

Future Green and Smart Home

GroHome System Introduction

GroHome

is a smart home system that integrates solar, energy storage, smart EV charger, water heater, and IoT devices to increase a household's rate of PV self-consumption, also support the prediction of energy generation and consumption based on Big Data and AI technology, allowing you to enjoy the new lifestyle of green, comfort and smart.



GroHome Award

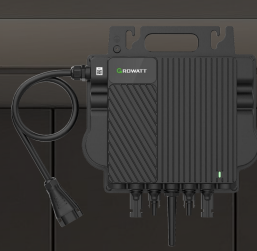
GroHome Ranks The Smarter E Award 2020

EXCLUSIVE INTERVIEW WITH THE SMARTER E AWARD 2020

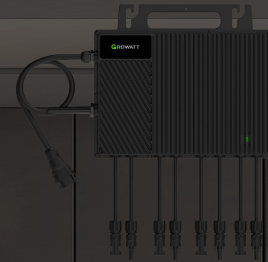
Future innovations will be built upon technologies of IoT, Big data and AI deep learning, which will support the predictions of solar energy generation and consumption, and will enhance smart control functions of the system. That will create an ecosystem of green and smart home and help households gain energy independence.



GroHome Family



NEO 600-1000M-X RF Version



NEO 1600-2500M-X2 RF version



MIN 2500-6000TL-XH/XH2



SPH 4000-10000TL3 BH-UP



MOD 3000-10000TL3-XH(BP)
* with ZBDC firmware



MOD 3-15KTL3-HU



THOR Smart EV Charger
RF version



GroHomeManager-X

Product Overview



GroHomeManager-X



ShineRFsticker-X2

Versatile Communication Options

- Supports RS485, RF, Ethernet, Bluetooth and Wi-Fi communication
- Built-in 3* RS485 ports for enhanced connectivity
- Wireless communication range up to 120 meters

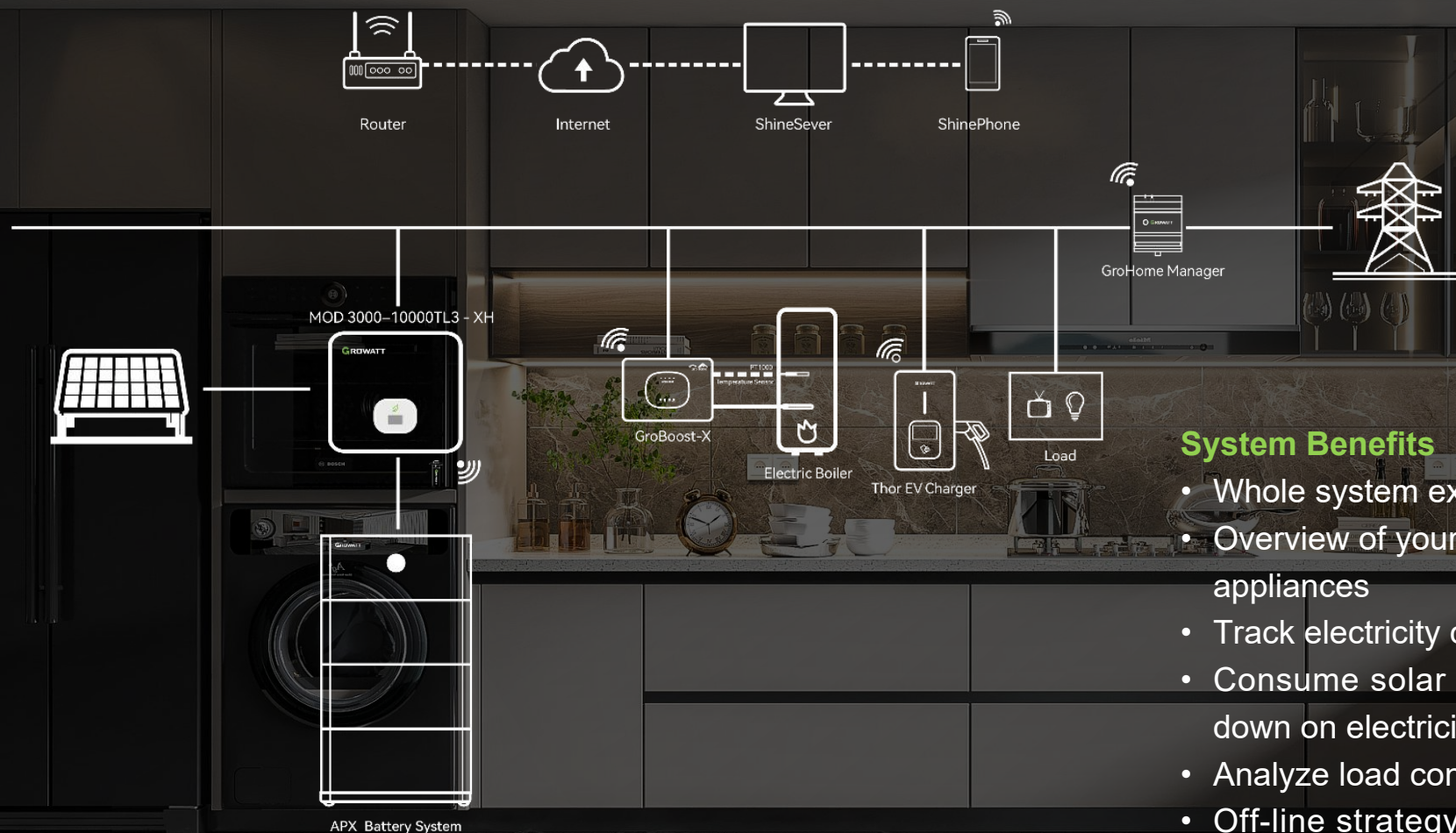
Scalable Device Management

Monitors up to 12 inverters simultaneously

Broad Grid Compatibility

Works seamlessly with single-phase, three-phase, and split-phase grid systems

GroHome Diagram and Benefits



System Benefits

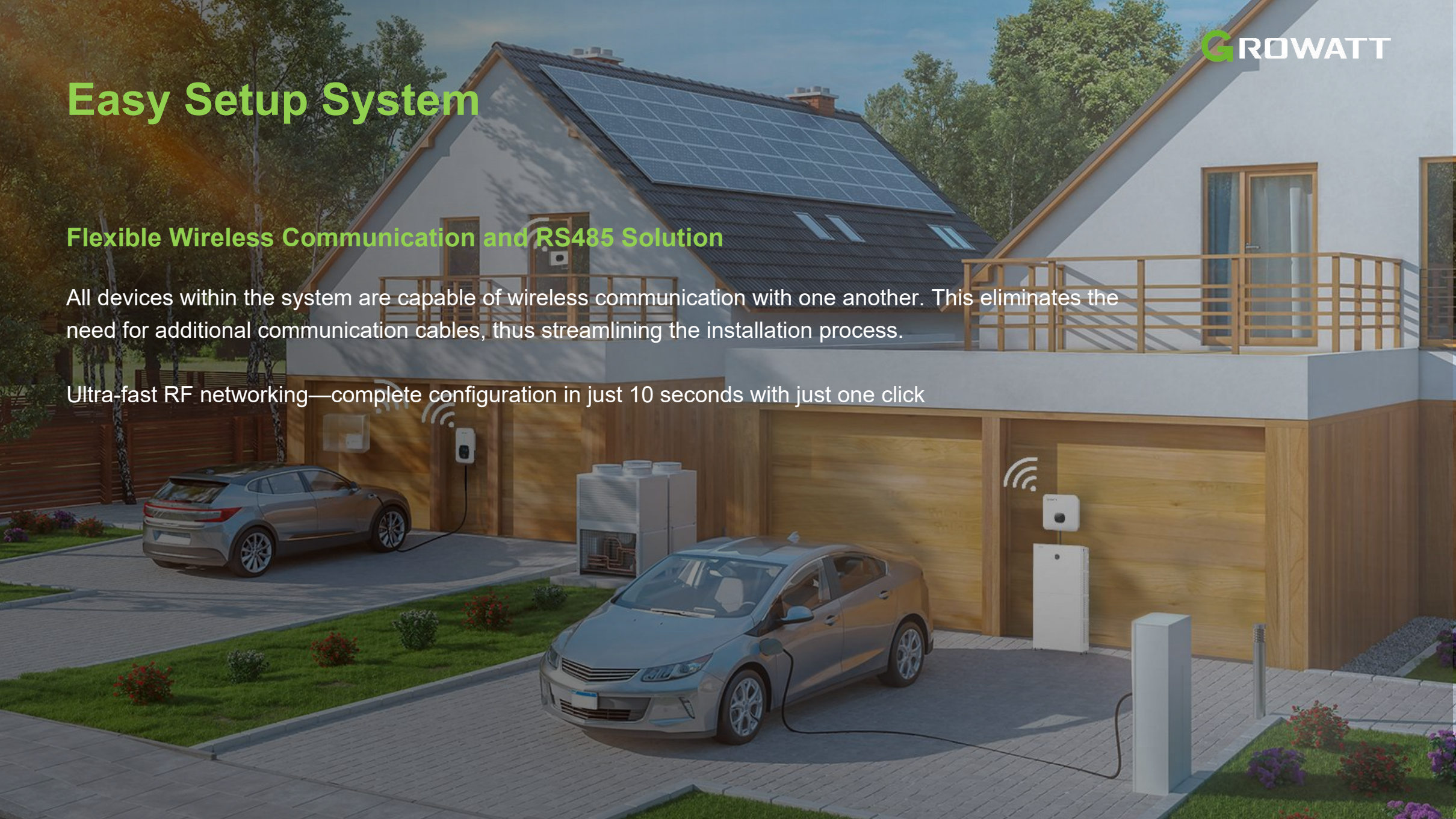
- Whole system export limit control
- Overview of your PV generation, storage systems, and appliances
- Track electricity consumption easily and transparently
- Consume solar energy smartly and efficiently to cut down on electricity costs
- Analyze load consumption and energy balance
- Off-line strategy ensures system performance while losing internet.

Easy Setup System

Flexible Wireless Communication and RS485 Solution

All devices within the system are capable of wireless communication with one another. This eliminates the need for additional communication cables, thus streamlining the installation process.

Ultra-fast RF networking—complete configuration in just 10 seconds with just one click



Enhanced Communication

Enhanced Communication Ability by Lora Technology

Long Distance Communication

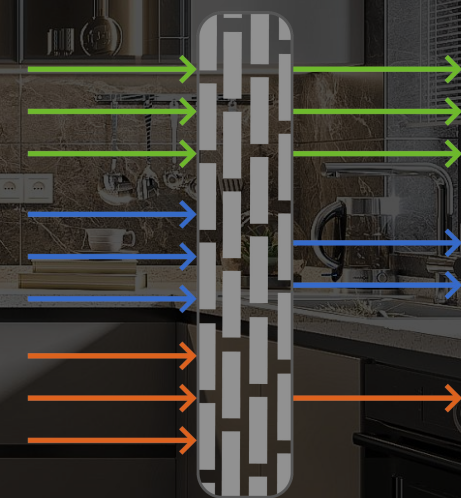


Strong Penetrating Ability

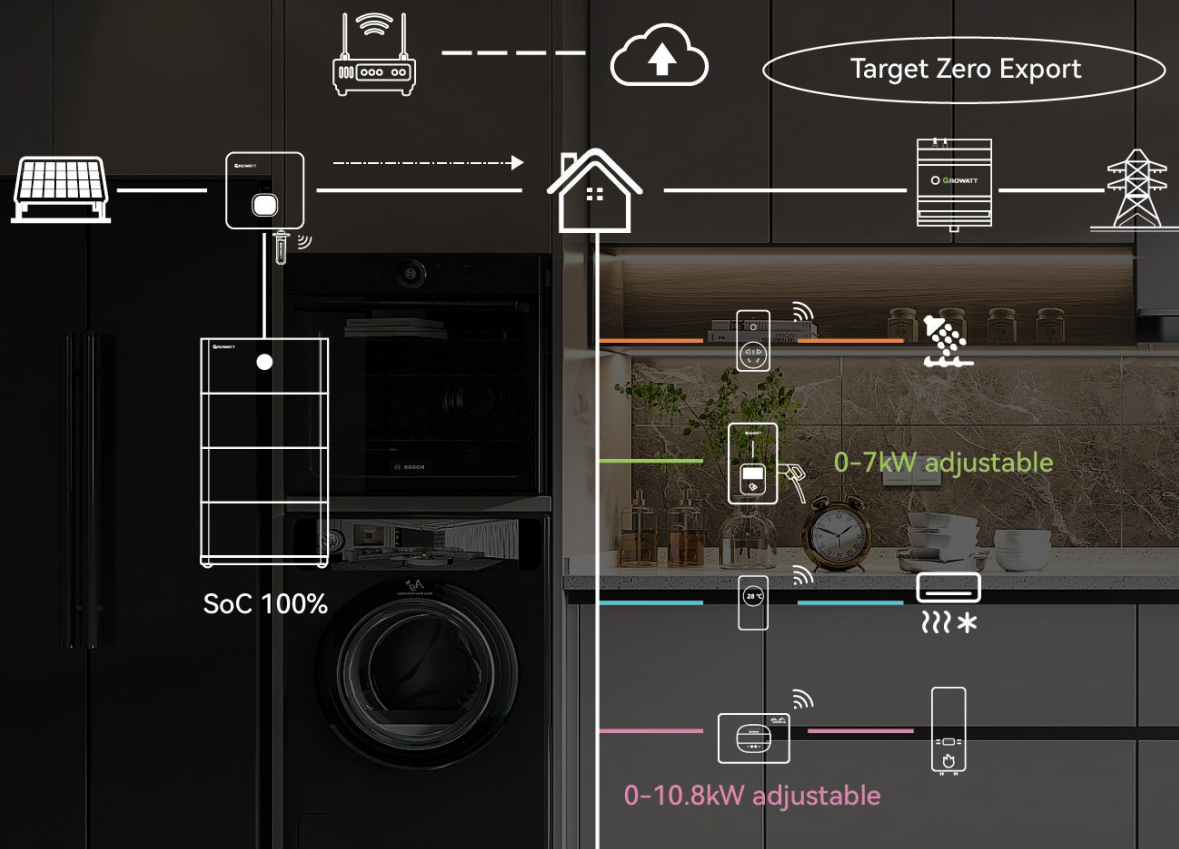
Lora communication

Sub-1G

Zigbee



PV Linkage Mode



PV Linkage Key Strategy

GroHome appliances will be activated automatically when there is surplus solar power feeding back into the grid, store the solar energy in storage battery, EV, or even the usable heat.

* Min operation power: 1.4kW for single phase EV charger, and 4.1kW for three-phase EV Charge

Customer Benefits

· Lower Electricity Bill

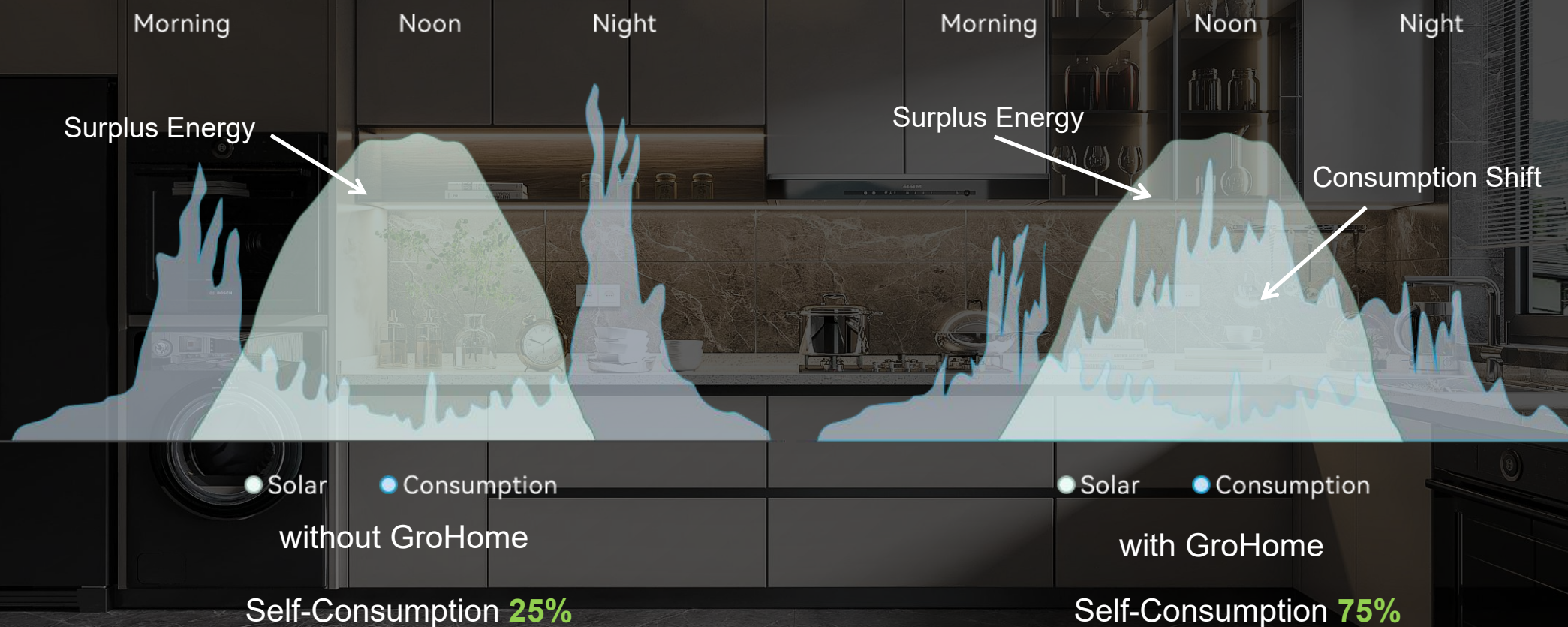
Utilize surplus solar power to increase self-consumption and help homeowner achieve lower electricity bills

· Zero Carbon Life

100% solar green energy for your home, powering household appliances, hot water heating and smart EV charging

PV Linkage Benefits

Increase Self-consumption



PV Linkage Application Reference 2:

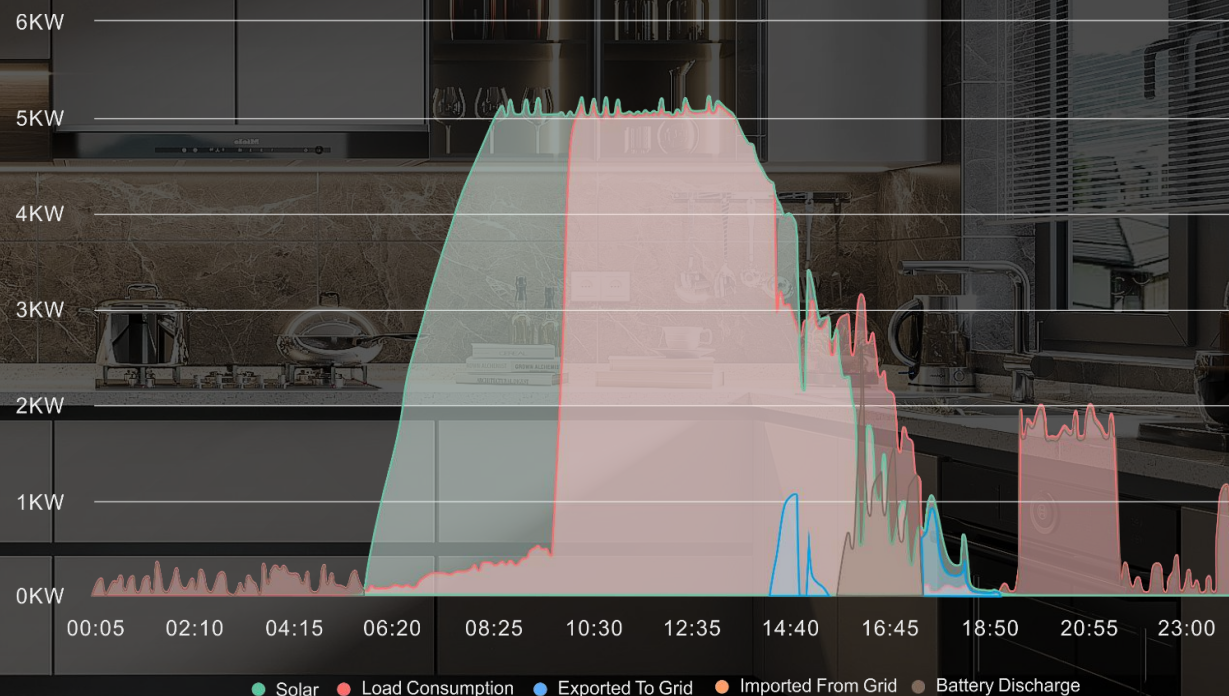
Solar + Storage + GroBoost-X System in Adelaide, Australia
Achieve Solar Self-consumption Rate up to 97%

Application in Australia

This Australian user installed the 5kW solar, with 10kWh storage battery as well as 7kW smart EV charger.

Device List:

- MOD 5000TL3-XH(BP)
- 10kWh APX Battery
- THOR 7kW smart EV charger (RF version)
- GroHomeManager-X

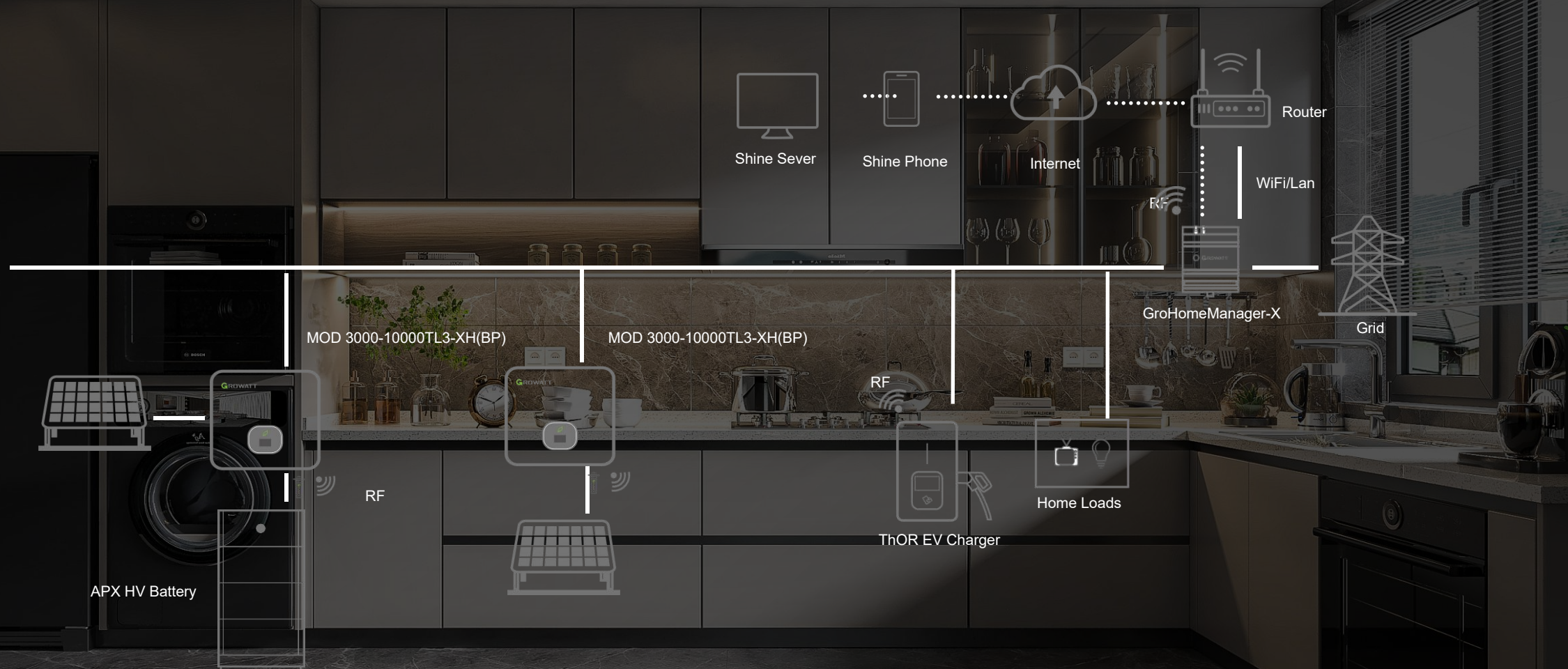


Application Matrix- RF communication

Application Scenario	Description	Wireless Communication(RF)	
		PV Inverter	Hybrid Inverter
Monitoring	Monitoring only (no export limitation and energy management required)	6pcs (12pcs for microinverter)	6pcs
Export limitation/Energy Managerment	Monitoring and zero export	3pcs (6pcs for microinverter)	3pcs
HEMS	The system is configured with inverte and EV charger	2* PV Inverter/Hybrid Inverter + 1* EV Charger	

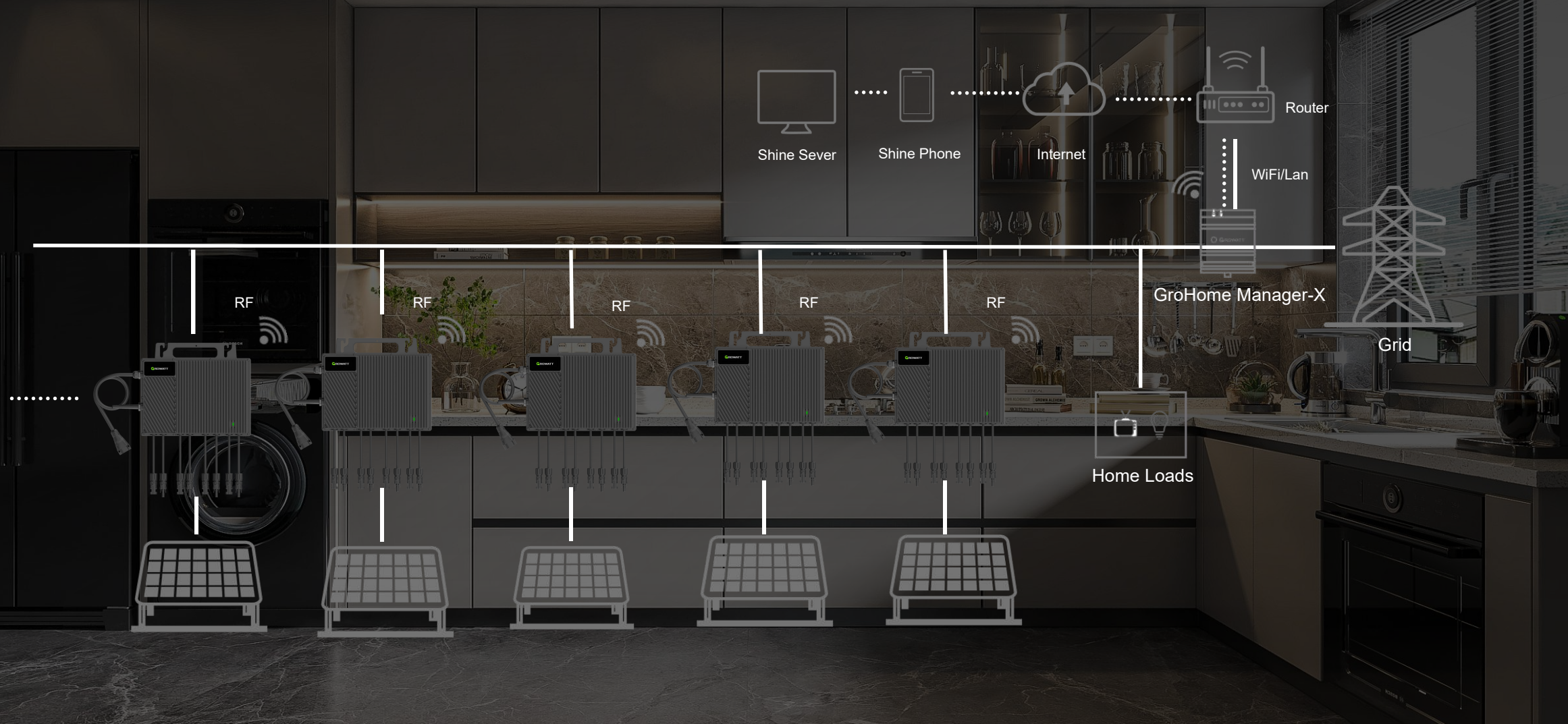
Wireless RF Communication Application

All devices communicate with each other via wireless RF, eliminating the need for additional communication infrastructure.



Multiple Microinverter Export

The GroHome Manager-X can manage multiple microinverter in parallel and realize whole system export limit control



THOR Smart EV Charger



7kW ~ 22kW Smart EV Charger

- Driven by Solar, charge EV with 100% green energy
- Compatible with all branded EV
- Integration in existing & new-installed PV system
- APP smart control & smart scheduling
- IP65 design for indoor or outdoor use

Data Security Compliance

Database in European Union

local in Frankfurt , Germany

Comply with GDPR

Growatt monitoring platform complied with **GDPR** with SGS guidance.

Secure communication

Encrypted transfer of data to the solar portal

Data encryption in line with **SSL** and **AES** standard

General Data Protection Regulation (GDPR)



General Data
Protection Regulation

A modern, minimalist living room interior. In the center is a light gray sectional sofa with two dark gray throw pillows. In front of the sofa is a low, rectangular coffee table with a light-colored marble top and a dark wood base. On the coffee table sits a small vase with dried branches and a lit candle. To the left, a dark wood bar counter is visible with a few stools underneath. The background features a white brick wall and a large, empty white canvas. To the right, floor-to-ceiling windows with dark frames offer a view of the ocean and a beach. The floor is dark wood, and the overall lighting is soft and ambient.

THANKS