



**BOZANKAYA RAIL SYSTEMS INC.CO.**

# Our History



**1989**

Bozankaya BCC&C was founded as an R&D company in Salzgitter, Germany



**2003**

Deciding to continue its investments in Turkey, Bozankaya A.Ş. continued its carbody production in Ankara.



**2005**

A rail system body production facility named Bozankaya LLC was established in Sacramento, USA.



**2018**

Turkey's first metro export was made to Bangkok, the capital of Thailand and the driverless metro project was funded by TÜBİTAK



**2016**

100% low-floor tram production started.



**2015**

A 100,000 m2 production facility was established in Ankara. Our R&D department was given the title of R&D Center by the Ministry of Industry and Technology.



**2013**

The first electric bus of Turkey and Germany and the first domestic 25 m trolleybus of Turkey were produced.



**2020**

100% low-floor trams were exported to the cities of Timisoara and Iași in Romania. The Timisoara Battery Powered Tram won the innovation award from ERCI in 2021.



**2023**

Turkey's first domestic driverless metro was delivered to Kocaeli.



**2023**

In the 100th anniversary of Turkey Republic, 100 Metro contracts were signed for Istanbul.



**2024**

Naples, Belgrade, Izmir and Samsun Tram contracts were signed.



Prague and Timisiora trolleybus contracts were signed.



# Our Capabilities

## Design

- Tram
- Metro
- E-Bus
- Trolleybus
- Bogie
- Carbody
- Inner & Outer Vehicle Parts (plastic, metal, composite etc.)
- Electrical Components (PCB Card, Inverter etc.)
- Chargers

## Manufacturing

- Total 200.000 sqm area
- Tram Units
- Metro Units
- E-Bus Units
- Trolleybus Units
- Bogie Units
- Carbody
- Chargers

## Testing

- Car Level
- Safety System
- Bogie Level
- Weighting
- Voltage
- Water Tightness
- Twist Clearance

## Service

- Effective and on-time
- Service network in different cities and Countries (Europe, Turkey, etc.)
- Qualified Personnel
- Diagnostic tools both hardware & software



# Our Capacity

Sub-component Production Plant			Electric Commercial Vehicles & Railway Systems Production Center			Metal Part Processing Plant	
Total Area	30.000 m²		100.000 m²			24.000 m²	
			5.000 m Linear Rail Track				
			10.000 m² Extension				
Closed Area	18.000 m²		60.000 m²			9.200 m²	
Product	E-bus	Railway System	E-bus	Tram	Metro	Bus Aluminium Parts	Rail Vehicles Aluminium Parts
Plant Capacity	17 cars/day	2 cars/day	1,2 cars/day	1 cars/day	1,2 cars/day	2,3 t/day	0,7 t/day
Employees	White Collar: 56		White Collar: 214 (150 in R&D)			White Collar: 24	
	Blue Collar: 488		Blue Collar: 431			Blue Collar: 98	
	Total: <u>544</u>		Total: <u>645</u>			Total: <u>122</u>	
TOTAL: <u>1311</u>							

# Sincan Production Plant



# Our Products

## E-Bus

- 100% Electric traction
- Length options: 10, 12, 18 & 25 meters
- Passenger capacity between 75 and 232
- ~300 Km range with a single charging



## Trolleybus

### «Trambus»

- High passenger capacity: 221 (for 25m length)
- Environmentally friendly
- with zero-emission
- Low consumption: 3kw/h for 25m with HVAC on
- Non-catenary driving option
- Length options: 12, 18 & 25 meters (for turnkey option)
- Low infrastructure cost



# Products



## Tram

- 100% low-floor design
- Award-winning battery powered tram with longest range in railway history
- High passenger capacity up to 300 passengers (for 32m length).
- Low energy consumption (2.4kWh/km), zero emission and modern design, offering space, comfort and safety
- Endurable, efficient and modular design

## Metro

- High passenger capacity: 1150 passengers (for 90m length)
- Unique design, offering safety and comfort
- Currently transports more than 1 million passengers/day; safely & efficiently



# Our Delivered National Projects



**KAYSERİ TRAM**



**MALATYA TRAMBUS**



**MANİSA E-BUS**

- Kayseri Tram (31 + 11 set)
- Antalya Tram
- Malatya Trolleybus (“Trambus”)
- Malatya Battery Powered Trolleybus(“Trambus”)
- Şanlıurfa Battery Powered Trolleybus (“Trambus”)
- İzmir E-bus
- Eskişehir E-bus
- Konya E-bus
- Elazığ E-bus
- Kayseri E-bus
- Manisa E-bus
- Ankara E-bus



# Ongoing National Projects



**İstanbul 100 Metro**



**Gebze – Darica Metro**

## Kocaeli Tram



## Samsun Tram



## İzmir Aliğa OSB E-Bus



## İzmir Tram



# Our Delivered International Projects



**BANGKOK**



**CANACH, LUXEMBOURG**



**HAMBURG**



**BREMEN**

- Bangkok GL Metro
- Bangkok BL Metro
- Iasi Tram
- Timisoara Battery Powered Tram
- Bad Langensalza E-bus
- Sylt E-bus
- Öhringen E-bus
- Aalen E-bus
- Salzgitter E-bus
- Wolfenbüttel E-bus
- Lübeck E-bus
- Echternach E-bus
- Burghausen E-bus
- Nordhausen E-bus
- Mainz E-bus
- Fulda E-bus
- Verden E-bus
- Helmstedt E-Bus
- Belgrad E-bus

# Ongoing International Projects



## Romania, Iasi Tram



## Romania, Timisoara Battery Powered Tram



## Italy, Naples Tram



## Sırbia, Belgrade Tram



BELGRADE

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## Romania, Timisoara Trolleybus



## Tailand Orangeline Metro



## Czech, Prague Trolleybus



# Carbody Production Projects

**Alstom Marseille Metro**



**Alstom Cologne Tram**



**Siemens Via Rail Coach Train Carbody**

**Siemens Brightline Coach Train Carbody**

**Siemens Amtrak Coach Train Carbody**

**Siemens Sydney Metro**

# Project Partners



**SIEMENS**

**BOMBARDIER**  
the evolution of mobility



**ALSTOM**

DAIMLER  
**EvoBus**

**STADLER**  
Cleverer Lösungen auf der Schiene

 **KARSAN**

  
**KNORR-BREMSE**

 **METRO  
İSTANBUL**

# Bozankaya R&D Center

**Commercialization of  
100% of Completed R&D  
Projects**

**36 R&D Projects in 10 years:**

- 13 TUBITAK
- 1 TTGV
- 21 Own Resources
- 1 ERA-NET Project

**Ongoing Project,**

- 2 Horizon EU
- 1 Horizon 2020
- 2 new approved Horizon EU
- 4 own sources

**160 Employees  
at the R&D Center**



**22 Academic  
Consultant from  
13 University**

**R&D Focused Human  
Resources and  
Knowledge**

**28 Design Registrations**

**5 Patents,  
24 Trademark  
Registrations,  
3 Utility Models**

# Our Completed R&D Projects



**Bogie Press**



**18 m E-Bus**



**Fixture Design**



**Smart Parking System**



**Charging Station**



**100% Low Floor Bogie**



**Local Metro**



**Fully autonomous Electric bus**



**25 m Trambus**



**VIP Bus**



**Diesel-Electric bus conversion project**



**100% Electric New Generation smart double-sided closed 25m bus**




**Local Tram**

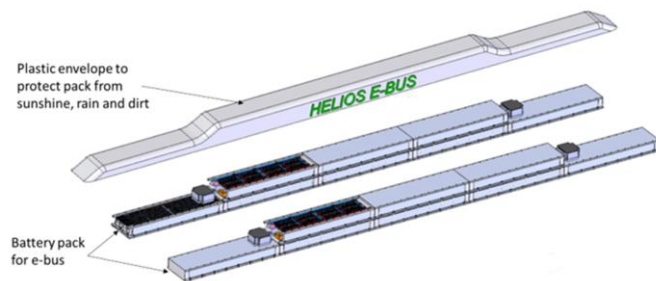


**CNG bus**



# Ongoing Horizon Europe Projects

Project name	Start Date	Finish Date
<b>HELIOS</b> High-pErformance moduLar battery packs for sustainable urban electrOmobility Services 	1.1.2021	31.08.2025





European  
Commission

★ Horizon Europe ★

# Ongoing Horizon Europe Projects

Project name

Start  
Date

Finish  
Date

**EXTENDED**

Next Generation of Multifunctional modular and scalable solid state batteries system



1.6.2023


31.6.2026



\*Bozankaya is member of BEPA



# Ongoing Horizon Europe Projects

Project name	Start Date	Finish Date
<b>SAFELOOP</b> Securely Advancing Future EVs with Li-IOn batteries through Optimized Pathways 	01.06.2024	01.06.2027







Horizon Europe

## Last updates!!!

In 2025, 2 new Project have been selected for funding under HORIZON-CL5-2024-D3-02-05 call

Project name	Start Date	Finish Date
<b>SUN-TRANS</b> Solar Urban e-Mobility Transition 	~January 2026	~January 2030
<b>SOLAR-MOVE</b> SOLAR Photovoltaic to MOVE for Systems Integration 	~January 2026	~July 2029



# Some Interested Batt4EU and 2Zero Calls-2025

ID	Call	Budget(€) (Per Project)	Total funding Project number	Action	TRL	Date
<b>HORIZON-CL5-2026-01-D2-01</b>	Development of Sustainable and Design-to-Cost Batteries with (Energy-)Efficient Manufacturing Processes and Based on Advanced and Safer Materials (Batt4EU Partnership)	24 M (8M)	3	IA	for Manganese - 6 for LMFP and Na-Ion -7	Opening: 16 Sep 2025 Deadline: 20 Jan 2026
<b>HORIZON-CL5-2026-01-D2-04</b>	Integrating advanced material, cell design and manufacturing development for high performance batteries aimed at mobility (Batt4EU Partnership)	30 M (10M)	2	RIA	5	Opening: 16 Sep 2025 Deadline: 20 Jan 2026
<b>HORIZON-CL5-2026-01-D2-05</b>	Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation(Batt4EU Partnership)	15 M (7,5 M)	2	IA	7	Opening: 16 Sep 2025 Deadline: 20 Jan 2026
<b>HORIZON-CL5-2025-01-D5-06</b>	Strategies, tools and concepts for optimised Battery Electric Vehicles (BEV) long-haul logistics use cases (2ZERO Partnership)	5 M	1	IA	7 8	Opening: 06 May 2025 Deadline: 04 Sep 2025
<b>HORIZON-CL5-2025-01-D5-02</b>	Cybersecure and resilient road e-mobility ecosystem (2ZERO Partnership)	10 M	1	IA	7	Opening: 06 May 2025 Deadline: 04 Sep 2025

# Some 2025 Interested Europe's Rail Calls-2025

CALL TOPIC	CALL NAME	OPENING DATE	DEADLINE	BUDGET (EURO)	NUMBER OF PROJECTS TO BE FUNDED	TRL	TYPE OF ACTION
<b>HORIZON-ER-JU-2025-FA1-TT-01</b>	Network management planning and control & Mobility Management in a multimodal environment and Digital Enablers	8.10.2025	11.02.2026	22,4 M	1	6, 8	IA
<b>HORIZON-ERJU-2025-FA2-01</b>	Digital & Automated up to Autonomous Train Operations	8.10.2025	11.02.2026	33,9 M	1	5, 8	IA
<b>HORIZON-ERJU-2025-FA3-01</b>	Intelligent & Integrated asset management	8.10.2025	11.02.2026	29,8 M	1	6, 8	IA
<b>HORIZON-ERJU-2025-FA4-01</b>	A sustainable and green rail system	8.10.2025	11.02.2026	21,3 M	1	6, 9	IA
<b>EURAIL-2025-FA5-01</b>	Sustainable Competitive Digital Green Rail Freight Services	8.10.2025	11.02.2026	14,7 M	1	5, 8	IA
<b>HORIZONER-JU-2025-EXPLR-01</b>	Studies on Rail Industry 5.0	8.10.2025	11.02.2026	0,6 M	1	1, 2	RIA



**THANK YOU...**

