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Towards the Green Future:
The European Green Deal
Brokerage Event, Brussels 2023

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**Workshop Name: *Energy and Mobility: a clean
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**Consumer
Electronics**



**Home
Appliances**



**Automotive and
Battery Systems**



**1.300.000
m²**

**16,000
Employees**

**Export Leader
of Turkey with
\$ 2,5 Billion**



**Visual
Solutions**



**LED
Lighting**



**Electric Vehicle
Charging Stations**





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MOBILITY **EVC** **VS** **TELECOM/STB** **BATTERY** **ESS** **LED** **EMS**





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V | **MOBILITY SOLUTIONS PRODUCTS**

DISPLAY SYSTEMS

- IVI System
- Digital Cluster
- Heads-up Display
- Passenger Displays

Telemetry Control Unit (TCU)

- GPS/LTE Based
- Accident Record Systems

Electronic/Domain Control Units (ECU/DCU)

- Wireless Charging
- Mirror Control Systems

Electronics Manufacturing Service (EMS)

- IDCC/Silver Box
- Lighting Systems
- Climatic Control Cards





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V | EVC

PRODUCTS

- **AC (7 – 22 Kw)**
 - EVC AC 02
 - EVC AC 04
 - EVC AC 05
- **DC (30 - 360 Kw)**
 - EVC DC 03
 - EVC DC HP03
 - EVC DC 06
 - EVC DC 09
 - EVC DC 12





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V E S T E L

ESS BATTERY MODULE



- 48V 100Ah Li-ion Battery Pack
- Safety Standards
- IEC62619, IEC62620, UN38.3

Specs:

Rated Energy : 4.8kWh
Rated Voltage : 48V
Voltage Range: 43V-54V
Capacity : 100Ah

Hybrid

Works with Lead Acid Batteries

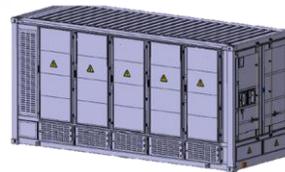
On-Board Charger

First On-board charger enabled
ESS Module

Connectivity

Anti-Theft

Can be used in **Container type ESS's**



PRODUCT

VESTEL SPEC'S



TELECOM



RESIDENCE



COMMERCIAL



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REAR CARRIER
RC01



IN-FRAME
IF01

IN-FRAME
IF02



IN-FRAME
IF03



2020

2021

2022

2023

DOWNTUBE
DT01





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Areas of Interest (CL5 Calls)

No	Call ID	Topic	Role in the Project
01	HORIZON-CL5-2024-D2-01-04	Emerging energy technologies for a climate neutral Europe	ESS manufacturer, use case provider
02	HORIZON-CL5-2024-D3-01-12	Energy Management Systems for flexibility services	Pilot scale demonstration
03	HORIZON-CL5-2024-D5-01-01	Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)	Use case provider & pilot
04	HORIZON-CL5-2024-D5-01-05	Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership)	Use case provider



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Research Interests (CL5 Calls)

No	Call ID	Topic	Role in the Project
5	HORIZON-CL5-2024-D5-01-06	New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)	Use case provider& end user



REPUBLIC OF TURKEY
MINISTRY OF INDUSTRY
AND TECHNOLOGY



COMPETITIVE
SECTORS
PROGRAMME



TÜBİTAK


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2023-20234 VESTEL ELECTRONICS R&D HOT TOPICS FOR COLLABORATION

MANUFACTURING

Industry 4.0 applications
AGVs
Smart Manufacturing
Predictive Maintenance
Digital Twin
GHG Emissions
Carbon Capture

SMART MOBILITY

EVC (AC/DC)
Automotive Display Sol.
Telemetry Con.Unit
Domain Control Unit
E bike battery
BMS
Energy Storage System

GENERAL TOPICS

IoT
AI
Cloud
Cyber Security
Sustainability
Display Technologies
Energy Efficiency

PRODUCT RANGE

TV/VS
STB
IVI
EVC
Battery
Automation
Mainboards
LED Lighting



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