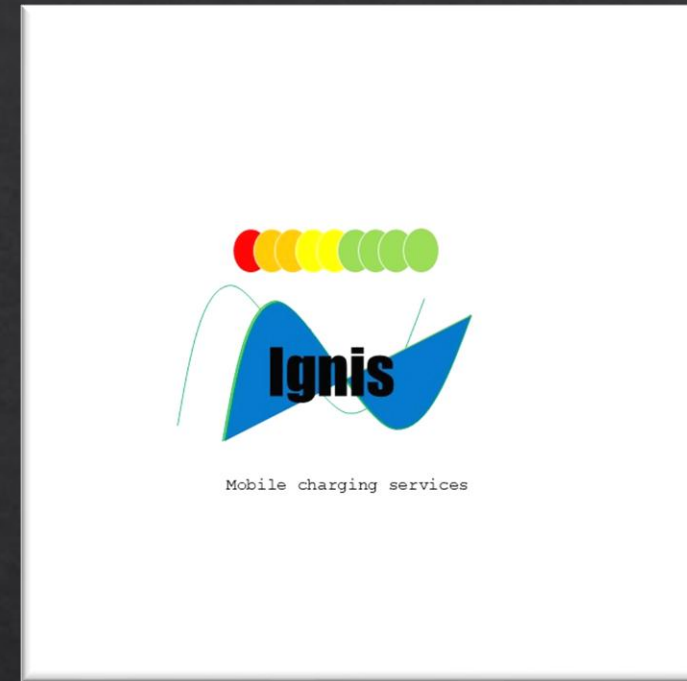




R3Power and IGNIS LLC
are
Revolutionizing EV Charging Infrastructure

UMCS

(Universal Mobile Charging System)

On-Demand EV Charging, Anywhere, Anytime

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(Universal Mobile Charging System)

On-Demand EV Charging, Anywhere, Anytime

**Eliminating EV Charging Hassle:
The UMCS Solution**

- ◇ Problem
- ◇ Solution
- ◇ Features and Benefits

On-Demand EV Charging, Anywhere, Anytime

➤ **Problem**

- ◆ Solution
 - ◆ Features and Benefits
- ◆ Current EV charging infrastructure faces challenges with time constraints at traditional stations and the high cost and time involved in constructing extensive stationary charging areas.

UMCS
(Universal Mobile Charging System)

On-Demand EV Charging, Anywhere, Anytime

- ◆ Problem

- **Solution**

- ◆ Features and Benefits

- ◆ Innovative Universal Mobile Charging System (UMCS) eliminates these constraints by deploying an on-demand fleet of vehicles equipped with state-of-the-art EV charging systems, bringing charging directly to the EV user.

On-Demand EV Charging, Anywhere, Anytime

- ◆ Problem

- ◆ Solution

- **Features and Benefits**

- ◆ **On-Demand Mobile Charging:** Fleet charges EVs at any location, bypassing traditional charging stations for unparalleled convenience.
- ◆ **Cross-Platform App:** Available for Web, Android, and iOS, the platform handles requests, identifies vehicles, and manages the recharge process seamlessly.
- ◆ **Efficient Systems Charging:** Fleet of chargers is powered by solar and wind energy, reducing the load on the electrical grid and enhancing EV charging efficiency without burdening the traditional distribution network.

UMCS

(Universal Mobile Charging System)

Decentralized and Sustainable Energy for Mobile Power
through the applications of DESS technology

DESS: Distributed Energy Storage System

Decentralized and Sustainable Energy for Mobile Power

Reimagining Charging
Infrastructure for a
Greener Future

- ◆ The UMCS envisions a future where mobile charging is independent of traditional grid infrastructure, relying primarily on locally sourced, renewable DC energy. This system offers a scalable and sustainable solution for powering a wide range of applications.

Decentralized and Sustainable Energy for Mobile Power

Core Principles

- ◇ Decentralized DC Power
- ◇ Modular and Distributed Storage
- ◇ On-Demand and Scalable Power
- ◇ Sustainable Energy Integration
- ◇ Closed-Loop Battery Lifecycle
- ◇ Infinite Scalability

Decentralized and Sustainable Energy for Mobile Power

➤ **Decentralized DC Power**

- ◆ Modular and Distributed Storage
- ◆ On-Demand and Scalable Power
- ◆ Sustainable Energy Integration
- ◆ Closed-Loop Battery Lifecycle
- ◆ Infinite Scalability

All charging operations are based on DC power supplied by renewable energy sources such as dedicated solar and wind farms, microgrids, and even private/domestic installations. This eliminates the need for extensive AC grid infrastructure beyond capillary distribution networks. The platform will be available on subscription basis

Decentralized and Sustainable Energy for Mobile Power

- ◆ Decentralized DC Power
- **Modular and Distributed Storage**
- ◆ On-Demand and Scalable Power
- ◆ Sustainable Energy Integration
- ◆ Closed-Loop Battery Lifecycle
- ◆ Infinite Scalability

Instead of relying on single, pre-charged battery packs, the UMCS utilizes multiple distributed modular energy storage units (DESS). These modules can be connected on the fly to provide the exact power required for a charging operation.

Decentralized and Sustainable Energy for Mobile Power

- ◆ Decentralized DC Power
- ◆ Modular and Distributed Storage
- **On-Demand and Scalable Power**
- ◆ Sustainable Energy Integration
- ◆ Closed-Loop Battery Lifecycle
- ◆ Infinite Scalability

The system offers flexible charging power, ranging from on-demand boosts for quick top-ups to high-power fast charging capabilities, achieved by aggregating multiple modular storage units.

Decentralized and Sustainable Energy for Mobile Power

- ◊ Decentralized DC Power
- ◊ Modular and Distributed Storage
- ◊ On-Demand and Scalable Power
- **Sustainable Energy Integration**
- ◊ Closed-Loop Battery Lifecycle
- ◊ Infinite Scalability

On-site renewables (solar, wind, microgrids) are seamlessly integrated as primary energy sources, significantly reducing reliance on distant grid resources and lowering the carbon footprint. Modular DESS are strategically charged when renewable energy generation is abundant.

Decentralized and Sustainable Energy for Mobile Power

- ◊ Decentralized DC Power
- ◊ Modular and Distributed Storage
- ◊ On-Demand and Scalable Power
- ◊ Sustainable Energy Integration
- **Closed-Loop Battery Lifecycle**
- ◊ Infinite Scalability

A consistent and efficient recycling program for batteries is integral to the system, facilitating a circular economy between users and DC energy suppliers.

Decentralized and Sustainable Energy for Mobile Power

- ◆ Decentralized DC Power
- ◆ Modular and Distributed Storage
- ◆ On-Demand and Scalable Power
- ◆ Sustainable Energy Integration
- ◆ Closed-Loop Battery Lifecycle
- **Infinite Scalability**

The service can be expanded indefinitely through the deployment of micro and local DC energy sources, even at the private or domestic owner level, fostering a truly distributed and resilient charging ecosystem.

UMCS
(Universal Mobile Charging System)

Decentralized and Sustainable Energy for Mobile Power

How It Works

- **Charge Request & Payment:** Subscribers request a charge at a specified time and location, prepaying the amount, which is held by a financial institution until the charge is successfully completed.
- **Charger Deployment:** A mobile charging unit delivers a charger to the designated location. An operator connects the charger to the EV as per instructions and then leaves the unit to charge based on the user's request.
- **Operator Rotation:** The operator moves to the next customer, dropping off charging units until all deliveries are completed. At the end of the cycle, the operator returns to the first location to retrieve the completed charger units.
- **Charger Recovery & Recharge:** The retrieved units are taken back to the home base, where new chargers are loaded for further deployment. The depleted units are transported to the nearest solar or wind farm for recharging.
- **Continuous Cycle:** This process is repeated indefinitely, with the UMCS APP continuously monitoring charge requests, optimizing charger deployment, and identifying the most efficient renewable energy sources within a reasonable radius.
- **Subscriber** request a Charge at determined time and location and pay in advance the amount (which will be held by financial institution till charge effectively performed)

Decentralized and Sustainable Energy for Mobile Power

◆ Key Advantages:

- ◆ Grid Independence: Reduces reliance on and potential vulnerability of traditional AC grids.
- ◆ Sustainability: Maximizes the use of renewable energy sources and promotes battery recycling.
- ◆ Flexibility and Scalability: Adapts to varying power needs and allows for easy expansion of charging infrastructure.
- ◆ Reduced Infrastructure Costs: Minimizes the need for extensive AC grid upgrades for charging purposes.
- ◆ Enhanced Resilience: Distributed energy sources and storage enhance the reliability of the charging system.

Meet Our Team

R3Power and IGNIS LLC



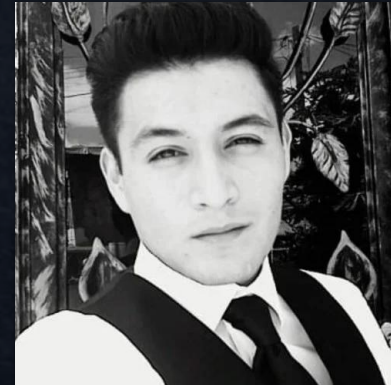
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UMCS
(Universal Mobile Charging System)

Powering the Future of Mobility

Ready to accelerate our pilot program and bring our innovative on-demand charging solution to the market, enabling wider EV adoption and a cleaner future.

www.Ignissllc.in/r3power

<https://www.linkedin.com/showcase/umcs-eu/>

Thank you for your time and consideration.