

International Energy Investment Forum

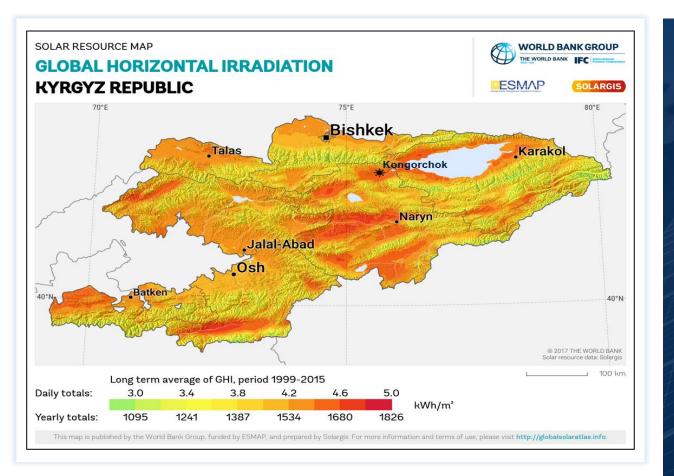
UNLOCKING THE INVESTMENT POTENTIAL FOR A GREENER FUTURE

Vienna, June 10-11, 2024



SOLAR PPP PROGRAM

WHY SOLAR ENERGY?



The Kyrgyzstan boasts about 2,600 hours of sunshine a year on average, and a yearly Global Horizontal Irradiation (GHI) of up to 1,700 kWh/m².

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Yet, it currently less than 1% of the country's electricity mix, leaving ample untapped potential.



There is a global trend towards solar PV price reduction, making it an affordable generation option.



The implementation timeline of solar PV is generally shorter than other technologies, making it complementary to hydropower development.



The main challenge lies in identifying suitable sites considering the mountainous geography of the Kyrgyzstan, grid capacity, population centers, arable land and other relevant factors.

- The National Development Strategy for 2018-2040 sets a target of at least 10% of renewable (other than hydro).
- ~700 MW of solar is considered under the preferred generation expansion scenario in the country's Energy Sector Master Plan from March 2022.

9.1 SOLAR PPP ROUND 1

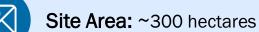
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SOLAR PPP ROUND 1 – PROJECT SITE (KONGORCHOK)



Location: Kochkor district, Naryn region



Grid Connection: NEGK 220 kV Kemin-Ak Kya line



Connection Line: 13 km @220 kV



Installed Capacity: 100 to 150 MW, left to bidders to optimize within the site boundaries



Terrain: Flat, pastureland, south-facing

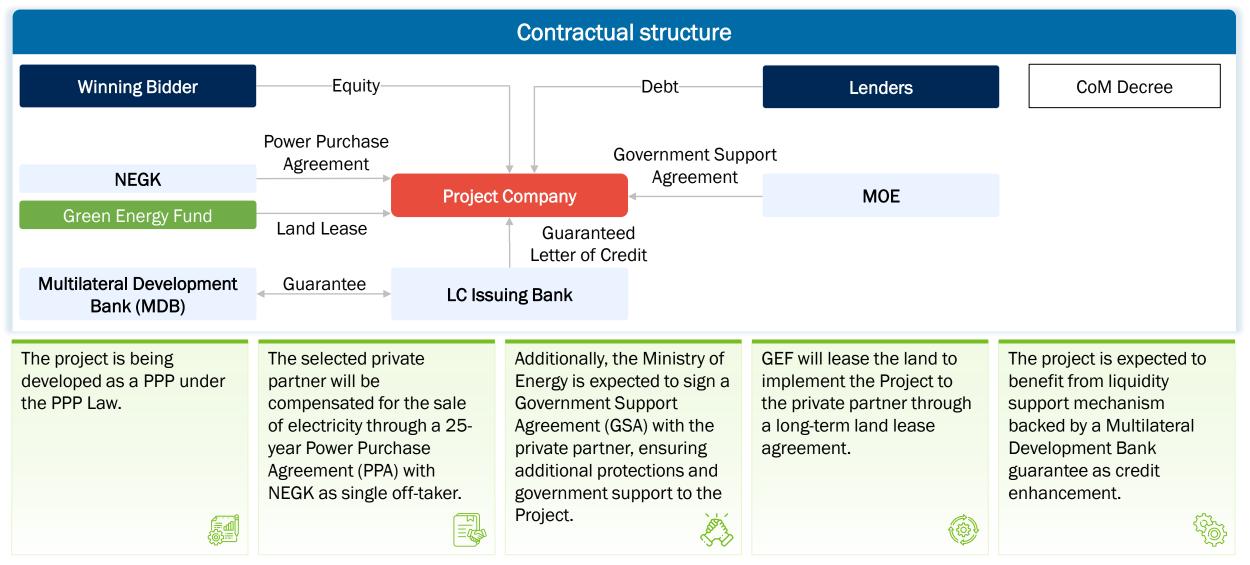
Solar Irradiation: 1,678 kWh/m²/year



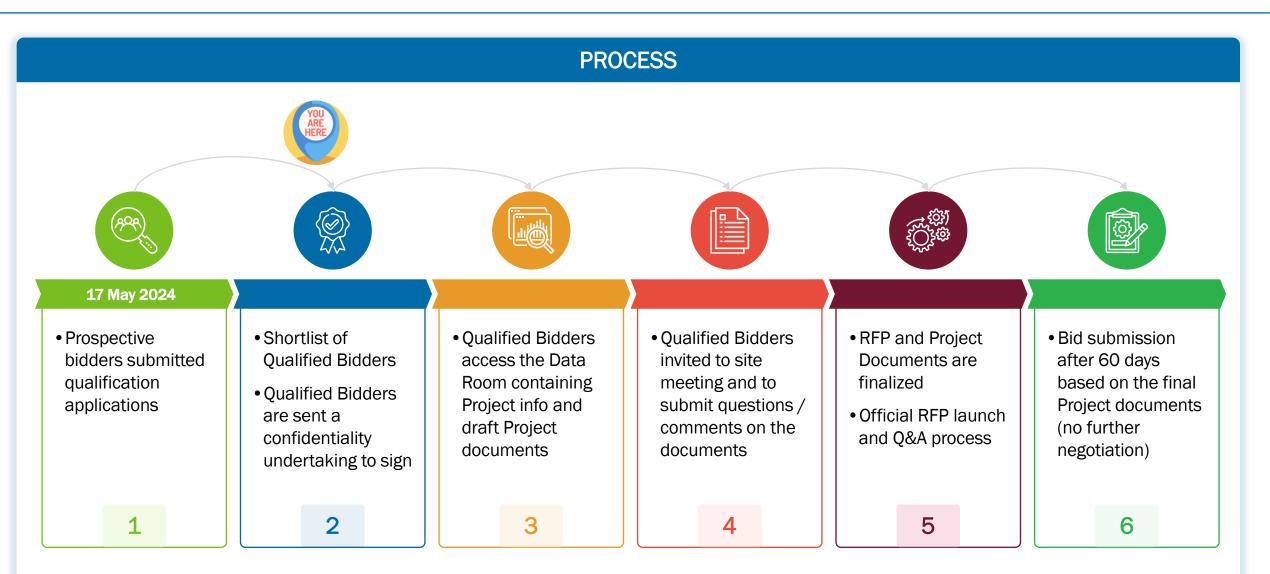


Sources: Internal Data

SOLAR PPP ROUND 1 – PROJECT STRUCTURE



SOLAR PPP ROUND 1 – TENDER PROCESS



SOLAR PPP ROUND 1 – TENDER STATUS & NEXT STEPS

TENDER MILESTONES & TARGET DATES



The Request for Qualification was launched on $18^{\rm th}$ March 2024 and closed on $17^{\rm th}$ May 2024.



Four applications were received from reputable international investors.



The evaluation is under way and the Request for Proposals (RFP) process is expected to start shortly after it is complete.

Envisaged timeline is as follows:

MILESTONE	TARGET DATE
RFQ issued	18 March 2024
Qualification Application Submission Deadline	17 May 2024
Announcement of Qualified Bidders	End of May 2024
Start of the RFP process	June-July 2024
Execution of Project agreements	Q4 2024
Financial Close	Q1 2025
Commercial Operations	Q1 2026

PROJECT MILESTONES

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- Site allocated to the Project after screening five locations
- Capacity reserved by NEGK on the grid
- Approved PPP Proposal
- Detailed site investigations including topographic, hydrological, geotechnical, archeological, site infrastructure and access, climate change assessment
- Environmental & Social Scoping Study
- Grid studies in final stage
- Legal due diligence
- Pre-requisites to land transformation
- Draft project documents in discussion
- Tender Commission appointed
- Four qualification applications received

9.2 SOLAR PPP ROUND 2

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SOLAR PPP ROUND 2 – OVERVIEW

STATUS AND OVERVIEW



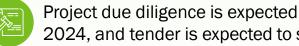
The Ministry of Energy and Ministry of Economy are in advanced stage of discussion with IFC on the following tender round, expected to be for two sites of ~150 MW each

Site identification has been carried out, leading to candidate sites being identified in Batken and Talas Regions. This is subject to confirmation based on detailed assessment and approvals

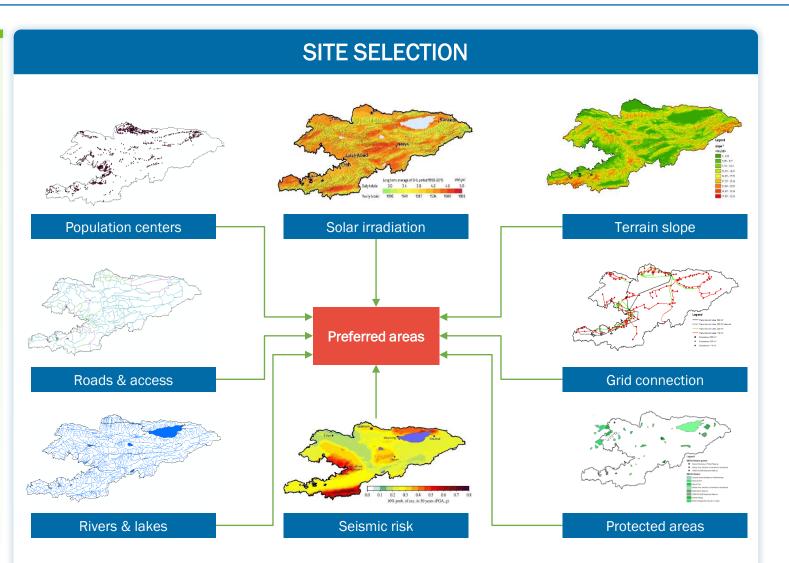
Detailed site investigations will be conducted, who are expected to form part of the same tender



Project structure will replicate the Solar Round 1



Project due diligence is expected to start in Q3 2024, and tender is expected to start in 2025



SOLAR PPP ROUND 2 – POTENTIAL PROJECT SITE (ALGA)



Location: Kadamjay district, Batken region



Site Area: ~300 hectares



Grid Connection: NEGK 500 kV network

Connection Line: 2 - 3 km



Installed Capacity: 100 to 150 MW

Terrain: Flat, barren land







Sources: Internal Data

SOLAR PPP ROUND 2 – POTENTIAL PROJECT SITE (TALAS)



Location: Talas district, Talas region



Site Area: ~450 hectares



Grid Connection: NEGK 220/110 kV Semetei substation



Connection Line: ~5 km



Installed Capacity: 100 to 150 MW



Solar Irradiation: 1,616 kWh/m²/year





Sources: Internal Data

SOLAR PPP ROUND 2 – PROPOSED ROADMAP

