

RahNoa Group

RahNoa Group has been operating since 2015 with the aim of developing energy production infrastructure in our beloved country of Iran and focusing on renewable energy in Khorasan Razavi province and operation of wind power projects in Khaaf town.

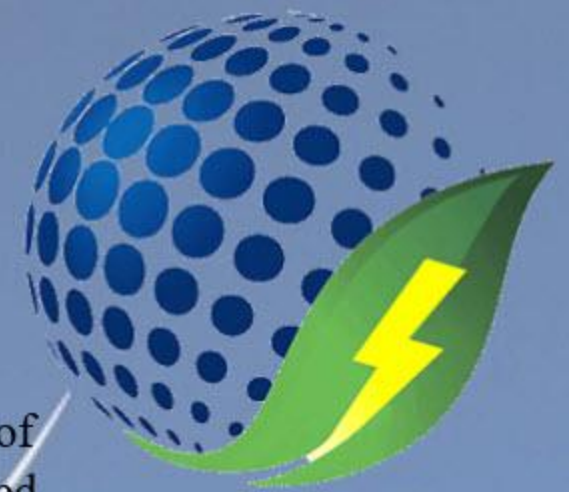
RahNoa Group has entered a less experienced position by breaking the monopoly of power plant projects. Using collective wisdom and Hiring specialized and committed personnel, this group has been able to carry out the most accurate research measures, including geological, anemometrical, climatic and topographical studies, selecting the appropriate site for the installation and operation of wind turbines.

This group has started its work and activity with a capacity of 15 specialized human resources in the office and corporate space with an area of 500 square meters.

So far, for almost 5 years, all technical-engineering and operational costs of installation and commissioning projects of 12 wind power plants (11 single-turbine power plants with less than 1 MW power and a 50-MW power plant including 20 units of 2.5 MW wind turbines) provided by shareholders and bank sources.

The 50 MW wind power plant of Padideh Marvzist

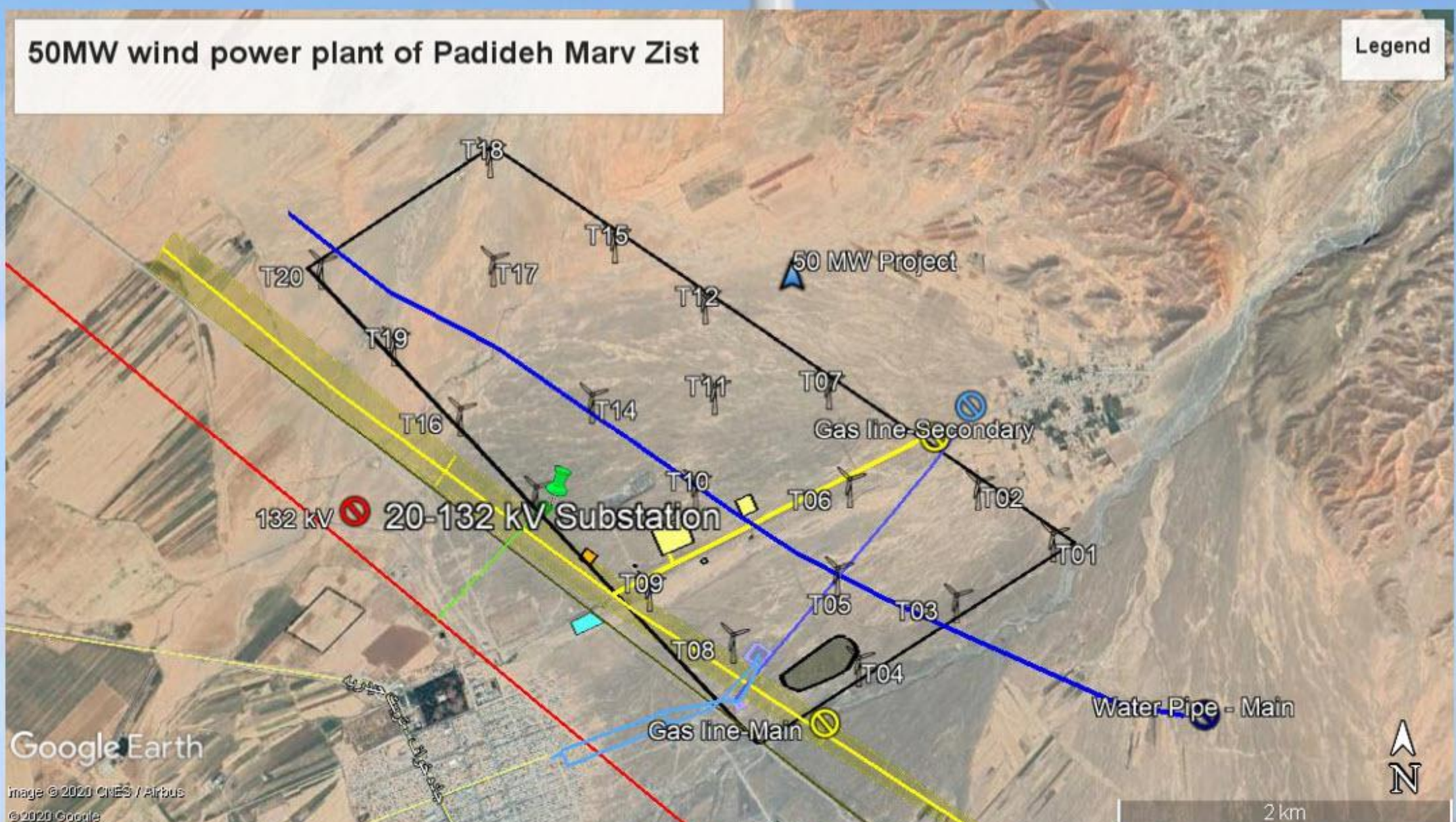
- This Group Has a power plant construction permit and a 20-year Renewable Purchase Obligation (RPO) with SATBA (Renewable Energy Organization) in the Ministry of Energy with a capacity of 50 MW, which is one of the largest private wind power plants.
- The power plant covers an area of 700 hectares, which is located in one of the best areas of the Khaaf wind corridor and close to the Salami dam.
- The altitude of the region is 1230 meters above sea level and it has cooler air, which is very suitable for the temperature control mechanism of the gearboxes.



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— Energy Holding —

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- Close to the rail transportation line and the high-voltage transmission line of 132 kV (700 meters), it has caused the generated electricity to enter the national grid with the least energy loss.
- Has a comprehensive study document of grid connection. Existence of 2 local 20 kV transmission lines in the project field to connect the first phase of the power plant with a capacity of 7.5 MW
- Obtaining all permit and expert inquiries from more than 21 government agencies and organizations
- has a document of anemometer studies and mapping of power plant site by the Technical and Specialized Consulting Committee.
- Has proforma from various companies in the world Mapna, XCMC, Enercon, vestas and Suzlon
- Has a study plan and expertise in repairs, maintenance and supply of wind farm parts with all technical documentation.
- This project has an approval of Currency exchange facilities in the amount of 67 million Euros from the National Development Fund of Iran and also has a Rials approved by the Bank Melli Iran and also this power plant is tax-exempt for 10 years.

660KW wind power plant in Khargerd

This project, which includes a 660-kW turbine unit, model S47 660 kW, is located near Khaaf city, near the area of Khargerd. All stages of development, obtaining permits, design and consulting of this project by the technical operational team of Sangbad Company began in 2017. This wind turbine was put into operation in June 2020.



Hybrid Energy Solution

intelligent integration of photovoltaics into diesel and energy storage systems to ensure a self-sufficient energy supply will perform by RahNoa Group.

August, 2020, Sangbad Bahman Shargh Company (subsidiary of RahNoa Group) officially signed a contract with China's Megarevo Company. Obtaining the agency agreement of the company's products in Iran. SangBaad with ESS and PCS product, first and foremost, and also with higher technology of cost-effective hybrid inverters and Grid inverters, is well able to provide power supply solution



Subsidiaries of RahNoa Group

Padideh MarvZist

Sangbaad Bahman Shargh

Nirogah Karafarinan

Dade Partaz Taratech

Sina Teb Iranian



Services

Consulting and feasibility study

- Site selection for constructing wind and solar plants
- Capacity measurement using field and library data
- Obtaining the feasibility study permit to issue an initial accord of construction
- Feasibility study and providing the needful reports

Completion of the required documents to contract Renewable Purchase Obligation (RPO)

- Completion of worksheets and requested documents of desiring power plants construction and following up the related approvals
- Obtaining plant construction permit
- Acquiring grid connection permit, environment permission, and land delivery permit from related authorities for all types of power plants
- Following and obtaining the confirmations from banks and financial institutions for the total or partial project finance

Locating the site and equipment power plant; and arranging the technical report of the power plant operation

- Anemometer data and solar radiation analysis of the power plant
- Providing the power plant generation table appropriate to technical specifications of the equipment and the power plant constructed site
- Determining the total capacity factor of the site by deducting losses and uncertainties

Performing economic studies and presenting the final report

- Investigating the price of the power plants equipment and maintenance and monitoring costs
- Investigating all pre-operational costs, including the cost of grid connection, costs natural resources, environment, etc.
- Determining tax and customs exemptions for sales of electricity and purchasing ingredients

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