

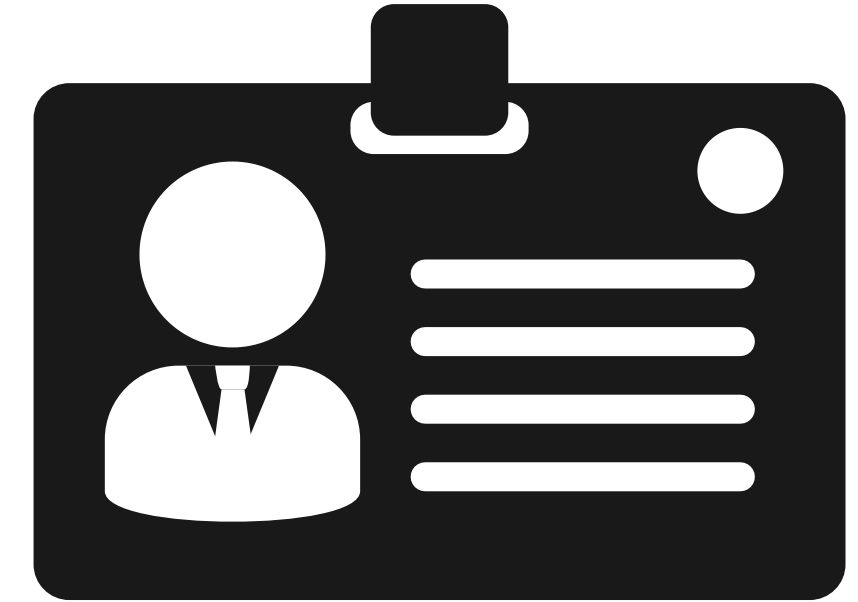
# MOD ULY

**The Future of Smart Energy**



# Company Description

## THE SMART ENERGY REVOLUTION



Moduly helps **residential** and **commercial** electricity users optimize their **energy efficiency** by allowing them to **shift consumption peak hours**, reduce their **energy consumption** and **GHG emissions**, while saving them through our modular intelligent energy platform. Using **artificial intelligence**, Moduly predicts, recommends and personalizes the user experience according to their consumption habits. Moduly is a **plug and play**, modular and **scalable** solution that reduces the cost & complexity of installation.

# PROBLEMS

01

## **GHG'S EMISSIONS**

ENERGY OVERPRODUCTION - PEAK HOURS  
CONSUMPTIONS

02

## **LACK OF ENERGY CONTROL**

GHOST ENERGY LOSSES - 10% TO 20%

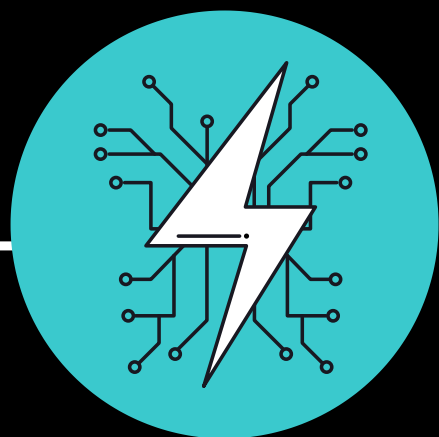
03

## **HIGH COST OF ENERGY ACQUISITION**

2,3 OR 5X MORE DURING THE PEAK OR  
DEPAND THE COUNTRY

# KEY FEATURES AND BENEFITS

## ENERGY EFFICIENCY OPTIMIZATION



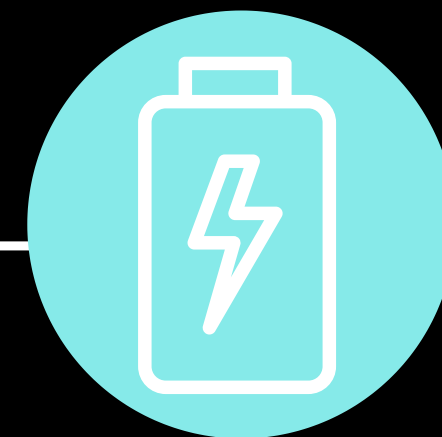
OUR AI SYSTEM WILL OPTIMIZING YOUR ENERGY ACCORDING YOUR LIFE STYLE.

## SAVES MONEY. EACH MONTH



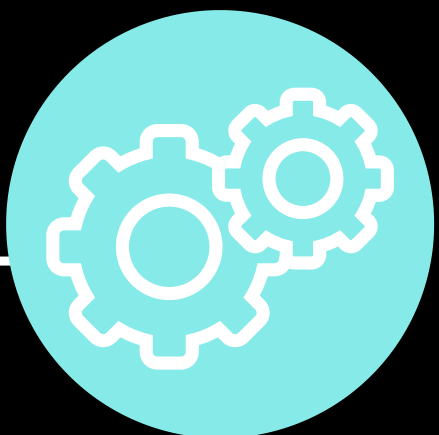
MODULY TECHNOLOGY HELP YOU TO REDUCE YOUR MONTHLY ELECTRICAL BILL.

## ENERGY STORAGE & BACKUP



ALWAYS HAVE ENERGY DURING EXTREME WEATHER CONDITION OR OUTTAGE.

## ENERGY CONSUMPTION MANAGEMENT



CONTROL YOUR PEAK HOUR, YOUR GHOST POWER LOSSES AND MORE.

## ENVIRONMENTAL IMPACT



HELP YOUR PLANET BY CONTROLLING YOUR KW AND REDUCING GHG'S EMISSION.





# THE ULTIMATE MODULAR ENERGY STORAGE SOLUTION

A **FLEXIBLE, AFFORDABLE** AND **CUSTOMIZABLE** SOLUTION  
TO **ANY TYPE OF NEEDS, BUDGETS, AND ENVIRONMENT.**

# MODULY SIMPLICITY



## STEP 01

**BUILD YOUR  
OWN ENERGY  
STORAGE  
BASED ON  
YOUR NEED &  
ENVIRONMENT**

## CUSTOMIZE YOUR OWN PRODUCT

CHOOSE THE RIGHT CONTROLE MODULE TO FIT WITH THE RIGHT TYPE OF ENERGY MANAGEMENT YOU ARE LOOKING FOR : GRID MANAGEMENT, SOLAR CONNECTION, ENERGY OPTIMIZATION, BACKUP STORAGE.

CHOOSE HOW MANY ENERGY CAPACITY STORAGE YOU NEEDS BETWEEN 1000 WH TO 12 000 WH, TO REACH YOUR DAILY CONSUMPTIONS NEEDS.

IDENTIFY WHICH TYPE OF MODULY ADAPTER YOU NEED TO EXPAND YOUR ENERGY THROUGH EACH OUTLET WALL AND IF YOU NEED A SOLAR OR GRID MANAGEMENT.

CHOOSE THROUGH OUR DIFFERENT INTERCHANGEABLE INTERFACE OUTPUT CONNECTION, ACCORDING TO YOUR NEEDS.

# MODULY SIMPLICITY



**SETUP YOUR  
GOALS & YOUR  
ENERGY HABITS  
WITH THE APP**

**STEP 02** .....

## OFFER YOURSELF A TAILOR-MADE MANAGEMENT

SETUP YOUR OWN GOALS AND HABITS  
CONSUMPTIONS TO OUR MODULY APP.

CREATE YOUR PROFILE AND CONNECT YOUR  
POWER SUPPLIER ACCOUNT TO MODULY AND  
UPLOAD YOUR CURRENT DATA.

CONNECT YOUR DIFFERENT SMART HOME  
TECHNOLOGY TROUGH MODULY SOFTWARE, OR  
CONNECT MODULY TO YOUR OWN EXISTANT  
ECOSYSTEM.

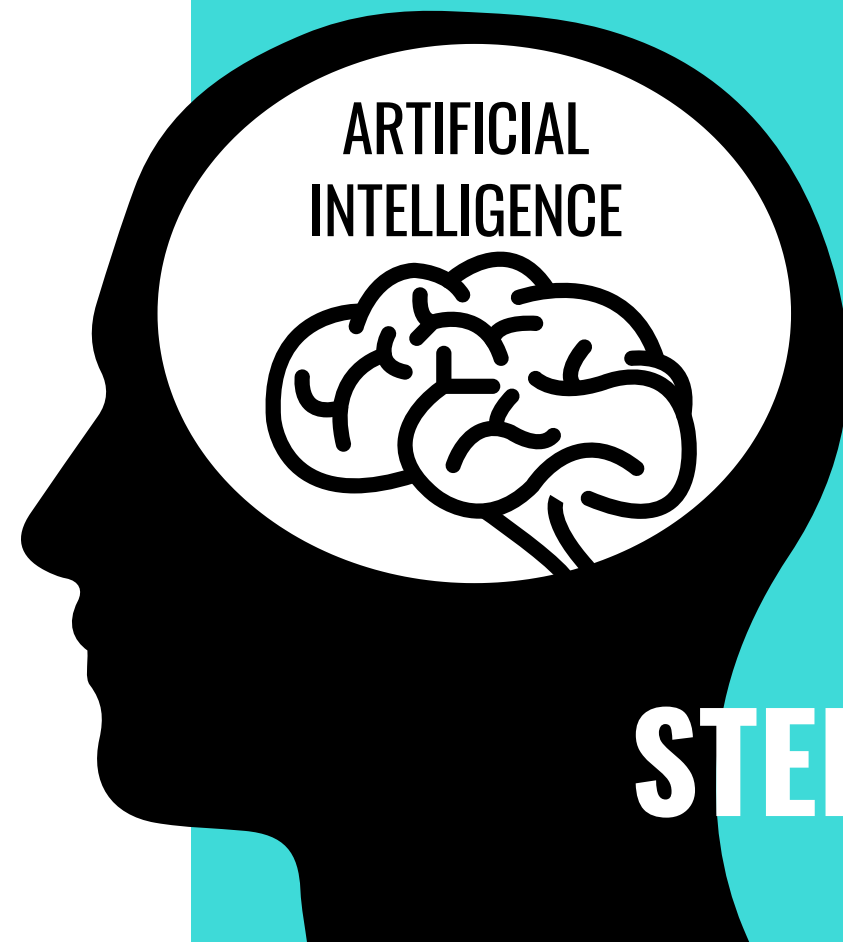
# MODULY SIMPLICITY

## LET OUR ARTIFICIAL INTELLIGENCE DO IT FOR YOU

MODULY SOFTWARE WILL TAKE CARE OF YOU AND WILL START MAKING SOME PREDICTION, OPTIMIZATION, ANALYSIS AND MANAGEMENT FOR YOU, WITHOUT ANY EFFORT.

OUR ARTIFICIAL INTELLIGENCE THINKS FOR YOU AND MAKES DECISIONS BASED ON THE PAST, CURRENT AND FUTURE DATA TO IMPROVE YOUR ENERGY EFFICIENCY.

MODULY CAN BY ITSELF MOVE THE PEAK HOURS CONSUMPTIONS, ENSURE TO ELIMINATE GHOST ENERGY AND MAXIMIZE YOUR CONSUMPTIONS. MODULY CAN ALSO MANAGE YOUR PRODUCTION OF SOLAR ENERGY AND MONITOR YOUR ELECTRICAL NETWORK OR ONLY BE AN SMART BACKUP SYSTEM OF ENERGY IN THE EVENT OF A POWER FAILURE.



**STEP 03**

**AND LET OUR  
MODULY BRAIN  
MANAGING IT  
FOR YOU**

# HOW to use our plug and play solution

## MODULY HOMEKIT

01

PLACE THE MODULY **HOMEKIT** IN YOUR **KEY AREAS** AND PLUG THEM INTO THE POWER OUTLET. MODULY WILL BE READY TO RECEIVED YOUR DEVICES/APPLIANCES

02

INCREASE YOUR ENERGY BY ADDING A BATTERY OF **1000WH OR MORE** TO YOUR MODULY ACCORDING YOUR NEEDS OF STORAGE.



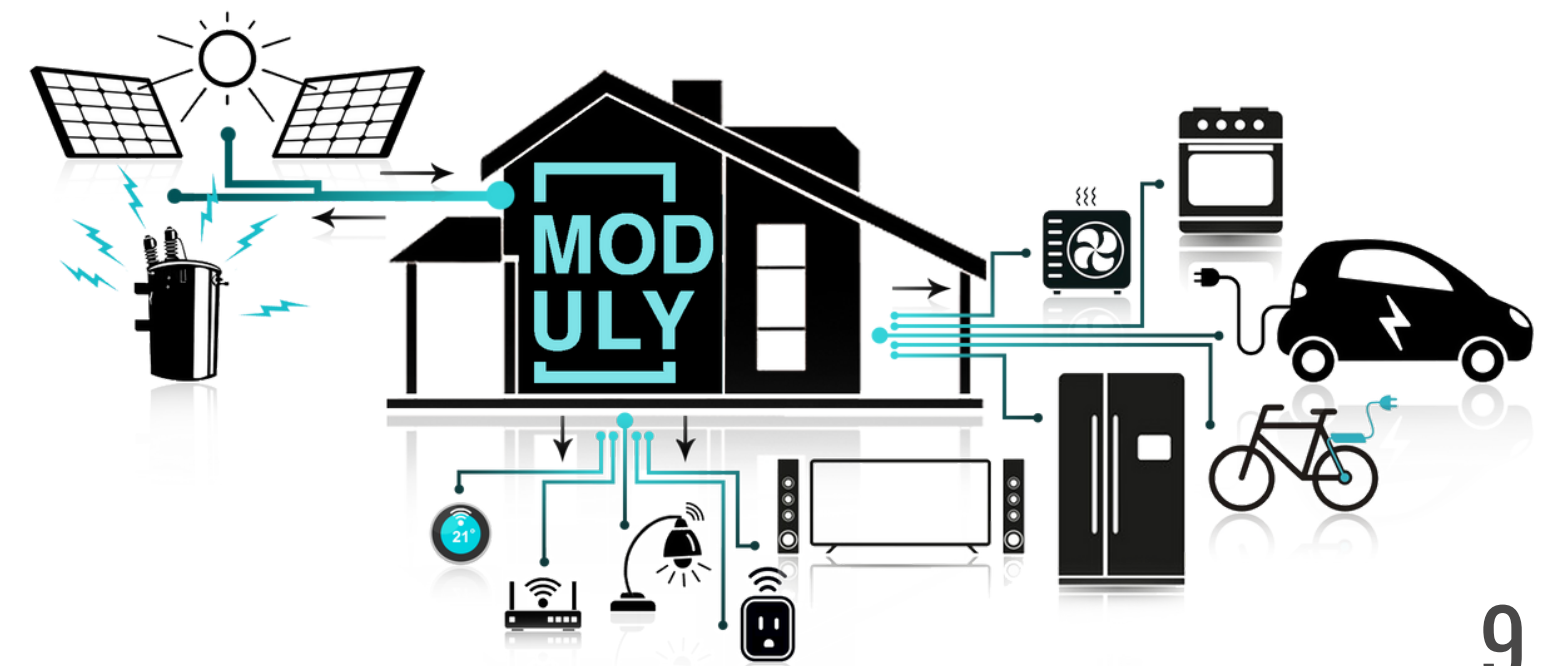
03

WITH THE APPS, **ORGANIZED, SYNCHRONIZED AND CONNECT** ALL OF YOUR **SMART HOME EQUIPMENTS** (WATER HEATER, THERMOSTAT, SMART PLUG, ETC) & **CENTRALIZED** YOUR ENERGY ACTIVITIES



04

**MANAGE INDEPENDENTLY OR TOGETHER** YOUR ENTIRE ENERGY ROOMS CONSUMPTIONS WITH YOUR PHONE.

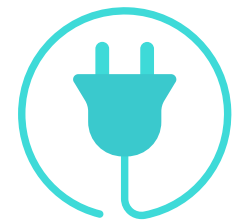




# PLUG & PLAY SOLUTION ADVANTAGES



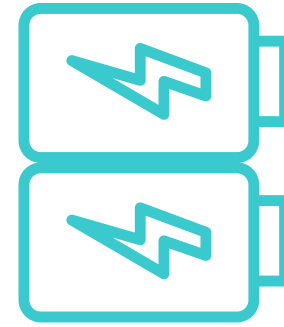
REDUCE INSTALLATION FEES



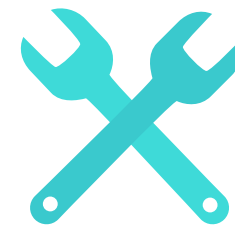
PLUG AND PLAY SOLUTION



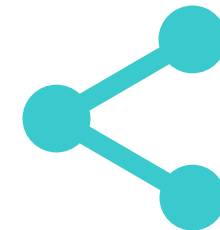
GET STARTED WITH A SMALL  
AMOUNT OF MONEY



SCALABALE SOLUTION



BUILD YOUR OWN TAILOR MADE PRODUCT



CONNECT YOUR SMART HOME TECHNOLOGY



ADAPTED FOR ANY TYPE OF ENVIRONMENT



# MODULY OPERATING MODES

## HOMEKIT & ADAPTER

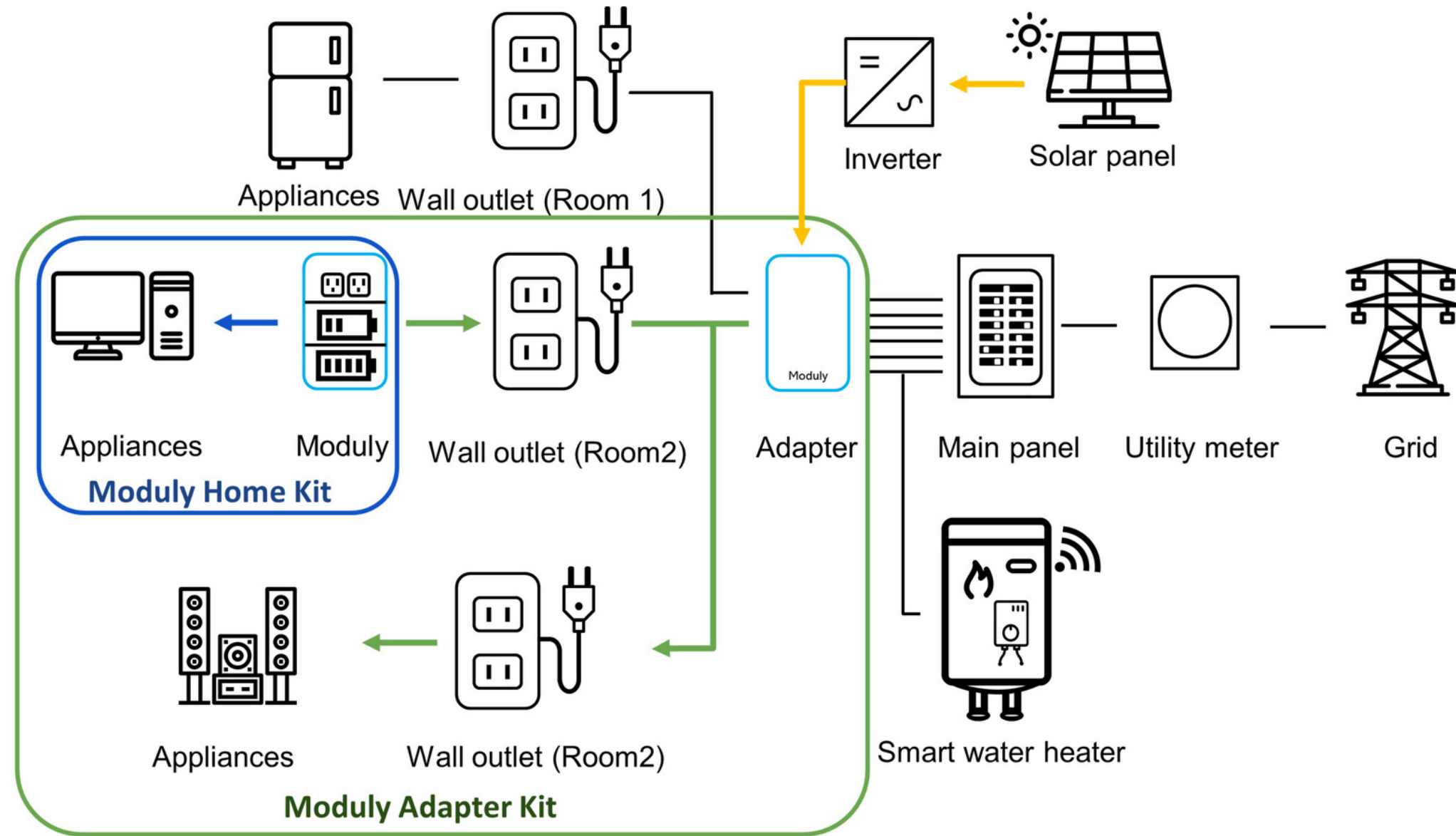
### THE FUNCTIONS OF MODULY **HOMES KIT** ARE:

- BACKUP ENERGY – IN CASE OF A BLACKOUT MODULY WILL PROVIDE ENERGY TO THE CONNECTED APPLIANCES
- REDUCE CONSUMPTION AT PEAK HOURS – MODULY WILL SUPPLY THE ENERGY FROM THE APPLIANCE DURING THE HIGH RATES TIME
- REMOVE GHOST ENERGY – FOR THE SUITABLE APPLIANCES MODULY WILL DISCONNECT THEM COMPLETELY FROM THE GRID DURING THE NIGHT.

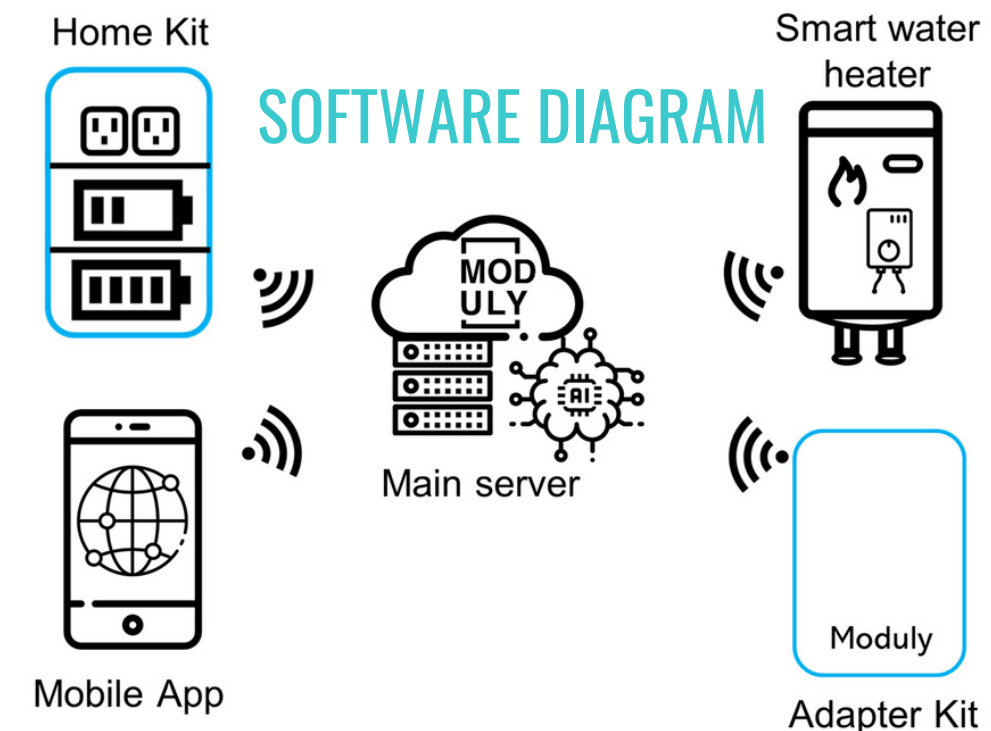
### THE FUNCTIONS OF MODULY **ADAPTER** ARE:

- DURING A BLACKOUT IT CAN ISOLATE A ROOM AND ALLOW MODULY TO SUPPLY ENERGY TO ALL THE APPLIANCE OF THE ROOM
- DURING THE HIGH-RATE TIME MODULY CAN DISCONNECT THE ROOM FROM THE GRID AND SUPPLY THE REQUESTED ENERGY INDEPENDENTLY.

ELECTRICAL DIAGRAM



SOFTWARE DIAGRAM





**SPLIT IT**



**STACK IT**



**DISPATCH IT**



## COMPACT CONTROLLER

THE PODZ IS PERFECT FOR THE COUNTER, DESK STATION OR SMALL ROOM. IT'S EASY TO USE WITH YOUR AC PLUG OUTLET.

## BASIC SPECIFICATION

- AC / 120V
- 2 X USB TYPE-C
- 2 X USB QUICKCHARGER
- WIRELESS CHARGER INTEGRATE



## BATTERY STORAGE

CAPACITY OF 200WH  
INTEGRATED IN THE MODULE



# CONTROL MODULE



● HERE IS THE **MASTER CONTROLLER**. HIS ABLE TO TAKE DECISION FOR THE ENTIRE MODULY **HOMEKIT**. IT IS PERFECT FOR ANY ROOM IN YOUR HOUSE AND CAN BE ADDED AND CONNECTED WITH OUR **ADAPTER** FOR ELECTRICAL NETWORK MANAGMENT.

## ENERGY STORAGE

WITH MODULY HOMEKIT IT'S POSSIBLE TO **ADD 4 STACKABLE BATTERY** PACK OF 1000WH IN THE ROW.

## BASIC SPECIFICATION

- LCD SCREEN
- 4 X AC 120 PLUG
- 2X USB TYPE-C
- 2 X INTERCHANGEABLE INTERFACE
- FAST CHARGING TECNOLOGY
- NETWORK CONNECTIVITY

# BATTERY STACK

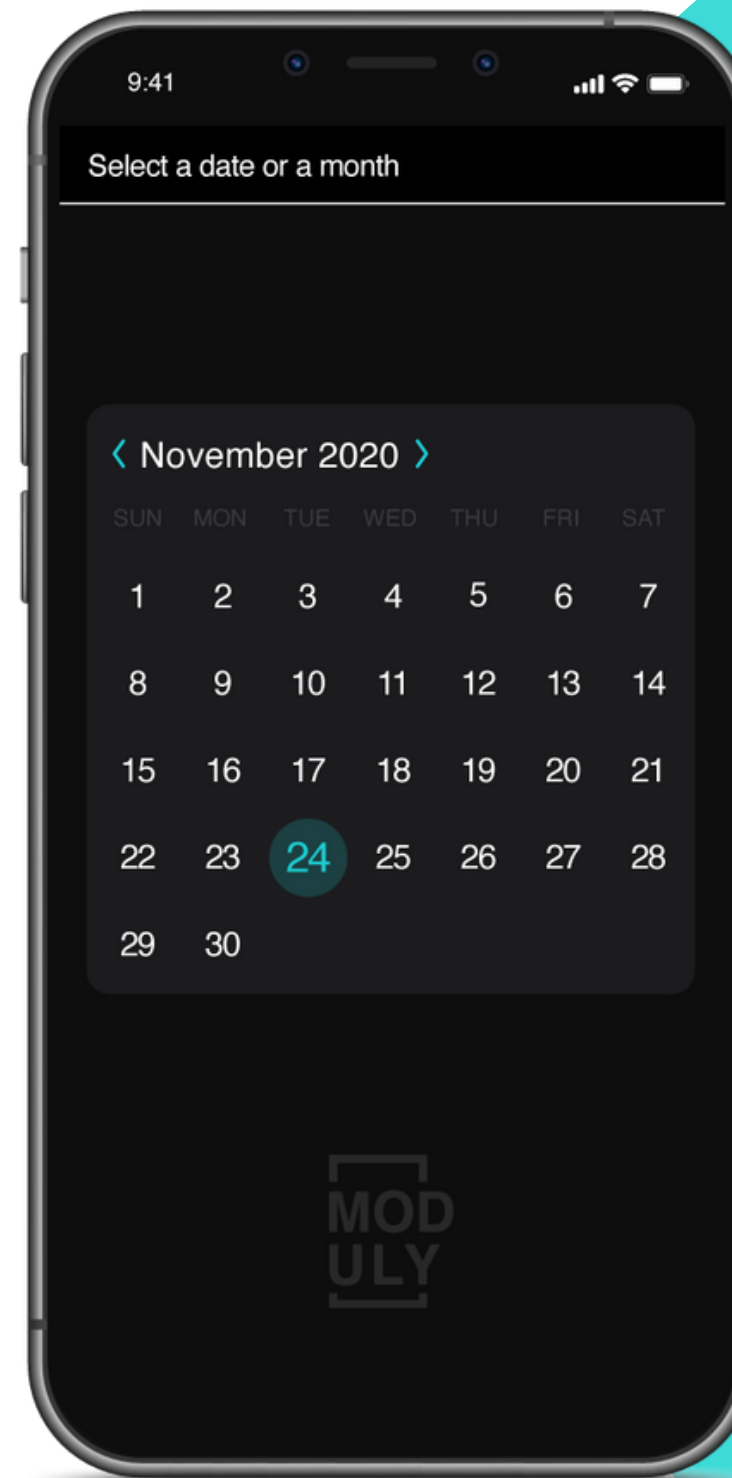
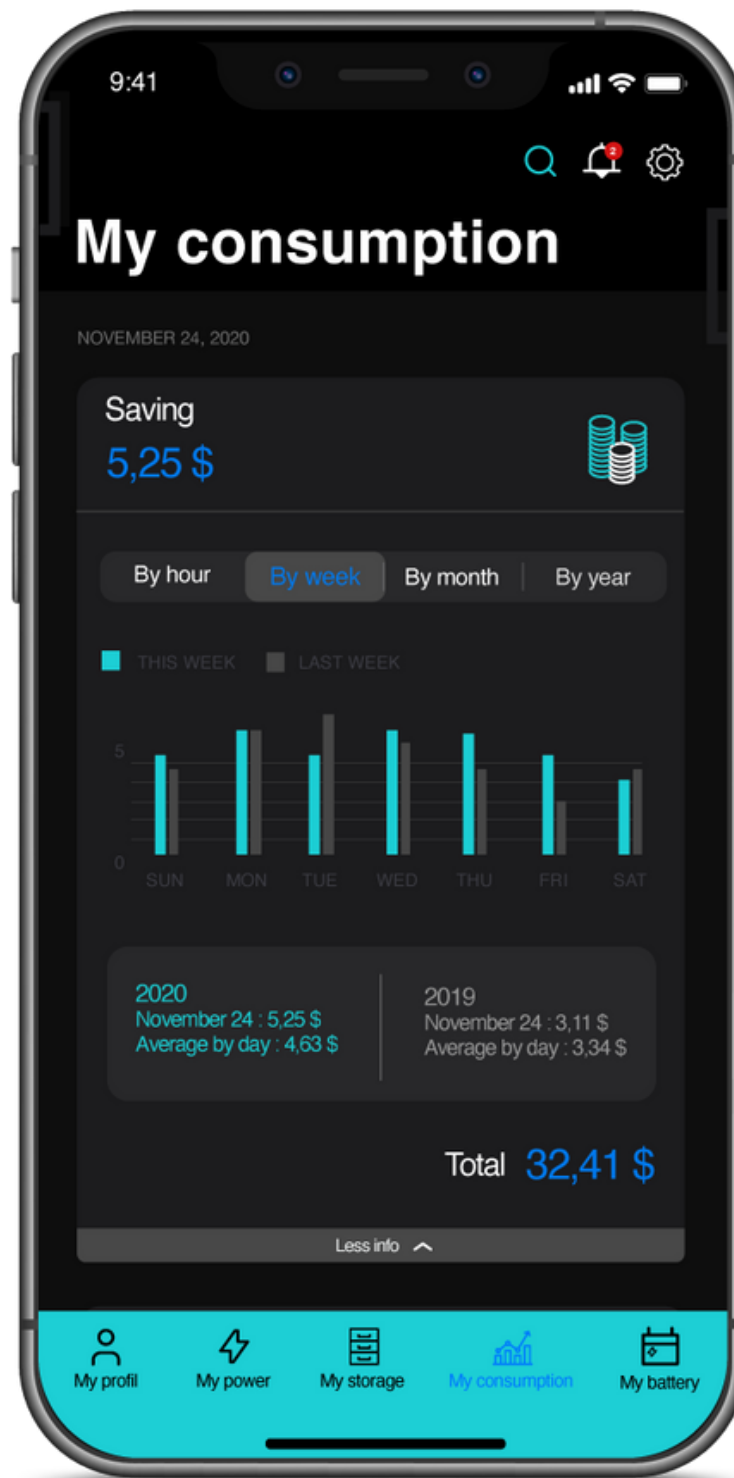
## QUICK ATTACH SYSTEM

MODULY USE A QUICK ATTACH SYSTEM WITH A MAGNET SAFETY LOCK TECHNOLOGY.



## BASIC SPECIFICATION

- EASY STACKABLE BATTERY SYSTEM
- LITHIUM BATTERY TECHNOLOGY
- INDIVIDUAL BATTERY CAPACITY 1000WH
- STACKABLE UP TO 12 000 WH.



TRACK,  
MANAGE,  
PREDICTE &  
AUTOMATE  
**MODULY**  
**APP**



# INTELLIGENT SOFTWARE

## INNOVATIVE WAY TO MANAGE YOUR ENERGY ECOSYSTEM



Moduly is developing a friendly user and interactive software which allows the user, through a **WIFI** connection, to see his overall consumption of his energy ecosystem, while being able to manage his system and the energy of his house remotely.

Our mobile application is using the **Cloud** to share rapidly the **Data** between the software and the energy storage to the consumers who can instantly follow their entire activities like energy displacement, their consumptions, energy autonomy and any type of system notification.

# ARTIFICIAL INTELLIGENCE

BASED ON THE COLLECTED INFORMATIONS IS HERE  
SOME ACTION THAT MODULY WILL TAKE:

- Recommend a right size of energy capacity to reduce the energy consumption during the high-rate time.
- Recommend saving actions for the customer to reduce the electricity bill.
- Manage the SOC of the battery to assure enough energy to keep running the connected appliance during the high-rate time.
- Based on the weather forecast Moduly will increase the percentage of stored energy in case of a blackout.
- For the suitable appliances, a machine-learning based method will monitor the usage behavior and control their power time (ghost energy).
- Moduly App is paired with a smart water heater or/and space heater, the embedded AI will regulate their operation to reduce their consumption while respecting the user temperature settings.



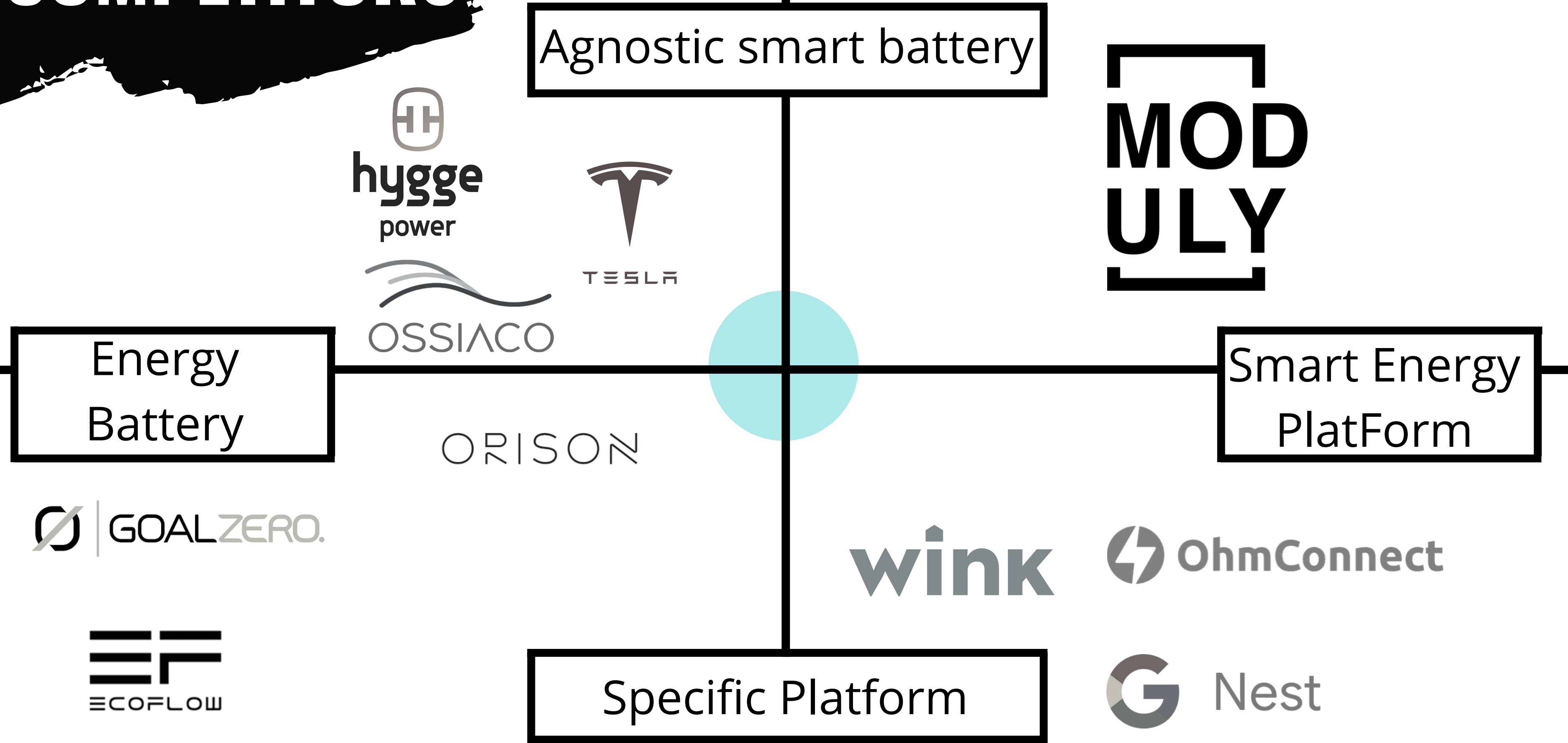
**REVENUE  
MODEL**

**MODULY HOME KIT:**

**\*CUSTOMER PRICE \$1/WH\***

STORAGE 1200 WH 1200\$	STORAGE 2400 WH 2400\$	STORAGE 3600 WH 3600\$	STORAGE 4800 WH 4800\$	STORAGE 6200 WH 6200\$
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# COMPETITORS



**MARKET  
SIZE**

**SMART ENERGY**  
**\$169B**  
2025

**33B\$**  
ANNUAL SALES  
OPPORTUNITY

20% OF NORTH AMERICAN  
FAMILIES ARE LOOKING FOR  
A SMART HOME ENERGY  
STORAGE SOLUTION

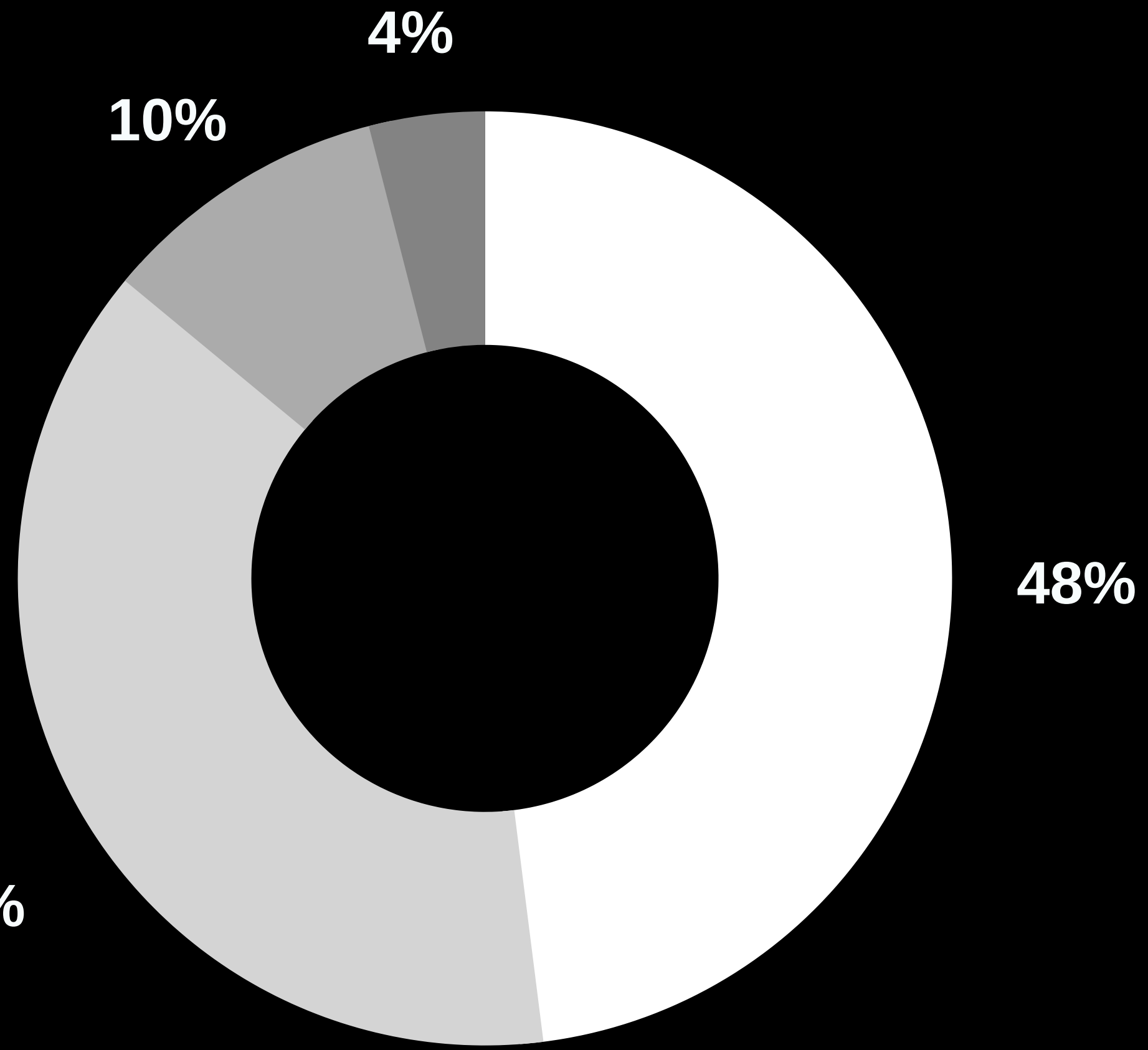
**\$69B** 2017



# CUSTOMERS INTEREST

## WHERE CUSTOMERS LOOK TO BUY MODULY

- POWER DISTRIBUTION MARKET
- SPECIALIZED DEALER
- ONLINE PURCHASE
- OTHER





**SUPPORTED BY**





**JONATHAN LAMER**  
Co-Founder & CEO

**MARIO LEBOEUF**  
Co-Founder & COO

**ALVARO MACIAS**  
Co-Founder & CTO

**ALEXANDRE GIBEAULT**  
Co-Founder & CPO



## MARKETING TEAM

**GENEVIEVE**

**PASCAL**

**MICHAEL**



# THANKS

JOIN OUR  
**SUSTAINABLE** COMMUNITY

**[www.moduly.io](http://www.moduly.io)**

**[hello@moduly.io](mailto:hello@moduly.io)**

**450.204.7329**

