

About DTEK Group

DTEK Group is fully owned by SCM, a leading investment company with equity interests in energy, metals & mining, telecommunications, banking, transportation, sport, real estate, trading, agriculture and other commercial sectors.

DTEK Group is the largest private investor in the energy sector in Ukraine with over \$11 bln invested capital since 2005, employing 55,000 people:

- Largest renewable company in Ukraine with 1.1 GW onshore wind and solar assets installed
- Largest private power generator in Ukraine with 19 TWh of electricity generated in 2022 (27 TWh in 2021)
- Largest power grid, distributing over 40% of Ukraine's electricity demand
- Trusted power and gas supplier with 3.5 mln customers served through 5.6 mln connections
- Largest privately-owned natural gas producer in Ukraine with 2.0 bcm produced in 2022

DTEK Group is actively expanding internationally, facilitating energy transition in Central, Southern and Eastern Europe:

- Active renewable developer in the EU with a target to operate 5.0 GW by 2030
- Leading asset-backed energy commodities trader with vast EU cross-border trade



Equipment manufacturing



Coal mining



Logistics



Thermal power generation



Renewables power generation



Oil & Gas



Electricity distribution



Customers



Trading



Service functions



Education



Digital solutions



COAL MINING

Hardware solutions

- Evacuation of personnel from the mine in case of destruction of lifting machines due to the enemy shelling
- Automatic control system of mining and excavation machines for the preparatory pits passage
- Technology for transport of the moistened mining mass
- System for mixing coals of different qualities
- Protective structures in the tunneling face
- Technologies for locating the wellheads of previously drilled exploration wells
- Innovative technologies for connecting rubber cloth belts
- Low-speed methane drainage units from worked-out areas of longwalls
- Using diesel locomotives as generators
- Solar systems instead of the mine boilers during the summertime
- Non-destructive testing of metallic castings
- Rock mass destruction technology

Priority

- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●

Software solutions

- Systems for the automatic recording of machine condition and causes of downtime
- Software to collect and transmit CH₄ readings on control equipment for timely reduction of shearer speed
- Automated equipment shutdown system
- Digital model for coal quality planning

Priority

- ● ●
- ● ●
- ● ●
- ● ●



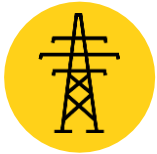
THERMAL POWER GENERATION

Hardware solutions

- Solution to protect equipment from drone attacks
- Diagnostics of pipe thickness of water economizer heating surfaces in hard-to-access areas
- Insulating material for sealing air leaks
- Advanced metal heat treatment technologies
- Diagnostics of metal wear in pipes
- Technology for preventing, cleaning, and de-slugging of the coal-fired boiler

Priority

- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●

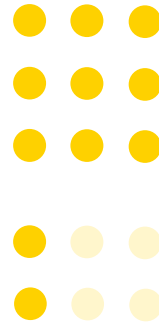


ELECTRICITY DISTRIBUTION

Hardware solutions

- Effect of the pulse generator on the smart meter operation
- Diagnostics of porcelain insulators
- Hardware and software for automatic data reading from electricity meters
- Mechanisms for protecting underground cable laying routes
- Deicing technologies for overhead electricity lines

Priority

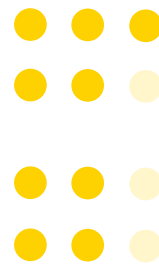


TRADING

Software solutions

- Energy storage utilization optimization solutions
- Flexible digital environment for rapid development of new solutions/algorithms/analyses
- Trading platform
- Energy commodity trading optimization solutions

Priority

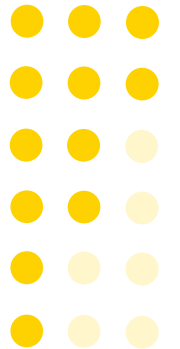


CUSTOMERS

Software solutions

- Home energy management software
- Paying electricity bills in cryptocurrency
- Hourly electricity consumption forecasting system
- Energy management system for business customers
- AI in chatbots and call-centers to process customer's requests
- Alternative financing of ESCO-projects

Priority

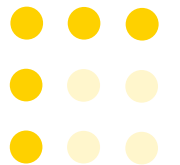


SERVICE FUNCTIONS

Hardware solutions

- Innovative glazing protection
- Glass or coating with varied light transmission for dimming out
- Info kiosk for accepting primary documents

Priority



Software solutions

- Facility service management system
- Business trip accounting solution





EDUCATION

Hardware solutions

- Mechatronics laboratory

Software solutions

- Online training platform (Learning Management System)
- Trainings for distribution system operator dispatchers
- Innovative concepts for Alumni Clubs
- Tool for modelling and predicting recommendations for users to build individual educational vectors
- New approaches to training processes in the market (EdTech, Edutainment, VR/AR)
- Mechanisms for assessing the staff training efficiency
- Gamification of the learning processes
- 3D AR training courses for miners-beginners

Priority

- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●



CROSS BUSINESS

Software solutions

- AI based grants scouting for the restoration and modernization of the energy sector
- AI based recommendations generation on Ukraine restoration, based on the example of previous wars and natural disasters
- AI based recommendations generation on major projects for modernizing the country's economy, based on retrospective information
- Influence of media and advertising activities on growth of brand recognition
- Smart patterns searching for project and product management artifacts
- AI tools for analyzing changes in both project and operational activities of the company
- Electronic digital signature management system
- Protection against malicious code written by OpenAI's GPT-based models class tools
- PowerPoint presentations automatic generation
- Voice robot/AI in SME sales
- Solutions for video presentations and animated videos with high-quality audio

Priority

- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●
- ● ●

