

# EMPOWERING CONSUMERS WITH 5G-ENABLED EARTH2US PLUG FOR A GREENER ENERGY PRACTICE

## THE PROBLEM WE'RE TACKLING

### Unmanageable Energy Consumption and Rising Carbon Emissions

With energy bills skyrocketing by 10-15% each year and carbon emissions contributing to 7 million premature deaths globally, managing our energy consumption efficiently has become more challenging. Did you know the average home wastes up to 30% of its energy due to inefficient appliance use?

Our current smart meters don't offer the real-time data we need, to understand how each device affects our energy usage and the environment. We need smarter solutions to save money and reduce our carbon footprint.

That's where Earth2Us Plug comes in—helping you make informed choices and live more sustainably!



## MEET Earth2Us Plug

### SYNCING HUMAN AND NATURE FOR A CLEANER EARTH



### SEE REAL-TIME USAGE

KEEP TRACK OF HOW MUCH ENERGY EACH DEVICE USES AND TAKE CONTROL!

### SMART SUGGESTION WITH AI

USES AI TO PREDICT OPTIMAL ENERGY USAGE TIMES AND OFFER RECOMMENDATIONS BASED ON LOCAL CARBON EMISSION DATA AND RENEWABLE ENERGY AVAILABILITY.

### EARTH2US MOBILE APP

BUILT WITH THE IONIC FRAMEWORK, MAKES CONTROLLING YOUR DEVICES A BREEZE. STAY IN THE LOOP WITH SECURE ACCESS, REAL-TIME UPDATES, AND HANDY NOTIFICATIONS.

I am a solution that harnesses the power of 5G technology, AI predictive analytics, and IoT integration to optimize energy consumption. I schedule appliances based on real-time carbon emission data and local renewable energy availability for maximum efficiency. Designed with you in mind, I adapt to your preferences, allowing you to effortlessly lower your bills and support the planet—without changing your habits. Say goodbye to high energy costs and hello to a more sustainable lifestyle!



### USER-CENTRIC SCHEDULING

JUL 17  
SET YOUR PRIORITIES AND LET US SCHEDULE YOUR APPLIANCES FOR PEAK EFFICIENCY. ENJOY THE PERFECT BALANCE OF CONVENIENCE AND SAVINGS WITHOUT CHANGING YOUR LIFESTYLE.

### BOOST RENEWABLE ENERGY

IT EVEN NUDGES YOU TO USE POWER WHEN RENEWABLE ENERGY (WIND & SUN) IS AT ITS PEAK!

### UNDERSTAND YOUR IMPACT

GET FUN, EASY-TO-UNDERSTAND EMISSION VISUALIZATIONS, LIKE "TREES SAVED," TO SEE THE DIFFERENCE YOU'RE MAKING.

## HARDWARE / SOFTWARE STACK

Hardware: Raspberry Pi, ACS712 Current Sensor, Relay Module, and ADS1115, etc.

Software: AWS IoT Greengrass, AWS IoT Core, DynamoDB, and our super handy mobile app with ionic framework

5G-Powered: Lightning-fast data transfer for seamless control and updates

Poster by:

