

# ECARUS

OFFROAD  
BATTERY  
800V



ELECTRIC DRIVE  
& POWER  
(bi-directional)



UV  
UTILITY VEHICLE



mobility & power  
beyond roads and grids

# ECARUS

is a startup in Austria developing high-performance solutions for mobility & power beyond grids and roads.



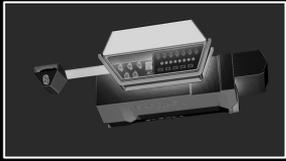
Technologies in the ECARUS R&D Portfolio include a bi-directional electric drive system for extreme offroad applications, an 800V off-road battery, mobile solar PV and mobile water-generation.

Four vehicle models are under development with proven all-wheel drive technology for circular production in Austria.

They are being engineered for extreme conditions, emergency response, search & rescue or crisis intervention with applications in other sectors.

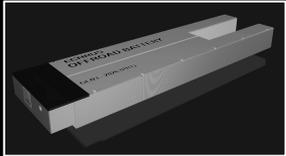
All ECARUS developments are zero-emission solutions

# Current R&D Projects: TECHNOLOGY & PROCESSES



## 1. EDP: 800V Electric Drive & Power System

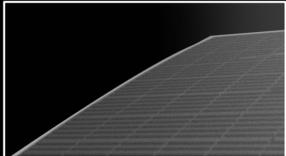
A bi-directional high torque electric drive and power supply system for extreme offroad and emergency vehicles (6x6 and 4x4) enabling a new level of offroad capability



## 2. ORB: OFFROAD BATTERY

800V Battery System for electric vehicles in extreme offroad applications:

High performance insulation, heating & cooling and vibration resistance, energy-autonomous self-management and monitoring, composite fibre structures for protection and weight reduction



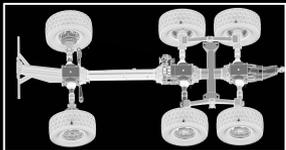
## 3. MOBILE SOLAR

Foldable, large scale on-board solar PV solutions for energy-autonomous vehicle self charge and mobile power supply. Vehicle body-integrated solar PV for auxiliary system power & vehicle self-conditioning.



## 4. MOBILE WATERMAKER

Mobile Drinking Water Generation (from Air Humidity) for expedition or emergency drinking water supply



## 5. CIRCULAR PRODUCTION PROCESS

A new circular manufacturing process for ECARUS Vehicle Components to reduce supply chain risks, international dependency and production footprints. This drastically improves development cost and will maximise EU value creation for ECARUS vehicle series production in Austria.

# Current R&D Projects: ECARUS VEHICLES (3.5 - 4.2t 6x6)



## UV

### UTILITY VEHICLE

A 6x6 Utility Vehicle with unparalleled off-road performance and on-board power supply



## EX

### EXPEDITION

A self-charging vehicle with extreme offroad capability for energy- and water-autonomous expeditions or emergencies



## MP

### MOBILE POWER

Mobile Solar Power Plant & Storage on a Compact <4.5t 6x6 vehicles for fast end-to-end deployment in Black-outs, Emergency Response and Natural Disasters (40-400+ kWp)



## MW

### MOBILE WELL

Mobile Drinking Water Generator on a Compact <4.5t offroad vehicles for fast end-to-end deployment in Black-outs, Emergency Response and Natural Disasters (200-500+ l/Day)



**OFFGRID  
POWER & WATER SUPPLY**



**REMOTE CONSTRUCTION**



**FORESTRY**



**FOREST FIRES**



**ALPINE RESCUE**



**ENVIRONMENTAL RESEARCH**



**FLOODING  
SEARCH & RESCUE**

**ECARUS**  
mobility & power  
beyond roads and grids



**EARTHQUAKE FIRST RESPONSE**

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**ÖNACE Classification: N 72.10-0**

Forschung und Entwicklung im  
Bereich Natur-, Ingenieur-,  
Agrarwissenschaften und Medizin

**Firmenbuchnummer:**

FN 514047 b

**UID-Nummer:**

AT U74437736

**ECARUS EDP in UV : GENERATION 2 PROTOTYPES (2024)**

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