

Solar Incentives & Energy Storage Incentives

PROGRAMS HANDBOOK




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OVERVIEW OF SOLAR INCENTIVES AND ENERGY STORAGE INCENTIVES PROGRAMS

The goals of the programs are to expand and accelerate the adoption of solar photovoltaic (PV) distributed generation and energy storage systems by providing monetary incentives. These systems are to benefit utility customers by reducing peak demand, by improving the reliability of the operation of the transmission and distribution grid, and by helping to defer utility investments in new generation, transmission, and distribution assets. This handbook outlines the requirements for receiving NV Energy incentives for installation of the following solar energy and Energy Storage Device (ESD) systems:

NEW SOLAR + ENERGY STORAGE

NEW SOLAR ONLY

NEW ENERGY STORAGE ONLY (solar previously installed)

Other important information about the programs:

- They were created by the Nevada State Legislature and are regulated by the Public Utilities Commission of Nevada, defined in Nevada Revised Statutes and Nevada Administrative Code Chapter 701B. The programs are subject to changes made by the Nevada State Legislature, the Public Utilities Commission of Nevada, and NV Energy.
- They are funded by NV Energy customers and administered by NV Energy.
- All program participants must qualify for, participate in and comply with all of the rules of Net Metering.
- Projects in construction prior to the issuance of a Reservation Notice or Conditional Reservation Notice are not eligible for incentive.
- NV Energy pays incentives as available per NRS 701B as long as there is available funding.
- All portfolio energy credits issued for a solar energy system installed pursuant to the Solar Program must be assigned to and become property of NV Energy. Any generating capacity installed outside of the Solar Program must be separately metered in order to maintain ownership of portfolio energy



credits.

- NV Energy will install digital “smart meters” that may include bidirectional or generation meters for all program participants. The metering requirements will be defined based on the configuration, installation and whether an ESD is included. Please refer to the metering standards in this document.
- NV Energy is not responsible for operation, maintenance, or energy production of renewable energy systems installed through this program.
- NV Energy is not responsible for consumption changes or billing changes because of the customer’s decision to install a renewable energy or energy storage system.
- Installations must be permitted through the local building authority and interconnections must be performed by a Nevada licensed C-2 electrical contractor. For solar installations, a C-2 or C-2g licensed contractor is acceptable. If a contractor’s license is suspended, applications associated with the contractor are not eligible to receive a reservation notice or an incentive payment, unless the system was completed and inspected by the local building authority prior to the suspension date. Customers may select a different Installer in this scenario – refer to the Application Changes section in this handbook for more information.

DEFINITIONS AND TERMS

Alternating Current (AC): The form in which electricity is delivered to residences and businesses. This is the type of electricity produced by the inverter and delivered to the home and the utility grid through the service panel.

Applicant: The party responsible for preparing the application and Incentive Claim Package in NV Energy's application portal.

Conditional Reservation Notice: Once the available incentive funds have been reserved, all subsequently approved applications will receive a "Conditional Reservation Notice" in order of their application submission. If there are not enough funds remaining to cover an entire Reservation Notice, the remaining amount will be issued as a Conditional Reservation.

Critical Infrastructure: Facilities that support emergency services that are always available for public benefit such as hospitals or other medical facilities, airports, public safety facilities, public infrastructure facilities or dams, or others. NV Energy may review the facility type to determine if the facility is qualified as a Critical Infrastructure facility.

Customer's Annual Requirements for Electricity: The kilowatt-hours (kWh) consumed at the installation location in the consecutive 12 months using the highest energy usage during the two years prior to the application submittal.

Designated Applicant: An individual or entity who is designated by the NV Energy Host Customer to apply to NV Energy's incentive programs on the Host Customer's behalf.

Design Factor: A ratio calculated in NV Energy's application portal that compares the expected production of the proposed solar system to the production of a system using ideal design parameters. The installation location, and the azimuth and tilt of each array of solar modules are the variables that determine the Design Factor.


Direct Current (DC): The electrical current produced by the generating system. Similar to the energy from a battery, this type of current is not typically used in the home but must be converted to AC electricity by the inverter before being used in the home or returned to the grid.

Disconnects: An AC or DC breaker in a distribution panel or a fusible switch. Both may be required. NV Energy personnel must have access to the disconnect breaker.

Distribution Transformer: A transformer that provides the final voltage transformation in the electric power distribution system, stepping down the voltage used in the distribution lines to the voltage used by the customer(s).

Energy Capacity: The maximum amount of electrical energy, in kilowatt-hours (kWh), that an Energy Storage System can store as rated by the manufacturer. For instance, if you have two batteries, each capable of storing 5kWh, your system's Energy Capacity would be 10 kWh.

Equipment Costs: Applicants indicate the completed system's Equipment Cost in NV Energy's application portal. Equipment costs include the materials that are necessary for the proper function of an ESD System or Solar PV system. These costs do not include labor.



Energy Storage Device (ESD): A commercially available technology that is capable of retaining energy or storing energy for a period of time and delivering the energy after storage, including, without limitation, by chemical, thermal or mechanical means. An ESD is also considered a generator for the purposes of this document.

Energy Storage Meter: A bi-directional meter that may be installed with an ESD.

Generation Meter: The meter provided and installed by NV Energy that measures the solar energy system's production of energy over time. This meter is required for renewable generation projects completed in the program and is installed in a meter socket provided by the Host Customer. Also, referred to as a Renewable Energy Credit (REC) meter.

Grid: the distribution network of NV Energy.

Host Customer: The NV Energy customer of record at the proposed installation location. The Host Customer name must exactly match the name on the NV Energy bill. The Host Customer is responsible for making any changes to their NV Energy bill prior to application. Persons listed as co-Applicants on the NV Energy bill may apply as the Host Customer.

Incentive: Money paid for completing a qualifying renewable energy system and/or energy storage system in the Solar Incentives, Residential Energy Storage, and Commercial Energy Storage programs.

Incentive Claim Package: The collection of final documents submitted by an Applicant to claim an incentive.

Installed System Costs: Applicants indicate the completed system cost in the online application portal. Completed system cost includes the cost of the tangible materials and labor for the installed system. The cost of the local building authority permitting must also be listed. Other costs, including other equipment, and design and engineering may be listed as balance of cost of system. These costs are applicable only to Solar PV and/or Commercial Energy Storage Incentives.

Installer: The Nevada licensed electrical contractor who performs the installation and system interconnection.


Inverter: A device that converts DC current from into AC current for use at the property where the system is located. Only grid-interactive inverters are eligible for participation in the Solar Incentives or Energy Storage programs. This type of inverter operates in parallel with the grid only when the NV Energy grid is available. In the event of a power outage, the system is designed to disconnect from the grid until NV Energy has restored power. This function is to provide protection for field personnel.

Large Commercial/Industrial Customer: Non-residential customers in rate classes GS-2, LGS-1 or larger.

Meter Set: The installation of the net, energy storage meter, generation meters by NV Energy which occurs after submission of complete Incentive Claim Package and satisfactory net metering verification.

Net Meter: The meter provided and installed by NV Energy that measures the electricity used by the customer from the grid and the amount of electricity that the customer's renewable energy and/or ESD sends back to the grid. This meter is usually installed in the place of the original Revenue Meter.

Net Metering: Enables customers to offset the cost of their electrical consumption by measuring the difference between the electricity supplied by NV Energy and the electricity generated by the customer that is fed back to the utility over the billing period. This will be required for both solar and energy storage installations. For



Applicants that are applying for a combined system, two bi-directional meters will be installed.

Non-Profit Entity: See Public and Other Property.

One-Line Diagram: Also known as a single-line diagram. A simplified document for representing an electrical power system. Typically, it is in the form a block diagram portraying the paths for power flow within a system. Electrical components such as capacitors, conductors, circuit breakers, protection equipment, etc. can be depicted on such diagrams.

Owned, Leased or Occupied: Any real property, building or facilities which are Owned, Leased or Occupied under a deed, lease, contract, license, permit, grant, patent or any other type of legal authorization.

Participant: A person who has been selected to participate in the Solar Incentives, Small Residential Energy Storage and Commercial Energy Storage programs.

Power Capacity: Also referred to as the maximum continuous output Power Capacity. It is the amount of power, in kilowatts (kW), that an ESD can deliver to the grid as rated by the manufacturer. For an all-in-one battery system, use the manufacturer's specifications. For a system with multiple batteries, the Power Capacity will be the rated capacity of the grid coupled inverter. For ESDs measured in btu/hr, the conversion is 1 watt equals 3.41 btu/hr.


Portfolio Energy Credit (PEC): A measured unit that represents one kilowatt hour (kWh) of renewable energy.

Premise: All of the real property and apparatus of a residential or non-residential customer employed in a single integrated activity operating under one name in one or more buildings and /or locations on an integral parcel of land where: (a) such buildings and/or locations are situated on a single unit of property; or (b) such buildings and/or locations are situated on two or more units of property which are immediately adjoining or adjacent, and are not divided by intervening public highways, streets, alleys, railways or waterways.

Program year: July 1, 2018 to June 30, 2019

Public and Other Property: Any real property, building or facilities which are Owned, Leased or Occupied by:

- a. A public entity;
- b. A non-profit organization that is recognized as exempt from taxation pursuant to section 501(c)(3) of the Internal Revenue Code, 26 U.S.C. § 501(c)(3), as amended; or
- c. A corporation for public benefit as defined in NRS 82.021.
- d. School Property: Any real property, building or facilities Owned, Leased or Occupied by:
 - A public school as defined in NRS 385.007;
 - A private school as defined in NRS 394.103; or
 - An institution of higher education.



The term includes, without limitation, any real property, building or facilities which are Owned, Leased or Occupied by:

- a. A church; or
- b. A benevolent, fraternal or charitable lodge, society or association.

Public Entity: A department, agency or instrumentality of the State or any of its political subdivisions.

Public Property: Any real property, building or facilities Owned, Leased or Occupied by:

1. A department, agency or instrumentality of the State or any of its political subdivisions which is used for the transaction of public or quasi-public business; or
2. A nonprofit organization that is recognized as exempt from taxation pursuant to section 501(c)(3) of the Internal Revenue Code, 26 U.S.C. § 501(c)(3), as amended, or a corporation for public benefit as defined in NRS 82.021.

Reservation Notice: The notice sent to Applicants for whom NV Energy has made an incentive reservation.

Revenue Meter: Also known as a billing meter, is the meter installed by NV Energy that measures the electricity used by the customer from the grid. Where there is a renewable system installed, the Revenue Meter also measures the amount of electricity that the customer's renewable energy system sends back to the grid. This meter could possibly be owned by NV Energy.

Seller: The party that sells or leases the system to the Host Customer.

Small Commercial Customer: Non-residential customers in rate classes GS, GS-1 or smaller, including irrigation rate classes.

Solar Program: The solar energy system incentive program pursuant to NRS 701B.

Step: A tier that defines the incentive rate for the Solar Incentives and Energy Storage programs. The steps for each program change as defined in this document.

System Owner: The owner of the generating system or ESD when the incentive is paid. Systems that are on a leasing arrangement, a lease-to-own arrangement, or a Purchase Power Agreement (PPA) are owned by the leasing company or the company providing the PPA; therefore, those entities are considered the System Owner. The System Owner may be the NV Energy Host Customer or a third party as designated by the Host Customer.

Utility: NV Energy

Utility Interconnection: The physical connection between the NV Energy grid and the customer generation. An Interconnection Agreement (or a Net Metering Agreement) is needed for a customer to have on-site electric generation connected to the NV Energy grid.

Watt: The basic unit of measure of electric power. One-thousand Watts is equal to one kilowatt (kW). One million Watts is equal to one megawatt (MW). A kilowatt hour (kWh) is the unit by which residential and most business customers are billed for monthly electric usage. One kWh represents the use of one kilowatt of electricity for one hour.

ELIGIBILITY

APPLIES TO SOLAR AND STORAGE INCENTIVE FUNDING: The host customer may be required to refund some or all of the incentives they receive if the measures do not remain installed for a period of five (5) years or the expected life of the measure, whichever is greater, or the facility where the measures are installed ceases to be a bundled, full requirement's customer of NV Energy during the said time period.

Solar Incentives

Customers: NV Energy customers, except distribution-only customers, are eligible for incentives. Applications are made in one of the following categories, as determined by the type of customer:

- Residential
- Non-Residential
 - Small Commercial
 - Large Commercial/Industrial
- Public Entity
- Low-Income/Nonprofit

Billing Rate Classes

Residential: All residential customers.

Non-residential billing rate customers are categorized in two rate classes:

Small Commercial: Non-residential customers in rate classes GS, GS-1 or smaller, including irrigation rate class.

Large Commercial/Industrial: Non-residential customers in rate classes GS-2, LGS-1 or larger.

Low-Income/Nonprofit: Customers who demonstrate eligibility by submitting evidence of one of the following:

- Ownership of publicly subsidize housing; IRS 501(c)(3) status
- Qualification for the federal low-income housing tax credit (LIHTC);
- Annual household income that does not exceed the low-income limits (80%) of the U.S.
- Department of Housing and Urban Development's most current Income Limits Documentation System data for the number of individuals in the household and the county in which the person resides; or, Qualification as a Title 1 School.

Public Entity: Customers that are:

- A department or agency of a state or local government; or,
- A public-school district.
- An institute of higher education that is part of the Nevada System of Higher Education;
- An Indian tribe or tribal organization; or,
- A corporation for public benefit.

Installers must have an active C-2 or C-2g Nevada contractor's license. If a contractor's license is suspended,

applications associated with the contractor are not eligible to receive a reservation notice or an incentive payment, unless the system was completed and inspected by the local building authority prior to the suspension date. Customers may select a different Installer – refer to the Application Changes section in this handbook for more information.

Energy Storage Incentives

NV Energy customers who have previously installed a renewable energy system or are currently installing one alongside their energy storage system are eligible for incentives. Applications are made in one of the following categories, as determined by the type of customer, facility, and system capacity rating:

Customers:

- Residential
- Non-Residential
 - Small Commercial
 - Large Commercial/Industrial
- Public Entity
- Low-Income/Nonprofit

System Capacity Ratings: For the purposes of the energy storage incentive programs, NV Energy will reference both system Power Capacity, expressed in watts or kilowatts (W or kW) and system Energy Capacity, expressed in watt-hours or kilowatt-hours (Wh or kWh). Power capacity will be used to determine program eligibility of a system. For example, the maximum size system that can be installed in the energy storage incentive programs is 1,000 kW. Energy capacity will be used to calculate the incentive for most categories, as it is recognized to be the best metric for quantifying potential benefit of energy storage systems.

Installers must have an active C-2 Nevada contractor’s license. If a contractor’s license is suspended, applications associated with the contractor are not eligible to receive a reservation notice or an incentive payment, unless the system was completed and inspected by the local building authority prior to the suspension date. Customers may select a different Installer – refer to the Application Changes section in this handbook for more information.

Equipment Eligibility: Please refer to the “Siting & Equipment” section below for approved storage devices and equipment.

Billing Rate Classes

Residential: All residential customers.

Non-residential billing rate customers are categorized in two rate classes:

Small Commercial: Non-residential customers in rate classes GS, GS-1 or smaller, including irrigation rate class.

Large Commercial/Industrial: Non-residential customers in rate classes GS-2, LGS-1 or larger.

Low-Income/Nonprofit: Customers who demonstrate eligibility by submitting evidence of one of the following:

- Ownership of publicly subsidize housing; IRS 501(c)(3) status
- Qualification for the federal low-income housing tax credit (LIHTC);
- Annual household income that does not exceed the low-income limits (80%) of the U.S.
- Department of Housing and Urban Development’s most current Income Limits Documentation System data for the number of individuals in the household and the county in which the person resides; or, Qualification as a Title 1 School.

Public Entity: Customers that are:

- A department or agency of a state or local government; or,
- A public-school district.
- An institute of higher education that is part of the Nevada System of Higher Education;
- An Indian tribe or tribal organization; or,
- A corporation for public benefit.

Residential Storage Program

Customers:

The Residential Storage program is for customers who plan to install solar-integrated energy storage units from 4 kW up to 100 kW capacity and either already have or will install a renewable energy system, like rooftop solar. There are two incentive levels categorize on two different rates described below:

- **Time-of-Use (TOU) Rate:** A rate plan that lets customers who are willing to use less electricity during peak demand periods save money by shifting their usage to times with lower rates. Customers that are on a TOU rate plan receive a higher energy storage incentive amount.
- **Non-Time of Use (TOU) Rate:** A rate plan in which rates are at a flat rate despite the time of day, season and day type.

The maximum incentive rate is \$0.22 per watt-hour for customers on a TOU rate and \$0.11 per watt-hour for customers that are not on a TOU rate. The incentive payment is capped at \$3,000 per premise or 50% of the Equipment Cost, whichever is less.

The incentive amount steps down (decreases) every time \$1 million of incentives have been reserved. The TOU incentive amount decreases by \$0.02 per watt-hour (Wh) for every step. The non-TOU incentive amount decreases by \$0.005 per watt-hour (Wh) for every step as shown in the table below:

Total Incentives Reserved	Residential Incentive	
	TOU (\$/Wh)	Non-TOU (\$/Wh)
\$0 - \$1 Million	\$0.220	\$0.110
> \$1M - \$2M	\$0.200	\$0.105
> \$2M - \$3M	\$0.180	\$0.100
> \$3M - \$4M	\$0.160	\$0.095
> \$4M - \$5M	\$0.140	\$0.090

More Information on TOU Rates:

For more information on TOU rates, please visit <https://www.nvenergy.com/account-services/energy-pricing-plans/time-of-use>.

Capacity Thresholds: Under the Residential Storage program, the minimum Energy Capacity for an energy storage system is 8 kilowatt-hours. The maximum Power Capacity is 1,000 kilowatts, but customers applying under the Residential Storage program will only be incentivized up until 100 kilowatts. The energy storage device must be capable of being charged by at least 75% by a renewable energy source (i.e., solar PV system).

Commercial Storage Program

Customers/Facilities:

The Commercial Storage program is for small and large commercial and industrial customers who are going to install an energy storage system must either already have or will install a renewable energy system, like rooftop solar.

There are two categories of Commercial Storage incentives:

- For energy storage systems with 4 kW up to 100 kW capacity
- For energy storage systems with 100 kW to 1,000 kW capacity

Energy storage systems from 4 kW up to 100 kW capacity

For storage systems between 4 kW and 100 kW in capacity, incentive levels vary if the customer is on a TOU rate plan or not:

- **TOU rate:** A rate plan that lets customers who are willing to use less electricity during peak demand periods save money by shifting their usage to times with lower rates. Customers that are on a TOU rate plan receive a higher incentive amount.

- **Non-TOU rate:** A rate plan in which rates are at a flat rate despite the time of day, season and day type.

The maximum incentive rate is \$0.15 per watt-hour for customers on a TOU rate and \$0.08 per watt-hour for customers that are not on a TOU rate.

The incentive amount steps down every time \$1 million of incentives have been reserved. The changes in the incentive levels are shown in the following table:

Total Incentives Reserved	Commercial Incentive for Systems 4 kW to 100 kW	
	TOU (\$/Wh)	Non-TOU (\$/Wh)
\$0 - \$1 Million	\$0.15	\$0.08
> \$1M - \$2M	\$0.14	\$0.07
> \$2M - \$3M	\$0.13	\$0.06
> \$3M - \$4M	\$0.11	\$0.06
> \$4M - \$5M	\$0.10	\$0.05

Energy storage systems from 100 kW up to 1,000 kW capacity

There are different incentive levels available for commercial customers that are installing solar-integrated energy storage systems between 100 kW and 1,000 kW. Commercial facilities that are deemed to be Critical Infrastructure are prioritized and are eligible to receive a higher incentive amount.

Customers with Critical Infrastructure

Customers who plan to install large solar-integrated solar battery systems in new or existing Critical Infrastructure facilities may be eligible for incentives.

The maximum incentive rate is \$0.40 per watt-hour. The total incentive payment is capped at the lesser of 50% of the Installed System Costs or \$300,000 per premise.

Customers with Non-Critical Infrastructure

Commercial and industrial customers who intend to install large solar integrated energy storage systems (100 kW to 1,000 kW) but do not qualify as having Critical Infrastructure may also be eligible for incentives.

The maximum incentive rate is \$0.30 per watt-hour. The total incentive payment is capped at the lesser of 50% of the Installed System Cost or \$200,000.

Incentive Reservation Steps

The incentive amount steps down every time \$1 million of incentives have been reserved. The incentive amount

for both critical and non-Critical Infrastructure facilities decreases by \$0.02 per watt-hour (Wh) for every step.

Total Incentives Reserved	Commercial Incentive for Systems 100 kW to 1,000 kW	
	Critical Infrastructure \$/Wh	Non-Critical Infrastructure \$/Wh
\$0 - \$1 Million	\$0.40	\$0.30
> \$1M - \$2M	\$0.38	\$0.28
> \$2M - \$3M	\$0.36	\$0.26
> \$3M - \$4M	\$0.34	\$0.24
> \$4M - \$5M	\$0.32	\$0.22

Applicants for the Critical Infrastructure incentive must provide evidence that the project supports emergency services always available for the public benefit.

Capacity Rating Thresholds: Under the Commercial Storage program, the minimum Power Capacity rating for an energy storage system is **100 kilowatts**. The maximum Power Capacity rating is **1,000 kilowatts**. The energy storage device must be capable of being charged by at least 75% by a renewable energy source (i.e., solar PV system).



APPLICATION

Applications are submitted online through the online application portal that is accessed through the NV Energy website.

Applications are reviewed within ten (10) business days¹ to confirm that the Host Customer is eligible for the category and that all required documentation is provided. If defects are noted, the Utility and Applicant shall cooperate in a timely manner to establish a satisfactory Application. Applications are approved based on the order in which complete applications are submitted.²

Important communications are sent by email to program participants. Accurate email addresses are required for ALL program participants, including Host Customers.

Deficient applications will not be processed. Deficient applications that are not corrected within 20 days of the Applicant being notified of the deficiency are canceled and the application fee (explained in the Application Fee section) is forfeited.

¹ Rule 15 Paragraph D.1.b

² NRS 701B.210.3

The chart below shows the documents required for the initial application:

Documents Required	Solar + Energy Storage Incentive Application	Solar Only Incentive Application	Energy Storage Only Incentive Application
Copy of the installation contract or energy services agreement for the installation of the system	✓	✓	✓
Recent copy of the Host Customer's NV Energy utility bill	✓	✓	✓
Site plan	✓	✓	✓
Energy Storage Technical Specification Includes: Data/Specification sheet with nameplate or Power Capacity listed	✓		✓
One line-diagram	✓	✓	✓
Evidence of host customer category eligibility (Low-Income/Nonprofit only)	✓	✓	

Contract or agreement must include:

1. Names and signatures of the NV Energy Host Customer and the Installer. Host Customer name on the contract or agreement must match the name on the application and the NV Energy bill. In the case of a lease agreement (or PPA), a copy of the executed lease agreement/PPA must be attached to the executed installation agreement. In the case of a landlord/tenant situation, the tenant as the customer on the Utility account can designate the property owner to act as the Host Customer as related to the Application. This can be done by completing and submitting the appropriate Landlord Designated Applicant form.
2. The physical address of the installation.
3. The AC wattage, expected energy of the system or other clear indication of proposed system size. **(Applies to applications for solar only)**
4. The Power Capacity, Energy Capacity of the energy storage system or other clear indication of the proposed system size. **(Applies to applications for energy storage only or solar + energy storage coupled systems)**
5. Inverter specification information

Utility Bill:

If NV Energy service has not been established, as in new construction, the Applicant may submit, in place of the utility bill, a document indicating future service. NV Energy service must be established before the system will be interconnected. To demonstrate that service has been established a copy of a recent utility bill must be provided with the Incentive Claim Package.

Site Plan:

This is a top down visual layout of the installation site. It should show the location of all relevant system components including the solar system panels, the energy storage system, any and all inverters, disconnect switches, any and all meters, main service electrical panel, and any electrical sub-panels. Any access issues should be indicated on the site plan. This could include, but is not limited to, walls, gates, or equipment installed inside buildings or structures that are not easily accessible.

Solar


A site plan indicating where the panels are proposed to be installed. This plan can be from a commercially available overhead image that has been modified to show the location of the solar panels.

Energy Storage

A site plan indicating where the ESD is proposed to be installed. The metering configuration must comply with NV Energy's RE3 Net Metering standard. This can be found at:

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/re/ESRNPC-RE003-REV10.pdf.

Meter and Disconnect Switches



All Utility meters and disconnect switches shall be located on the exterior of the building or in an electrical supply room that is easily accessible to NV Energy personnel. The appropriate number of meters and disconnect switches should be included in the site plan and technical diagrams depending on the systems and system configurations.

Inverter

Any and all inverters should be clearly indicated on the site plan. For AC coupled solar and energy storage integrated systems, there should be at least two inverters included in the site plan.

Technical Diagrams

The Application must also include technical diagrams, either single-line or three-line diagrams, that show the electrical connections for all relevant electrical systems on site. This would include any existing or previously installed renewable generation, distributed generation or energy storage equipment in addition to any ancillary components. Technical specification, including any telecommunications protocols or equipment, for all included electrical systems should also be provided. This includes inverters, energy storage systems (or battery modules), renewable energy systems, or others.



APPLICATION FEES

A \$35 non-refundable fee is required for each application submitted. The fee must be received by NV Energy before the application will be reviewed and approved. Applications are reviewed in the order that fees are received.

Since the fee may be paid by the customer or the solar company, customers should communicate with their solar company before submitting payment. If NV Energy receives duplicate fee payments for the same application, the first payment is posted and subsequent payments are returned.

The fee may be submitted by check or electronically through the NV Energy Western Union payment portal, SpeedPay. The link to SpeedPay is provided in the application. The application number, generated when the application is submitted, must be written on checks and provided in SpeedPay. Application fee checks are not accepted prior to submission of an application. Cash is not accepted. SpeedPay is only available when an NV Energy account number exists. Residential and commercial new construction will not yet have an NV Energy account number, so SpeedPay will not be available; therefore, payment must be made by check.

If the fee is not received within 30 days of submission of the application, the application will be cancelled.

Application fees may be mailed to:
NV Energy Renewable Energy Programs
MS 2A35
Reno, NV, 89511

If a complete incentive claim for the completed system is not submitted prior to the expiration date on the Reservation Notice the fee is forfeited.

SYSTEM SIZING – SOLAR

When it comes time to properly sizing a solar PV system, the installation contractor will utilize NV Energy's online application software or will determine the size based upon historical energy usage at the Premise.

The highest energy usage that occurred in 12 consecutive months out of the last 24 months will be used to determine the maximum size of the new solar PV system. The system size can be less than the amount estimated to be used at the premise, but it cannot be sized to create more energy than is estimated to be consumed in a year based on the customer's annual requirements for electricity.

The size of a net metered solar PV system is measured in kilowatts (kW) in alternating current (AC). The CEC AC wattage of a system is the California Energy Commission (CEC) rating of each panel multiplied by the number of panels, then multiplied by the CEC efficiency rating of the inverter(s). The "Effective System Size" in NV Energy's online application portal an adjusted version of the CEC-AC rating to reflect actual system output. The adjustment factor is inherently included in the NV Energy application software.

Commercial and Residential System Sizing

If energy has not been consumed at a proposed location for a 12 consecutive-month period during the two prior years, or if the customer has a change of circumstances that would make the historical usage calculation incorrect, then a Nevada licensed engineer's estimated energy usage may be used for systems as an alternative method for estimating usage. Some of the factors that may contribute to a change of energy consumption include:

1. customers that add on additional square footage to a dwelling that already has a solar installation;
2. customers that add electric vehicles;
3. premises that do not have 12 consecutive months of billing history prior to submission of the application; and
4. other significant load changes.


The estimated production of the proposed system (kWh) may not exceed the engineer's calculation.

Alternative Residential System Sizing Method

If the host customer has not consumed energy at a proposed residential installation location for a 12 consecutive-month period during the two prior years, then the solar system may be sized by using less than 12 months which would produce a smaller than potential maximum system size. Alternatively, the system may be sized based on the interior living area of the residence. In northern Nevada the solar system may be up to 2 watts (CEC-AC) per square foot of interior living space; in southern Nevada the solar system may be up to 2.8 watts (CEC-AC) per square foot of interior living space. If 12 months of energy usage history exists, then the watts per square foot of interior living space method may not be used.

System Additions

Host Customers may interconnect additional capacity at a premise with existing renewable generation capacity. System addition applications are subject to special terms that require review and approval by NV Energy. The list below addresses some of the considerations for system additions. **Ask before you add!**

- 
- All renewable generation capacity on a Premise that has received or will receive an incentive cannot exceed 500 kW (CEC-AC). This limitation applies separately for renewable generation systems of other types (i.e. wind and hydrogeneration).
 - If ownership of Portfolio Energy Credits (PECs) for previously installed capacity (for systems that did not receive an incentive) is to be maintained by the System Owner, the new capacity must have a generation meter installed to separately measure system production. PECs for any previously installed capacity that is not separately metered are assigned by the System Owner to NV Energy.
 - Installation of additional capacity on a system receiving production-based incentive requires that the reserved capacity have a separate generation meter from the additional, unreserved capacity.

Portfolio Energy Credit (PEC): A measured unit that represents one kilowatt hour (kWh) of renewable energy.

Additional Notes on Capacity

Customers may install a system larger than the size indicated on the Reservation Notice provided that the system does not exceed 500 kW (CEC-AC) and the size limits as described in Net Metering law.

SYSTEM SIZING – ENERGY STORAGE

1. To qualify for an incentive, the minimum solar PV Power Capacity to energy storage system Power Capacity ratio must be **0.35**.
2. The solar PV system Power Capacity to energy storage system Power Capacity ratio is defined by the following equation.

$$\frac{\text{Solar PV System Power Capacity (CEC}_{ac} \text{ kW)}}{\text{Energy Storage System Power Capacity (kW}_{ac})}$$

If the minimum ratio requirement is not met, the customer must propose a system design that meets the requirement of the 0.35 ratio.

This method of sizing your proposed energy storage system is structured so that customers will be able to qualify for the Internal Revenue Service (IRS) Investment Tax Credit (ITC) as result of meeting the aforementioned minimum ratio requirement. The IRS may choose to audit filings that claim this tax credit. Customers are required to demonstrate that their systems operate within the guidelines outlined by the IRS. For more information on the ITC, please consult your accountant.

Applicants must adhere to the following energy storage system sizing requirements:

- The energy storage device must be charged by at least 75% by a renewable energy source (i.e. Solar PV system).
- Applicants of the Residential Energy Storage Program must install an energy storage system with an Energy Capacity of at least 8 kilowatt-hours to qualify for an incentive.
- Applicants of the Commercial Energy Storage Program must install an energy storage system with a Power Capacity of at least 100 kilowatts.
- Under both the Commercial and Residential Energy Storage Programs, the Power Capacity of the system must not exceed 1,000 kilowatts.

System Additions

Host Customers may interconnect additional capacity at a premise with existing Energy Storage capacities. System addition applications are subject to special terms that require review and approval by NV Energy. The list below addresses some of the considerations for system additions. **Ask before you add!**

EQUIPMENT AND UTILITY INSTALLATION STANDARDS

Meter requirement: All solar PV and ESD installations must meet NV Energy's metering requirements as outlined in NV Energy's Rules and Standards. A comprehensive list of these Rules and Standards can be found at www.nvenergy.com. One of the standards that is relevant to solar and energy storage installations is the **RE-3 Standard**. This standard includes the approved installation configurations document in One-line Diagrams and can be found at:

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/re/ESRNPC-RE003-REV10.pdf

Engineering Requirement Standards

The following documents will provide information on engineering requirements and standards associated with ESDs.

Generator Device

The following link to the document below will discuss the Utility's planning and design requirements for generators connected to and operating in parallel with electrical systems to ensure the safety of the people and property as well as the integrity of the electrical system. This is known as the **RE-1 Standard**.

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/re/ESRNPC-RE001-REV02.pdf

Additionally, the National Fire Protection Association has established the criteria for minimizing the hazards associated with energy storage systems with the **NFPA 855 Standard**. This standard for the installation of stationary energy systems can be found in the link below.

<https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=855>

Net Metering System

The following link to the document below will discuss the Utility's design requirements for Net Metering systems to operate in parallel with the Utility's electric system to ensure the safety of people and property and the integrity of the electrical system. ESDs that are paired with a Net Metering System are included in this standard. This is known as the **RE-3 Standard**.

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/re/ESRNPC-RE003-REV10.pdf

Metering Equipment Requirements

The following documents will provide information on metering equipment requirements and standards associated with a Net Metering system.

Material Requirements

The following link to the document below will discuss the minimum manufacturing requirements for utility metering and service equipment that is rated 0-600V. These requirements are based on practices that are necessary to supply uniform satisfactory and safe service. This is known as the **RPM-G Standard**.

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/rpm/ESRNPC-RPM00G-REV08.pdf

Installation Requirements

The guidelines within the following link to the document below are based on NV Energy (NVE) practices that are deemed necessary to supply uniform satisfactory and safety service. This is known as the **RPI-G Standard**.

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/account-services/building-and-new-construction/electric-service-standards-south/rpi/ESRNPC-RPI00G-REV05.pdf

Generating Facility Interconnections Requirements

The following link to the document below discusses **Rule 15**, which describes the interconnection, operating and Metering requirements for Generating Facilities intended to be connected to the Utility's electric distribution system over which the Public Utility Commission has jurisdiction. This document applies only to Generating Facilities with a net Power Capacity of **20,000 kilowatts** or less unless otherwise required in federal or state law.

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/about-nvenergy/rates-regulatory/electric-rules-south/Rule_15_South.pdf

Electric Service Standards

The following links will provide information regarding electric service standards for Southern and Northern Nevada. Each link contains documentation on general information, guidelines, staking & trenching, conduits, boxes & vaults, etc. for each the two aforementioned territories.

General Standard Southern Nevada

<https://www.nvenergy.com/account-services/building-and-new-construction/electric-service-standards-south>

General Standard Northern Nevada

<https://www.nvenergy.com/account-services/building-and-new-construction/electric-service-standards-north>

SITING AND EQUIPMENT

All completed solar systems must adhere to the following siting requirements:

- Completed systems will be reviewed and may be inspected following submission of the Incentive Claim Package to confirm compliance with program rules. If siting requirements cannot be visually verified during the program post inspection, the Applicant may provide NV Energy with a stamped and signed attestation of system azimuth or shading from a Nevada licensed professional engineer, or other evidence of actual azimuth as approved by NV Energy.
- The solar panels (modules) and inverters in the system must be listed on the California Energy Commission (CEC) lists of approved solar equipment.
- Solar PV equipment must be new and must have the following warranties:
 - Solar panels – 20 years (product or production)
 - Inverters – 7 years (product)
 - Labor and Workmanship – 2 years

All completed energy storage systems must adhere to the following siting requirements:

- Completed systems will be reviewed and may be inspected following submission of the Incentive Claim Package to confirm compliance with program rules. (See Inspection section for more details)
- Energy storage equipment must be new and must have the following warranties:
 - ESD – 10 years (product)
 - Inverters – 7 years (product)
 - Labor and Workmanship – 2 years

Residential Equipment and Configuration Requirements

- Chemical, mechanical or thermal type systems
- Commercially available
 - This means that the principal components of the system must be available for purchase to the general development community through conventional purchase channels.
- New and never previously installed
- Permanently installed
- UL listed
- Connected to a net metered solar system on the customer's service
- Operated in parallel to the grid
- 1,000 kW Maximum Power Capacity
- Rated to a minimum 85% round trip efficiency

- Metered in accordance with energy storage interconnection standards
- Capable of being used for future demand response programs
- Energy Capacity of at least 8 kWh or equivalent
 - Thermal energy storage system ratings to be calculated according to Appendix D of the current version of the California Self Generation Incentive Program Handbook. (<https://www.selfgenca.com/documents/handbook/2017>)
 - Mechanical energy storage system capacity calculations are subject to review and approval by the Program.

Commercial Equipment and Configuration Requirements

- Chemical, mechanical or thermal type systems
- Commercially available
 - This means that the principal components of the system must be available for purchase to the general development community through conventional purchase channels.
- New and never previously installed
- Permanently installed
- UL listed
- Connected to a net metered solar system on the customer's service
- Operated in parallel to the grid
- 1,000 kW Maximum Power Capacity
- Rated to a minimum 85% round trip efficiency
- Metered in accordance with energy storage interconnection standards
- Power capacity of at least 100 kW or equivalent
 - Thermal energy storage system ratings to be calculated per Appendix D of the current version of the California Self Generation Incentive Program Handbook. (<https://www.selfgenca.com/documents/handbook/2017>)
 - Mechanical energy storage system capacity calculations are subject to review and approval by the Program.
- Capable of being used for future demand response programs

INCENTIVE CALCULATION

Solar PV

The maximum eligible incentive for an application is calculated and reserved during the initial application process and is listed on the Reservation Notice. The method for incentive calculation and incentive payment are determined by the size of the proposed solar PV system.

System Size	Incentive Calculation
0-25 kW (CEC-AC)	Expected Performance Based Buydown (EPBB)
25.001-500 kW (CEC-AC)	Performance Based Incentive (PBI)

Expected Performance Based Buydown (EPBB): A one-time payment, determined by the expected production of the solar system.

$$EPBB \text{ incentive payment} = CEC_{AC} \times Design \text{ Factor} \times Incentive \text{ Rate}$$

The Design Factor is determined by taking the ratio of estimated production for the actual system to that of an idealized system. NV Energy’s application portal will indicate the CEC-AC, the Effective System Size and the Effective Estimated Annual Production as shown below:

System Rating: 8 kW DC / 6.919 kW CEC-AC
 Design Factor: 89.7 % Calculate

Please Note:

- Use the Effective Estimated Annual Production when sizing the system by Historical Consumption. The annual production must be LESS THAN the host customer’s annual energy use.
- If using Square Footage to size the system, the Estimated Power (kW) must be compared to the Effective System Size. The system rating must be LESS THAN the calculated Estimated Power (kW).

Effective Estimated Annual Production
12156 kWh

Effective System Size
6.919 kW

EPBB Incentive Rate

Category	Step 11
Residential/Commercial/Industrial	\$0.20 / watt
Low-Income/Nonprofit/Public Entity	\$0.45 / watt

The EPBB incentive payment will not exceed the lesser of:


- The maximum amount listed on the Reservation Notice
- CEC-AC wattage multiplied by Design Factor multiplied by incentive rate
- AC wattage multiplied by average installation cost per watt multiplied by 50%
- The actual total installed cost of the system

Performance Based Incentive (PBI): The incentive is paid over time, in quarterly payments, determined by the amount of energy produced by the system. Energy production is measured by the NV Energy generation (REC) meter installed in the customer provided meter socket.

$$\text{PBI Incentive payment} = \text{Energy Production During Payment Period (kWh)} \times \text{Incentive Rate}$$

PBI Incentive Rate

Category	Step 11
Residential/Commercial/Industrial	\$0.0250/ kWh
Low-Income/Nonprofit/Public Entity	\$0.0550 / kWh



The total of all PBI payments will not exceed the lesser of:

- The total kWh production of the system during the five years after initial interconnection multiplied by incentive rate listed on the Reservation Notice
- CEC-AC wattage multiplied by average PBI installation cost per watt multiplied by 50%
- The total installed cost of the actual system

Residential Energy Storage

The maximum eligible incentive for an application is calculated and reserved during the initial application process and is listed on the Reservation Notice. The method for incentive calculation and incentive payment are determined by the Energy Capacity of the proposed ESD as well as the billing rate category of the customer. Incentives will be based on a dollar per watt-hour (\$/Wh) rate for this Program Year at levels stated below.

Note: Each step is set by a total of \$1,000,000 of reserved funds for the program participants. Step 1 begins on September 4, 2018 of the program year.

Total Incentives Reserved	Residential Incentive	
	TOU (\$/Wh)	Non-TOU (\$/Wh)
\$0 - \$1 Million	\$0.220	\$0.110
> \$1M - \$2M	\$0.200	\$0.105
> \$2M - \$3M	\$0.180	\$0.100
> \$3M - \$4M	\$0.160	\$0.095
> \$4M - \$5M	\$0.140	\$0.090

Incentive Calculation

The calculation of the one-time incentive payment is listed below.

$$\text{Incentive Payment} = \text{Energy Capacity (Wh)} \times \text{Incentive Level}(\$/\text{Wh})$$

Where,

Energy Capacity - The maximum amount of energy an ESD can retain measured in watt-hours (Wh).

Incentive Level - The incentive rate that applies to the Time of Use or Non-Time of Use Customer.

Incentive Payment - The total incentive to be paid to the customer.

Incentive Cap

The energy storage incentive payment will not exceed the lesser of:

- The maximum amount listed on the Reservation Notice
- The calculated Incentive Payment
- 50% of the Equipment Costs (See Incentive Claim for details); or

- \$3,000 (i.e. for the total project cap) per premise

Example 1: You are a residential TOU customer installing an energy storage device that has an Energy Capacity of 18,000 Wh. The initial incentive calculation is equal to an incentive of \$3,960 (18,000 Wh x \$0.22/Wh). However, the initial incentive calculation exceeds the project cap per premise of \$3,000, so the incentive will be capped at \$3,000.

Example 2: You are a residential TOU customer installing an energy storage device that has an Energy Capacity of 13,500 Wh and Equipment Costs of \$4,000. The initial incentive calculation is equal to an incentive of \$2,970 (13,500 Wh x \$0.22/Wh). However, the initial incentive calculation exceeds 50% of the Equipment Cost, which is \$2,000 (50% of \$4,000). Therefore, the final incentive calculated will be capped at \$2,000.

Commercial Energy Storage 4kW to 100kW

The maximum eligible incentive for an application is calculated and reserved during the initial application process and is listed on the Reservation Notice. The method for incentive calculation and incentive payment are determined by the Energy Capacity of the proposed ESD as well as the billing rate category of the customer. Incentives will be based on a dollar per watt-hour (\$/Wh) rate for this Program Year at levels stated below.

Note: Each step is set by a total of \$1,000,000 of reserved funds for the program participants. Step 1 begins on September 1, 2018 of the program year.

Total Incentives Reserved	Commercial Incentive for Systems 4 kW to 100 kW	
	TOU (\$/Wh)	Non-TOU (\$/Wh)
\$0 - \$1 Million	\$0.15	\$0.08
> \$1M - \$2M	\$0.14	\$0.07
> \$2M - \$3M	\$0.13	\$0.06
> \$3M - \$4M	\$0.11	\$0.06
> \$4M - \$5M	\$0.10	\$0.05

Incentive Calculation

The calculation of the one-time incentive payment is listed below.

$$\text{Incentive Payment} = \text{Energy Capacity (Wh)} \times \text{Incentive Level}(\$/\text{Wh})$$

Where,

Energy Capacity - The maximum amount of energy an ESD can retain measured in watt-hours (Wh).

Incentive Level - The incentive rate that applies to the Time of Use or Non-Time of Use Customer.

Incentive Payment - The total incentive to be paid to the customer.

Note: Incentives will be available on a first-come, first served basis until funds are exhausted. The incentives displayed are under review and subject to change.

Commercial Energy Storage 4kW to 100kW

The maximum eligible incentive for an application is calculated and reserved during the initial application process and is listed on the Reservation Notice. The method for incentive calculation and incentive payment are determined by the Energy Capacity of the proposed ESD as well as the billing rate category of the customer. Incentives will be based on a dollar per watt-hour (\$/Wh) rate for this Program Year at levels stated below.

Note: Each step is set by a total of \$1,000,000 of reserved funds for the program participants. Step 1 begins on September 1, 2018 of the program year.

Total Incentives Reserved	Commercial Incentive for Systems 100 kW to 1,000 kW	
	Critical Infrastructure \$/Wh	Non-Critical Infrastructure \$/Wh
\$0 - \$1 Million	\$0.40	\$0.30
> \$1M - \$2M	\$0.38	\$0.28
> \$2M - \$3M	\$0.36	\$0.26
> \$3M - \$4M	\$0.34	\$0.24
> \$4M - \$5M	\$0.32	\$0.22

Incentive Calculation

The calculation of the one-time incentive payment is listed below.

$$Incentive\ Payment = Energy\ Capacity\ (Wh) \times Incentive\ Level\ (\$/Wh)$$

Where,

Energy Capacity - The maximum amount of energy an ESD can retain measured in watt-hours (Wh).

Incentive Level - The incentive rate that applies to the Time of Use or Non-Time of Use Customer.

Incentive Payment - The total incentive to be paid to the customer.



Incentive Cap

The energy storage incentive payment will not exceed the lesser of:

- The maximum amount listed on the Reservation Notice
- The calculated Incentive Payment
- 50% of the installed system cost of the energy storage system (See Incentive Claim for details); or
- \$200,000(i.e. for the total project cap) per premise for non-Critical Infrastructure projects and \$300,000(i.e. for the total project cap) per premise for Critical Infrastructure projects

Example 1: You are a customer installing an energy storage device that has an Energy Capacity of 800,000 Wh on a premise that is deemed as Critical Infrastructure. The initial incentive calculation is equal to an incentive of \$320,000 (800,000 Wh x \$0.40/Wh). However, the initial incentive calculation exceeds the Critical Infrastructure project cap per premise of \$300,000, so the incentive will be capped at \$300,000.

Example 2: You are a customer installing an energy storage device that has an Energy Capacity of 750,000 Wh on a premise that is deemed as Critical Infrastructure. The total installed system cost for the project is \$500,000. The initial incentive calculation is equal to an incentive of \$300,000 (750,000 Wh x \$0.40/Wh). However, the initial incentive calculation exceeds 50% of the installed system cost which is \$250,000 (50% of \$500,000). Therefore, the final incentive will be \$250,000.

Note: Incentives will be available on a first-come, first served basis until funds are exhausted. The incentives displayed are under review and subject to change.

RESERVATION NOTICE

Solar PV

Once an application has been reviewed and approved, the Applicant, Host Customer, Installer and System Owner are sent a Reservation Notice by email that indicates that incentive funds have been reserved for the project. The notice lists the approved kilowatt capacity of the system and the calculated incentive amount for performance-based incentives (PBI) and for expected performance-based buy-down (EPBB) incentives. The Host Customer has sole rights to the Reservation Notice. The application reservation expires one year from the date the Reservation Notice email is sent from NV Energy's application portal.

Applicants may check the status of their application by signing into NV Energy's application portal. "Active" status indicates that a Reservation Notice has been issued.

If the project construction begins prior to the Reservation Notice being issued, the project Applicant will then forfeit their incentive. Applicants will also forfeit their eligibility for the incentive if the Applicant withdraws from participation in the Solar Program. Lastly, the Applicant will forfeit their incentive if the installation of the solar energy system is not complete within 12 months after the date on which the Applicant is selected for participation in the Solar Program.³

Energy Storage


Once an application has been reviewed and approved, the Applicant, Host Customer, Installer and System Owner are sent a Reservation Notice by email that indicates that incentive funds have been reserved for the project. The notice lists the approved size of the energy storage system and the calculated incentive amount. The Host Customer has sole rights to the Reservation Notice.

A system that is less than 100kW has a reservation that expires one year from the date the Reservation Notice email is sent from NV Energy's application portal. An Applicant for a system that is less than 100kW in capacity may seek up to two 6-month extensions for the Reservation Notice by submitting written notice to NV Energy prior to the expiration of the original Reservation Notice.

A system that is between 100kW and 1,000kW has a reservation that expires 18 months from the date the Reservation Notice email is sent from NV Energy's application portal. An Applicant for a system that is between 100kW and 1,000kW in capacity may seek up to three 6-month extensions for the Reservation Notice by submitting written notice to NV Energy prior to the expiration of the original Reservation Notice.

If an Applicant is seeking an extension to the Reservation Notice, they must provide proof or progress and intent to complete the system installation. Proof of progress is subject to review and approval by NV Energy and may include, without limitation evidence that substantial percentage of project construction has been completed, evidence of that the principal components of the system have been purchased and delivered to the installation location, or evidence of substantial non-refundable payments of installation costs. Applicants must also provide an attestation, signed by the Host Customer, Installer and System Owner, of intent to complete the system and acknowledgment that project will not be eligible for incentive if not completed by the extended expiration date.

³ NRS 701B.255.6



Applicants may check the status of their application by signing into NV Energy’s application portal. “Active” status indicates that a Reservation Notice has been issued.

If the project construction begins prior to the Reservation Notice being issued, the Applicant will then forfeit their incentive. Applicants will also forfeit their eligibility for the incentive if the Applicant withdraws from participation in the Residential or Commercial Energy Storage Program. Lastly, the Applicant will forfeit their incentive if the installation of the ESD is not complete within 12 months after the date on which the Applicant is selected for participation in the Residential or Commercial Energy Storage Program.



CONDITIONAL RESERVATION NOTICE

Once the available incentive funds have been reserved, all subsequently approved applications will receive a “Conditional Reservation Notice” in the order of their application submission. If there are not enough funds remaining to cover an entire Reservation Notice, the remaining amount will be issued as a Conditional Reservation. Construction on the solar and/or ESD may begin upon issuance of the Conditional Reservation Notice. If construction has started prior to this date the project is not eligible for an incentive. Although construction may begin once a Conditional Reservation Notice has been issued, there is no guarantee that the Conditional Reservation Notice will receive funding. The Applicant may choose to continue with the construction at their own discretion.

The Conditional Reservation Notice process will be further defined by NV Energy prior issuance of any Conditional Reservation Notices. Updates will be reflected on in the program handbook accessible from the NV Energy website. Make sure to always reference the latest version.



APPLICATION CHANGES

Installation Location

Applicants and Host Customers may change the installation address of a reservation to another address with the same Host Customer. Changes must be requested in writing to NV Energy and are subject to system sizing rules. Location changes will require that the Applicant provide a copy of a recent NV Energy bill for the proposed location. The new installation location is recorded in NV Energy's application portal, but the Reservation Notice is not revised. The terms of the original Reservation Notice apply to the new installation location.

Applicant or Installer

Host Customers may change or rescind affiliation with any of the parties of the original application with written notice to NV Energy. The Installer may be changed by either the Applicant, System Owner or the Host Customer with written notice to NV Energy.

Host Customer

The Host Customer name for an application may be changed before project completion and interconnection by the original Host Customer with written request to NV Energy. A copy of a recent utility bill in the name of the new Host Customer must be provided with the change request.

Reservation Notices

Reserved incentives listed on the Reservation Notice cannot be changed. An Applicant can choose to withdraw their Application and reapply for a larger system size if justified by past consumption, and if construction on the Solar PV and/or ESD has not been started. New applications are subject to incentive levels and the availability of incentive funds at the time of the new application and must comply with current net metering rules. New Applications require a new non-refundable \$35 application fee, and a new Reservation Notice will be sent.

INCENTIVE CLAIM

The Applicant requests interconnection of the system and payment of the incentive for a completed project by submitting the incentive claim prior to the expiration date listed on the Reservation Notice.


Completed: The solar energy or energy storage system is considered completed when it is completely installed, the building permit is satisfied, the system is capable of operating in the way it was designed and in the amounts for which it was designed, and the incentive has been paid. The system must be interconnected and producing energy before an incentive payment may be issued.

The incentive claim is submitted online through NV Energy’s application portal, similar to submitting the original application.

If an Incentive Claim Package is incomplete and suspended, the Applicant has 60 days to make corrections. If the correction is not received within 30 days, NV Energy will send a final notice indicating that the Applicant has 30 days to correct or their application will be canceled. In the case that an incentive application is canceled the system may still be connected but the reserved incentive funds and the application fee is forfeited.

The incentive claim must include the following:

Documents Required	Solar PV and/or Energy Storage Incentive Application	Solar PV only	Energy Storage only
Signed Interconnection Agreement	✓	✓	
Signed Incentive Claim Form	✓	✓	✓
A copy of the satisfied building permit	✓	✓	✓
Equipment and Labor Invoice	✓		✓
Photos (PDF) of Installed System	✓		✓



Signed Incentive Claim Form: If an Applicant changes a system size, then the Incentive Claim Form must list the new size and the new size will supersede the size listed on the installation contract.

Satisfied Building Permit: Must come from the local jurisdiction indicating the date of satisfactory final solar system inspection. (In the case of jurisdictions that do not have a building official, verification by a Nevada licensed professional engineer is required attesting to compliance with all applicable state, county, and federal codes and ordinances.)

Equipment Costs: Applicants indicate the completed system's Equipment Cost in the online application portal. Equipment costs include the materials that are necessary for the proper function of an ESD or Solar PV system. These costs do not include labor.

Installed System Costs: Applicants indicate the completed system cost in the online application portal. System cost includes the cost of the tangible materials and labor for the installed system. The cost of the local building authority permitting must also be listed. Other costs, including other equipment, and design and engineering may be listed as balance of cost of system. These costs are applicable only to Solar PV and/or Commercial Energy Storage Incentives.

Cost of Tangible Materials and Labor: The reasonable cost of materials and labor for permitting, panels, battery, inverters, the balance of system components and any other costs that are directly related to and required for the operation of a solar energy or energy storage system. The term does not include such costs for improvements to a building or site which are not necessary to accommodate a solar energy or energy storage system. Such improvements include but are not limited to carports or shade structures, fencing, roof coverings, parking lot surfaces, lighting and components for battery back-up systems.

INSPECTIONS

Solar PV

Program Post Inspection

The Program Post Inspection may be conducted for any project. The program post inspection verifies the information contained in the Incentive Claim Form, including:

- Installation location and siting
- Installed Solar PV equipment
- Installed Energy Storage equipment (if installed with Solar PV system)

Net Metering Interconnection Safety Verification

The Interconnection Safety Verification is an inspection to confirm the system's compliance with net metering standards and is performed by the NV Energy Meter Operations department.

If the system passes the safety verification, the net meter and generation meter are installed and the system may be operated.

If the system does not satisfy the requirements of either the program post inspection or net metering interconnection safety verification, NV Energy will contact the Installer and/or Host Customer to inform them of the issue. Re-inspection may be necessary after corrections are made.

NOTE: Systems may not be energized prior to successful final net metering verification by NV Energy. The customer will not receive kWh credit for energy put back into the grid until the NV Energy net meter is set.

All projects must comply with applicable NV Energy construction standards which can be found at www.nvenergy.com.


The use of a battery backup system on a grid connected system requires advance review and approval by NV Energy to ensure safe interconnection and that all energy produced by the system is recorded on the generation meter.

Modifications to customer-owned electrical service equipment may compromise the original equipment listing. All modifications shall be approved in writing by the authority having jurisdiction, the manufacturer, or a nationally recognized testing laboratory.

Systems larger than 25 kW

- The Installer must upload to the online application portal a one-line metering diagram of the proposed installation prior to construction.
- The customer is responsible for the cost of any upgrades required to make the renewable energy system compatible with the NV Energy distribution system. System upgrades must be completed in accordance with NV Energy procedures and standards.

All Generating Facility Interconnections are subject to the provisions outlined in Rule 15: Nevada Power



Company provisions can be found at:

https://www.nvenergy.com/company/rates/snv/rules/images/Rule_15_South.pdf

Sierra Pacific Power Company provisions can be found at:

https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/about-nvenergy/rates-regulatory/electric-rules-north/Rule_15_Electric_North.pdf

Energy Storage

Program Post Inspection

The Program Post Inspection may be conducted for any project. The program post inspection verifies the information contained in the incentive claim, including:

- Installed energy storage equipment
- Installation location and siting

Interconnection Safety Verification

The Interconnection Safety Verification is an inspection to confirm the system's compliance with NV Energy standards and is performed by the NV Energy Meter Operations department.

If the system passes the safety verification, the appropriate meters are installed and the system may be operated.

If the system does not satisfy the requirements of either the program post inspection or interconnection safety verification, NV Energy will contact the Installer and/or Host Customer to inform them of the issue. Re-inspection may be necessary after corrections are made.

NOTE: Systems may not be energized prior to successful final verification by NV Energy. The customer will not receive kWh credit for energy put back into the grid until the NV Energy meter(s) is set.

All projects must comply with applicable NV Energy construction standards which can be found at www.nvenergy.com.

The use of a battery backup system on a grid connected system requires advance review and approval by NV Energy in order to ensure safe interconnection and that all energy produced by the system is recorded on the generation meter.

Modifications to customer-owned electrical service equipment may compromise the original equipment listing. All modifications shall be approved in writing by the authority having jurisdiction, the manufacturer, or a nationally recognized testing laboratory.



PAYMENTS

Incentive payments are processed only after satisfaction of required inspections and the installation of the appropriate meters. Completed systems must be producing and/or storing energy before incentive payments may be issued.

Payments are issued to the Payee as indicated on the Incentive Claim Form. Payees must provide NV Energy with a W-9 Form in the same name as the payee on the Application. NV Energy will issue an Internal Revenue Service 1099-MISC to all Payees at the end of each year in which incentives are paid. To protect Payee privacy, W-9 forms are not submitted in the NV Energy application portal but are submitted directly to NV Energy. Incentive payments are not made until the W-9 is provided.

EPBB (Solar) and Energy Storage Payments

Payments for Applicants who fall under the EPBB incentive will be given a one-time incentive payment. A one-time payment will also be administered for both Commercial and Residential Energy Storage projects. Lastly, customers who are applying for an integrated Solar and Energy Storage project and have a Solar System that falls under an EPBB incentive will be given a one-time payment that will include the sum of solar and energy storage incentives.

PBI Payments

Solar Only

PBI payments apply only to solar PV systems and are made once a quarter in January, April, July and October. Payments commence the first payment period after the first read of the generation meter and continue quarterly for 60 months of measured system production from the date of the Meter Set. PV Systems must be larger than 25 kW to qualify.

Solar PV + Energy storage

For Applicants who are coupling a solar PV system that is larger than 25 kW with an ESD will be paid in the same manner as PBI payments for solar PV only Applicants but will also receive an additional one-time payment for their energy storage system. This type of payment **will not** be applicable to DC coupled systems as these systems would require the energy storage device and solar system to share the same meter.

Payment Delivery Options

Payments are issued as a bank check mailed to the Payee. PBI project Payees may elect to be paid through an electronic transfer by requesting an Electronic Payment form from renewablegenerations@nvenergy.com. Electronic Payment requests require authentication and are recommended only for Payees expecting to receive multiple incentive payments, as the first payment after an Electronic Payment request may still be issued as a bank check.



PRODUCTION VARIATIONS

Variations in the production of completed systems, as determined by the readings of the generation meter, may indicate that the actual capacity of the completed system differs from the capacity indicated in the original application. NV Energy may conduct inspections or reviews of completed and operating systems at any time to determine the reason for the production variation.

Low Production: This review may help the system owner identify installation issues.

High Production: If NV Energy determines that additional generation has been added to the original installation, PBI payments may be suspended until the system is verified in its original capacity.



CANCELLATION, WITHDRAWAL, AND FORFEITURE

An application that has not yet been approved and issued a Reservation Notice may be cancelled by written or verbal request from the Applicant, Installer, System Owner or Host Customer.

An application that has been issued a Reservation Notice may be withdrawn from the program by written request directly from the Host Customer to NV Energy. A Withdrawal Form is also available in the online application portal.

An application is forfeited if the complete Incentive Claim Form is not submitted by the expiration date listed on the Reservation Notice.

Reserved incentive funds for withdrawn and forfeited applications are returned to the program and these applications are no longer eligible for payment. Host Customers may reapply to the program, but subsequent applications are subject to the program rules in place at the time of the new application.

If a Host Customer applies for and receives an incentive reservation for an installation location but fails to complete the system on three occasions, the Host Customer may not submit a Solar Incentive program application for that location. The previous statement applies to solar PV Applicants only.



FOR MORE INFORMATION

Solar Incentives and Energy Storage Incentives programs:

Website: <https://www.nvenergy.com/cleanenergy.html>
Email: cleanenergy@NVEnergy.com
Toll-Free: 866-786-3823

Net Metering:

Website: NVEnergy.com/NetMetering
Email: NetMetering@NVEnergy.com