

Development of renewable energy projects.

TechnoGroupService LLP (hereinafter referred to as TGS, Partnership) is a Kazakh company specializing in the development, design, construction and operation of renewable energy sources (RES). In the Republic of Kazakhstan, TGS has designed, built and maintains a solar power plant with a capacity of more than 60 MW. For 2022 and 2023 TGS produced output from these power plants above planned levels. In the government decision-making process, Kazakhstan is implementing projects to build 70 MW solar power plants and 1000 MW wind power plants. (<https://tgs-energy.kz/index.php/ru/novosti/182-memorandum-o-sotrudnichestve-v-sfere-vie>).

Development of IT applications.

The partnership invests in the creation of IT programs that are in demand in the renewable energy market. Our system for forecasting electricity generation by RES stations Intech-Forecast becomes relevant for RES facilities in the conditions of the Balancing Electricity Market, as well as to ensure the sustainability of KEGOC JSC, which regulates the issues of integration of RES facilities into the UES of the Republic of Kazakhstan. The Intech-Forecast forecasting system itself, as well as the Green Light software, have export potential, which meets the task set by the President of Kazakhstan K. Tokayev for the domestic IT industry.

The international cooperation.

The partnership is implementing a project for the construction of a 50 MW solar power station "Kun Bulagy" with subsequent expansion to 300 MW in the Issyk-Kul region of the Kyrgyz Republic. (<https://www.kunbulagy.com/index.php/ru/>)

Also, projects for the construction of solar power plants with a total capacity of 1000 MW are being worked out with the Ministries of Energy and Industry of Azerbaijan, Tajikistan and Turkmenistan through the Embassies. The Minister of Foreign Affairs of the Republic of Kazakhstan M. Nurtleu expressed gratitude to the Partnership Partner Zh.B. Mominbaev. for the development of international cooperation in the field of renewable energy sources. (<https://tgs-energy.kz/index.php/ru/novosti/195-algys-khat>)

The Partnership adheres to international standards within the framework of corporate governance. An independent member of the Partnership's Supervisory Board is a prominent professor and practitioner in the field of Leadership and Entrepreneurship, Chester Borucci, who is a US citizen. (<https://tgs-energy.kz/index.php/ru/kompaniya/nablyudatelnyj-sovet>)

The partnership is also a partner of leading foreign companies in the field of renewable energy technologies, such as LONGi (photovoltaic modules), HUAWEI (inverter equipment and energy storage systems), TBEA (power transformers), etc.

Development of production of equipment for the renewable energy market.

As part of expanding the production of generation facilities in the power engineering industry, the Partnership is working to organize the production of photovoltaic modules, energy storage systems and metal sections of towers for wind turbines. Part of the production will be located on the site of the Free Economic Zone “Park of Innovative Technologies “Alatau”. TGS actively cooperates with the National Chamber of Entrepreneurs of the Republic of Kazakhstan “Atameken” in order to create conditions for the development of power engineering. (<https://tgs-energy.kz/index.php/ru/novosti/152-vstrecha-s-npp-atameken>)

Green finance development and financial status.

For the first time in the history of Kazakhstan, TGS plans to finance a Renewable Energy Project by issuing green bonds on the KASE stock exchange. Together with the International Finance Corporation (IFC) and the Kazakhstan Stock Exchange (KASE), the Partnership developed a Green Bond Framework and completed the development of a Second Party Opinion conducted by the Green Finance Center at the AIFC. (<https://tgs-energy.kz/index.php/ru/novosti?start=20>) The partnership is also working with financial consultant SBI to develop a prospectus for the issue of green bonds and further entry into the KASE exchange. The volume of the expected issue is 25 million US dollars with a circulation period of 3 years. Intended use - financing the construction of a 50 MW solar power plant in the Kyrgyz Republic. After the 50 MW SPP is put into operation, in agreement with the Eurasian Development Bank (EDB), the facility will be pledged to the Ministry of Finance of the Kyrgyz Republic and the EDB. The Ministry of Finance of the Kyrgyz Republic, represented by the Financial and Credit Fund, will issue a guarantee in favor of the EDB and the EDB will provide a long-term loan in the amount of \$22,050,000. These funds will be used to cover costs associated with financing the project and issuing green bonds.

Based on the results of activities for 2022, the Partnership paid taxes and fees in the amount of more than 2 million US dollars. The audited statements are attached. In 2022, the Partnership, for the first time in the financial market of Kazakhstan, financed a project for the construction of a solar power plant with a capacity of 50 MW through the issuance of an insurance policy as collateral.

Educational activities.

The Partnership is active both in the field of popularization of renewable energy technologies and in the professional training of young specialists for the renewable energy industry. Thus, the educational case of the Partnership “In search of the Blue ocean in Renewable energy sector of Kazakhstan”, created on real facts about the Partnership, was included in the list of internationally recommended cases for universities in the discipline “Entrepreneurship and Leadership” on the platform of the Case Study Center, London (<https://www.thecasecentre.org/>), and is also included in the list of cases (along with Apple, Toyota, Starbucks, etc.) in the MBA educational program of the Graduate School of Business of Nazarbayev University.

At the same time, Partner of the Partnership Mominbaev Zh.B. is the Chairman of the Industrial Committee of the School of Materials Science and Green Technologies of Kazakh-British Technical University JSC. (<https://tgs-energy.kz/index.php/ru/novosti/200-zasedanie-industrialnogo-komiteta>)

Social activity.

The partnership is a member of the RES Association “Qazaq Green” and the ALE “Kazakhstan Electric Power Association”. Within the framework of the association, TGS is implementing initiatives to comprehensively address the issues of developing “green” energy in the Republic of Kazakhstan and achieving carbon neutrality by 2060. Partner of the Partnership Mominbaev Zh. is a member of the Board of Directors of the RES Association “Qazaq Green”. (<https://qazaqgreen.kz/onas/>) Also, on September 12, 2023, Partner of the Partnership Mominbaev Zh. was invited to a meeting with the President of the Republic of Kazakhstan Tokayev K.K. as a representative of leading domestic business. (<https://tgs-energy.kz/index.php/ru/novosti/119-vstrecha-prezidenta-respubliki-kazakhstan-tokaeva-k-k-s-predstavatelyami-otechestvennogo-biznesa>)

Awards and participation in international exhibitions.

In 2021, the Partnership was awarded the Presidential Prize “Altyn Sapa” in the category “Best enterprise providing services” in the field of renewable energy sources. The Partnership is also a leader in the market for wind monitoring services (measuring wind energy potential) for wind power plant developers, including leading international companies.

Partner of the Partnership Zh.Mominbaev spoke at the 28th International Conference of the UN Framework Convention on Climate Change on December 3, 2023, which was held in Dubai, UAE. Zh.Mominbaev was among the invited speakers to speak at the “green” pitching for the countries of Central Asia on the topic: Investments in sustainable development and climate change resilience. (<https://tgs-energy.kz/index.php/ru/novosti/211-uchastie-v-investitsionnom-pitchinge-na-cop-28>)

The partnership officially took part in the international exhibition SPECA held from November 21 to 25, 2023 in Baku, presenting its own software “InTech-Forecast” and the renewable energy support service “GreenLight”. Throughout the exhibition, company representatives were actively working to promote renewable energy projects and expand the partner network. (<https://tgs-energy.kz/index.php/ru/novosti/202-uchastie-v-mezhdunarodnoj-vystavke-speca>)