

## 2 MW PV Power Plant of Iran's Leading EPC Contractor in Thermal Power Plants Construction (MAPNA Group)



Kahak / Qazvin / North of Iran



Project Description	
System Size	2 MWp
System Type	Grid Connected, Ground Mounted
Modules	Yingli Solar
Inverters	36 x 50 kW, SMA
Production	3540 MWh/Yr.
Client	Mapna Electric & Control Engineering & Manufacturing Co. (MECO)
Completion Date	September 2018

MECO is a member of a large family of MAPNA Group, Iran's largest power plant engineering, procurement and construction (EPC) contractor. MAPNA was interested in not only gas power plants but also intended to be one of the leading companies in investing in solar power plants. Electricity produced by the solar power plants is purchased by the government of Iran through a long-term power purchase agreement (PPA) with attractive prices. Namad Niroo, which has already been the contractor of a 20 MW PV power plant in southeast of Iran, is the civil, mechanical, and electrical contractor of this 2 MW project.



MAPNA's solar park is constructed beside its wind park.

### Challenges

- > Keep working at very high wind speeds at site and harsh environment such as heavy snow and hail.

### Solutions

- > Smooth project management to finish the job on time.
- > The PV power plant was installed and commissioned phase by phase to allow the client to sell power to the grid as soon as possible.



"Considering that this successful project is the first MW sized PV power plant in Qazvin region, this is certainly a promising beginning for the development of solar power plants in this part of the country", said Mr. Rezaei the project manager.

Works done by Namad Niroo Company:

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| <ul style="list-style-type: none"> <li>&gt; Site preparation</li> <li>&gt; Foundation of transformer station</li> <li>&gt; Perimeter fence procurement and installation</li> <li>&gt; PV modules structures and foundation installation</li> </ul> | <ul style="list-style-type: none"> <li>&gt; PV modules installation</li> <li>&gt; Transformer station installation</li> <li>&gt; DC and AC cabling</li> <li>&gt; Commissioning</li> </ul> |
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