



This project is co-financed by the
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Bu proje Avrupa Birliđi ve Trkiye Cumhuriyeti tarafından
finanse edilmektedir

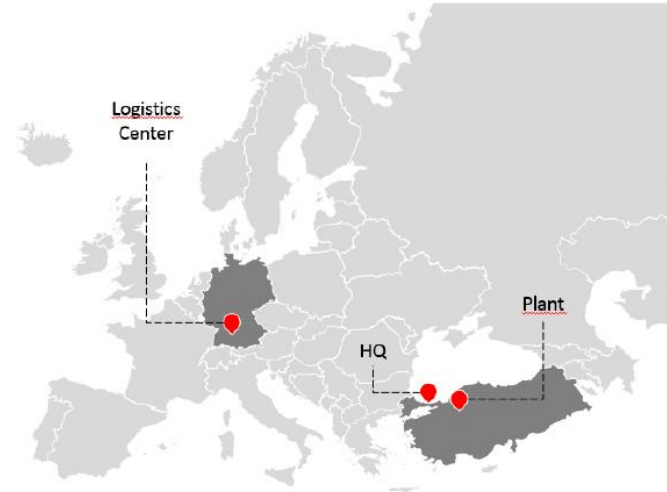
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ASAŞ Alüminyum Sanayi Ticaret A.Ş. – DESCRIPTION



COMPANY PROFILE

Foundation : 1990, Gebze, İSTANBUL
Nr Employees : 2400+
Turn Over (2017) : 585 million USD
Land Area : 900.000m²
Closed Area : 300.000m²
Export : 80+ Countries
Locations : Head Office; Kavacık/İSTANBUL,
Factory; Akyazı/ SAKARYA
Warehouse; Neuwied, GERMANY



Aluminium Extrusion Products

- 7 Extrusion Lines (75.000 tonnes /year)
- 7 natural gas billet heaters
- 5 aging oven (185C)
- 2 powder coating line, 2 curing oven (200C)
- 62 MN Biggest Press in Turkey
- 4x25 tonnes melting holding furnaces (natural gas burners, chimney temp. roughly around 300+ degrees)

Aluminium Flat Rolled Products

- 6 melting and 6 holding furnaces (40 tonnes capacity each)
- Coil annealing and foil annealing furnaces
- Continuous casting lines (120.000 tonnes /year)
- Rolling up to 6 micron thickness
- Low carbon foot print with regenerative thermal oxidizer

Aluminium Composite Panels

- 4 Composite panel production lines (10.000.000 m²/y)
- Fire classification: A2, FR, B1, B2

PVC Windows and Doors Systems








- 26 PVC Extrusion lines (35.000 t/y)
- 15 different window, door and sliding systems

Roller Shutter and Steel Shutter Systems

- PU filled aluminum roll form technology
- 30.000.000 m/y
- PVC Monoblock Roller Shutter Systems



ASAŞ Alüminyum Sanayi Ticaret A.Ş. – H2020 PROJECTS

| | Call | SUBJECT | Duration | Total Budget (€) | Coordinator | ASAS' Role |
|--|--------------------|---|---------------|------------------|--------------------|-------------|
|  | S2R-OC-IP1-01-2017 | Hybrid door solution development for rail systems | 09.17 / 09.19 | 3.495.000 | CIDETEC | Partner |
|  | SPIRE-04-2016 | Developing an integrated energy efficiency solution covering 5 different methods | 07.16 / 12.19 | 6.940.000 | CIRCE | Partner |
|  | CE-SPIRE-05-2019 | Improvement of aluminum melting furnace with oxygen injector and burner and varnish removal furnace development | 11.19 / 04.23 | 15.470.000 | CIRCE | WP Leader |
|  | CE-SPIRE-08-2020 | The life of the mold will be increased by applying the ceramic coating resistant to extreme conditions to be developed by TWI to molds. | 11.20 / 05.24 | 4.786.000 | Nanomaterilaia SPA | Task Leader |
|  | LC-BAT-10-2020 | Battery housing aluminum profile production, increasing the recycling rate. | 01.21 / 07.24 | 9.888.000 | EURECAT | Partner |
|  | DT-FOF-09-2020 | Developing an algorithm to ensure smart operation of the Trigeneration plant. System will decide when and how many engines to run. | 01.21 / 01.24 | 9.880.000 | CRF | Task Leader |
|  | SC5-10-2020 | Substitution of CRM and scrap aluminium content in an alloy. Validation via automotive industry. | 36 Months | 8.200.000 | EURECAT | WP Leader |

RESEARCH & DEVELOPMENT CENTER

RESEARCH & DEVELOPMENT CENTER



FIGURES

75 highly skilled technicians and engineers

44 Researchers, 38 technicians,
(1 Ph.D., 21 MSc, 27 bachelor's degree person),

3.100 square meter building equipped with laboratories and test center

New product development

New process development

Solutions and know how provider to our customers

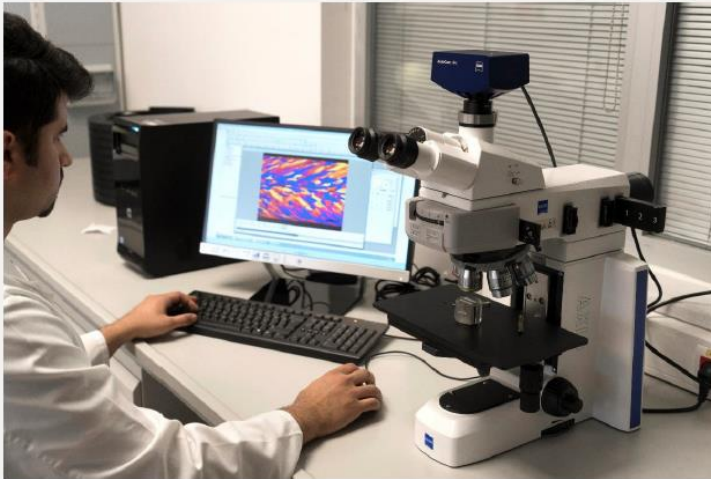
Alloy development



1 Ongoing
10 Completed
TEYDEB Projects



5 Ongoing
2 Completed Horizon
2020 Projects



POTENTIAL PROJECTS – CAN BE PARTICIPATED

| Cluster | Call ID | Call Closed | ASAŞ (http://www.asastr.com/home) |
|---------|--|-------------|--|
| 5 | HORIZON-CLS-2021-D3-02-02: Next generation of renewable energy technologies (RIA) | 5.01.2022 | Contributing feasibility activities with an aluminium industry point of view |
| 5 | HORIZON-CLS-2021-D2-01-11: Direct atmospheric carbon capture and conversion (RIA) | 19.10.2021 | -Demonstrator in the aluminium industry -Supporting analysis to define potential barrier with an aluminium industry point of view |
| 5 | HORIZON-CLS-2021-D4-01-04: Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C (IA) | 19.10.2021 | Demonstrator in the aluminium industry |
| 5 | HORIZON-CLS-2021-D6-01-07: More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport (IA) | 19.10.2021 | Logistics use-case demonstrator for aluminum industry |
| 5 | HORIZON-CLS-2021-D3-02-13: Cost reduction of CO2 capture (new or improved technologies) (RIA) | 26.08.2021 | Demonstrator of CO2 capturing solutions in the aluminium industry |
| 5 | HORIZON-CLS-2021-D3-03-09: Carbon-negative sustainable biofuel production (RIA) | 5.01.2022 | Demonstrating new systems |
| 5 | HORIZON-CLS-2022-D6-02-07: New concepts and approaches for resilient and green freight transport and logistics networks against disruptive events (including pandemics) (RIA) | 6.09.2022 | Logistics use-case demonstrator for aluminum industry |
| 5 | HORIZON-CLS-2021-D6-01-10: Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system (RIA) | 19.10.2021 | Developing safer and lighter structural components like crash box |
| 5 | HORIZON-CLS-2021-D3-02-12: Integration of CCUS in hubs and clusters, including knowledge sharing activities (CSA) | 26.08.2021 | Industry partner in aluminium industry |
| 5 | HORIZON-CLS-2021-D2-01-02: Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership) | 19.10.2021 | Aluminium battery pack design and prototyping |
| 5 | HORIZON-CLS-2021-D2-01-03: Advanced high-performance Generation 4a, 4b (solid- state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership) | 19.10.2021 | Aluminium battery pack design and prototyping |
| 5 | HORIZON-CLS-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C | 6.09.2022 | Demonstrator in the aluminium industry |
| 5 | HORIZON-CLS-2022-D4-01-05: Development of high temperature thermal storage for industrial applications | 6.09.2022 | Demonstrator in the aluminium industry |
| 5 | HORIZON-CLS-2021-D4-02-02: Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People) (IA) | 25.01.2022 | Developing new technology facades for buildings, prototyping and testing |
| 5 | HORIZON-CLS-2022-D2-01-05: Next generation technologies for High-performance and safe-by-design battery systems for transport and mobile applications (Batteries Partnership) | 6.09.2022 | -Aluminium foil developer for battery cells -Aluminium battery pack developer (has an on-going H2020 project about it) -Demonstrator for industrial energy storage |
| 5 | HORIZON-CLS-2021-D3-01-04: Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems | 19.10.2021 | Demonstrator from energy intensive industry |
| 5 | HORIZON-CLS-2022-D4-02-04: Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People) | 24.01.2023 | Predictive maintenance for manufacturing facility energy systems |
| 5 | HORIZON-CLS-2022-D4-02-01: Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People) | 24.01.2023 | Smart facades and windows with sensors to collect weather data |



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