11, 2018, Order at 6, para. 5.

**Low Income program expenditures are not included in the total because they are embedded in all residential programs. See Technical Appendix DSM-26.

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Table DSM-5C: 2019 NV Energy Financial Results

Programs	Authorized Budget	Actual Expenditures	Variance Over (Under)
Energy Education	\$1,075,000	\$620,813	(42.2%)
Energy Reports	\$1,300,000	\$1,454,287	11.9%
Energy Assessments	\$3,625,000	\$2,828,586	(22.0%)
Program Development	\$250,000	\$127,817	(48.9%)
Rate Impact Study*	\$0	\$17,638	
Education and Development Total	\$6,250,000	\$5,049,140	(19.2%)
Residential Lighting	\$3,200,000	\$3,021,052	(5.6%)
Low Income**	\$2,600,000	\$4,122,650**	58.6%
Direct Install	\$650,000	\$420,599	(35.3%)
Residential Demand Response - Manage	\$8,100,000	\$5,845,272	(27.8%)
Residential Demand Response - Build	\$9,500,000	\$5,970,880	(37.1%)
Pool Pumps	\$1,000,000	\$465,356	(53.5%)
Residential Air Conditioning	\$7,000,000	\$2,145,140	(69.4%)
Home Services Total	\$32,050,000	\$17,868,300	(44.2%)
Schools	\$2,200,000	\$1,694,157	(23.0%)
Commercial Services	\$20,300,000	\$17,783,782	(12.4%)
Commercial Demand Response - Manage	\$1,200,000	\$626,200	(47.8%)
Commercial Demand Response - Build	\$2,600,000	\$1,536,595	(40.9%)
Business Services Total	\$26,300,000	\$21,640,734	(17.7%)
DSM Portfolio Total	\$64,600,000	\$44,557,941	(31.0%)

* Docket No. 18-06003, November 11, 2018, Order at 6, para. 5.

**Low Income program expenditures are not included in the total because they are embedded in all residential programs. See Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
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Table DSM-6A: 2019 Nevada Power Demand and Energy Saving Results

Programs	Demand kW			Energy kWh				
	Target	Verified Demand Savings	Variance Over (Under) %	Target	Verified Energy Savings	Variance Over (Under) %	Effective Useful Life	Lifetime Savings
Energy Education	110	82	(25.5%)	417,000	797,488	91.2%	10.4	8,293,875
Energy Reports	1,500	3,753	150.2%	8,867,000	10,166,568	14.7%	1.0	10,166,568
Energy Assessments	300	2,238	646.0%	2,700,000	8,255,001	205.7%	1.4	11,769,639
Program Development*								
Education and Development Total	1,910	6,073	218.0%	11,984,000	19,219,057	60.4%	1.6	30,230,082
Residential Lighting	1,200	2,462	105.2%	11,210,000	25,288,308	125.6%	13.6	343,920,989
Low Income**	160	0	(100.0%)	1,435,000	0	(100.0%)	0.0	0
Direct Install	110	93	(15.5%)	1,000,000	1,133,663	13.4%	10.7	12,130,194
Residential Demand Response - Manage	126,974	128,687	1.3%	27,413,700	20,735,417	(24.4%)	6.0	124,412,502
Residential Demand Response - Build	28,000	11,493	(59.0%)	3,600,200	2,861,426	(20.5%)	10.0	28,614,260
Pool Pumps	600	853	42.2%	5,310,000	2,398,393	(54.8%)	10.0	23,983,930
Residential Air Conditioning	1,500	1,823	21.5%	13,543,000	2,932,578	(78.3%)	15.9	46,627,990
Home Services Total	158,544	145,411	(8.3%)	63,511,900	55,349,785	(12.9%)	10.5	579,689,865
Schools	1,650	1,197	(27.5%)	14,500,000	7,738,795	(46.6%)	12.7	98,282,697
Commercial Services	18,000	23,650	31.4%	165,737,000	145,574,065	(12.2%)	12.0	1,746,888,780
Commercial Demand Response - Manage	9,800	13,811	40.9%	10,147,600	4,722,039	(53.5%)	4.4	20,776,972
Commercial Demand Response - Build	4,000	5,254	31.4%	1,000,000	49,287	(95.1%)	10.0	492,870
Business Services Total	33,450	43,912	31.3%	191,384,600	158,084,186	(17.4%)	11.8	1,866,441,318
DSM Portfolio Total	193,904	195,396	0.8%	266,880,500	232,653,028	(12.8%)	10.6	2,476,361,265

* Energy and demand savings are not tracked for this program because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
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Table DSM-6B: 2019 Sierra Demand and Energy Savings Results

Programs	Demand kW			Energy kWh				
	Target	Verified Demand Savings	Variance Over (Under) %	Target	Verified Energy Savings	Variance Over (Under) %	Effective Useful Life	Lifetime Savings
Energy Education	90	94	4.4%	866,600	919,736	6.1%	10.2	9,381,307
Energy Reports	850	1,265	48.8%	7,800,000	4,717,940	(39.5%)	1.0	4,717,940
Energy Assessments	130	145	11.5%	1,200,000	568,028	(52.7%)	2.0	1,136,056
Program Development*								
Education and Development Total	1,070	1,504	40.5%	9,866,600	6,205,704	(37.1%)	2.5	15,235,303
Residential Lighting	650	1,043	60.5%	5,877,800	10,711,606	82.2%	12.0	128,539,272
Low Income**	40	0	(100.0%)	367,700	0	(100.0%)	0.0	0
Direct Install	45	19	(57.8%)	400,000	196,978	(50.8%)	12.7	2,501,621
Residential Demand Response - Manage	18,958	9,508	(49.8%)	2,784,600	2,249,512	(19.2%)	8.0	17,996,096
Residential Demand Response - Build	6,000	2,518	(58.0%)	909,100	524,943	(75.2%)	10.0	5,249,430
Home Services Total	25,693	13,088	(49.1%)	10,339,200	13,683,039	29.4%	11.3	154,286,419
Schools	525	636	21.1%	4,600,000	5,664,239	23.1%	13.2	74,767,955
Commercial Services	6,000	9,759	62.7%	52,600,000	68,524,769	30.3%	12.6	863,412,089
Commercial Demand Response - Manage	1,850	4,246	129.5%	626,700	473,970	(24.4%)	7.0	3,317,790
Commercial Demand Response - Build	2,000	859	(57.1%)	500,000	10,473	(98.5%)	10.0	104,730
Business Services Total	10,375	15,500	49.4%	58,326,700	74,673,451	28.0%	12.6	941,602,564
DSM Portfolio Total	37,138	30,092	(19.0%)	78,532,500	94,562,194	20.0%	11.8	1,111,124,286

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

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2020 NV Energy Annual DSM Update Report**

Table DSM-6C: 2019 NV Energy Demand and Energy Savings Results

Programs	Demand kW			Energy kWh				
	Target	Verified Demand Savings	Variance Over (Under) %	Target	Verified Energy Savings	Variance Over (Under) %	Effective Useful Life	Lifetime Savings
Energy Education	200	176	(12.0%)	1,283,600	1,717,224	33.8%	10.3	17,675,182
Energy Reports	2,350	5,018	113.5%	16,667,000	14,884,508	(10.7%)	1.0	14,884,508
Energy Assessments	430	2,383	454.2%	3,900,000	8,823,029	126.2%	1.5	12,905,695
Program Development*								
Education and Development Total	2,980	7,577	154.3%	21,850,600	25,424,761	16.4%	1.8	45,465,385
Residential Lighting	1,850	3,505	89.5%	17,087,800	35,999,914	110.7%	13.1	472,460,261
Low Income**	200	0	(100.0%)	1,802,700	0	(100.0%)	0.0	0
Direct Install	155	112	(27.7%)	1,400,000	1,330,641	(5.0%)	11.0	14,631,815
Residential Demand Response - Manage	145,932	138,195	(5.3%)	30,198,300	22,984,929	(23.9%)	6.2	142,408,598
Residential Demand Response - Build	34,000	14,011	(58.8%)	4,509,300	3,386,369	(24.9%)	10.0	33,863,690
Pool Pumps	600	853	42.2%	5,310,000	2,398,393	(54.8%)	10.0	23,983,930
Residential Air Conditioning	1,500	1,823	21.5%	13,543,000	2,932,578	(78.3%)	15.9	46,627,990
Home Services Total	184,237	158,499	(14.0%)	73,851,100	69,032,824	(6.5%)	10.6	733,976,284
Schools	2,175	1,833	(15.7%)	19,100,000	13,403,034	(29.8%)	12.9	173,050,651
Commercial Services	24,000	33,409	39.2%	218,337,000	214,098,834	(1.9%)	12.2	2,610,300,869
Commercial Demand Response - Manage	11,650	18,057	55.0%	10,774,300	5,196,009	(51.8%)	4.6	24,094,762
Commercial Demand Response - Build	6,000	6,113	1.9%	1,500,000	59,760	(96.0%)	10.0	597,600
Business Services Total	43,825	59,412	35.6%	249,711,300	232,757,637	(6.8%)	12.1	2,808,043,882
DSM Portfolio Total	231,042	225,488	(2.4%)	345,413,000	327,215,222	(5.3%)	11.0	3,587,485,551

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-7A: 2019 Nevada Power TRC Benefits/Costs Results

Programs	Benefits	Costs	Net Benefits	TRC B/C Ratio
Energy Education	\$265,439	\$368,221	(\$102,782)	0.72
Energy Reports	\$760,407	\$970,575	(\$210,168)	0.78
Energy Assessments	\$852,006	\$2,061,340	(\$1,209,334)	0.41
Program Development*				
Education and Development Total	\$1,877,852	\$3,400,136	(\$1,522,285)	0.55
Residential Lighting	\$6,428,534	\$3,632,618	\$2,795,916	1.77
Low Income**				
Direct Install	\$319,863	\$305,282	\$14,581	1.05
Residential Demand Response - Manage	\$91,093,900	\$20,361,891	\$70,732,009	4.47
Residential Demand Response - Build	\$12,363,280	\$6,849,275	\$5,514,005	1.81
Pool Pumps	\$963,364	\$632,782	\$330,582	1.52
Residential Air Conditioning	\$2,866,242	\$3,267,205	(\$400,963)	0.88
Home Services Total	\$114,035,182	\$35,049,052	\$78,986,130	3.25
Schools	\$2,800,221	\$2,076,354	\$723,866	1.35
Commercial Services	\$57,510,187	\$30,735,303	\$26,774,884	1.87
Commercial Demand Response - Manage	\$8,804,801	\$1,352,620	\$7,452,181	6.51
Commercial Demand Response - Build	\$5,263,254	\$1,767,487	\$3,495,767	2.98
Business Services Total	\$74,378,462	\$35,931,764	\$38,446,698	2.07
DSM Portfolio Total	\$190,292,501	\$74,380,953	\$115,911,549	2.56

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-7B: 2019 Sierra TRC Benefits/Costs Results

Programs	Benefits	Costs	Net Benefits	TRC B/C Ratio
Energy Education	\$329,619	\$252,591	\$77,028	1.30
Energy Reports	\$290,990	\$483,712	(\$192,722)	0.60
Energy Assessments	\$205,495	\$767,014	(\$561,519)	0.27
Program Development*				
Education and Development Total	\$826,104	\$1,503,317	(\$677,213)	0.55
Residential Lighting	\$2,473,266	\$1,626,828	\$846,438	1.52
Low Income**				
Direct Install	\$73,561	\$115,317	(\$41,756)	0.64
Residential Demand Response - Manage	\$9,316,572	\$4,525,025	\$4,791,547	2.06
Residential Demand Response - Build	\$2,829,226	\$2,567,182	\$262,044	1.10
Home Services Total	\$14,692,625	\$8,834,352	\$5,858,273	1.66
Schools	\$1,941,074	\$1,431,736	\$509,338	1.36
Commercial Services	\$23,637,025	\$12,131,168	\$11,505,857	1.95
Commercial Demand Response - Manage	\$3,428,396	\$940,569	\$2,487,826	3.65
Commercial Demand Response - Build	\$889,515	\$818,076	\$71,439	1.09
Business Services Total	\$29,896,010	\$15,321,550	\$14,574,460	1.95
DSM Portfolio Total	\$45,414,740	\$25,659,219	\$19,755,521	1.77

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-7C: 2019 NV Energy TRC Benefits/Costs Results

Programs	Benefits	Costs	Net Benefits	TRC B/C Ratio
Energy Education	\$595,058	\$620,812	(\$25,754)	0.96
Energy Reports	\$1,051,396	\$1,454,287	(\$402,891)	0.72
Energy Assessments	\$1,057,501	\$2,828,354	(\$1,770,853)	0.37
Program Development*				
Education and Development Total	\$2,703,956	\$4,903,453	(\$2,199,497)	0.55
Residential Lighting	\$8,901,800	\$5,259,446	\$3,642,354	1.69
Low Income**	\$0	\$0	\$0	0.00
Direct Install	\$393,424	\$420,599	(\$27,175)	0.94
Residential Demand Response - Manage	\$100,410,472	\$24,886,916	\$75,523,556	4.03
Residential Demand Response - Build	\$15,192,505	\$9,416,457	\$5,776,049	1.61
Pool Pumps	\$963,364	\$632,782	\$330,582	1.52
Residential Air Conditioning	\$2,866,242	\$3,267,205	(\$400,963)	0.88
Home Services Total	\$128,727,808	\$43,883,405	\$84,844,403	2.93
Schools	\$4,741,295	\$3,508,091	\$1,233,204	1.35
Commercial Services	\$81,147,212	\$42,866,471	\$38,280,741	1.89
Commercial Demand Response - Manage	\$12,233,196	\$2,293,189	\$9,940,007	5.33
Commercial Demand Response - Build	\$6,152,769	\$2,585,563	\$3,567,206	2.38
Business Services Total	\$104,274,472	\$51,253,314	\$53,021,158	2.03
DSM Portfolio Total	\$235,707,241	\$100,040,172	\$135,667,069	2.36

* Energy and demand savings are not tracked for this program, because it is predicated on testing and trials of new potential programs and/or technologies.

** The Low Income program potential savings are provided in Technical Appendix DSM-26.

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-8A: 2019 Nevada Power Annual Environmental Benefits

Programs	Sulfur Dioxide (lbs.)	Carbon Dioxide (lbs.)	Carbon Monoxide (lbs.)	Particulate Matter (lbs.)	Volatile Organic Compounds (lbs.)	Nitrogen Oxides (lbs.)	Heavy Metals (lbs.)	Water Savings (Gallons)
Energy Education	24	509,730	17	23	0	96	7	31,803
Energy Reports	305	6,498,165	218	292	0	1,220	91	405,434
Energy Assessments	248	5,276,349	177	237	0	991	74	329,202
Program Development	0	0	0	0	0	0	0	0
Education and Development Total	577	12,284,245	412	553	0	2,306	173	766,439
Residential Lighting	759	16,163,528	542	727	0	3,035	228	1,008,476
Low Income	0	0	0	0	0	0	0	0
Direct Install	34	724,603	24	33	0	136	10	45,210
Residential Demand Response - Manage	622	13,253,456	444	596	0	2,488	187	826,911
Residential Demand Response - Build	86	1,828,938	61	82	0	343	26	114,111
Pool Pumps	72	1,532,981	51	69	0	288	22	95,646
Residential Air Conditioning	88	1,874,416	63	84	0	352	26	116,949
Home Services Total	1,660	35,377,922	1,185	1,592	0	6,642	498	2,207,302
Schools	232	4,946,406	166	223	0	929	70	308,616
Commercial Services	4,367	93,046,575	3,118	4,187	0	17,469	1,310	5,805,368
Commercial Demand Response - Manage	142	3,018,186	101	136	0	567	42	188,311
Commercial Demand Response - Build	1	31,503	1	1	0	6	0	1,966
Business Services Total	4,743	101,042,669	3,386	4,547	0	18,970	1,423	6,304,261
DSM Portfolio Total	6,980	148,704,836	4,983	6,691	0	27,918	2,094	9,278,002

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-8B: 2019 Sierra Annual Environmental Benefits

Programs	Sulfur Dioxide (lbs.)	Carbon Dioxide (lbs.)	Carbon Monoxide (lbs.)	Particulate Matter (lbs.)	Volatile Organic Compounds (lbs.)	Nitrogen Oxides (lbs.)	Heavy Metals (lbs.)	Water Savings (Gallons)
Energy Education	736	819,209	420	46	0	745	8	408,303
Energy Reports	3,774	4,202,269	2,152	238	0	3,822	42	2,094,460
Energy Assessments	454	505,943	259	29	0	460	5	252,168
Program Development	0	0	0	0	0	0	0	0
Education and Development Total	4,965	5,527,421	2,831	313	0	5,027	56	2,754,930
Residential Lighting	8,569	9,540,827	4,886	540	0	8,676	96	4,755,259
Low Income	0	0	0	0	0	0	0	0
Direct Install	158	175,448	90	10	0	160	2	87,445
Residential Demand Response - Manage	1,800	2,003,640	1,026	113	0	1,822	20	998,638
Residential Demand Response - Build	420	467,567	239	26	0	425	5	233,041
Home Services Total	10,946	12,187,483	6,241	689	0	11,083	123	6,074,382
Schools	4,531	5,045,138	2,584	285	0	4,588	51	2,514,555
Commercial Services	54,820	61,035,012	31,257	3,453	0	55,505	617	30,420,556
Commercial Demand Response - Manage	379	422,165	216	24	0	384	4	210,412
Commercial Demand Response - Build	8	9,328	5	1	0	8	0	4,649
Business Services Total	59,739	66,511,643	34,062	3,763	0	60,485	672	33,150,173
DSM Portfolio Total	75,650	84,226,546	43,134	4,765	0	76,595	851	41,979,485

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-8C: 2019 NV Energy Annual Environmental Benefits

Programs	Sulfur Dioxide (lbs.)	Carbon Dioxide (lbs.)	Carbon Monoxide (lbs.)	Particulate Matter (lbs.)	Volatile Organic Compounds (lbs.)	Nitrogen Oxides (lbs.)	Heavy Metals (lbs.)	Water Savings (Gallons)
Energy Education	760	1,328,939	437	69	0	841	15	440,106
Energy Reports	4,079	10,700,434	2,370	530	0	5,042	134	2,499,894
Energy Assessments	702	5,782,292	436	266	0	1,451	79	581,370
Program Development	0	0	0	0	0	0	0	0
Education and Development Total	5,541	17,811,665	3,242	865	0	7,333	229	3,521,370
Residential Lighting	9,328	25,704,355	5,428	1,267	0	11,711	324	5,763,735
Low Income	0	0	0	0	0	0	0	0
Direct Install	192	900,052	114	43	0	296	12	132,655
Residential Demand Response - Manage	2,422	15,257,097	1,470	710	0	4,310	207	1,825,548
Residential Demand Response - Build	506	2,296,504	301	109	0	769	30	347,152
Pool Pumps	72	1,532,981	51	69	0	288	22	95,646
Residential Air Conditioning	88	1,874,416	63	84	0	352	26	116,949
Home Services Total	12,607	47,565,405	7,427	2,281	0	17,725	621	8,281,684
Schools	4,764	9,991,543	2,749	508	0	5,517	121	2,823,171
Commercial Services	59,187	154,081,587	34,375	7,640	0	72,974	1,927	36,225,924
Commercial Demand Response - Manage	521	3,440,351	317	160	0	951	47	398,723
Commercial Demand Response - Build	10	40,831	6	2	0	14	1	6,615
Business Services Total	64,481	167,554,312	37,447	8,309	0	79,456	2,095	39,454,433
DSM Portfolio Total	82,629	232,931,382	48,116	11,456	0	104,514	2,945	51,257,487

**Nevada Power Company d/b/a as NV Energy
Sierra Pacific Power Company d/b/a NV Energy
2020 NV Energy Annual DSM Update Report**

Table DSM-9A: Nevada Power Historical Performance

DSM Portfolio	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Energy Savings (MW)	240,976	220,717	146,407	139,217	178,522	197,532	164,481	191,058	155,631	232,653
EE Peak Reduction*	32	34	24	23	29	28	25	24	16	36
DR Peak Reduction*	148	138	154	179	189	206	217	224	183	159
Expenditures (\$000)	\$38,722	\$38,863	\$33,347	\$34,373	\$41,750	\$36,165	\$38,309	\$39,391	\$34,256	\$33,197
Energy Savings**	1.15%	1.06%	0.68%	0.66%	0.85%	0.91%	0.76%	0.93%	0.78%	1.15%

* Shown in megawatts ("MW").

** Percent of weather-normalized retail sales.

Table DSM-9B: Sierra Historical Performance

DSM Portfolio	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Energy Savings (MW)	62,899	57,474	36,065	37,982	52,676	48,371	61,120	56,367	60,356	94,562
EE Peak Reduction*	9	8	6	5	8	7	9	7	7	13
DR Peak Reduction*	0	0	0	0	3	9	11	18	19	17
Expenditures (\$000)	\$7,655	\$6,307	\$5,322	\$5,018	\$7,125	\$9,340	\$10,680	\$10,960	\$11,928	\$11,361
Energy Savings**	0.83%	0.75%	0.45%	0.47%	0.65%	0.59%	0.73%	0.65%	0.69%	1.04%

* Shown in megawatts ("MW").

** Percent of weather-normalized retail sales.

Table DSM-9C: NV Energy Historical Performance

DSM Portfolio	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Energy Savings (MW)	303,875	278,191	182,472	177,199	231,199	245,903	225,601	247,425	215,987	327,215
EE Peak Reduction*	41	42	30	28	37	35	34	31	22	49
DR Peak Reduction*	148	138	154	179	192	215	228	242	201	176
Expenditures (\$000)	\$46,377	\$45,170	\$38,669	\$39,391	\$48,875	\$45,505	\$48,989	\$50,351	\$46,184	\$44,558
Energy Savings**	1.07%	0.98%	0.62%	0.60%	0.79%	0.82%	0.75%	0.85%	0.75%	1.12%

* Shown in megawatts ("MW").

** Percent of weather normalized retail sales.

ATTACHMENT 5

NV ENERGY RATE OF RETURN ANALYSIS

NV Energy Earned Rate of Return Analysis

	In 000's, Rolling 12 Months Ended							
	2020	2019	2018	2017	2016	2015	2014	
Nevada Power Company	31-Mar	31-Dec	31-Dec	31-Dec	31-Dec	31-Dec	31-Dec	31-Mar
Total Operating Revenues	2,171,874	2,188,798	2,227,557	2,288,247	2,147,780	2,455,871	2,405,153	2,256,363
BTGR O&M Expense	274,787	276,242	279,425	300,096	308,569	307,584	328,941	321,982
Total Operating Expenses	1,796,810	1,818,261	968,336	1,869,237	1,722,038	2,030,892	1,955,871	1,816,003
Operating Income	375,064	370,536	408,642	419,010	425,743	424,979	449,282	440,360
Net Income	271,586	265,714	288,194	275,992	286,975	284,304	283,782	266,096
Gross Plant in Service	9,047,963	8,988,239	9,020,318	8,456,307	8,949,957	8,719,540	8,485,334	8,359,066
Accum Prov for Depr & Amort	(3,253,193)	(3,189,347)	(3,181,972)	(2,765,105)	(3,156,202)	(2,944,288)	(2,713,412)	(2,440,633)
Net Plant in Service	5,794,770	5,798,892	5,838,346	5,691,202	5,793,755	5,775,252	5,771,922	5,918,434
Rate Base	4,548,820	4,556,685	4,699,498	4,569,873	4,675,090	4,718,335	4,900,023	5,159,856
Common Equity Percentage	51.85%	53.37%	54.26%	49.77%	52.45%	52.32%	47.99%	48.06%
Earned Rate of Return	8.25%	8.14%	8.70%	9.30%	9.24%	9.14%	9.17%	8.54%
Earned Return on Equity	11.52%	10.93%	11.30%	12.14%	11.70%	11.52%	12.07%	10.73%
Authorized Rate of Return	7.95%	7.95%	7.95%	8.09%	8.09%	8.09%	8.09%	8.09%
Authorized Return on Equity	9.40%	9.40%	9.40%	9.80%	9.80%	9.80%	10.00%	10.00%
Sierra Pacific Power Company - Electric								
Total Operating Revenues	751,044	754,074	748,487	679,423	635,909	733,593	750,755	751,763
BTGR O&M Expense	125,668	125,377	115,409	116,160	115,108	121,350	111,946	127,458
Total Operating Expenses	626,764	630,843	621,617	559,779	519,028	611,956	621,651	615,251
Operating Income	124,280	123,231	126,870	119,644	116,881	121,637	129,104	136,512
Net Income	91,650	90,360	94,366	88,505	84,973	74,091	84,009	92,757
Gross Plant in Service	3,817,049	3,773,895	3,625,174	3,455,116	3,377,487	3,294,085	3,059,609	3,041,021
Accum Prov for Depr & Amort	(1,528,771)	(1,508,052)	(1,452,730)	(1,379,251)	(1,317,536)	(1,268,670)	(1,228,225)	(1,266,298)
Net Plant in Service	2,288,278	2,265,842	2,172,443	2,075,865	2,059,951	2,025,415	1,831,384	1,774,723
Rate Base	1,841,640	1,797,497	1,721,593	1,622,201	1,603,514	1,611,719	1,473,682	1,480,161
Common Equity Percentage	53.66%	53.17%	52.47%	50.64%	49.15%	47.47%	46.65%	46.68%
Earned Rate of Return	6.76%	6.87%	7.38%	7.39%	7.29%	7.55%	8.76%	9.29%
Earned Return on Equity	9.27%	9.45%	10.45%	10.77%	10.78%	9.68%	12.49%	13.42%
Authorized Rate of Return	6.75%	6.65%	6.65%	6.65%	7.62%	7.62%	7.62%	7.62%
Authorized Return on Equity	9.50%	9.60%	9.60%	9.60%	9.80%	9.80%	9.80%	9.80%

ATTACHMENT 6A

ANNUAL DEFERRED ACCOUNTING ADJUSTMENT APPLICATION

Docket No. 19-03001

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

Annual Deferred Energy Accounting Adjustment Application of Nevada Power Company d/b/a NV Energy for the 12-month period ending December 31, 2018, reset the Temporary Renewable Energy Development Charge, reset all components of the Total Renewable Energy Program Rates, reset the Base Energy Efficiency Program Rates, reset the Base Energy Efficiency Implementation Rates, reset the Energy Efficiency Program Amortization Rate, and reset the Energy Efficiency Implementation Amortization Rate and refund the total amount of Energy Efficiency Implementation Rate Adjustment revenue received in 2018, including carrying charges.

Docket No. 19-03 _____

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APPLICATION, DRAFT NOTICE AND EXHIBITS

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NEVADA POWER COMPANY
d/b/a NV Energy
REGULATORY RETURN ON EQUITY
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2018
(IN THOUSANDS)

Exhibit M
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Hausman

Ln No	Section	Item No	(a) Description	(b) Total Reported	(c)	(d) Non Rate-Base	(e) FERC Jurisdiction	(f) Nevada Jurisdiction	(g)	Ln No
1	I		Rate Base							1
2		1	Utility Plant							2
3		1a	Utility Plant in Service	\$ 9,156,950		\$ -	\$ 225,647	\$ 8,931,304		3
4		1b	Electric Plant Held for Future Use	4,559		4,559	-	-		4
5		1c	Capital Leases	455,582		455,582	-	-		5
6		1d	Asset Retirement Obligation	24,679		24,679	-	-		6
7		2	Construction Work in Progress	84,776		84,776	-	-		7
8		3	(Less) Accum Prov Depreciation							8
9		3a	Utility Plant in Service	(3,167,500)		-	(66,328)	(3,101,172)		9
10		3b	Electric Plant Held for Future Use	(1,319)		(1,319)	-	-		10
11		3c	Asset Retirement Obligation	(12,765)		(12,765)	-	-		11
12		4	Other Property and Investments	38,727		38,727	-	-		12
13		5	Working Capital							13
14		5a	Fuel Stock	4,495		-	-	4,495		14
15		5b	Materials and Supplies	54,494		-	1,362	53,132		15
16		5c	Prepayments	55,185		-	673	54,512		16
17		5d	Cash Working Capital - Assets	435,861		455,897	(370)	(19,667)		17
18		5e	Cash Working Capital - Liabilities	(351,245)		(351,245)	-	-		18
19		6	(Less) Accumulated Uncollectibles	(15,542)		-	-	(15,542)		19
20		7	Regulatory Assets							20
21		7a	Included in Nevada retail rate base	559,764		-	-	559,764		21
22		7b	Excluded in Nevada retail rate base	186,128		186,128	-	-		22
23		7c	Other recovery method - balancing accounts	39,978		39,978	-	-		23
24		7d	GAAP	6,092		6,092	-	-		24
25		7e	Tax	0		-	-	0		25
26		8	Miscellaneous Deferred Debits							26
27		8a	Included in Nevada retail rate base	91,036		-	1,107	89,929		27
28		8b	Excluded in Nevada retail rate base	1,011		1,011	-	-		28
29		8c	Asset Retirement Obligations	69,138		69,138	-	-		29
30		8d	Other recovery method	-		-	-	-		30
31		8e	Pension - AOCI Adjustment	-		33,521	-	(33,521)		31
32		9	Other Deferred Debits	54,865		54,865	-	-		32
33		10	(Less) Accum Deferred Taxes							33
34		10a	Asset	864,203		-	-	864,203		34
35		10b	Liability	(1,624,040)		3,675	(35,280)	(1,592,435)		35
36		10c	Investment Tax Credit	(13,291)		-	(358)	(12,933)		36
37		11	Obligations Under Capital Leases	(467,887)		(467,887)	-	-		37
38		12	(Less) Reserves	(60,918)		-	(766)	(60,152)		38
39		13	Accumulated Provision for Rate Refunds	(1,447)		(1,447)	-	-		39
40		14	Derivative Instrument Liabilities	(6,092)		(6,092)	-	-		40
41		15	Asset Retirement Obligations	(81,052)		(81,052)	-	-		41
42		16	(Less) Customer Advances - Constr	(58,365)		-	-	(58,365)		42
43		17	Regulatory Liabilities							43
44		17a	Included in Nevada retail rate base	(90,555)		-	-	(90,555)		44
45		17b	Other recovery method - balancing accounts	(59,131)		(59,131)	-	-		45
46		17c	GAAP	(47,855)		(47,855)	-	-		46
47		17d	Tax	(669,657)		-	-	(669,657)		47
48		17e	Current year earnings sharing accrual	(17,140)		-	-	(17,140)		48
49		18	Other deferred credits	(83,789)		-	-	(83,789)		49
50		19	Unamortized Gain on Reacquired Debt	(173)		(173)	-	-		50
51		20	Long-Term Debt	(2,576,292)		(2,576,292)	-	-		51
52		21	Total Net Utility Rate Base	\$ 2,781,469		\$ (2,146,630)	\$ 125,687	\$ 4,802,412		52
53										53
54		22	Total Proprietary Capital	(2,781,469)						54
55										55
56		23	Total Assets	8,990,398						56
57		24	Total Liabilities and Stockholders Equity	(8,990,398)						57

NEVADA POWER COMPANY
d/b/a NV Energy
REGULATORY RETURN ON EQUITY
FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2018
(IN THOUSANDS)

Exhibit M
Page 2 of 2
Hausman

Ln No	Section	Item No	(a) Description	(b) Total Reported	(c)	(d) Non Rate-Base	(e) FERC Jurisdiction	(f) Nevada Jurisdiction	(g)	Ln No
1	II		Income Statement							1
2		25	Operating Revenues	\$ 2,256,527		\$ -	\$ 28,805	\$ 2,227,722		2
3		26	Operating Expenses:							3
4		26a	Operations & Maintenance	1,307,934		-	9,948	1,297,986		4
5		26b	Depreciation & Amortization	397,281		-	4,735	392,546		5
6		26c	Taxes Other than Income Taxes	48,149		-	1,034	47,115		6
7		26d	Income Taxes	72,376		-	2,748	69,627		7
8		26e	Investment Tax Credit - Net	(572)		-	(15)	(557)		8
9		26f	Gains/Losses from Disposition of Allowances	(0)		-	-	(0)		9
10		27	Total Operating Expenses	\$ 1,825,168		\$ -	\$ 18,450	\$ 1,806,718		10
11										11
12		28	Operating Income Before Adjustments	\$ 431,359		\$ -	\$ 10,355	\$ 421,004		12
13		29	Carry on regulatory assets/liabilities					1,586		13
14		30	Lenzie incentive					(3,980)		14
15		31	Tax on Line 30					836		15
16		32	Net Operating Income					\$ 419,446		16
17										17
18		33	Other Income	16,404						18
19		34	Other Deductions	(53,217)						19
20		35	Taxes on Other Income and Deductions	(336)						20
21		36	Interest Charges	(167,881)						21
22		37	Net Income	\$ 226,328						22
23										23
24		38	Return on Rate Base (net operating income/adjusted net utility rate base)					8.73 %		24
25										25
26	III		Cost of Capital (5-quarter average)							26
27				Amount	Ratio	Cost %	Average Cost			27
28		39	Short-Term Debt	(a)	(b)	(c)	(d)			28
29		40	Customer Deposits	-	- %	0.00 %	- %			29
30		41	Long Term Debt	53,192	0.98 %	0.38 %	0.00 %			30
31		42	Common Equity	2,582,725	47.65 %	6.17 %	2.94 %			31
32		43	Total	2,783,927	51.37 %					32
33				\$ 5,419,844						33
34	IV		Summary					Adjustment	Allowed	34
35		44	Operating Income				\$ 419,446		\$ 382,016	35
36		45	Rate Base				4,802,412	17,140	4,819,552	36
37		46	Rate of Return				8.73 %		7.93 %	37
38		47	Cost of Debt & Preferred				2.94 %		2.94 %	38
39		48	Available for Common				5.79 %		4.98 %	39
40		49	Common Equity Percentage				51.37 %		51.37 %	40
41		50	Imputed Return on Common				11.27 %		9.70 %	41
42		51	SEC Return on Equity (5-point)		8.14 %					42
43										43
44	V		Earnings Sharing							44
45			Sharing Over 9.7% ROE							45
46		52	Operating Income				\$ 419,446			46
47		53	Plus Accrual for Sharing				38,182			47
48		54	Plus Long-term incentive plan accrual				1,042			48
49		55	Tax on Lines 2-3				(8,237)			49
50		56	Adjusted Operating Income				\$ 450,433			50
51		57	Operating Income @ 9.7%				382,016			51
52		58	Difference				68,417			52
53		59	50% Sharing				34,209			53
54		60	Tax Gross Up Factor				21.00 %			54
55		61	Tax Gross UP Dollars				9,093			55
56		62	Sharing Over 9.7% ROE				\$ 43,302			56

ATTACHMENT 6B

ANNUAL DEFERRED ACCOUNTING ADJUSTMENT APPLICATION

Docket No. 20-02026

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

Annual Deferred Energy Accounting Adjustment Application of Nevada Power Company d/b/a NV Energy for the 12-month period ending December 31, 2019, reset the Temporary Renewable Energy Development Charge, reset all components of the Total Renewable Energy Program Rate, reset the Base Energy Efficiency Program Rates, reset the Base Energy Efficiency Implementation Rates, reset the Energy Efficiency Program Amortization Rate, and reset the Energy Efficiency Implementation Amortization Rate and refund the total amount of Energy Efficiency Implementation Rate Adjustment revenue received in 2019, including carrying charges.

Docket No. 20-02 _____**VOLUME 2 OF 12****APPLICATION, DRAFT NOTICE AND EXHIBITS**

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John (Jack) P. McGinley	160
Cynthia Alejandre	181
Jeffrey R. Bohrman	191
Stacy C. Chang (REDACTED)	207

Nevada Power Company
Regulatory Return on Equity
For Period Ending 2019-Q4
As of December 2019
(in thousands)

Exhibit M
Page 1 of 2
Green

Ln	Item	(a)	(b)	(c)	(d)	(e)	(f)	(g)	Ln
No	Section	No	Total		Non	FERC	Nevada		No
		Description	Reported		Rate-Base	Jurisdiction	Jurisdiction		
1	I	Rate Base							1
2	1	Utility Plant							2
3	1a	Utility Plant in Service	9,309,903		-	240,117	9,063,441		3
4	1b	Electric Plant Held for Future Use	7,874		7,874	-	-		4
5	1c	Capital Leases	466,280		466,280	-	-		5
6	1d	Asset Retirement Obligation	17,918		17,918	-	-		6
7	2	Construction Work in Progress	142,873		142,873	-	-		7
8	3	(Less) Accum Prov Depreciation							8
9	3a	Utility Plant in Service	(3,320,327)		-	(73,749)	(3,246,578)		9
10	3b	Electric Plant Held for Future Use	(816)		(816)	-	-		10
11	3c	Asset Retirement Obligation	(8,777)		(8,777)	-	-		11
12	4	Other Property and Investments	39,606		39,606	-	-		12
13	5	Working Capital							13
14	5a	Fuel Stock	4,329		-	-	4,329		14
15	5b	Materials and Supplies	57,729		-	1,502	56,227		15
16	5c	Prepayments	56,682		-	693	55,989		16
17	5d	Cash Working Capital - Assets	380,634		395,457	(260)	(14,564)		17
18	5e	Cash Working Capital - Liabilities	(346,047)		(346,047)	-	-		18
19	6	(Less) Accumulated Uncollectibles	(14,198)		-	-	(14,198)		19
20	7	Regulatory Assets							20
21	7a	Included in Nevada retail rate base	510,534		-	-	510,534		21
22	7b	Excluded in Nevada retail rate base	184,992		184,992	-	-		22
23	7c	Other recovery method - balancing accounts	35,098		35,098	-	-		23
24	7d	GAAP	9,725		9,725	-	-		24
25	7e	Tax	24,429		-	-	24,429		25
26	8	Miscellaneous Deferred Debits							26
27	8a	Included in Nevada retail rate base	99,773		-	1,210	98,563		27
28	8b	Excluded in Nevada retail rate base	839		839	-	-		28
29	8c	Asset Retirement Obligations	66,635		66,635	-	-		29
30	8d	Other recovery method	-		-	-	-		30
31	8e	Pension - AOCI Adjustment	-		33,521	-	(33,521)		31
32	9	Other Deferred Debits	54,524		54,524	-	-		32
33	10	(Less) Accum Deferred Taxes							33
34	10a	Asset	862,307		-	-	862,307		34
35	10b	Liability	(1,596,042)		5,724	(36,420)	(1,565,345)		35
36	10c	Investment Tax Credit	(12,744)		-	(361)	(12,383)		36
37	11	Obligations Under Capital Leases	(472,906)		(472,906)	-	-		37
38	12	(Less) Reserves	(57,601)		-	(726)	(56,875)		38
39	13	Accumulated Provision for Rate Refunds	(1,349)		(1,349)	-	-		39
40	14	Derivative Instrument Liabilities	(9,725)		(9,725)	-	-		40
41	15	Asset Retirement Obligations	(75,776)		(75,776)	-	-		41
42	16	(Less) Customer Advances - Constr	(64,595)		-	-	(64,595)		42
43	17	Regulatory Liabilities							43
44	17a	Included in Nevada retail rate base	(96,594)		-	-	(96,594)		44
45	17b	Other recovery method - balancing accounts	(77,316)		(77,316)	-	-		45
46	17c	GAAP	(49,981)		(49,981)	-	-		46
47	17d	Tax	(703,002)		-	-	(703,002)		47
48	17e	Current year earnings sharing accrual	(53,203)		-	-	(53,203)		48
49	18	Other deferred credits	(94,231)		-	-	(94,231)		49
50	19	Unamortized Gain on Reacquired Debt	(162)		(162)	-	-		50
51	20	Long-Term Debt	(2,376,135)		(2,376,135)	-	-		51
52	21	Total Net Utility Rate Base	\$ 2,901,158		\$ (1,957,923)	\$ 132,007	\$ 4,720,730		52
53									53
54	22	Total Proprietary Capital	(2,894,420)						54
55									55
56	23	Total Assets	8,988,566						56
57	24	Total Liabilities and Stockholders Equity	(8,981,828)						57

Nevada Power Company
Regulatory Return on Equity
For Period Ending 2019-Q4
As of December 2019
(in thousands)

Exhibit M
Page 2 of 2
Green

Ln No	Section	Item No	(a) Description	(b) Total Reported	(c) Non Rate-Base	(d) FERC Jurisdiction	(e) Nevada Jurisdiction	(f)	(g)	Ln No
1	II		Income Statement							1
2		25	Operating Revenues	2,220,672	-	31,781	2,188,891			2
3		26	Operating Expenses:							3
4		26a	Operations & Maintenance	1,327,487	-	10,579	1,316,908			4
5		26b	Depreciation & Amortization	383,979	-	4,747	379,233			5
6		26c	Taxes Other than Income Taxes	52,200	-	85	52,114			6
7		26d	Income Taxes	71,110	-	3,438	67,673			7
8		26e	Investment Tax Credit - Net	(519)	-	(15)	(505)			8
9		26f	Gains/Losses from Disposition of Allowances	(0)	-	-	(0)			9
10		27	Total Operating Expenses	\$ 1,834,256	\$ -	\$ 18,834	\$ 1,815,423			10
11										11
12		28	Operating Income Before Adjustments	\$ 386,415	\$ -	\$ 12,947	\$ 373,468			12
13		29	Carry on regulatory assets/liabilities				4,582			13
14		30	Lenzie incentive				(3,980)			14
15		31	Tax on Line 30				836			15
16		32	Net Operating Income				\$ 374,906			16
17										17
18		33	Other Income	27,666						18
19		34	Other Deductions	(13,419)						19
20		35	Taxes on Other Income and Deductions	(2,335)						20
21		36	Interest Charges	(132,814)						21
22		37	Net Income	\$ 265,513						22
23										23
24		38	Return on Rate Base (net operating income/adjusted net utility rate base)				7.94 %			24
25										25
26	III		Cost of Capital (5-quarter average)							26
27				Amount	Ratio	Cost %	Weighted Average Cost			27
28		39	Short-Term Debt	-	- %	- %	- %			28
29		40	Customer Deposits	59,555	1.12 %	0.41 %	0.00 %			29
30		41	Long Term Debt	2,383,749	44.64 %	5.26 %	2.35 %			30
31		42	Common Equity	2,896,409	54.24 %					31
32		43	Total	\$ 5,339,713						32
33										33
34	IV		Summary					Adjustment	Allowed	34
35		44	Operating Income			\$ 374,906		\$ 363,484		35
36		45	Rate Base			\$ 4,720,730	\$ 53,203	\$ 4,773,934		36
37		46	Rate of Return			7.94 %		7.61 %		37
38		47	Cost of Debt & Preferred			2.35 %		2.35 %		38
39		48	Available for Common			5.59 %		5.26 %		39
40		49	Common Equity Percentage			54.24 %		54.24 %		40
41		50	Imputed Return on Common			10.30 %		9.70 %		41
42		51	SEC Return on Equity (5-point)	9.15 %						42
43										43
44	V		Earnings Sharing							44
45			Sharing Over 9.7% ROE							45
46		52	Operating Income			\$ 374,906,007.85				46
47		53	Plus Accrual for Sharing			16,373,482.26				47
48		54	Plus Long-term incentive plan accrual			1,915,310.49				48
49		55	Tax on Lines 2-3			(3,840,646.48)				49
50		56	Adjusted Operating Income			\$ 389,354,154.12				50
51		57	Operating Income @ 9.7%			363,484,052.14				51
52		58	Difference			25,870,101.98				52
53		59	50% Sharing			12,935,050.99				53
54		60	Tax Gross Up Factor			21.00 %				54
55		61	Tax Gross UP Dollars			3,438,431.28				55
56		62	Sharing Over 9.7% ROE			\$ 16,373,482.26				56

ATTACHMENT 7A

**SPPC SINGLE-FAMILY RESIDENTIAL
AVERAGE MONTHLY RATES**

Sierra Pacific Power Company

Single-family Residential Rates -Average Monthly Bill
771 kWh (Normalized Adjusted - Docket No. 19-06002)

		GENERAL RATES							FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS			
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
		Customer Charge	Base Tariff	General Rate (BTGR) per kWh	BTGR Cost				Base Tariff Energy Rate (BTER)	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost	Total Fuel & Purchased Power Cost				
Jul-20	\$78.43	\$15.25	BTGR	0.05208	\$40.15		\$1.71	\$57.12	0.02952	\$22.76	(0.00306)	(\$2.36)	\$20.40	\$0.92	0.10173	GRC 19-06002 QF&PP 20-05011	
Apr-20	\$80.26	\$15.25	BTGR	0.05083	\$39.19		\$1.71	\$56.15	0.03199	\$24.66	(0.00191)	(\$1.47)	\$23.19	\$0.92	0.10410	QF&PP 20-02011	
Jan-20	\$84.21	\$15.25	BTGR	0.05319	\$41.01		\$1.71	\$57.97	0.03284	\$25.32	0.00000	\$0.00	\$25.32	\$0.92	0.10922	GRC 19-06002 QF&PP 19-11017	
Oct-19	\$86.17	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.71	\$58.43	0.03479	\$26.82	0.00000	\$0.00	\$26.82	\$0.92	0.11176	DEAA 19-03002 QF&PP 19-08017	
Jul-19	\$88.19	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.20	\$57.91	0.03465	\$26.72	0.00000	\$0.00	\$26.72	\$3.57	0.11439	QF&PP 19-05024	
Apr-19	\$86.46	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.20	\$57.91	0.03240	\$24.98	0.00000	\$0.00	\$24.98	\$3.57	0.11214	QF&PP 19-02018	
Jan-19	\$85.82	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.20	\$57.91	0.03157	\$24.34	0.00000	\$0.00	\$24.34	\$3.57	0.11131	QF&PP 18-11011	
Oct-18	\$85.57	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.20	\$57.91	0.03124	\$24.09	0.00000	\$0.00	\$24.09	\$3.57	0.11098	DEAA 18-03003 QF&PP 18-08009	
Jul-18	\$86.91	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.38	\$58.09	0.03268	\$25.20	0.00000	\$0.00	\$25.20	\$3.62	0.11273	QF&PP 18-05012	
Apr-18	\$87.83	\$15.25	TRRR (0.00378) BTGR 0.05793 GRC Cr. (0.00037)		\$41.46		\$1.38	\$58.09	0.03387	\$26.11	0.00000	\$0.00	\$26.11	\$3.62	0.11392	TAX 18-02011 QF&PP 18-02015	

Sierra Pacific Power Company

Single-family Residential Rates -Average Monthly Bill
771 kWh (Normalized Adjusted - Docket No. 19-06002)

		GENERAL RATES						FUEL & PURCHASED POWER RATES						RENEWABLE PROGRAMS					
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)			EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost			Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh		TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
		Customer Charge	Base Tariff Rate (BTGR) per kWh	General Rate (BTGR) per kWh	BTGR Cost			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	Base Tariff Energy Rate (BTERR)	BTERR Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost							
Jan-18	\$90.54	\$15.25	0.05756	\$44.38	\$1.38	\$61.01	0.03360	\$25.91	0.00000	\$0.00	\$25.91	TRED 0.00100 SESIP 0.00276 WIND 0.00026 WATER 0.00068	\$3.62	0.11743	QF&PP 17-11019				
Oct-17	\$89.64	\$15.25	0.05756	\$44.38	\$1.38	\$61.01	0.03243	\$25.00	0.00000	\$0.00	\$25.00	TRED 0.00100 SESIP 0.00276 WIND 0.00026 WATER 0.00068	\$3.62	0.11626	DEAA 17-03002 QF&PP 17-08010				
Jul-17	\$82.84	\$15.25	0.05756	\$44.38	\$1.40	\$61.02	0.03066	\$23.64	(0.00309)	(\$2.38)	\$21.26	TRED 0.00099 SESIP 0.00075 WIND (0.00079) WATER (0.00022)	\$0.56	0.10745	QF&PP 17-05012				
Apr-17	\$79.94	\$15.25	0.05756	\$44.38	\$1.40	\$61.02	0.02940	\$22.67	(0.00559)	(\$4.31)	\$18.36	TRED 0.00099 SESIP 0.00075 WIND (0.00079) WATER (0.00022)	\$0.56	0.10369	QF&PP 17-02018				
Jan-17	\$79.00	\$15.25	0.05756	\$44.38	\$1.40	\$61.02	0.03008	\$23.19	(0.00749)	(\$5.77)	\$17.42	TRED 0.00099 SESIP 0.00075 WIND (0.00079) WATER (0.00022)	\$0.56	0.10247	GRC 16-06006 QF&PP 16-11013				
Oct-16	\$79.51	\$15.25	0.05793	\$44.66	\$1.40	\$61.31	0.03103	\$23.92	(0.00815)	(\$6.28)	\$17.64	TRED 0.00099 SESIP 0.00075 WIND (0.00079) WATER (0.00022)	\$0.56	0.10313	DEAA 16-03004 QF&PP 16-08024				
Jul-16	\$79.20	\$15.25	0.05793	\$44.66	\$1.53	\$61.44	0.03348	\$25.81	(0.00727)	(\$5.61)	\$20.21	TRED 0.00105 SESIP (0.00199) WIND (0.00115) WATER (0.00108)	(\$2.44)	0.10273	QF&PP 16-05015				
Apr-16	\$80.53	\$15.25	0.05793	\$44.66	\$1.53	\$61.44	0.03466	\$26.72	(0.00673)	(\$5.19)	\$21.53	TRED 0.00105 SESIP (0.00199) WIND (0.00115) WATER (0.00108)	(\$2.44)	0.10445	QF&PP 16-02027				
Jan-16	\$83.02	\$15.25	0.05793	\$44.66	\$1.53	\$61.44	0.03616	\$27.88	(0.00500)	(\$3.86)	\$24.02	TRED 0.00105 SESIP (0.00199) WIND (0.00115) WATER (0.00108)	(\$2.44)	0.10768	QF&PP 15-11016				
Oct-15	\$86.69	\$15.25	0.05793	\$44.66	\$1.53	\$61.44	0.03842	\$29.62	(0.00250)	(\$1.93)	\$27.69	TRED 0.00105 SESIP (0.00199) WIND (0.00115) WATER (0.00108)	(\$2.44)	0.11244	DEAA 15-02040 QF&PP 15-08009				
Jul-15	\$89.80	\$15.25	0.05793	\$44.66	\$0.80	\$60.72	0.04049	\$31.22	0.00000	\$0.00	\$31.22	TRED 0.00086 SESIP (0.00270) WIND (0.00013) WATER (0.00080)	(\$2.14)	0.11647	QF&PP 15-05009				
Apr-15	\$94.83	\$15.25	0.05793	\$44.66	\$0.80	\$60.72	0.04366	\$33.66	0.00336	\$2.59	\$36.25	TRED 0.00086 SESIP (0.00270) WIND (0.00013) WATER (0.00080)	(\$2.14)	0.12300	QF&PP 15-02023				

Sierra Pacific Power Company

Single-family Residential Rates -Average Monthly Bill
771 kWh (Normalized Adjusted - Docket No. 19-06002)

		GENERAL RATES						FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS				
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)			EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
		Customer Charge	Base Tariff Rate (BTGR) per kWh	General Rate (BTGR) per kWh	BTGR Cost			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	Base Tariff Energy Rate (BTERR)	BTERR Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost					
Jan-15	\$95.40	\$15.25	0.05793	\$44.66	EEPR-B 0.00173 EEPR-C (0.00031) EEIR-B 0.00043 EEIR-C 0.00002 EEIR-R (0.00083)	\$0.80	\$60.72	0.04306	\$33.20	0.00469	\$3.62	\$36.82	TRED 0.00086 SESIIP (0.00270) WIND (0.00013) WATER (0.00080)	(\$2.14)	0.12373	DEAA 14-02041 ASD 14-05005 QF&PP 14-11012	
Oct-14	\$91.90	\$15.25	0.05592	\$43.11	EEPR-B 0.00173 EEPR-C (0.00031) EEIR-B (0.00044) EEIR-C 0.00002 EEIR-R (0.00083)	\$0.13	\$58.50	0.04110	\$31.69	0.00499	\$3.85	\$35.54	TRED 0.00086 SESIIP (0.00270) WIND (0.00013) WATER (0.00080)	(\$2.14)	0.11919	DEAA 14-02041 QF&PP 14-08012	
Jul-14	\$93.85	\$15.25	0.05592	\$43.11	EEPR-B 0.00097 EEPR-C (0.00031) EEIR-B (0.00044) EEIR-C (0.00056)	(\$0.26)	\$58.10	0.04068	\$31.36	0.00250	\$1.93	\$33.29	TRED 0.00111 SESIIP 0.00062 WIND 0.00152 WATER (0.00007)	\$2.45	0.12172	DEAA 14-02041 QF&PP 14-05024	
Apr-14	\$94.42	\$15.25	0.05592	\$43.11	EEPR-B 0.00097 EEPR-C (0.00031) EEIR-B 0.00088 EEIR-C (0.00056)	\$0.76	\$59.12	0.03829	\$29.52	0.00000	\$0.00	\$29.52	TRED 0.00111 SESIIP 0.00372 WIND 0.00176 WATER 0.00090	\$5.77	0.12246	QF&PP 14-02026	
Feb-14	\$94.37	\$15.25	0.05592	\$43.11	EEPR-B 0.00097 EEPR-C (0.00031) EEIR-B 0.00088 EEIR-C (0.00056)	\$0.76	\$59.12	0.03823	\$29.48	0.00000	\$0.00	\$29.48	TRED 0.00111 SESIIP 0.00372 WIND 0.00176 WATER 0.00090	\$5.77	0.12240	GRC 13-06002	
Jan-14	\$94.33	\$17.50	0.05295	\$40.82	EEPR-B 0.00097 EEPR-C (0.00031) EEIR-B 0.00088 EEIR-C (0.00056)	\$0.76	\$59.08	0.03823	\$29.48	0.00000	\$0.00	\$29.48	TRED 0.00111 SESIIP 0.00372 WIND 0.00176 WATER 0.00090	\$5.77	0.12235	GRC 13-06002 QF&PP 13-11017	
Oct-13	\$91.59	\$9.25	0.06118	\$47.17	EEPR-B 0.00097 EEPR-C (0.00031) EEIR-B 0.00088 EEIR-C (0.00056)	\$0.76	\$57.18	0.03715	\$28.64	0.00000	\$0.00	\$28.64	TRED 0.00111 SESIIP 0.00372 WIND 0.00176 WATER 0.00090	\$5.77	0.11880	DEAA 13-03004 QF&PP 13-08013	
Jul-13	\$88.40	\$9.25	0.06118	\$47.17	EEPR-B 0.00092 EEPR-C 0.00027 EEIR-B 0.00078 EEIR-C 0.00029	\$1.74	\$58.16	0.03401	\$26.22	(0.00243)	(\$1.87)	\$24.35	TRED 0.00095 SESIIP 0.00411 WIND 0.00192 WATER 0.00066	\$5.89	0.11466	QF&PP 13-05026	
Apr-13	\$85.77	\$9.25	0.06118	\$47.17	EEPR-B 0.00092 EEPR-C 0.00027 EEIR-B 0.00078 EEIR-C 0.00029	\$1.74	\$58.16	0.03310	\$25.52	(0.00493)	(\$3.80)	\$21.72	TRED 0.00095 SESIIP 0.00411 WIND 0.00192 WATER 0.00066	\$5.89	0.11125	QF&PP 13-02019	
Jan-13	\$84.86	\$9.25	0.06118	\$47.17	EEPR-B 0.00092 EEPR-C 0.00027 EEIR-B 0.00078 EEIR-C 0.00029	\$1.74	\$58.16	0.03376	\$26.03	(0.00677)	(\$5.22)	\$20.81	TRED 0.00095 SESIIP 0.00411 WIND 0.00192 WATER 0.00066	\$5.89	0.11007	DEAA 12-03005 QF&PP 12-11025	
Oct-12	\$86.29	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEPR-C 0.00072 EEIR-B 0.00053 EEIR-C 0.00008	\$2.30	\$58.72	0.03627	\$27.96	(0.00815)	(\$6.28)	\$21.68	TRED 0.00142 SESIIP 0.00442 WIND 0.00151 WATER 0.00002	\$5.68	0.11192	DEAA 12-03005 QF&PP 12-08015	
Jul-12	\$86.81	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEPR-C 0.00072 EEIR-B 0.00053 EEIR-C 0.00008	\$2.30	\$58.72	0.03972	\$30.62	(0.01065)	(\$8.21)	\$22.41	TRED 0.00142 SESIIP 0.00442 WIND 0.00151 WATER 0.00002	\$5.68	0.11260	QF&PP 12-05022	
Apr-12	\$86.43	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEPR-C 0.00072 EEIR-B 0.00053 EEIR-C 0.00008	\$2.30	\$58.72	0.04172	\$32.17	(0.01315)	(\$10.14)	\$22.03	TRED 0.00142 SESIIP 0.00442 WIND 0.00151 WATER 0.00002	\$5.68	0.11210	QF&PP 12-02010	
Jan-12	\$85.59	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEPR-C 0.00072 EEIR-B 0.00053 EEIR-C 0.00008	\$2.30	\$58.72	0.04313	\$33.25	(0.01565)	(\$12.07)	\$21.19	TRED 0.00142 SESIIP 0.00442 WIND 0.00151 WATER 0.00002	\$5.68	0.11101	QF&PP 11-11012	

Sierra Pacific Power Company

Single-family Residential Rates -Average Monthly Bill
771 kWh (Normalized Adjusted - Docket No. 19-06002)

		GENERAL RATES							FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS				
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
		Customer Charge	Base Tariff	General Rate (BTGR) per kWh	BTGR Cost				Base Tariff Energy Rate (BTER)	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost						
Oct-11	\$84.31	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEPR-C 0.00072 EEIR-B 0.00053 EEIR-C 0.00008	\$2.30	\$58.72	0.04397	\$33.90	(0.01815)	(\$13.99)	\$19.91	TRED 0.00142 SESIIP 0.00442 WIND 0.00151 WATER 0.00002	\$5.68	0.10935	DEAA 11-03004 QBTER 11-08007		
Jul-11	\$86.18	\$9.25	0.06118	\$47.17	EEPR-B 0.00165 EEIR-B 0.00044	\$1.61	\$58.03	0.04513	\$34.80	(0.01558)	(\$12.01)	\$22.78	TRED 0.00123 SESIIP 0.00586 WIND (0.00020) WATER 0.00007	\$5.37	0.11178	EE 10-10025 QBTER 11-05012		
Apr-11	\$87.24	\$9.25	0.06118	\$47.17			\$56.42	0.04860	\$37.47	(0.01558)	(\$12.01)	\$25.46	TRED 0.00123 SESIIP 0.00586 WIND (0.00020) WATER 0.00007	\$5.37	0.11316	QBTER 11-02008		
Jan-11	\$88.79	\$9.25	0.06118	\$47.17			\$56.42	0.05060	\$39.01	(0.01558)	(\$12.01)	\$27.00	TRED 0.00123 SESIIP 0.00586 WIND (0.00020) WATER 0.00007	\$5.37	0.11516	GRC 10-06001 QBTER 10-11019		
Oct-10	\$90.45	\$8.25	0.06188	\$47.71			\$55.96	0.05335	\$41.13	(0.01558)	(\$12.01)	\$29.12	TRED 0.00123 SESIIP 0.00586 WIND (0.00020) WATER 0.00007	\$5.37	0.11731	DEAA 10-03004 QBTER 10-08008		
Jul-10	\$96.57	\$8.25	0.06188	\$47.71			\$55.96	0.05401	\$41.64	(0.00330)	(\$2.54)	\$39.10	TRED 0.00111 SESIIP 0.00072 WIND 0.00008 WATER 0.00005	\$1.51	0.12525	QBTER 10-05008		
Apr-10	\$97.83	\$8.25	0.06188	\$47.71			\$55.96	0.05565	\$42.91	(0.00330)	(\$2.54)	\$40.36	TRED 0.00111 SESIIP 0.00072 WIND 0.00008 WATER 0.00005	\$1.51	0.12689	QBTER 10-02018		
Jan-10	\$98.86	\$8.25	0.06188	\$47.71			\$55.96	0.05698	\$43.93	(0.00330)	(\$2.54)	\$41.39	TRED 0.00111 SESIIP 0.00072 WIND 0.00008 WATER 0.00005	\$1.51	0.12822	QBTER 09-11017		
Oct-09	\$101.54	\$8.25	0.06188	\$47.71			\$55.96	0.06046	\$46.61	(0.00330)	(\$2.54)	\$44.07	TRED 0.00111 SESIIP 0.00072 WIND 0.00008 WATER 0.00005	\$1.51	0.13170	DEAA 09-02030 QBTER 09-08013		
Jul-09	\$109.05	\$8.25	0.06188	\$47.71			\$55.96	0.06820	\$52.58	0.00000	\$0.00	\$52.58	TRED 0.00066 SESIIP 0.00000 WIND 0.00000 WATER 0.00000	\$0.51	0.14144	GRC 07-12001 REPR 09-02003 QBTER 09-05025		
Apr-09	\$111.37	\$8.25	0.06207	\$47.86			\$56.11	0.06882	\$53.06	0.00000	\$0.00	\$53.06	TRED 0.00066 SESIIP 0.00161 WIND 0.00056 WATER 0.00003	\$2.21	0.14445	QBTER 09-02015		
Jan-09	\$111.59	\$8.25	0.06207	\$47.86			\$56.11	0.06910	\$53.28	0.00000	\$0.00	\$53.28	TRED 0.00066 SESIIP 0.00161 WIND 0.00056 WATER 0.00003	\$2.21	0.14473	QBTER 08-11015		
Oct-08	\$111.36	\$8.25	0.06207	\$47.86			\$56.11	0.06881	\$53.05	0.00000	\$0.00	\$53.05	TRED 0.00066 SESIIP 0.00161 WIND 0.00056 WATER 0.00003	\$2.21	0.14444	DEAA 08-02043 QBTER 08-08015		
Jul-08	\$108.19	\$8.25	0.06207	\$47.86			\$56.11	0.06652	\$51.29	0.00000	\$0.00	\$51.29	TRED 0.00103 SEDP 0.00000	\$0.79	0.14032	GRC 07-12001 QBTER 08-05004		
Apr-08	\$99.10	\$6.00	0.04876	\$37.59			\$43.59	0.06658	\$51.33	DEAAs - 0.00216 DEAA6 - 0.00201	\$3.22	\$54.55	TRED 0.00103 SEDP 0.00021	\$0.96	0.12853	QBTER 08-02022		
Jan-08	\$99.34	\$6.00	0.04876	\$37.59			\$43.59	0.06689	\$51.57	DEAAs - 0.00216 DEAA6 - 0.00201	\$3.22	\$54.79	TRED 0.00103 SEDP 0.00021	\$0.96	0.12884	QBTER 07-11021		

Sierra Pacific Power Company

Single-family Residential Rates -Average Monthly Bill
771 kWh (Normalized Adjusted - Docket No. 19-06002)

		GENERAL RATES							FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS					
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh		TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
		Customer Charge	Base Tariff General Rate (BTGR) per kWh	BTGR Cost	Base Tariff Energy Rate (BTER)				BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost	DEAA5 - 0.00216 DEAA6 - 0.00201	DEAA3 - 0.00210 DEAA5 - 0.00315		DEAA3 - 0.00210 DEAA4 - 0.00315	DEAA3 - 0.00210 DEAA4 - 0.00315			
Oct-07	\$100.05	\$6.00	0.04876	\$37.59			\$43.59	0.06782	\$52.29		DEAA5 - 0.00216 DEAA6 - 0.00201	\$3.22	\$55.50	TRED SEDP	0.00103 0.00021	\$0.96	0.12977	QBTER 07-08018	
Jul-07	\$101.68	\$6.00	0.04876	\$37.59			\$43.59	0.06993	\$53.92		DEAA5 - 0.00216 DEAA6 - 0.00201	\$3.22	\$57.13	TRED SEDP	0.00103 0.00021	\$0.96	0.13188	DEAA/BTER 06-12001	
Nov-06	\$101.61	\$6.00	0.04876	\$37.59			\$43.59	0.06884	\$53.08		DEAA3 - 0.00210 DEAA5 - 0.00315	\$4.05	\$57.12	TRED	0.00116	\$0.89	0.13179	TRED 06-08001	
Jul-06	\$101.61	\$6.00	0.04876	\$37.59			\$43.59	0.07000	\$53.97		DEAA3 - 0.00210 DEAA5 - 0.00315	\$4.05	\$58.02				0.13179	DEAA/BTER 05-12001	
May-06	\$101.61	\$6.00	0.04876	\$37.59			\$43.59	0.07000	\$53.97		DEAA3 - 0.00210 DEAA4 - 0.00315	\$4.05	\$58.02				0.13179	GRC 05-10003 DEAA/BTER 05-12001	
Nov-05	\$98.58	\$4.00	0.05142	\$39.64			\$43.64	0.06600	\$50.89		DEAA3 - 0.00210 DEAA4 - 0.00315	\$4.05	\$54.93				0.12786	BTER 05-7003	
Jun-05	\$92.60	\$4.00	0.05142	\$39.64			\$43.64	0.05824	\$44.90		DEAA3 - 0.00210 DEAA4 - 0.00315	\$4.05	\$48.95				0.12010	DEAA/BTER 05-1028 RP 05-1029	

ATTACHMENT 7B

**NPC SINGLE-FAMILY RESIDENTIAL
AVERAGE MONTHLY RATES**

Nevada Power Company

Single-family Residential Rates -Average Monthly Bill
1,111 kWh (Normalized Adjusted - Docket No. 17-06003)

		GENERAL RATES							FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS			
Month	Total Bill	Fixed Customer Charge	Per Kilowatt-hour (kWh)			EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
			Base Tariff (BTGR) per kWh	General Rate (TRRR) per kWh	Efficiency Implementation Rate (EEIR) per kWh			Base Tariff Energy Rate (BTER) per kWh	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost						
Jul-20	\$127.74	\$12.50	TRRR (0.00361) BTGR 0.06797		\$71.50	\$2.84	\$86.85	0.03901	\$43.34		(0.00251)	(\$2.79)	\$40.55	\$0.34	0.11498	QF&PP 20-05010	
Apr-20	\$129.52	\$12.50	TRRR (0.00361) BTGR 0.06797		\$71.50	\$2.84	\$86.85	0.04056	\$45.06		(0.00246)	(\$2.73)	\$42.33	\$0.34	0.11658	QF&PP 20-02010	
Jan-20	\$133.48	\$12.50	TRRR (0.00361) BTGR 0.06797		\$71.50	\$2.84	\$86.85	0.04166	\$46.28		0.00000	\$0.00	\$46.28	\$0.34	0.12014	QF&PP 19-11016	
Oct-19	\$136.74	\$12.50	TRRR (0.00361) BTGR 0.06797		\$71.50	\$2.84	\$86.85	0.04460	\$49.55		0.00000	\$0.00	\$49.55	\$0.34	0.12308	DEAA 19-03001 QF&PP 19-08016	
Jul-19	\$139.70	\$12.50	TRRR (0.00361) BTGR 0.06797		\$71.50	\$2.13	\$86.14	0.04408	\$48.97		0.00250	\$2.78	\$51.75	\$1.81	0.12574	QF&PP 19-05023	
Apr-19	\$136.54	\$12.50	TRRR (0.00361) BTGR 0.06797 ML 0.00083		\$72.43	\$2.13	\$87.06	0.04291	\$47.67		0.00000	\$0.00	\$47.67	\$1.81	0.12290	QF&PP 19-02017	
Jan-19	\$135.27	\$12.50	TRRR (0.00361) BTGR 0.06797 ML 0.00083		\$72.43	\$2.13	\$87.06	0.04176	\$46.40		0.00000	\$0.00	\$46.40	\$1.81	0.12175	QF&PP 18-11010	
Oct-18	\$134.15	\$12.50	TRRR (0.00361) BTGR 0.06797 ML 0.00083		\$72.43	\$2.13	\$87.06	0.04076	\$45.28		0.00000	\$0.00	\$45.28	\$1.81	0.12075	DEAA 18-03002 QF&PP 18-08008	
Jul-18	\$135.50	\$12.50	TRRR (0.00361) BTGR 0.06797 ML 0.00083		\$72.43	\$2.03	\$86.96	0.04188	\$46.53		0.00000	\$0.00	\$46.53	\$2.01	0.12196	QF&PP 18-05011	
Apr-18	\$135.83	\$12.50	TRRR (0.00361) BTGR 0.06797 ML 0.00083		\$72.43	\$2.03	\$86.96	0.04218	\$46.86		0.00000	\$0.00	\$46.86	\$2.01	0.12226	TAX 18-02010 QF&PP 18-02014	
Feb-18	\$140.19	\$12.50	BTGR 0.06797 ML 0.00083		\$76.44	\$2.03	\$90.97	0.04249	\$47.21		0.00000	\$0.00	\$47.21	\$2.01	0.12618	GRC 17-06003	
Jan-18	\$141.76	\$12.75	BTGR 0.06916 ML 0.00083		\$77.76	\$2.03	\$92.54	0.04249	\$47.21		0.00000	\$0.00	\$47.21	\$2.01	0.12760	QF&PP 17-11018	

Nevada Power Company

Single-family Residential Rates -Average Monthly Bill
1,111 kWh (Normalized Adjusted - Docket No. 17-06003)

		GENERAL RATES							FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS				
Month	Total Bill	Fixed	Per Kilowatt-hour (kWh)				Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh		Average Total Rate Per kWh	Docket Nos.		
		Customer Charge	Base Tariff (BTGR) per kWh	General Rate (ML)	BTGR Cost	Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Base Tariff Energy Rate (BTER) per kWh	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh		DEAA Cost	TRED & REPR Cost				
Oct-17	\$141.85	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00244 EEPR-C (0.00056) EEIR-B 0.00028 EEIR-C (0.00003) EEIR-R (0.00030)	\$2.03	\$92.54	0.04257	\$47.30	0.00000	\$0.00	\$47.30	TRED 0.00086 SESIIP 0.00097 WIND (0.00002) WATER 0.00000	\$2.01	0.12768	DEAA 17-03001 QF&PP 17-08008		
Jul-17	\$139.82	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00229 EEPR-C (0.00072) EEIR-B 0.00024 EEIR-C (0.00005) EEIR-R (0.00058)	\$1.31	\$91.82	0.04155	\$46.16	0.00000	\$0.00	\$46.16	TRED 0.00064 SESIIP 0.00102 WIND (0.00001) WATER 0.00000	\$1.83	0.12585	QF&PP 17-05011		
Apr-17	\$138.25	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00229 EEPR-C (0.00072) EEIR-B 0.00024 EEIR-C (0.00005) EEIR-R (0.00058)	\$1.31	\$91.82	0.04014	\$44.60	0.00000	\$0.00	\$44.60	TRED 0.00064 SESIIP 0.00102 WIND (0.00001) WATER 0.00000	\$1.83	0.12444	QF&PP 17-02017		
Jan-17	\$136.97	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00229 EEPR-C (0.00072) EEIR-B 0.00024 EEIR-C (0.00005) EEIR-R (0.00058)	\$1.31	\$91.82	0.03899	\$43.32	0.00000	\$0.00	\$43.32	TRED 0.00064 SESIIP 0.00102 WIND (0.00001) WATER 0.00000	\$1.83	0.12329	QF&PP 16-11012		
Oct-16	\$130.30	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00229 EEPR-C (0.00072) EEIR-B 0.00024 EEIR-C (0.00005) EEIR-R (0.00058)	\$1.31	\$91.82	0.03875	\$43.05	(0.00576)	(\$6.40)	\$36.65	TRED 0.00064 SESIIP 0.00102 WIND (0.00001) WATER 0.00000	\$1.83	0.11729	DEAA 16-03003 QF&PP 16-08023		
Jul-16	\$130.12	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00271 EEPR-C 0.00020 EEIR-B 0.00029 EEIR-C (0.00016) EEIR-R (0.00059)	\$2.72	\$93.23	0.03894	\$43.26	(0.00687)	(\$7.63)	\$35.63	TRED 0.00062 SESIIP 0.00049 WIND 0.00002 WATER 0.00000	\$1.26	0.11712	QF&PP 16-05014		
Apr-16	\$132.60	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00271 EEPR-C 0.00020 EEIR-B 0.00029 EEIR-C (0.00016) EEIR-R (0.00059)	\$2.72	\$93.23	0.03931	\$43.67	(0.00500)	(\$5.56)	\$38.12	TRED 0.00062 SESIIP 0.00049 WIND 0.00002 WATER 0.00000	\$1.26	0.11936	QF&PP 16-02026		
Jan-16	\$137.74	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00271 EEPR-C 0.00020 EEIR-B 0.00029 EEIR-C (0.00016) EEIR-R (0.00059)	\$2.72	\$93.23	0.04143	\$46.03	(0.00250)	(\$2.78)	\$43.25	TRED 0.00062 SESIIP 0.00049 WIND 0.00002 WATER 0.00000	\$1.26	0.12398	QF&PP 15-11015		
Oct-15	\$144.35	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00271 EEPR-C 0.00020 EEIR-B 0.00029 EEIR-C (0.00016) EEIR-R (0.00059)	\$2.72	\$93.23	0.04488	\$49.86	0.00000	\$0.00	\$49.86	TRED 0.00062 SESIIP 0.00049 WIND 0.00002 WATER 0.00000	\$1.26	0.12993	DEAA 15-02039 QF&PP 15-08008		
Jul-15	\$145.67	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00288 EEPR-C (0.00027) EEIR-B 0.00061 EEIR-C (0.00001) EEIR-R (0.00067)	\$2.82	\$93.33	0.04726	\$52.51	0.00000	\$0.00	\$52.51	TRED 0.00068 SESIIP (0.00086) WIND 0.00003 WATER 0.00000	(\$0.17)	0.13112	QF&PP 15-05008		
Apr-15	\$150.38	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00288 EEPR-C (0.00027) EEIR-B 0.00061 EEIR-C (0.00001) EEIR-R (0.00067)	\$2.82	\$93.33	0.04859	\$53.98	0.00291	\$3.23	\$57.22	TRED 0.00068 SESIIP (0.00086) WIND 0.00003 WATER 0.00000	(\$0.17)	0.13536	QF&PP 15-02022		
Jan-15	\$150.24	\$12.75	BTGR 0.06916 ML 0.00083	\$77.76	EEPR-B 0.00288 EEPR-C (0.00027) EEIR-B 0.00061 EEIR-C (0.00001) EEIR-R (0.00067)	\$2.82	\$93.33	0.04816	\$53.51	0.00321	\$3.57	\$57.07	TRED 0.00068 SESIIP (0.00086) WIND 0.00003 WATER 0.00000	(\$0.17)	0.13523	DEAA 14-02040 GRC 14-05004 QF&PP 14-11011		

Nevada Power Company

Single-family Residential Rates -Average Monthly Bill
1,111 kWh (Normalized Adjusted - Docket No. 17-06003)

		GENERAL RATES						FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS				
Month	Total Bill	Fixed Customer Charge	Per Kilowatt-hour (kWh)			EEPR & EEIR Cost	Total General Cost	Ongoing Cost		Past Cost			Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
			Base Tariff (BTGR) per kWh	General Rate (GTGR) per kWh	BTGR Cost			Base Tariff Energy Rate (BTER) per kWh	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost						
Oct-14	\$148.32	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$2.49	\$92.83	0.04687	\$52.07	0.00323	\$3.59	\$55.66	TRED 0.00068 SESIIP (0.00086) WIND 0.00003 WATER 0.00000	(\$0.17)	0.13350	DEAA 14-02040 QF&PP 14-08011	
Jul-14	\$148.02	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$0.78	\$91.11	0.04652	\$51.68	0.00343	\$3.81	\$55.49	TRED 0.00083 SESIIP 0.00043 WIND 0.00001 WATER 0.00000	\$1.41	0.13323	DEAA 14-02040 QF&PP 14-05023	
Apr-14	\$149.33	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$1.38	\$91.71	0.04595	\$51.05	0.00376	\$4.18	\$55.23	TRED 0.00083 SESIIP 0.00130 WIND 0.00002 WATER 0.00000	\$2.39	0.13441	QF&PP 14-02025	
Jan-14	\$148.02	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$1.38	\$91.71	0.04603	\$51.14	0.00250	\$2.78	\$53.92	TRED 0.00083 SESIIP 0.00130 WIND 0.00002 WATER 0.00000	\$2.39	0.13323	QF&PP 13-11016	
Oct-13	\$142.14	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$1.38	\$91.71	0.04324	\$48.04	0.00000	\$0.00	\$48.04	TRED 0.00083 SESIIP 0.00130 WIND 0.00002 WATER 0.00000	\$2.39	0.12794	DEAA 13-03003 DEAA 12-03004 QF&PP 13-08012	
Jul-13	\$139.85	\$10.00	BTGR 0.07148 DBGR 0.00105 ML 0.00083		\$81.50	\$3.73	\$95.24	0.04091	\$45.45	(0.00326)	(\$3.62)	\$41.83	TRED 0.00071 SESIIP 0.00183 WIND (0.00003) WATER 0.00000	\$2.79	0.12588	QF&PP 13-05025	
Apr-13	\$136.69	\$10.00	BTGR 0.07148 DBGR 0.00105 ML 0.00083		\$81.50	\$3.73	\$95.24	0.04000	\$44.44	(0.00520)	(\$5.78)	\$38.66	TRED 0.00071 SESIIP 0.00183 WIND (0.00003) WATER 0.00000	\$2.79	0.12303	QF&PP 13-02018	
Jan-13	\$134.01	\$10.00	BTGR 0.07148 DBGR 0.00105 ML 0.00083		\$81.50	\$3.73	\$95.24	0.03956	\$43.95	(0.00717)	(\$7.97)	\$35.99	TRED 0.00071 SESIIP 0.00183 WIND (0.00003) WATER 0.00000	\$2.79	0.12062	DEAA 12-03004 QF&PP 12-11024	
Oct-12	\$137.69	\$10.00	BTGR 0.07148 DBGR 0.00105 ML 0.00083		\$81.50	\$6.13	\$97.64	0.04259	\$47.32	(0.00905)	(\$10.05)	\$37.26	TRED 0.00071 SESIIP 0.00183 WIND (0.00003) WATER 0.00000	\$2.79	0.12393	DEAA 12-03004 QF&PP 12-08014	
Jul-12	\$136.59	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$6.13	\$96.47	0.04466	\$49.62	(0.00978)	(\$10.87)	\$38.75	TRED 0.00082 SESIIP 0.00047 WIND (0.00006) WATER 0.00000	\$1.37	0.12294	QF&PP 12-05021	
Apr-12	\$138.44	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$6.13	\$96.47	0.04619	\$51.32	(0.00964)	(\$10.71)	\$40.61	TRED 0.00082 SESIIP 0.00047 WIND (0.00006) WATER 0.00000	\$1.37	0.12461	QF&PP 12-02009	
Jan-12	\$140.12	\$10.00	BTGR 0.07148 ML 0.00083		\$80.34	\$6.13	\$96.47	0.04670	\$51.88	(0.00864)	(\$9.60)	\$42.28	TRED 0.00082 SESIIP 0.00047 WIND (0.00006) WATER 0.00000	\$1.37	0.12612	GRC 11-06006 QBTER 11-11011	
Oct-11	\$135.37	\$8.00	BTGR 0.05939 DBGR 0.00687 ML 0.00083		\$74.54	\$6.13	\$88.67	0.04944	\$54.93	(0.00864)	(\$9.60)	\$45.33	TRED 0.00082 SESIIP 0.00047 WIND (0.00006) WATER 0.00000	\$1.37	0.12184	DEAA 11-03003 QBTER 11-08006	
Jul-11	\$141.41	\$8.00	BTGR 0.05939 DBGR 0.00687 ML 0.00083		\$74.54	\$4.58	\$87.11	0.05011	\$55.67	(0.00345)	(\$3.83)	\$51.84	TRED 0.00078 SESIIP 0.00147 WIND (0.00003) WATER (0.00001)	\$2.46	0.12728	EE 10-10024 QBTER 11-05011	
Apr-11	\$138.53	\$8.00	BTGR 0.05939 DBGR 0.00687 ML 0.00083		\$74.54		\$82.54	0.05164	\$57.37	(0.00345)	(\$3.83)	\$53.54	TRED 0.00078 SESIIP 0.00147 WIND (0.00003) WATER (0.00001)	\$2.46	0.12469	QBTER 11-02007	

Nevada Power Company

Single-family Residential Rates -Average Monthly Bill
1,111 kWh (Normalized Adjusted - Docket No. 17-06003)

		GENERAL RATES						FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS					
Month	Total Bill	Fixed Customer Charge	Per Kilowatt-hour (kWh)			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Ongoing Cost			Past Cost		Total Fuel & Purchased Power Cost	Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
			Base Tariff General Rate (BTGR) per kWh	DBGR	ML				BTGR Cost	Base Tariff Energy Rate (BTER) per kWh	BTER	Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh					
Jan-11	\$139.10	\$8.00	BTGR 0.05939 DBGR 0.00687 ML 0.00083		\$74.54		\$82.54	0.05215	\$57.94		(0.00345)	(\$3.83)	\$54.11	TRED 0.00078 SEPIP 0.00147 WIND (0.00003) WATER (0.00001)	\$2.46	0.12520	DBGR 10-03006 QBTER 10-11018	
Oct-10	\$139.10	\$8.00	BTGR 0.05939 DBGR 0.00365 ML 0.00083		\$70.96		\$78.96	0.05537	\$61.52		(0.00345)	(\$3.83)	\$57.68	TRED 0.00078 SEPIP 0.00147 WIND (0.00003) WATER (0.00001)	\$2.46	0.12520	DEAA 10-03003 DBGR 10-03006 QBTER 10-08009	
Jul-10	\$139.10	\$8.00	BTGR 0.05939 ML 0.00083		\$66.90		\$74.90	0.05691	\$63.23		0.00000	\$0.00	\$63.23	TRED 0.00059 SEPIP 0.00027 WIND 0.00001 WATER 0.00000	\$0.97	0.12520	QBTER 10-05010	
Jun-10	\$139.41	\$8.00	BTGR 0.05939 ML 0.00083		\$66.90		\$74.90	0.05719	\$63.54		0.00000	\$0.00	\$63.54	TRED 0.00059 SEPIP 0.00027 WIND 0.00001 WATER 0.00000	\$0.97	0.12548	WECA 07-01023	
Apr-10	\$141.04	\$8.00	BTGR 0.05939 ML 0.00083 WECA 0.00147		\$68.54		\$76.54	0.05719	\$63.54		0.00000	\$0.00	\$63.54	TRED 0.00059 SEPIP 0.00027 WIND 0.00001 WATER 0.00000	\$0.97	0.12695	QBTER 10-02017	
Jan-10	\$141.98	\$8.00	BTGR 0.05939 ML 0.00083 WECA 0.00147		\$68.54		\$76.54	0.05803	\$64.47		0.00000	\$0.00	\$64.47	TRED 0.00059 SEPIP 0.00027 WIND 0.00001 WATER 0.00000	\$0.97	0.12779	GRC 08-12002 QBTER 09-11019	
Oct-09	\$134.60	\$8.00	BTGR 0.04758 ML 0.00083 WECA 0.00147		\$55.42		\$63.42	0.06320	\$70.22		0.00000	\$0.00	\$70.22	TRED 0.00059 SEPIP 0.00027 WIND 0.00001 WATER 0.00000	\$0.97	0.12115	DEAA 09-02029 QBTER 09-08015	
Jul-09	\$137.20	\$8.00	BTGR 0.04758 ML 0.00083 WECA 0.00147		\$55.42		\$63.42	0.06600	\$73.33		0.00000	\$0.00	\$73.33	TRED 0.00041 SEPIP 0.00000 WIND 0.00000 WATER 0.00000	\$0.46	0.12349	GRC 08-12002 REPR 09-02002 QBTER 09-05023	
Apr-09	\$133.98	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.06589	\$73.20		0.00000	\$0.00	\$73.20	TRED 0.00041 SEPIP 0.00053 WIND 0.00017 WATER 0.00001	\$1.24	0.12059	QBTER 09-02016	
Jan-09	\$133.47	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.06543	\$72.69		0.00000	\$0.00	\$72.69	TRED 0.00041 SEPIP 0.00053 WIND 0.00017 WATER 0.00001	\$1.24	0.12013	QBTER 08-11014	
Oct-08	\$127.99	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.06050	\$67.22		0.00000	\$0.00	\$67.22	TRED 0.00041 SEPIP 0.00053 WIND 0.00017 WATER 0.00001	\$1.24	0.11520	DEAA 08-02042 QBTER 08-08014	
Aug-08	\$124.85	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.05792	\$64.35		0.00000	\$0.00	\$64.35	TRED 0.00088	\$0.98	0.11238	DEAA 06-01016 & 07-01022	
Jul-08	\$134.69	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.05792	\$64.35	DEAA5 0.00583 DEAA6 0.00295		\$9.75	\$74.10	TRED 0.00088 SEDP 0.00007	\$1.06	0.12123	QBTER 08-05006	
Apr-08	\$135.24	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.05842	\$64.90	DEAA5 0.00583 DEAA6 0.00295		\$9.75	\$74.66	TRED 0.00088 SEDP 0.00007	\$1.06	0.12173	QBTER 08-02023	
Jan-08	\$136.35	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.05942	\$66.02	DEAA5 0.00583 DEAA6 0.00295		\$9.75	\$75.77	TRED 0.00088 SEDP 0.00007	\$1.06	0.12273	QBTER 07-11020	
Oct-07	\$137.95	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147		\$51.53		\$59.53	0.06086	\$67.62	DEAA5 0.00583 DEAA6 0.00295		\$9.75	\$77.37	TRED 0.00088 SEDP 0.00007	\$1.06	0.12417	QBTER 07-08017	

Nevada Power Company

Single-family Residential Rates -Average Monthly Bill
1,111 kWh (Normalized Adjusted - Docket No. 17-06003)

		GENERAL RATES						FUEL & PURCHASED POWER RATES					RENEWABLE PROGRAMS				
Month	Total Bill	Fixed Customer Charge	Per Kilowatt-hour (kWh)			Energy Efficiency Program Rate (EEPR) & Energy Efficiency Implementation Rate (EEIR) per kWh	EEPR & EEIR Cost	Total General Cost	Ongoing Cost		Past Cost			Temporary Renewable Energy Development (TRED) & Renewable Energy Program Rate (REPR) per kWh	TRED & REPR Cost	Average Total Rate Per kWh	Docket Nos.
			Base Tariff General Rate (BTGR) per kWh	BTGR Cost	ML				WECA	Base Tariff Energy Rate (BTER) per kWh	BTER Cost	Deferred Energy Accounting Adjustment (DEAA) per kWh	DEAA Cost				
Aug-07	\$136.40	\$8.00	BTGR 0.04408 ML 0.00083 WECA 0.00147	\$51.53			\$59.53	0.05946	\$66.06	DEAA5 0.00583 DEAA6 0.00295	\$9.75	\$75.81	TRED 0.00088 SEDP 0.00007	\$1.06	0.12277	GRC 06-11022	
Jun-07	\$136.51	\$8.00	BTGR 0.04418 ML 0.00083 WECA 0.00147	\$51.64			\$59.64	0.05946	\$66.06	DEAA5 0.00583 DEAA6 0.00295	\$9.75	\$75.81	TRED 0.00088 SEDP 0.00007	\$1.06	0.12287	GRC 06-11022 DEAA/BTER 07-01022 ML 06-11035 WECA 07-01023	
Mar-07	\$121.98	\$6.00		\$39.44			\$45.44	0.06057	\$67.29	DEAA5 0.00748	\$8.31	\$75.60	TRED 0.00084	\$0.93	0.10979	DEAA/BTER 06-01016	
Nov-06	\$121.98	\$6.00		\$39.44			\$45.44	0.06057	\$67.29	DEAA3 0.00339 DEAA4 0.00400 DEAA5 0.00009	\$8.31	\$75.60	TRED 0.00084	\$0.93	0.10979	TRED 06-8002	
Aug-06	\$121.98	\$6.00		\$39.44			\$45.44	0.06141	\$68.23	DEAA3 0.00339 DEAA4 0.00400 DEAA5 0.00009	\$8.31	\$76.54			0.10979	DEAA/BTER 06-01016	
May-06	\$121.98	\$6.00		\$39.44			\$45.44	0.06150	\$68.33	DEAA3 0.00339 DEAA4 0.00400	\$8.21	\$76.54			0.10979	DEAA/BTER 06-01016	
Oct-05	\$113.89	\$6.00		\$39.44			\$45.44	0.05583	\$62.03	DEAA3 0.00339 DEAA4 0.00239	\$6.42	\$68.45			0.10251	BTER 05-6003	
Apr-05	\$109.78	\$6.00		\$39.44			\$45.44	0.05213	\$57.92	DEAA3 0.00339 DEAA4 0.00239	\$6.42	\$64.34			0.09881	DEAA/BTER 04-11028 RP 04-11029	

ATTACHMENT 8

NEVADA DYNAMIC PRICING TRIAL FINAL REPORT

NV ENERGY

Nevada Dynamic Pricing Trial Final Report

An evaluation of NV Energy's Choose When You
Use Program

October 2015

This report is a final evaluation of NV Energy's two-year Nevada Dynamic Pricing Trial. It details the recruitment, reenlistment and transition of the program from March 2013 to February 2015. This project is based upon work supported by the Department of Energy under Project Number DE-OE0000205.

Nevada Dynamic Pricing Trial Final Report

The NDPT demonstrates that voluntary time-of-use rates delivered savings to participants and load-shifting benefits to all customers

Executive Summary

This report covers analysis and results of the Nevada Dynamic Pricing Trial (NDPT) operations from its formal inception of recruiting in January 2013 through the close of the two-year program on February 28, 2015.

The NDPT was a set of research experiments jointly sponsored by NV Energy and the federal Department of Energy (DOE) as required by the terms of the Smart Grid Investment Grant (SGIG) that the DOE awarded to NV Energy. The NDPT design was approved by NV Energy, the DOE and by the Public Utilities Commission of Nevada (PUCN), as described in the original and subsequently amended NDPT Consumer Behavior Study Plan.

NV Energy conducted the NDPT as a program for single-family residential customers called Choose When You Use. NV Energy enrolled volunteer households, and then supplied them with new time-varying rates, digital and print energy education and programmable thermostats. Every participating household had previously been on standard flat rate pricing and received either a time-of-use (TOU) rate or a TOU rate with Critical Peak Pricing (CPP) events as part of the Choose When You Use program. Some households received digital and print energy education in addition to the rate and some households also received programmable thermostats. The intent of the NDPT was to monitor and understand the household changes in electricity use that may occur in response to these treatments.

The NDPT investigated four hypotheses discussed later in this report.

The primary NDPT findings are these:

- 1. Customers responded to the NDPT by addressing their electricity use.**
Customers rapidly volunteered for the program in large numbers; within six weeks, overall enrollment reached 99% of maximum recruitment targets. A strong majority of participants (85%) who completed the first year reenlisted in the program for a second year. Many participants opted-in to similar TOU rates after the program ended. Choose When You Use participants' new habits of electricity use appeared to persist generally throughout the program, and afterwards for the 43% of participants who transitioned to Optional-TOU rates.
- 2. Customers responded to the TOU and CPP rates by shifting their electricity use substantially.**
During summer periods, participants shifted their electricity use out of more expensive rate

periods between 19 and 36% in the South, and between 7 and 39% in the North. NDPT participants shifted more than 3 MWH of electricity use out of more expensive rate periods during the two years of the program. Choose When You Use proved to be a shifting program.

3. **Customers did not respond to the TOU and CPP rates by reducing their overall electricity use.**

Participants North and South generally did not respond to any of the treatments or combinations of treatments by reducing their electricity use significantly. Choose When You Use proved not to be an energy-conservation program.

4. **Customer responses to the NDPT treatments differed over time and among segments of customers.**

Specifically, Choose When You Use results were concentrated in peak periods, but distributed across many types of customers.

5. **Combinations of the NDPT treatments yielded levels of customer response similar to those provided by the TOU and CPP rates on their own.**

Participants appreciated receiving the education and technology treatments, and they used them, but adding education and technology treatments to the TOU and CPP rate treatments delivered little incremental change in overall electricity use. In the South during peak periods, and among engaged participants, these treatments did have modest incremental effects. But Choose When You Use results were largely delivered as a result of time-varying rates, with or without other treatments.

6. **Customer responses to the NDPT treatments were associated with customer attitudes of energy ownership.**

Participants initially perceived Choose When You Use primarily as a new kind of money-saving opportunity. Saving money is a very strong example of psychological ownership. Most Choose When You Use participants learned how to save money by developing new habits of electricity use at different times. Over the course of the two years of the program, NDPT participants saved a net of \$1,528,177.91 in total.

7. **Customer responses to the NDPT treatments were associated with customer satisfaction with energy ownership.**

Some participants saved a substantial amount of money through Choose When You Use, but many did not. However, participants became attached to the new habits of electricity use they developed, even if the savings that resulted were modest. Choose When You Use participants were generally satisfied with the combination of their modest savings, their status as savers, and their prospects for saving in the future.

The NDPT demonstrates that voluntary time-varying electric rates in Nevada should be pursued, and that they can deliver a satisfactory level of savings to customers and substantial load-shifting benefits to NV Energy and all its customers.