





PRESENTER FULL NAME: AYSEL PİLAV

ORGANIZATION: YEŞİLOVA HOLDİNG

WORKSHOP NAME: 2-TWIN GREEN AND DIGITAL TRANSITION OF INDUSTRY

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Description of the Organisation

YYEŞİLOVA





6 PRODUCTION PLANTS



2000 HIGHLY SKILLED COLLEAGUES



125.00 m² PRODUCTION AREA



34.000 TONS OF ALUMINIUM CONSUMPTION ANNUALLY



THE INDUSTRIES THAT WE SERVE

- AUTOMOTIVE
 - RAILWAY
 - OTHERS
 (CONSTRUCTION & BUILDING & ENERGY)



Product Range

We Produce Solutions For All Industrial Profile Needs



Under Construction System Profiles



Thermal Solar Collector



Photovoltaik Solar Panel Profiles

For All Rail System Vehicles **Interior Trim Solutions**



Ceiling Modul



HVAC



Aluminium Solutions We Offer To The Automotive Industry.



Battery Tray Profiles

Battery Carrier

Battery Components

Battery Thermal Management









Differential Carrier

Compressor and Charger Carrier

Electric Motor Carrier

Cross Car Beam











Your Teams' Expertise



Competencies

- Product development
- Analysis, Design and Validation
- ProjectManagement
- Testing



- Aluminium Extrusion
 (6 extrusion lines, up to 10" press diameter)
- Aluminium HPDC

(11 HPCD presses)

- Surface Treatment (Anodizing, powder coating, wet painting)
- Mechanical Process (CNC Machines, stretch bending, drilling, cutting)
- Joining Technologies (TIG&MIG&Oxygen&Robotic CMT & FSW Welding, Riveting, Bonding)



Your Research Fields

Lightweight Structures & Mobility Solutions

- Lightweight solutions for the automotive, rail, and energy sectors
- Advanced thermal management and impact protection systems



Sustainability and Energy Management

- Waste reduction, recycling, and reuse strategies
- Use of Renewable Energy Sources in Production

Advanced Manufacturing Technologies



- Process optimization and automation,
- Digital twins and simulation based process control,

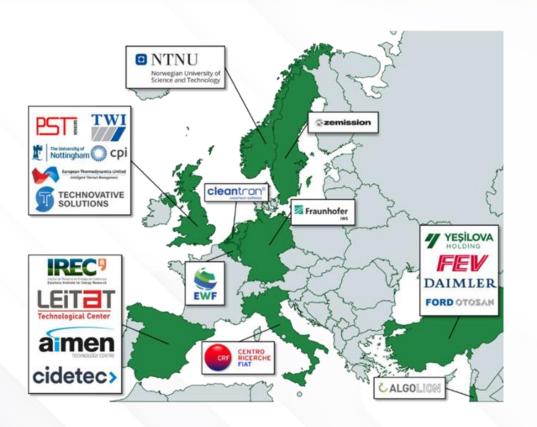


Simulation and Digital Engineering

- CAE analyses for structural, thermal, and crash performance
- Virtual testing and digital twin methodologies



Your On-going Projects





Advanced Light-weight BATteRy systems Optimized for fast charging, Safety, and Second-life applications

Grant agreement ID: 963580

Topic: H2020-LC-BAT-10-2020 — Next generation and realisation of battery packs for BEV and PHEV

Timing: 01.01.21 – 30.06.2025 (48 months+ 6 months extended)

EU contribution: ~10 mil. €

Coordinator: Yeşilova Holding A.Ş.

21 Partners from 10 Countries

Association: 1, Large: 3, RTO: 8,

SME: 7, Uni:2





Project Idea

HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-32: Green and resilient flexible production processes (Processes4Planet partnership) (IA)

Deadline Dates: September 2025

Objectives: Yeşilova aims to improve production flexibility by integrating renewable energy sources and enhancing process adaptability to energy fluctuations.

□ Expected Results:

Demonstration of flexible production processes adaptable to renewable energy variations, Improved energy efficiency and reduced costs in production lines, Scalable use-case for energy-intensive industries to adopt flexible, green production processes.



Project Idea

HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-34: Smart integration of net zero technologies into Energy Intensive industries (IA)

Deadline Dates: September 2025

Objectives: Yeşilova aims to demonstrate the integration of net-zero technologies into production processes and to decarbonise key manufacturing steps.

□ Expected Results:

A small-scale, real-life demonstration of net zero technologies in an industrial process, Reduction of natural gas dependency and GHG emissions in a selected process line, Increased know-how on the integration of clean energy technologies in the aluminum industry, Replicable and scalable use-case for other companies in energy-intensive sectors.



Project Idea

HORIZON-CL5-2026-02-D4-06: Phase out fossil fuel in energy-intensive industries through the efficient integration of renewable energy sources

Deadline Dates: February 2026

Objectives: Yeşilova aims to demonstrate the integration of renewable energy sources into fossil fuel-based thermal processes and to optimize process efficiency energy storage and flexibility.

□ Expected Results:

A small-scale, real-life demonstration of renewable energy sources in industrial process, Reduction of natural gas dependency and GHG emissions in a selected process line, Increased know-how on the integration of clean energy technologies in the aluminum industry, Replicable and scalable use-case for other companies in energy-intensive sectors.



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