

# Home ENERGY EFFICIENCY GUIDE



# FOREWORD

Did you know that Southern Nevada anticipates 10 times as many days of 115 temperatures by the end of the century? <sup>1</sup> As our desert climate becomes hotter and dryer, it is important to prepare and empower residents to address the climate's impact on their own lives. One opportunity is through home energy efficiency, the reduction of energy used to power your home. With the median home age being 20–30 years, energy efficiency becomes an effective way to lower energy usage and energy bills.

Whether you are a renter or a homeowner, this guide is designed to provide practical, zero or low-cost, and easy-to-implement energy efficiency tips and tricks specifically

designed for the unique needs of our community. By incorporating the practices in the guide, you will be able to extend the life of your appliances and use less energy—saving you money.

Finally, we include information about resources and assistance programs for programs such as home energy audits, appliance replacement programs, and other services.

On behalf of All-In Clark County, it is our pleasure to present to you this guide and accompanying resources. We are committed to supporting our community as we address the local impacts of climate change.

Best,  
All-In Clark County  
[Allin@clarkcountynv.gov](mailto:Allin@clarkcountynv.gov)



<sup>1</sup> Geospatial Innovation Facility, University of California, Berkeley (2021)







# What is All-In Clark County?

**All-In Clark County** is a bold, solution-based plan for a sustainable future. Clark County is committed to reducing our region's contribution to climate change and prepare for its impacts. Actions that reduce regional Greenhouse Gas Emissions (GHGs) reflect this commitment and can lead to improved outcomes for residents such as improved air quality through the reduction of pollution.

In October 2019, the **Clark County Commission signed onto the County Climate Coalition**, affirming the County's commitment to the United Nations Paris Climate Agreement to **address the local impacts of climate change**.
















## How to use this guide?

- Each chapter of this book provides energy savings tips for different aspects of your home (for example, air conditioning systems and laundry)
- QR codes link to videos and other resources that demonstrate how to enact the energy savings tips.
- Relevant Incentives and Resources are provided with QR Codes linking to the websites.



- A final chapter provides information on replacing energy using appliances in your home

# Chapter 1: Heating Ventilation and Air-conditioning Cooling (HVAC)

APPLIANCE	HOW-TO	STRATEGY	FREQUENCY
<b>AIR CONDITIONING UNIT</b> 		Ensure Proper Airflow around Outdoor AC Unit <i>(for example tree trimming)</i>	Every 6 months
		Schedule a summer tune-up	Every 2-3 Years
<b>AIR FILTER</b> 		Replace Air Filters <i>(consult air filter packaging)</i>	Every 30-90 days
<b>CEILING FAN</b> 		Ensure Counterclockwise Spin in Summer; Clockwise Spin in Winter	Recurring
<b>THERMOSTAT</b> 		Obtain a Programmable Thermostat	N/A
<b>WINDOWS</b> 		Check for window drafts	Quarterly

## Energy Savings AT-A-GLANCE

- Programmable smart thermostats save approximately 10% in heating and cooling costs over non-programmable thermostats.
- Every opportunity to support proper AC function makes your AC unit work less hard—saving you energy and extending the life of the AC Unit.





### **NV ENERGY SMART THERMOSTAT PROGRAM**

NV Energy customers are eligible to receive a free smart thermostat (with participation in FlexResponse events)



### **NV ENERGY FREE HOME ASSESSMENT**

NV Energy customers are eligible for a free PowerShift In-home Energy Assessment that provides personalized energy-saving tips and ways to make your home more efficient and save money.



### **NV ENERGY AIR CONDITIONING TUNE UP INCENTIVE**

Provides NV Energy customers an incentive to offset the cost of an air conditioning unit tune up.



### **NV ENERGY QUALIFIED APPLIANCE REPLACEMENT PROGRAM**

NV Energy customers who own or rent their home and meet income eligibility requirements can receive free replacements for select appliances manufactured in or before 2013



### **NEVADA CLEAN ENERGY FUND RE-UP PROGRAM**

Provides financing for energy efficiency audits, upgrades, and projects



### **NEVADA CLEAN FUND ENERGY AUDIT INCENTIVE**

Provides loans for home energy efficiency audits. Loans are forgiven upon purchase or financing of an eligible Home Upgrade included in the Energy Audit report within six (6) months



### **HELP OF SOUTHERN NEVADA WEATHERIZATION**

Assists low-income household by providing home energy assessments and installation of energy efficiency measures



### **USDA SINGLE FAMILY HOUSING REPAIR LOANS AND GRANTS**

Provides loans to very-low-income homeowners to repair, improve or modernize their homes or grants to elderly very-low-income homeowners to remove health and safety hazards



### **DEPARTMENT OF HEALTH AND HUMAN SERVICES LOW INCOME HOME ENERGY ASSISTANCE PROGRAM**

Provides a supplement to assist qualifying low-income Nevadans with the cost of home energy



## Chapter 2: Kitchen

APPLIANCE	HOW-TO	STRATEGY	FREQUENCY
<b>DISHWASHER</b> 		Clean Dishwasher Filter	Bi-weekly
		Clean Spray Arms	Bi-weekly
	N/A	Run Dishwasher When Completely Full	N/A
		Run Cycle with Cup of White Vinegar	Bi-monthly
<b>FREEZER</b>		Clean Freezer Door Seals	Every 6 Months
<b>REFRIGERATOR</b> 		Clean Condenser Coils	Every 6 Months
		Clean Refrigerator Door Seals	Every 6 Months
		Set Refrigerator Temperature between 35 and 38 degrees	N/A
<b>STOVE</b> 		Clean Grates	After Each Use
		Run Oven Clean Cycle	Every 3 Months
		Clean Stove Hood and Filter	Monthly



## *Energy Savings* AT-A-GLANCE

- Proper Dishwasher maintenance can reduce energy use by 10–20%.
- Setting proper refrigerator and freezer set points can save 25% on energy usage.
- Consider an electric stove when buying or replacing a gas stove. In addition to transferring less heat into your home, electric stoves lead to improved indoor air quality<sup>1</sup>.



### **NV ENERGY QUALIFIED APPLIANCE REPLACEMENT PROGRAM**

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### **SNWA INDOOR WATER CONSERVATION TIPS**

A website with tips and tricks to saving water at home



### **SNWA INDOOR WATER AUDIT AND RETROFIT KIT REQUEST FORM**

Residential customers of Southern Nevada Water Authority member agencies are eligible to receive an indoor water audit and retrofit kit. Free classes are also available



### **USDA SINGLE FAMILY HOUSING REPAIR LOANS AND GRANTS**

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<sup>1</sup> <https://www.energystar.gov/products/ask-the-experts/5-reasons-switch-gas-energy-star-certified-electric-cooking>



## Chapter 3: Laundry

APPLIANCE	HOW-TO	STRATEGY	FREQUENCY
<b>DRYER</b>  	N/A	Dry clothes when machine is full	N/A
		Remove Lint from Lint Draw	After Each Use
		Inspect hoses for blockages/lint	Every 6 months
		Clean Lint Trap and Lint Draw	Every 6 months
<b>WASHER</b>  		Use Cold Water (check clothing care labels)	Recurring
		Clean Detergent Door	Quarterly
	N/A	Wash clothes when machine is full	N/A



## *Energy Savings* AT-A-GLANCE

- Using Cold Water for Laundry saves an average of \$20 annually and can help reduce color fading and shrinking.
- Washers and Dryers use similar amounts of energy regardless of load size—larger loads save energy.
- Dirty lint drawers can cause it to take 50% longer to dry clothes.



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# Chapter 4: Hot Water Heater and Bathroom

APPLIANCE	HOW-TO	STRATEGY	FREQUENCY
<div><p>HOT WATER HEATER</p></div>		Set hot water temperature to 120 degrees Fahrenheit	Once
<div><p>SHOWER/BATH</p></div>	N/A	Take Baths instead of showers	N/A
	N/A	Limit Showers to 5 minutes or less	N/A
<div><p>TOILET</p></div>	N/A	Do not throw anything away in the toilet	N/A
		Check for Leaks and repair (for example, replace flapper)	Every 3 months



## *Energy Savings* AT-A-GLANCE

- A household saves on average 3–5% on total water heating costs by lowering water temperature by 10 degrees.
- A family of Four taking daily 5-minute showers with a high efficiency showerhead can save up 20,000 gallons annually.
- Tankless water heaters heat water only when needed, eliminating energy lost during standby operation. This results in water heating savings of 8%–34% water.
- Using less water in the home reduces the amount of wastewater to be treated, reducing the energy needed to treat wastewater in the region.



### **SNWA INDOOR WATER CONSERVATION TIPS**

A website with tips and tricks to saving water at home



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### **NEVADA WHOLE HOME TANKLESS NATURAL GAS WATER HEATER**

Nevada Customers of SW Gas are eligible for a rebate of \$225 dollars when purchasing a Tankless Natural Gas Water Heater



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# Chapter 5: Appliances and Outdoor Water

APPLIANCE	HOW-TO	STRATEGY	FREQUENCY
ELECTRONIC APPLIANCES			
	N/A	Unplug Appliances when not in use or use a Smart Power Strip	N/A
LIGHTBULBS			
	N/A	Switch to LED Bulbs	Once
SPRINKLER AND DRIP IRRIGATION SYSTEMS			
		Turn off clock on rainy days  Adjust systems to watering in early morning or late evening	N/A  According to Southern Nevada Water Authority Guidelines.

## 💡 Energy Savings AT-A-GLANCE 💡

- LED lightbulbs use 75% less energy and last 25 times longer than incandescent light bulbs.
- Watering late at night or early in morning minimizes water loss allowing more water to reach the plant roots and be absorbed by soil.





## **NV ENERGY FREE HOME ASSESSMENT**

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## **SNWA OUTDOOR WATERING TIPS**

Provide seasonal watering schedule and tips and tricks for efficient outdoor watering



## **SNWA SMART IRRIGATION CONTROL REBATE**

Provides 50% off the purchase price of a Smart Irrigation Controller, or up to \$100



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# Chapter 6: Vehicles

APPLIANCE	STRATEGY	HOW-TO
CAR	Avoid Hauling Cargo on Roof	
	Remove Excess Items/Weight from Car	
	Avoid Excessive Idling	
ELECTRIC VEHICLE	Avoid Charging during Peak Demand (3:00 P.M.–9:00 P.M. June–September)	N/A

## *Energy Savings* AT-A-GLANCE

- Observing the speed limit and limiting travel about 50 miles per hour (mph) saves approximately \$0.27–\$0.54/gallon on fuel prices.
- Hauling cargo on the roof of a vehicle lowers fuel economy by 2%–25% depending on travel speed.
- Each 100 pounds of weight in a vehicle decrease fuel economy by approximately 1%.
- Idling (running a car engine without moving) can use a quarter to a half gallon of fuel per hour.
- The demand for electricity in Southern Nevada is greatest between June and September from 3:00 P.M. to 9:00 P.M. Charging electric vehicles outside of these hours helps reduce high energy demand and promotes energy reliability.





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WYNN VALET &  
REGISTRATION  
→  
WYNN VALET &  
REGISTRATION  
WYNN SELF PARK  
ENCORE RESORT ↑



# Appliance Replacement Resources



Dishwasher



Heat Pump Hot  
Water Heater



Refrigerator



Dryer



Hot Water  
Heaters (gas)



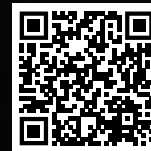
Showerhead



Electric  
Stoves



Lightbulbs



Toilet



Faucet



NV Energy  
Smart Shop



Thermostat



Washer







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# Conclusion

This guide and accompanying refrigerator laminate reflect All-In Clark County's commitments to serving the community and addressing the regional impacts of climate change. By providing no- and low-cost energy efficiency guidance for homes, we hope to empower residents to save money, extend the life of their appliances, and improve the comfort of their homes.

On behalf of All-In Clark County, it is our pleasure to support our community as we address the local impacts of climate change.

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