

# ADELE ENERGY QAZAQSTAN

## Energy of the Future: Charging Infrastructure for Electric Vehicles





## About Adele Energy Qazaqstan

**Adele Energy Qazaqstan** is a Kazakhstani company engaged in the development, production, and operation of charging infrastructure for electric vehicles.

Since 2021, the **Adele Energy** brand has been delivering a **full cycle** — from equipment design and assembly to software development and management of its own EV charging network.

The company has localized **(over 70% of components)** in Kazakhstan and built a supply chain with European and Asian partners.





## Adele Energy product Line



**Adele Energy Qazaqstan** offers a full range of energy charging and storage solutions adapted for private, commercial and infrastructural tasks.

### **Nova - AC Station**

AC charging 7-22 kW



**Purpose:** private houses, offices, residential complexes  
**Features:** Built-in controller, authorization, OCP JSON support  
**Production:** TEKSAN factory (Almaty)

### **Quant - Fast DC**

DC charging 30 - 80 kW



**Purpose:** urban infrastructure, car dealerships, shopping malls  
**Features:** Fast charging, supports all standards (GB TDK, CS Combo 1-2, CHAdeMO, etc.)

**Production:** Plant S.M. Kirov (Petropavlovsk)

### **Foton - Ultra-fast DC**

DC charging 60 - 180 kW



**Purpose:** highways, transportation hubs, commercial fleet  
**Features:** modular architecture, vandal-proof housing, support for all protocols

**Production:** Plant S.M. Kirov (Petropavlovsk)

### **ESS - BrookStone**



**Purpose:** backup power supply, peak load smoothing, autonomous facilities

**Types of solutions:** home, commercial and industrial modular systems

**Integration:** compatible with charging stations and the Adele Cloud platform

**Production:** own indoor assembly in Almaty

**Private and public charging (1-8 hours)**

**Public slow and fast charging (0.5-3 hours)**

**Public fast and ultra-fast charging (15-60 min)**

**Energy storage systems (up to 1 MW)**

Adele Energy Qazaqstan is confident that its flexible charging systems provide the smartest, fastest and safest solution for charging electric vehicles. By creating a complete component supply chain, the company has established strong partnerships with global manufacturers, which provides additional reliability, increased security and protection.

The modular system with support for all charging protocols allows you to charge any electric vehicle in the world.



## Technological features of Adele Energy Qazaqstan

**Adele Energy Qazaqstan** develops and implements technologies that ensure high reliability, compatibility and ease of operation of charging and energy infrastructure.

### 1. Support all international charging standards

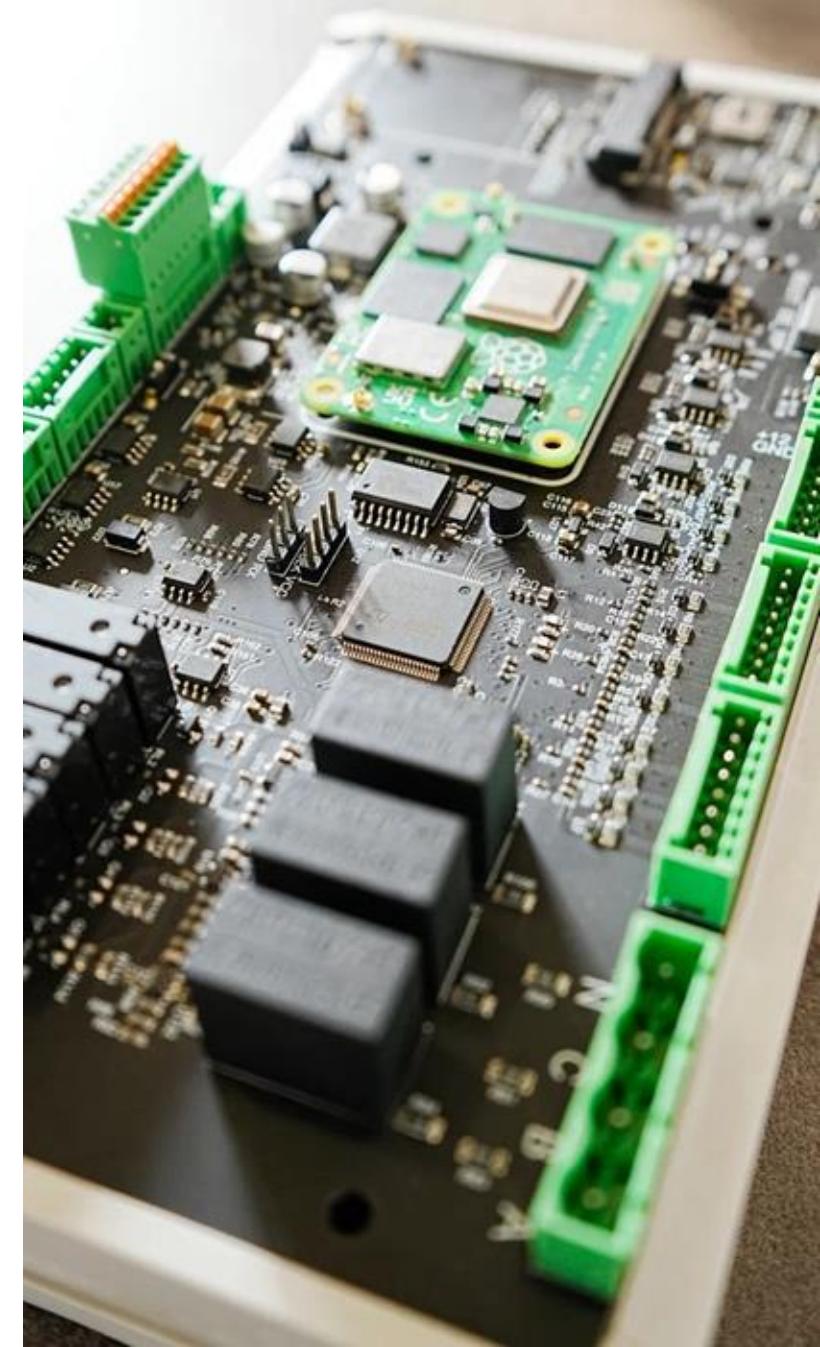
- CCS (Combo), CHAdeMO, GB/T, J1772, ISO 15118
- Flexible modular architecture — adaptable to any market and fleet

### 2. Own controllers and firmware

- Self-designed AC and DC station controllers
- Full control over the software — stability, scalability and security
- OCPP 1.6 and 2.0.1 support

### 3. Intelligent functions and remote control

- Adele Cloud platform: real-time monitoring, updates and diagnostics
- Parameter setting, billing, API for partners





## Technological features of Adele Energy Qazaqstan

### 4. Integration with energy storage systems (ESS)



- Support for hybrid scenarios: charging + storage + delivery to the network
- Compatible with our own line of batteries up to 1 MW

### 5. Reliability and protection

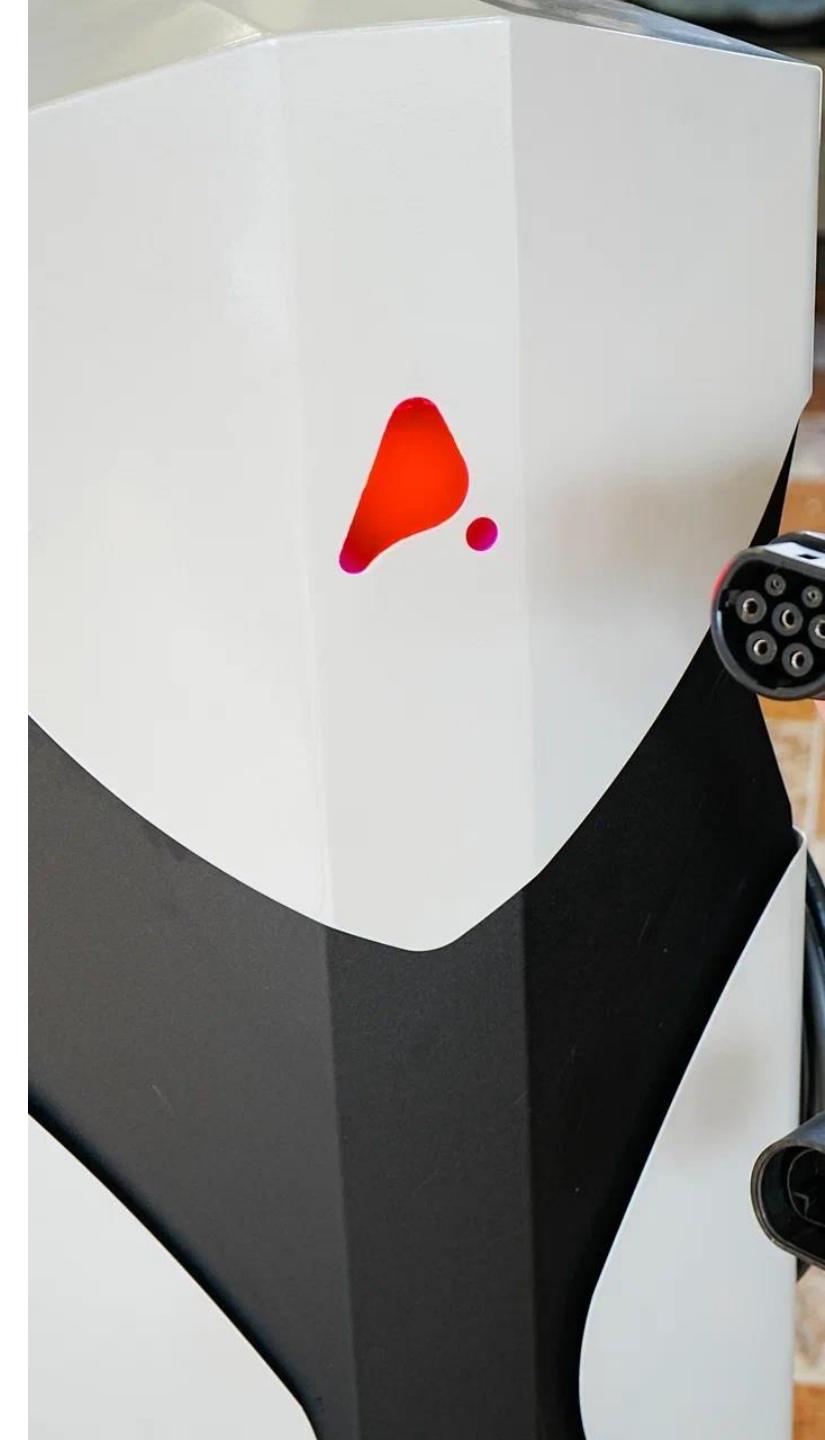


- Vandal-proof enclosures that meet the requirements for external installation
- Sophisticated cooling and thermal protection system
- Industrial components and high-quality materials

### 6. Localization and maintainability



- Use of domestic components and modular architecture
- The ability to quickly repair without replacing the entire station
- Reduced operating costs by more than **90%**





## Adele Energy Software

The Adele Energy ecosystem is its own digital solutions that combine charging infrastructure, payment, technical monitoring and partner functionality into a single platform. All software is developed and maintained by an internal team.

### Adele Cloud — cloud platform

- Monitoring, diagnostics, updates and analytics
- Centralized management of charging stations

### Adele Partners — partner account

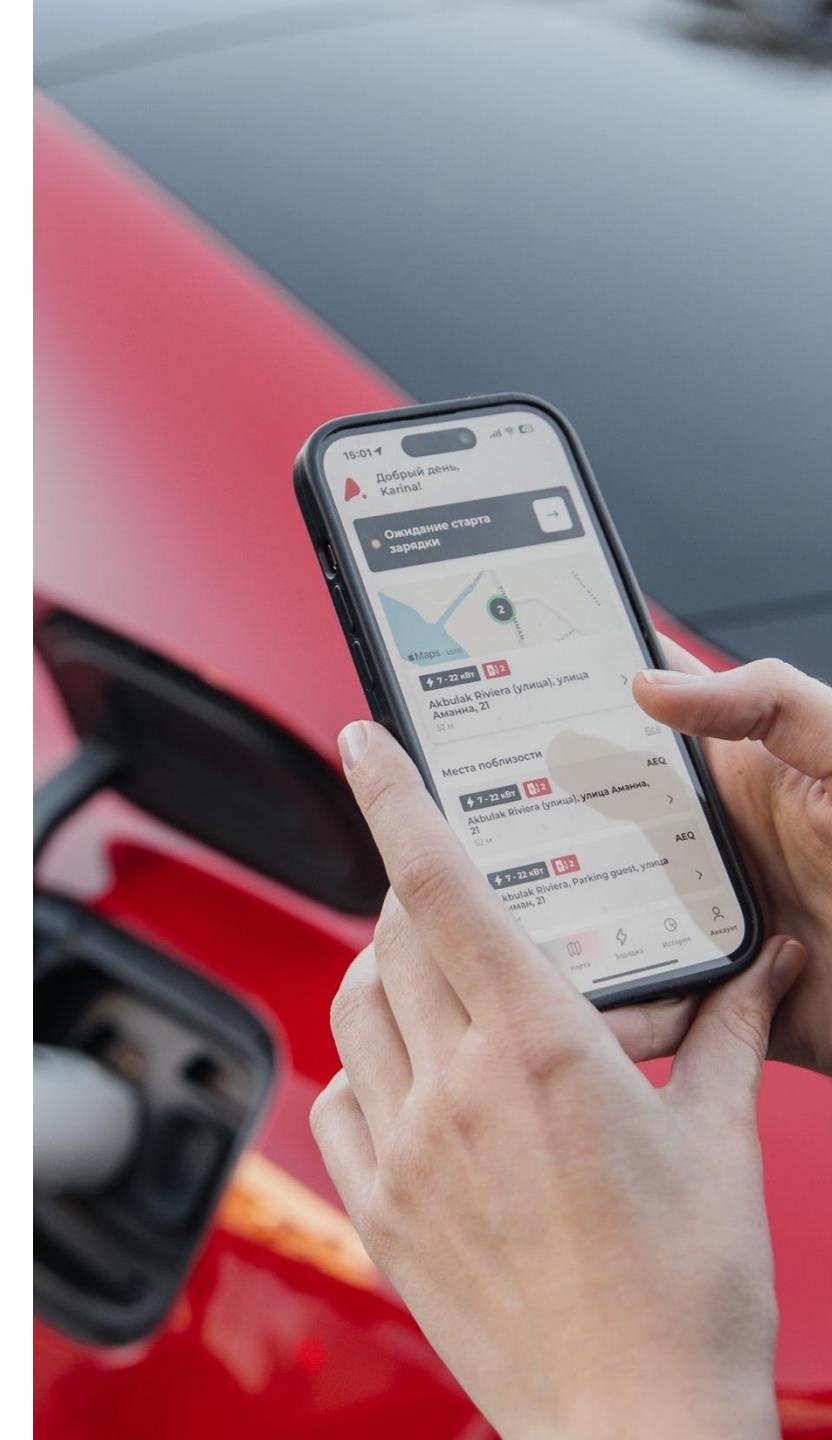
- Manage your own group of charging stations
- Setting up tariffs, tracking revenue and statistics

### Adele Management — technical interface

- Remote diagnostics, logging, and hardware configuration
- Tools for service engineers and contractors
- Monitoring of power supply, communication, temperature, etc.

### Adele Cloud Mobile App (iOS/Android)

- Search, navigate, start and finish charging
- Payment via Kaspi QR and bank cards
- Integration with parking lots — control of the barrier when charging
- Session history, bonus program, partner offers





# Adele Energy – Made in Qazaqstan

*We produce charging stations for electric vehicles*

**Full production cycle in Kazakhstan (more than 70% of components):**

1. Development (accredited by the Science Foundation of the Republic of Kazakhstan)
2. Production (200+ stations produced)
3. Software
4. Station network management

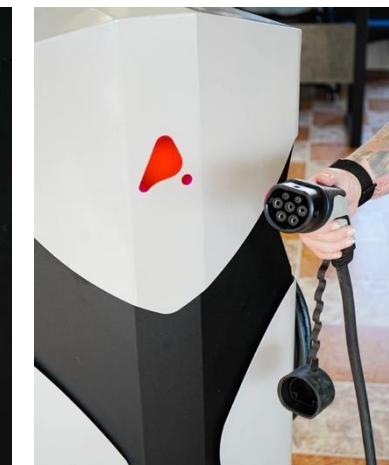
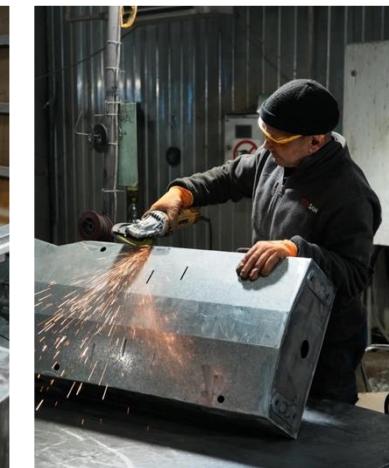
**Factories in two cities:**

Petropavlovsk: fast charging (DC) and production of circuit boards (Kirov Plant, **380-420 workplaces**)

Almaty: standard charging (AC) (TEKSAN factory, **150-200 workplaces**)

**The stations are already operating in Almaty and Astana.**

- **55** stations in Almaty
- **19** stations in Astana





# Our development plans

## 1. Strengthening our position in Kazakhstan

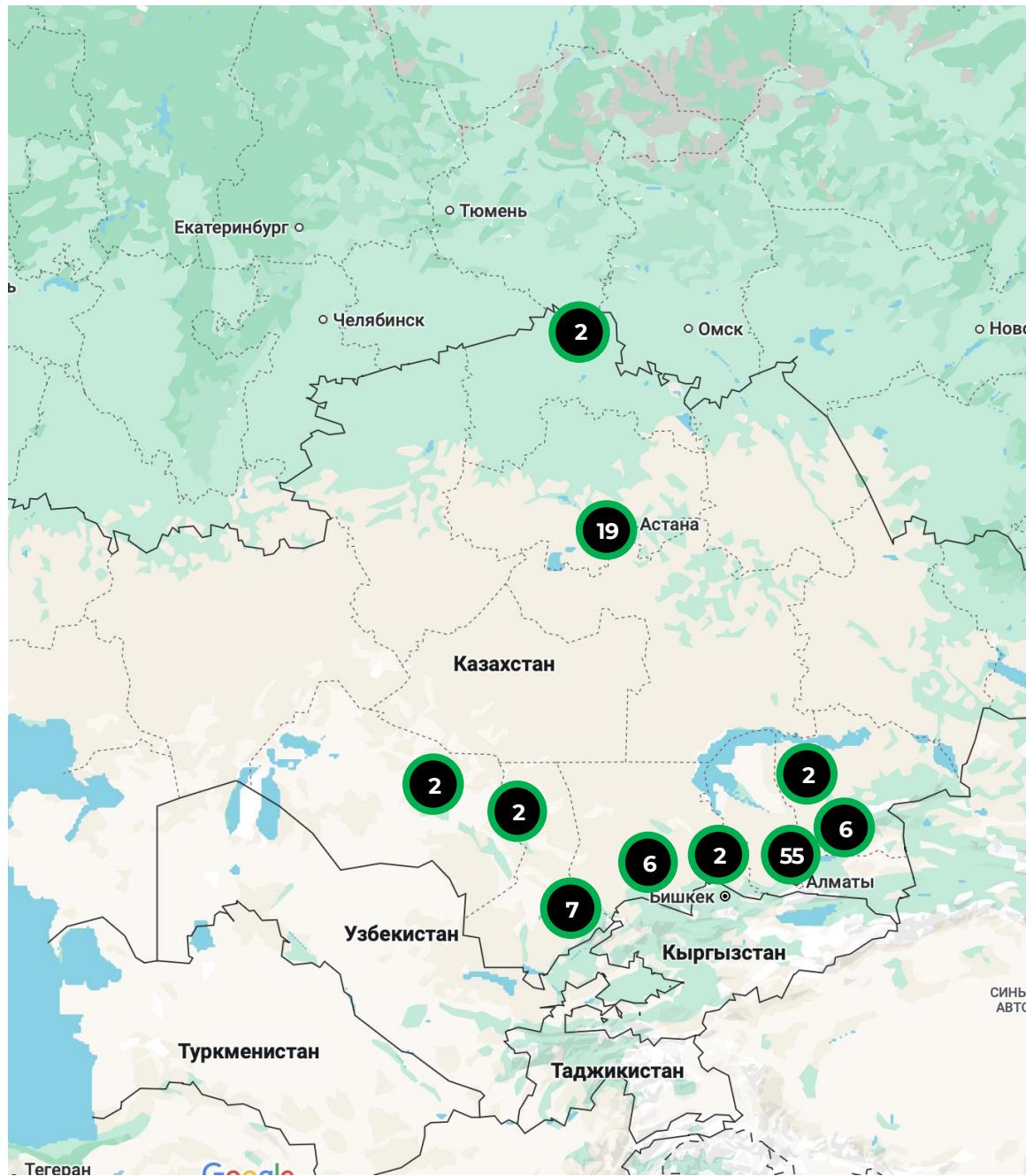
- Expansion of the network of stations in cities and on intercity routes
- Cooperation with developers, shopping malls, parking lots, gas stations

## 2. Geographical expansion

- Entering the markets of Uzbekistan, Kyrgyzstan, and Azerbaijan
- Localization according to the requirements, languages and payment systems of these countries

## 3. Development of the Adele Cloud platform and new products

- Expansion of Adele Cloud functionality for external operators
- Integration with roaming platforms so that drivers can charge through any application.
- New solutions for fleets, compact and autonomous stations





## We are supported by government agencies and large private companies.

**A memorandum of cooperation was signed with JSC NC KazMunayGas and Chevron, with the support of the Ministry of Energy Industry of the Republic of Kazakhstan**

- Technical specifications are being developed jointly with KazMunayGas.
- It is planned to attract investments from the Chevron Private Equity Fund to scale the network of charging stations.

### **Support and financing by the Science Foundation of the Republic of Kazakhstan**

- The company also received support from the Science Foundation and the Ministry of Education of the Republic of Kazakhstan — grants were provided for the development of technological solutions for Adele Energy.

### **Support from the city administrations of Almaty and Astana**

The akimats of the regions and the cities of Almaty and Astana provide support for project implementation within the framework of a protocol instruction from the Prime Minister of the Republic of Kazakhstan to support the national manufacturer.

### **Cooperation with construction companies**

- Charging stations are being installed at the sites of major construction companies — BI Group, Bazis-A, Highvill.



Министерство энергетики  
Республики Казахстан

ҚАЗАҚСТАН РЕСПУБЛИКАСЫ  
ҒЫЛЫМ ЖӘНЕ ЖОГАРЫ БІЛІМ  
МИНИСТРЛІГІ





# The professional team of Adele Energy Qazaqstan

The **Adele Energy Qazaqstan** team is a group of professionals with engineering, manufacturing, and IT expertise, independently developing, producing, and advancing charging and energy infrastructure.

	Ruslan Dyussenov – Founder Leads strategic development, product, team, and production.		Anatoliy Yeremin Director. Project management, operational processes, and partnership development.		Yuliya P. Financial control and document management.
	Alexander V. Full Stack Developer. Web services, partner dashboard, mobile application.		Alexander K. Project commercialization specialist.		Dmitriy M. Electronics Engineer. Hardware development for charging stations.
	Marat N. DevOps Engineer. Automation, infrastructure, CI/CD.		Sergey M. Mechanical Engineer. Development of enclosures, cooling systems, and mechanical components.		Andrey M. Embedded Developer. CHAdeMO, CCS, ISO 15118 protocols and controller firmware development.
	Madi Technical support and service maintenance.		Dmitriy V. Test Engineer, Quality Control.		Andrey Novosyolov Software Development and Integration with Information Systems (IS).

We combine multidisciplinary expertise and work as a unified team capable of creating high-tech solutions — from concept and design to hardware production, software development, and support of fully operational infrastructure.



## Adele Energy Qazaqstan – Evolution & Growth



2020	2022	2024
<ul style="list-style-type: none"><li>✓ Development of AC and DC charging stations was initiated with the involvement of engineers from the automotive and shipbuilding industries.</li></ul>	<ul style="list-style-type: none"><li>✓ Obtained EAC certification for the entire product line.</li><li>✓ Developed a new-generation controller for AC stations.</li><li>✓ Patents and certificates received from the National Institute of Intellectual Property of the Republic of Kazakhstan (NIIP).</li><li>✓ Implemented an in-house billing system.</li></ul>	<ul style="list-style-type: none"><li>✓ Confirmed status as a scientific and technical organization.</li><li>✓ Produced 155 charging stations.</li><li>✓ Acquired a company specializing in the development and production of energy storage systems (ESS).</li><li>✓ Expanded the team with engineers and energy storage specialists.</li></ul>
2021	2023	2025 (in progress)
<ul style="list-style-type: none"><li>✓ Launched in-house production of charging stations in Kazakhstan.</li><li>✓ Participated in EXPO Dubai 2020 in the Kazakhstan Pavilion.</li><li>✓ Introduced a line of AC/DC charging stations under the Adele Energy brand.</li></ul>	<ul style="list-style-type: none"><li>✓ Production of charging stations at TEKSAN.</li><li>✓ Launched the first EV charging network in the Republic of Kazakhstan.</li><li>✓ Received the ST-KZ certificate with over 70% localization.</li></ul>	<ul style="list-style-type: none"><li>✓ Expansion of production capacities.</li><li>✓ Development of an updated product line.</li><li>✓ Implementation of international roaming projects and launch of partner solutions.</li><li>✓ Further development of the EV charging network and digital management platforms.</li></ul>



# THE FUTURE HAS ARRIVED



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