

INCREASE CASH FLOW WITH INVESTMENTS IN CLEAN TECH AND SUSTAINABLE UPGRADES

WHAT ARE CLEAN AND SUSTAINABLE UPGRADES?

Think Green

Technologies for Increasing Cash Flow and Building Value



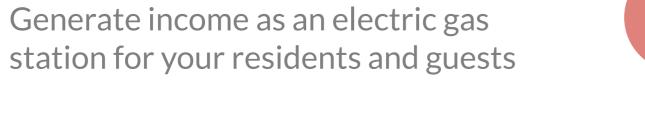
ROOFTOP SOLAR GENERATION

Sell electricity back to the grid. Payback in 5 to 10 years depending on location



CAR CHARGING

station for your residents and guests





AIR BARRIER TECHNOLOGY

Save Energy by Impeding air flow to reduce heat loss and minimize mold



EFFICIENT AND QUIET WINDOWS

Save energy by Impeding air flow and reducing noise intrusion



LED AND LIGHTING UPGRADES

Save Energy with efficient lighting technology



LOW FLOW FIXTURES AND AERATORS

Reduce water, sewer and electric costs by reducing flow



LOW VOC FINISHES

Reduce turnover costs and create a healthy Living environment



AIR VENTILATION & HEAT RECAPTURE

Reduce turnover costs and let customers breathe easy



MINIMIZE SOUND TRANSFER

Reduce turnover costs and let customers sleep well

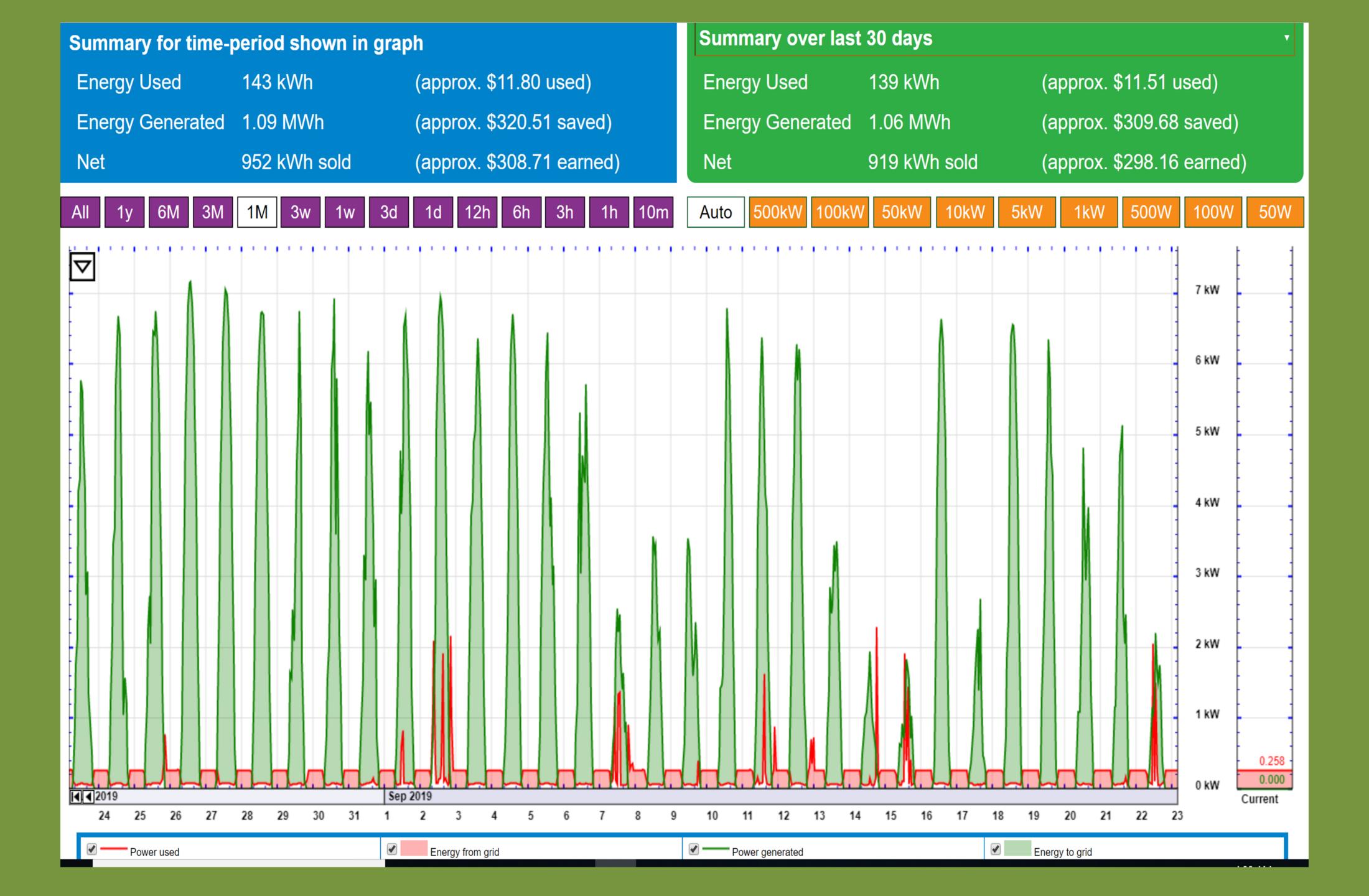






GENERATING POWER THROUGH SOLAR

Watch the meter turn backwards as solar power flows back into the grid





The payback for solar panel varies from state to state. For Washington state the payback is about seven years. See the calculation for a 33 panel installation in Seattle.

Purchase Price

\$38,500

Tax Credit of 30%	\$11,730
Production Incentive	\$17,270
Total Credits and Incentives	\$29,000
Electric Savings over 7 Years	\$ 9,500
	4 -

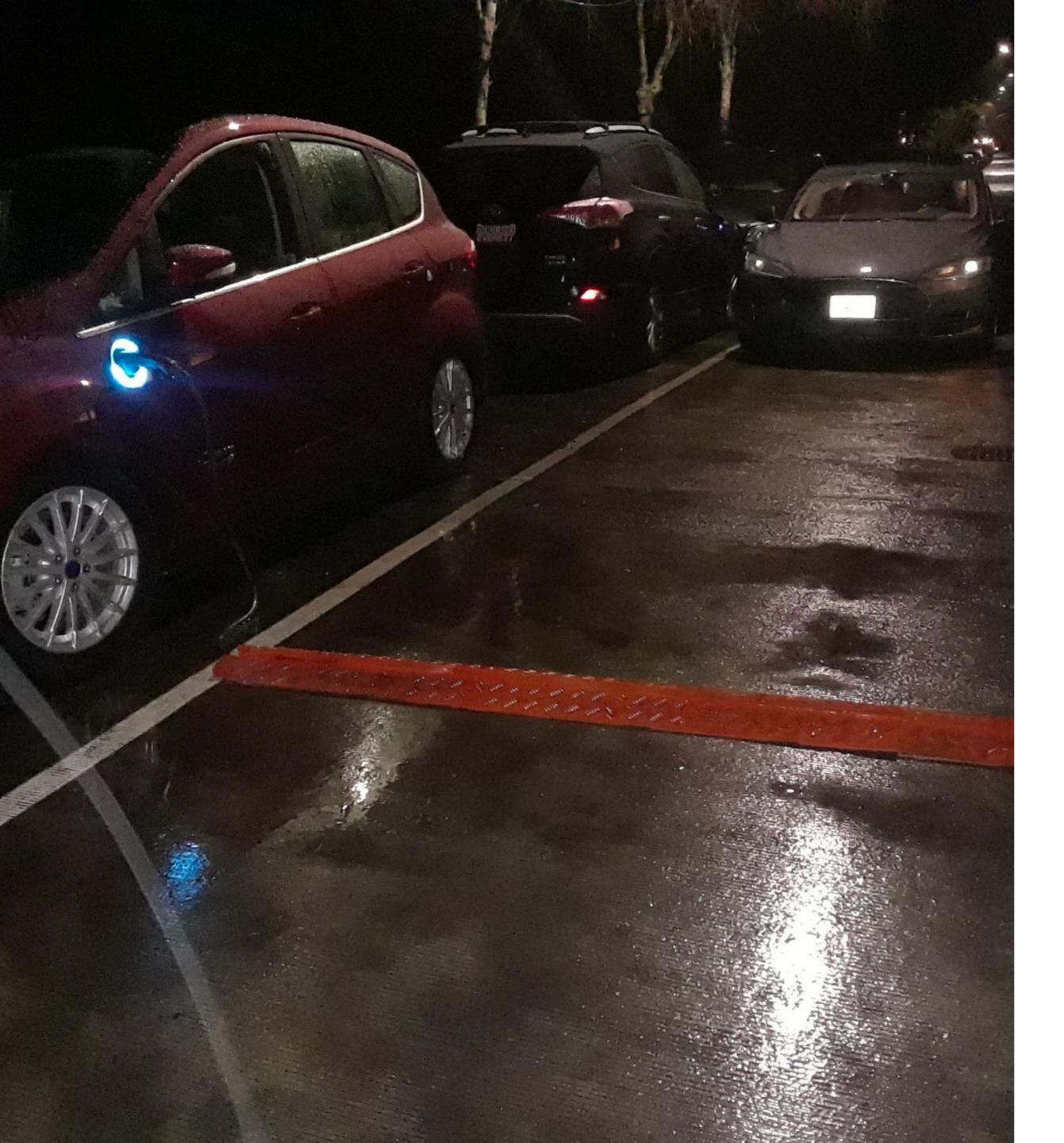
Total Cash Outlay after incentives, Credits &

Annual Energy

Savings after 7 Years

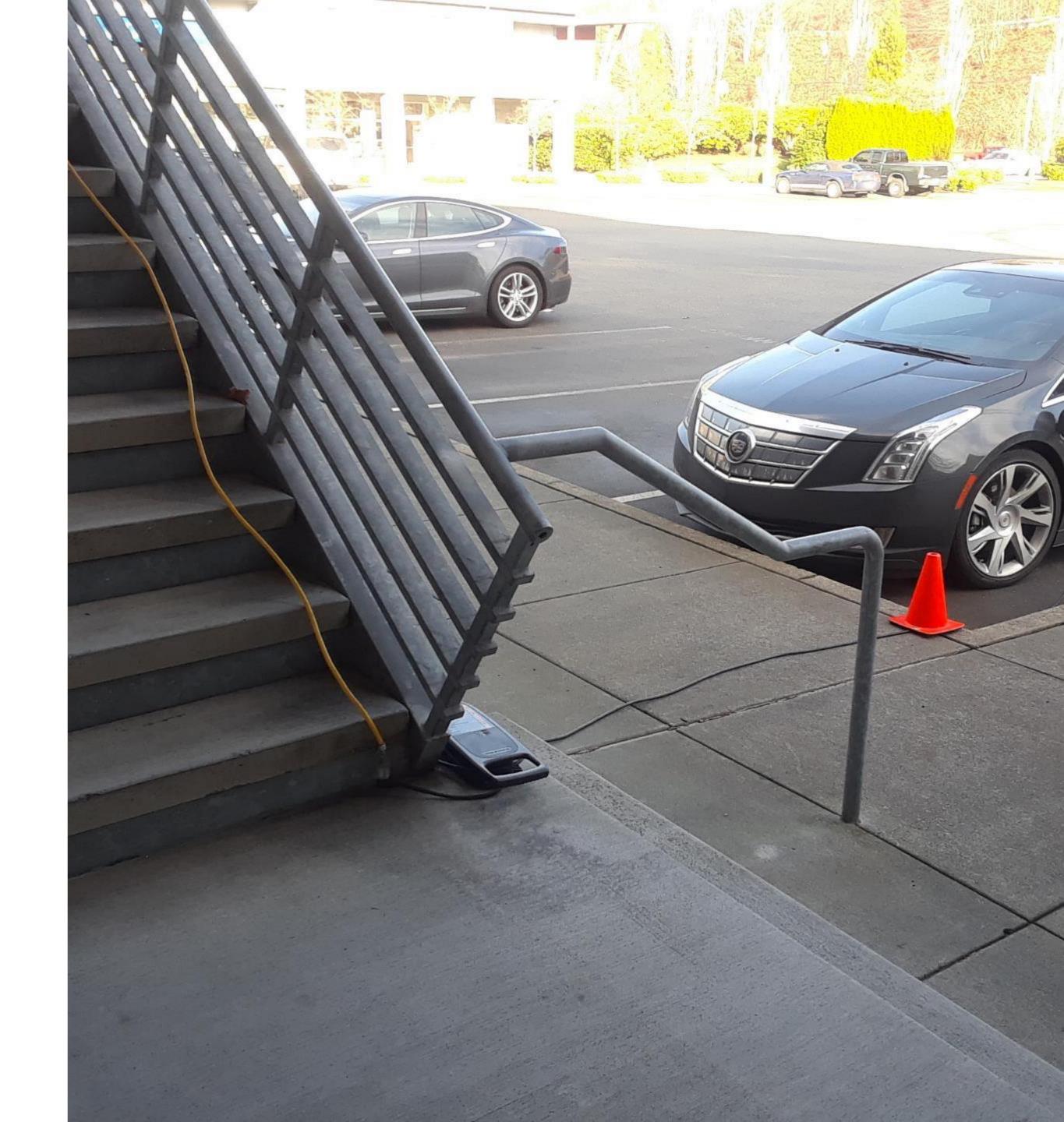
Savings

\$1800



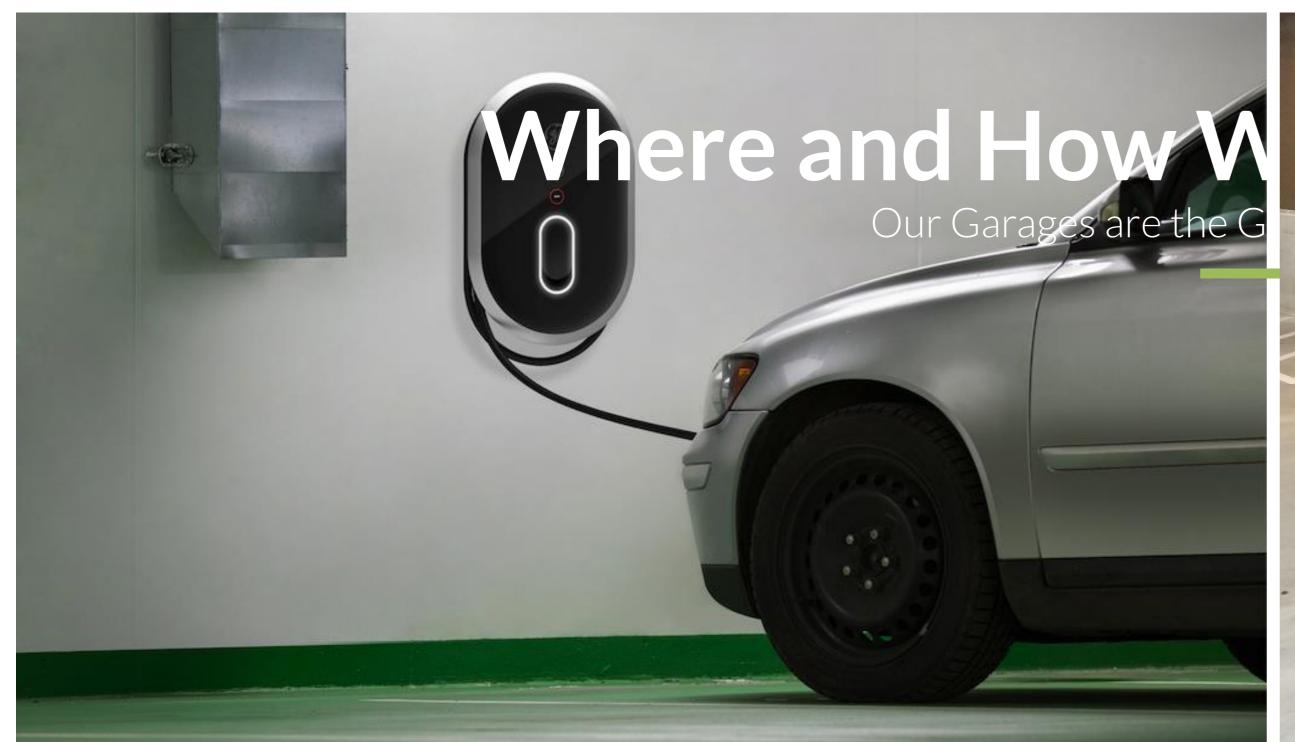
It's not **TOO** much of a trip hazard....

....Right?



Electric Car Charging With Power Allocation









CHARGE TIME

Many drivers depend on leaving their cars **overnight** for their next day commute



LOCATION

Drivers want to charge at **home**

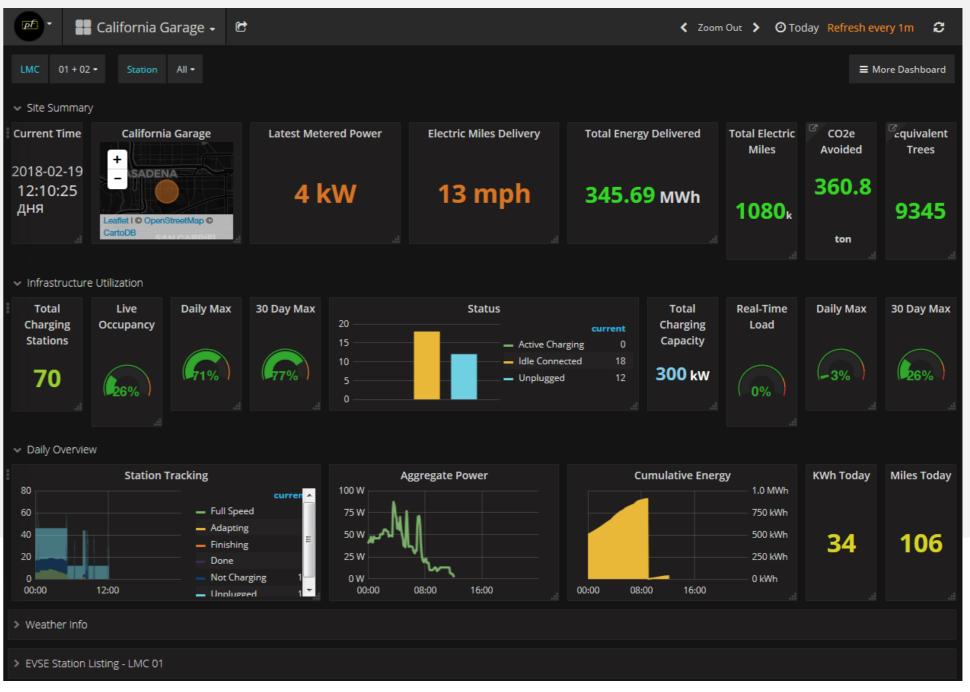


ON THE GO

EV owners want to be able to charge in convenient locations on extended trips

OUR GARAGES are the Gas Stations of the FUTURE







Charge up to 100 vehicles per load management controller with no electric service upgrade. The more energy efficient the units the more available for car charging.

Cost of 20 Chargers with Installation \$75,000

Annual Additional Rent for Charging Stalls
Annual Cost of Monitoring Chargers

Annual Net Income from Charging Stalls \$ 9,600

\$14,400

\$ 4,800

Annual

Return on Investment 12.8%



UPGRADINGTO

LEDs

Reduce Costs

Your residents and common area electrical costs will be reduced by installing LED lighting



REDUCE LIGHTING COSTS

New technology in lighting can reduce lighting costs by up to 90% versus incandescent.



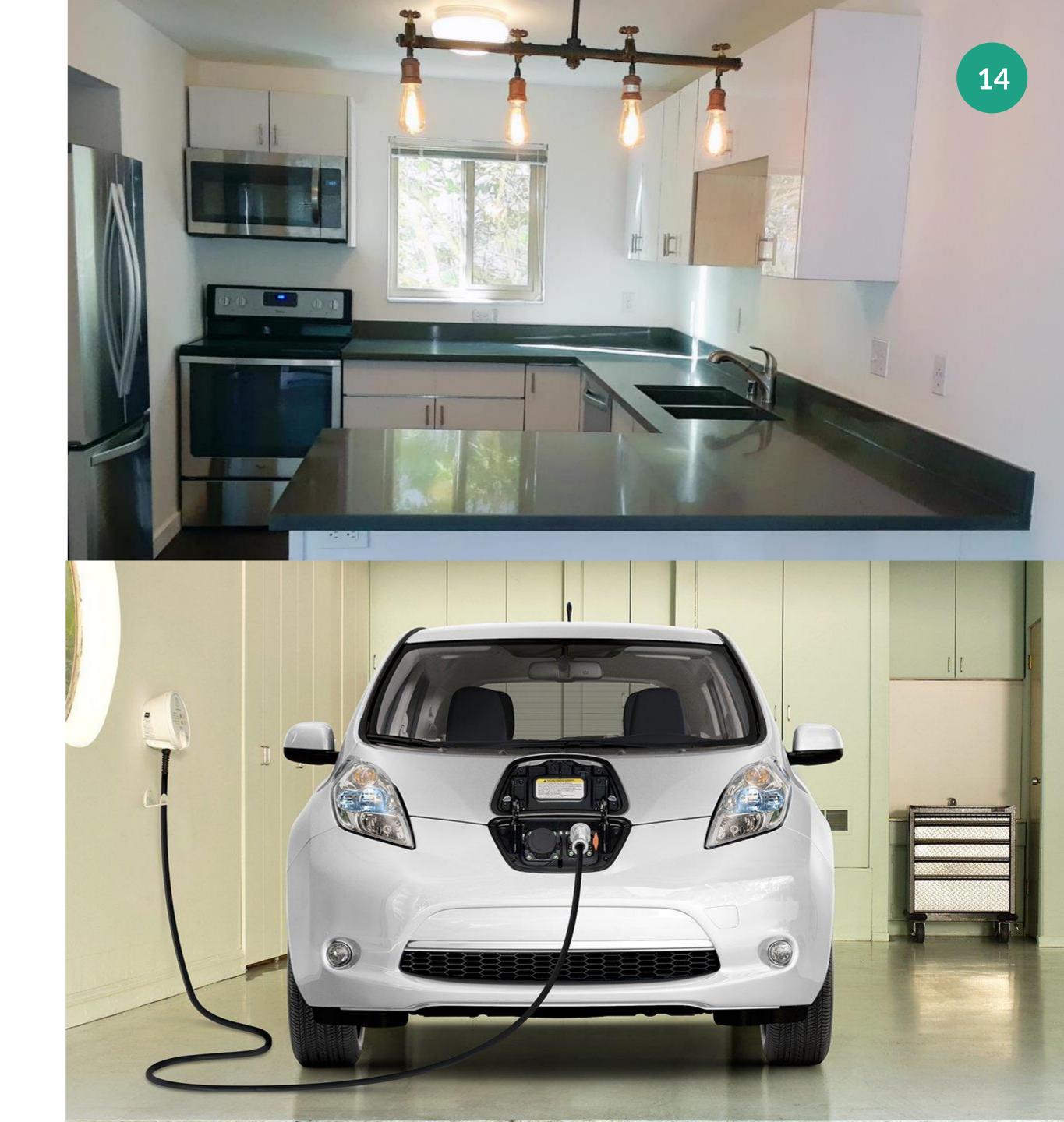
INCREASE CAR CHARGING CAPACITY

All electrical usage reduction in units and common areas translates directly into more capacity for car charging.



REDUCED MAINTENANCE COSTS

LEDs long lifetime reduces the amount of maintenance required to switch old bulbs.



Generating Savings

Switching from Interior Incandescent to LED Lighting for 15 Bulbs per Avg. Unit per Year



LED Light Bulbs Total Energy Cost	\$246
Total Cost	\$306



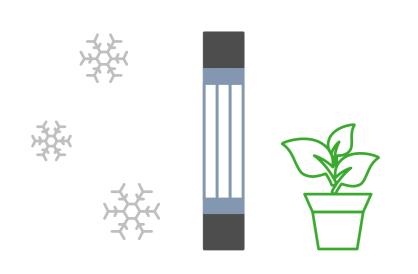
Per Unit Costs Incandescent Light Bulbs	\$60
Total Energy Cost	\$2169
Total Cost	\$2229

Total Annual Energy Cost Savings	\$1923
Total Annual Energy Savings	19,230 KW
Miles Gained for a 50 KW Tesla 3 Electric Vehicle Annually	96,150

Energy Saving
Measures for the
Building Envelope

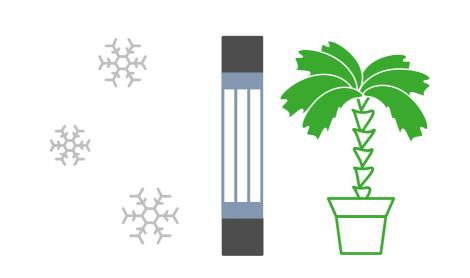


BENEFITS of Energy Efficient Windows



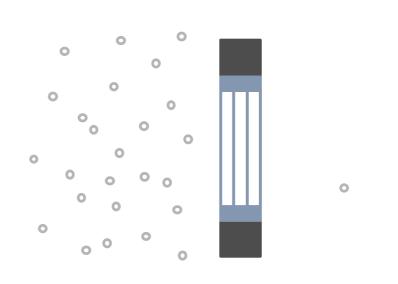
Reduced Energy Cost

Reduced energy costs allow for less resources to be used for heating and cooling.



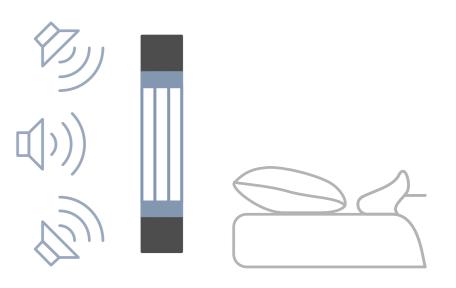
Better for the Environment

With reduced heat transfer, less heating and cooling is needed to keep interiors of buildings habitable



Reduced Maintenance & Health Risks

Lower risk of mold and/or repairs



Silencing Noise

With highly insulated windows, noise pollution is dramatically reduced.

Reduce Water Usage By Restricting the Flow

Replace aerators
Replace washers
Replace toilets



Reduce Expenses

Decrease the usage of water and sewer

Cost Savings for Implementing Low flow Faucet Aerators-50 Unit Building

100 Bathroom Faucet Aerators	\$500
50 Kitchen Faucet Aerators	\$250
75 Low Flow Showerheads	\$750
Installation Cost	\$750

Total One Time Cost	\$2250
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Water Savings 967,250 Gallons \$14,400
Energy Savings 6,875 KWh \$4,015
Total Water and Energy Savings \$18,415

Annual Return on Investment 818%







Low flow Toilets

Cost Savings for Implementing

Reflects changing out 3.5 gallon toilets to 1.28 gallon toilets. Savings can be even more if you have legacy 5 or 7 gallon toilets

Replace 50 Toilets	\$7,500
	4

Installation Cost \$7,500

Total One Time Cost \$15,000

Water Savings 657,000 Gallons \$9,855

Annual Return on Investment 66%

HIGH-EFFICIENCY TOILET TODAY







Washing Machines

Reduce Expenses by installing Water Saving Laundry Machines

Replace 50 Washing Machines

\$30,000

Total One Time Cost

\$30,000

Water Savings 350,000 Gallons \$5,250
Energy Savings 12,500 KWh \$1,500
Total Water and Energy Savings \$6,750

Annual Return on Investment

20%





Cost Savings for Implementing Clean Tech Solutions- 50 Unit Building

Low Flow Toilets \$15,000

Faucet Aerators & Low Flow Showerheads \$2,250

Washing Machines \$34,000

Total

One Time Cost

\$51,250

Water Savings
Energy Savings

1,974,250 Gallons 19,375 KWh

\$29,505 \$5,515

Total

Water and Energy Savings

\$35,020

Annual

Return on Investment

68%

Miles gained for a 50 KWh Tesla 3 electric vehicle annually 85,250 miles



Replace windows for added insulation value and reduced noise

Annual Resident **Savings** 120,000 KWh

\$12,000

Miles gained for a 50 KWh Tesla 3 electric vehicle annually.....

528,000



Re-Siding Technology

- Add air barrier and rain screen technology when residing your building.
- New **vapor permeable** membranes that have replaced building paper limit air movement to **reduce heat loss** and **dry** the building faster.



Add exterior insulation and an air barrier on walls and roofs when residing and reroofing (Material and Installation)

aterial and installation) \$200,00

Total annual heating cost for standard insulation

Total annual heating cost for new insulation system and air barrier

\$200,000

\$24,000

\$6,000

Total

Annual Savings

\$18,000

Annual

Return on Investment

9%

Miles gained for a 50 KWh Tesla 3 electric vehicle annually

660,000 miles

Total annual miles gained for all energy retrofit categories

Lighting 96,150 miles

Water Heating 85,250 miles

Window Retrofit 528,000 miles

Residing with Air Barrier 660,000 miles

Total Miles Gained 1,369,400 miles



Sustainable Options for Maximizing Resident Health and Well Being



Landscaping

Invest in a soothing landscaping for residents to look out at



Residents want a sense of calm when they look out the window.

It should be softened with nature when possible

Incorporating Nature On Your Property

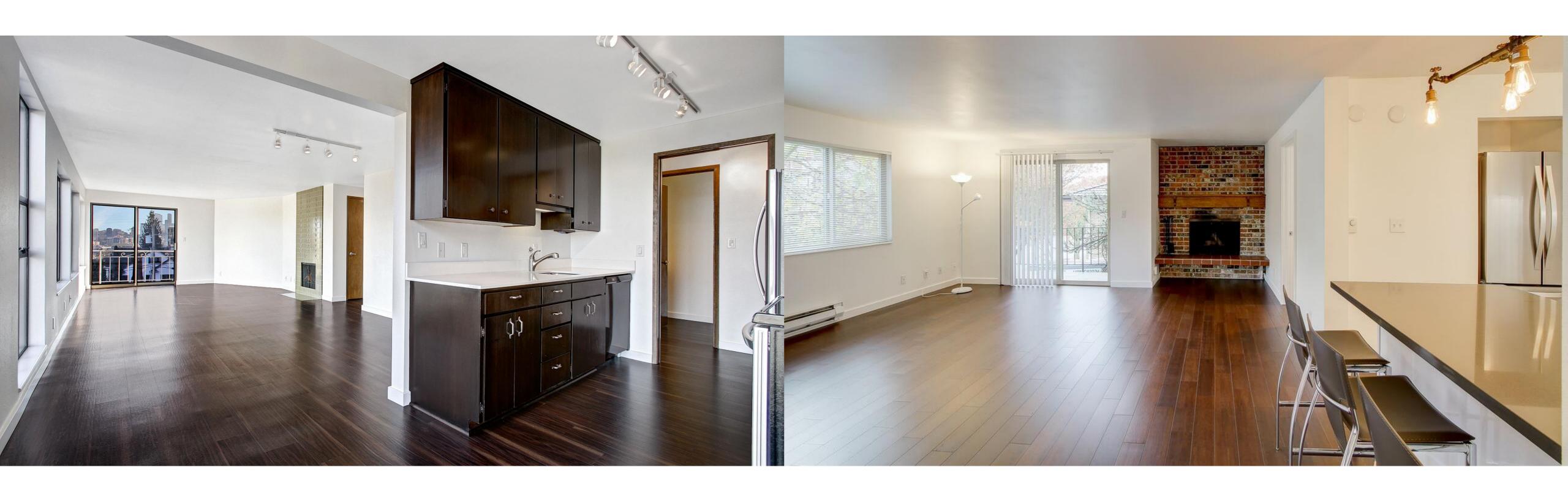
- As technology becomes more prominent in people's lives they still cling to the warmth of the past
- Gemütlich* is difficult and expensive to build into today's new buildings and is a distinct advantage for older buildings

*Gemütlich is the state or feeling of warmth, friendliness,[1] and good cheer as well as coziness, peace of mind, a sense of belonging and well-being



Character

Preserving charm while upgrading for the future



As technology becomes more prominent in peoples lives they also cling to the warmth of the past.

History is difficult and expensive to build into today's new buildings and is a distinct advantage for older buildings

Healthy Materials

Consider your residents health as you would your own.

- Incorporate low chemical materials and finishes when possible for reduced cost and maintenance as well.
- Look for products that are Green Seal certified especially for paints, paint thinners, and adhesives.
 - Cabinets: Cabinets are generally made of plywood, MDF, or particleboard. Opt for low VOC water based stains, finishes, and glues
 - Carpets: Carpet can emit VOCs. Opt for Green Label or Green Label Plus carpets.
 - Flooring: There are several choices in eco-friendly wood floors: FSC certified wood floors, Marmoleum, bamboo, cork, and recycle content tile.



Sound insulation

Minimize sound transfer- STCs for various building materials

Be aware of the STC ratings that may be needed when remodeling walls ceilings and floors and especially when replacing windows. The seal around your window makes a difference too. **Air movement transfers sound!**

Operable STC Rating	Level of Speech Heard
STC-30	Loud speech understood
STC-35	Loud speech heard but not understood
STC-40	Loud speech audible as a murmur
STC-45	Some loud speech barely audible
STC-48	Hearing strained to hear loud speech
STC-50	Loud speech not audible