

Credit Enhancement in Renewable Energy PPP Projects 2023 CAREC Energy Investment Forum

29 November 2023



Agenda

I. ADB Guarantee Products for PPPs

II. Case Study on Uzbekistan's Solar PPP Program (Guaranteed Letter of Credit)



ADB Guarantee Products

- I. Partial Risk Guarantee
- II. Partial Credit Guarantee
- III. Guaranteed Letter of Credit



ADB Guarantee Products

Public Sector window - With sovereign counter indemnity to ADB

- The sovereign counter indemnity provides ADB with direct recourse to the host government in case a claim is paid under an ADB guarantee
- In case the host country does not repay ADB as per the terms of the counter indemnity, ADB has the right to call an EoD under its sovereign loan portfolio to the host country
- Policy based pricing
- No exposure limits

Private Sector Window - Without sovereign counter indemnity to ADB

- Guarantees priced at market
- Exposure limits apply
- No sovereign counter indemnity

In both cases an annual guarantee fee and guarantee commitment fee are charged, and an 'anchor' is required

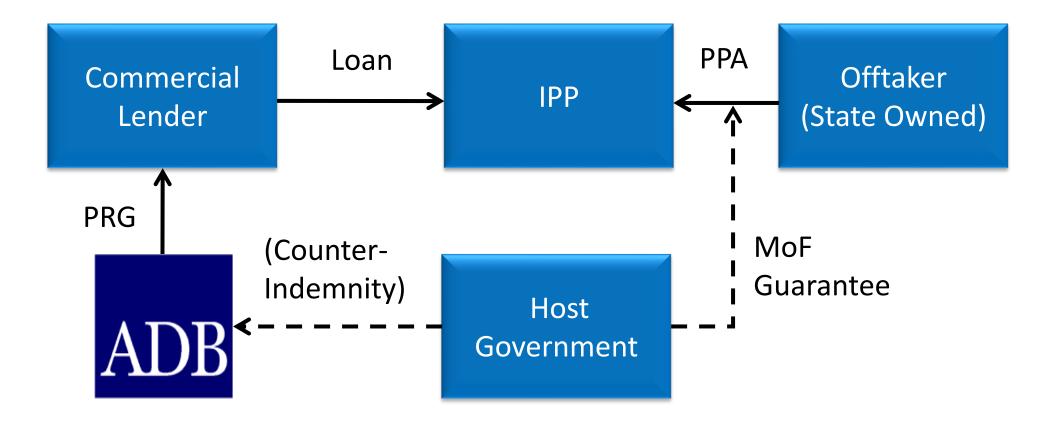
Partial Risk Guarantees – Risks and Rationale

- **Risks** covered by PRGs are as follows.
 - ✓ Transfer Restriction (Inability to convert or transfer currency)
 - ✓ Expropriation
 - ✓ Political Violence
 - ✓ Breach of Contract (arbitral award default and denial of recourse)
- The first three risks are classic political risks. If there is a risk that the contracting entity (agency or SOE) may not honor its contractual obligations, then breach of contract cover is needed
- **Rationale:** A partial risk guarantee is typically used <u>when the project is</u> <u>commercially viable, but the political risks deter lenders</u>.
- For places with political instability

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• **Guaranteed percentage**: between 95 and 99% (lenders are required to have some portion uncovered)

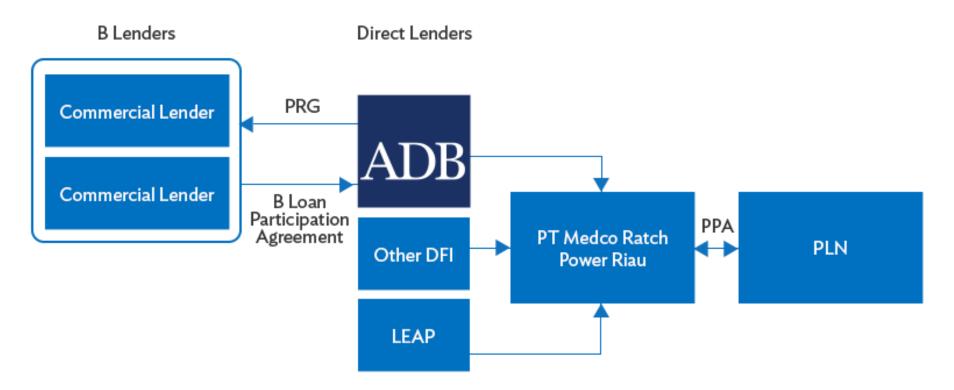
Typical Partial Risk Guarantee Structure



• Guaranteed percentage: between 95 and 99%

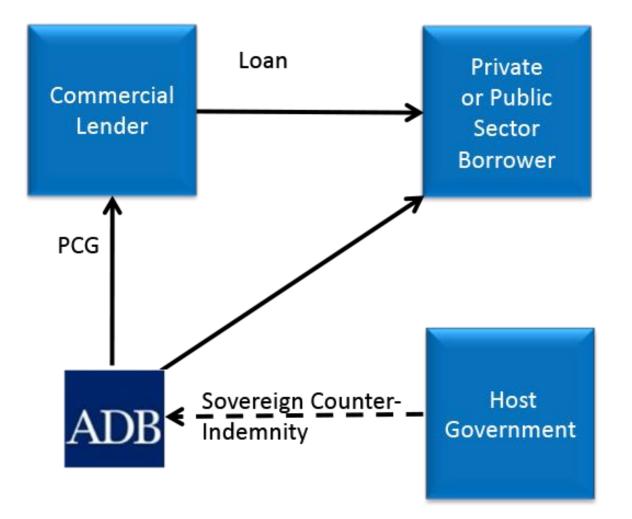
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PRG: Riau Natural Gas Power Project (Indonesia)



- <u>Competitively awarded independent power project</u> (275 MW combined cycle gas-fired project) in Indonesia adhering to international best practices
- Sponsors: PT Medco Power Indonesia and Ratchaburi Electricity Generating Holding
- ADB PRG Covered Lenders: Sumitomo Mitsui Banking Corp. and MUFG Bank
- ADB's first PRG in Indonesia covering Breach of Contract by PLN without Gol guarantee

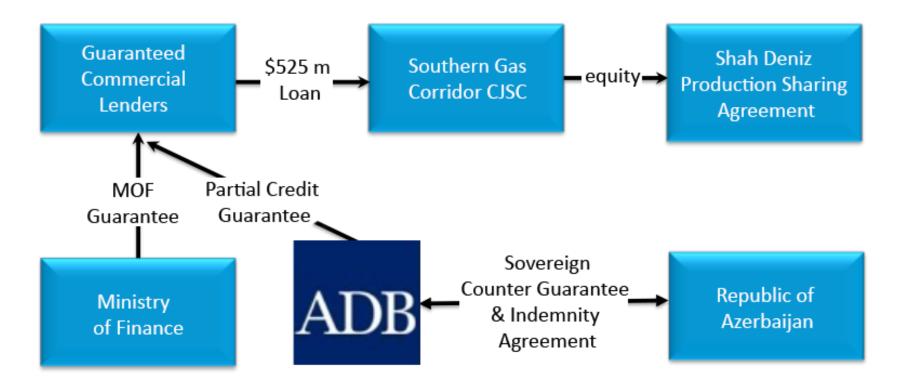
Typical Partial Credit Guarantee Structure



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PCG: Southern Gas Corridor (Azerbaijan, 2017)

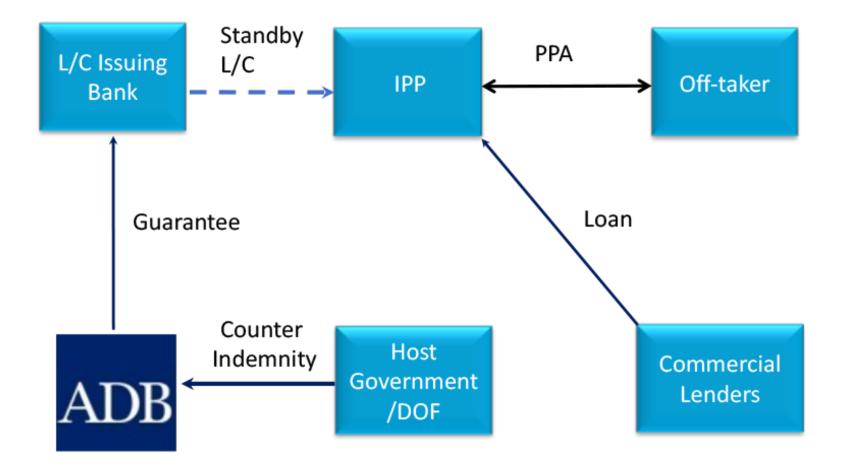


- **ADB's PCG** supported a \$525 million loan facility to Southern Gas Corridor CJSC backed by a counterguarantee and indemnity agreement.
- **Covered Risk:** ADB's PCG covered the risk that the Ministry of Finance would not honor its sovereign obligation to repay the lenders in case of a missed payment of principal, interest or guarantee fees.
- **Benefits**: All-in costs of the commercial bank loans were be reduced, and Tenor was increased thereby improving the viability of the project

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Guaranteed Letter of Credit



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Uzbekistan Solar PPP Program: Rationale and Drivers

Issues

- Heavy reliance on fossil fuel call for a shift to deployment of renewables at scale
- \$40 billion investment needs by 2030 for modernizing power infrastructure and meeting fastgrowing power demand
- Low creditworthiness of the state-owned off-taker JSC NEGU, along with virtually non-existent track record with private sector projects, is the key stumbling block.

Main Drivers for Project

- Government's strong commitment for macro-economic reforms, and to seeking high economic efficiency and private sector participation in power sector
- Well aligned with the Government's power sector development plan to deploy renewable energy project at scale
- Climate commitment under the Paris Agreement and energy strategy to diversify sources using renewables on a large scale
- One ADB collaboration provides tailored one-stop-shop solutions to address various sector challenges

ADB Support for Solar PPP Program

ADB pioneered solar energy development in Uzbekistan

- ADB pioneered solar energy development in UZB since 2011 and developed a solar development roadmap with candidate project sites identified
- ADB supported power sector masterplan (2019) triggered a shift to more diversified and renewable energy-based energy mix for 2030

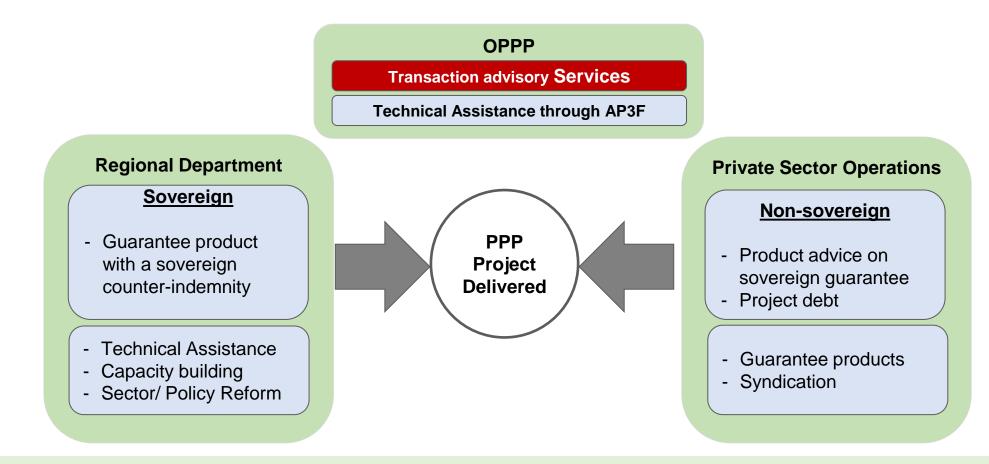
Upstream policy interventions in the sector restructuring and regulatory reforms

- Sector reform supported by ADB, EBRD, and World Bank enabled the entry of private sector partners into Uzbekistan's power sector
- Improvement and strengthening of regulatory framework and policy direction (refinement of PPP Law) has formulated enabling environments for the private sector investments.

Downstream One ADB solutions to address various sector challenges

- Mainstreaming of transaction structure for replication in the subsequent projects
- One ADB Package Deal transaction advisory + sovereign supported products and supporting infrastructure development + non-sovereign financing

One ADB Approach in Program



One ADB Approach -

Office of PPP: For development of PPP projects, OPPP funds project selection activity, feasibility study, drafting of concession agreement, etc. For select projects and upon request of government and private sector, OPPP advises the client on bankability issues, tender and financial closing.

Regional Department: Provides government and government-owned entities technical assistance for capacity building, sector and policy reforms. Based on counterindemnity of sovereign, lends to a project or implementation agency. Debt may be subordinated to attract commercial lenders.

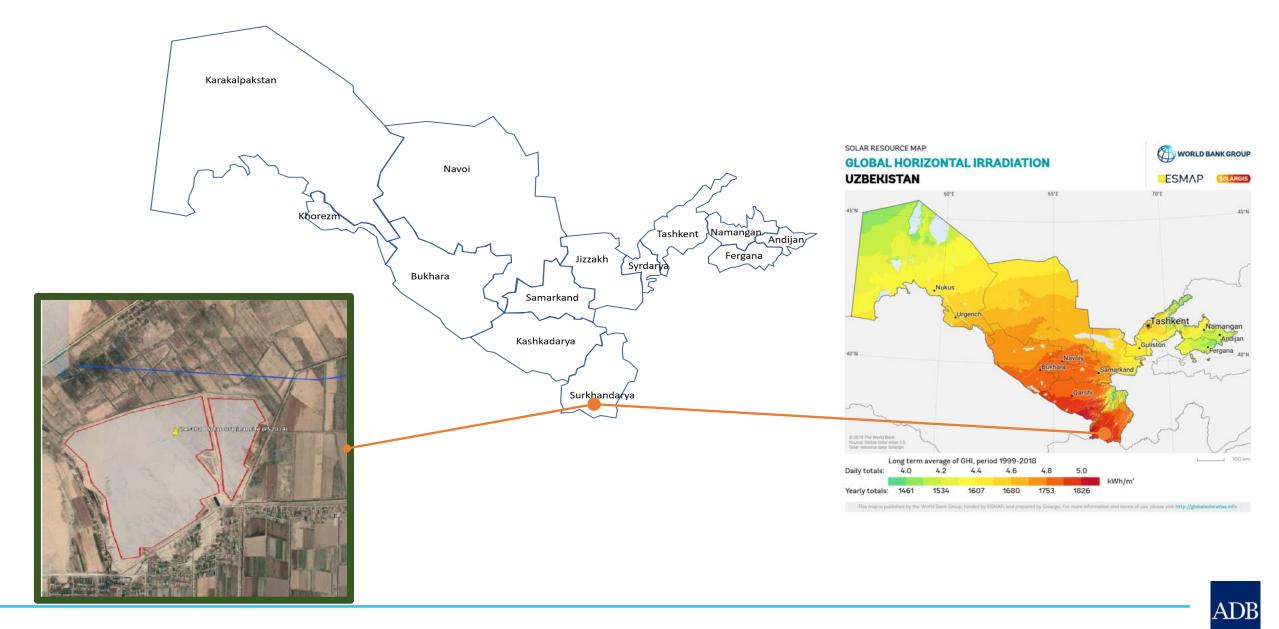
PSOD: As a non-sovereign lending arm of ADB, PSOD finances PPP project through project and/or corporate loan and invests in equity for qualified projects. PSOD also provides political risk and credit enhancement guarantees and offer syndication services.

Sherabad Solar Project (Initial Design)

ltem	Description
Location	Sherabad, Surkhandarya region
Total area	600 ha
Capacity	Minimum 200 MW
Estimated generation	Minimum 459 GWh per annum
Contractual Arrangement	25 year "take-or-pay" power purchase agreement, investment agreement, land lease contract
Estimated Total project cost	\$ 190 million
Target COD	December 2021
Project Type	BOO or BOOT by private sector
Unique Feature	Including substation/transmission line development and transfer the ownership to the state upon completion

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Sherabad Solar Project (Initial Design)



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Off-taker Risk and Solution

Issue: Offtaker Risk	Solution: Credit Enhancement Mechanism
• JSC NEGU is the off-taker under 25-year PPA.	 Government credit support: Credit support is needed in order for the off-taker (JSC NEGU) to maintain Project's bankability.
 JSC NEGU was established in 2019 as a result of unbundling of Uzbekenergo. 	PCG to L/C bank with Sovereign Counterindemnity - PCG to cover a letter of credit issued by a commercial bank in favor of the solar project company (IPP).
 Currently, JSC NEGU's revenue is transferred from the total revenue collected on a fixed percentage basis. 	 ✓ L/C will support the payment obligations of JSC NEGU to the IPP under the Power Purchase Agreement (PPA).
 Given the above issues, the Offtaker Risk of JSC NEGU may be perceived as HIGH. 	 L/C, with a PCG covered by ADB's AAA rating, will provide comfort to investors by mitigating payment risks

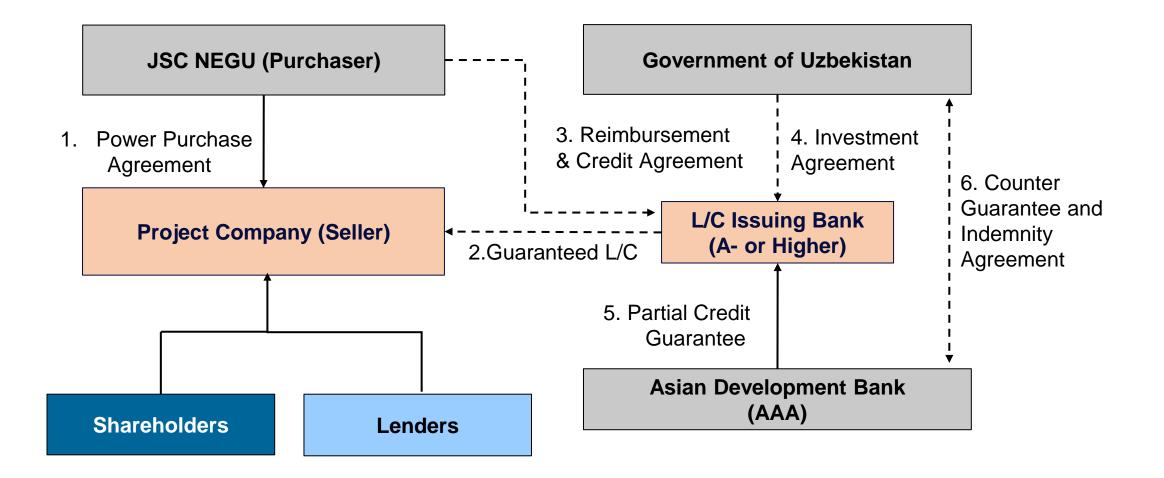
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Credit Enhancement Mechanism

- **1. Off-taker/GCA** defaults in a payment obligation
- 2. Project Company draws on the Standby Letter of Credit (L/C)
- **3. L/C Issuing Bank** will then seek reimbursement from **Off-taker/GCA.** Reimbursement period of [12 months] commences. If **Off-taker or Government** pays within reimbursement period [12 months], then the L/C is reinstated, and no further action is taken.
- 4. If **Off-taker or Government** does not pay within reimbursement period [12 months], then **ADB** pays the **L/C Bank** under the Partial Credit Guarantee
- **5. ADB** triggers the counter-guarantee and indemnity and discusses remedies with **Government**. ADB has the same rights under its counter-guarantee as it does under its sovereign lending agreements.

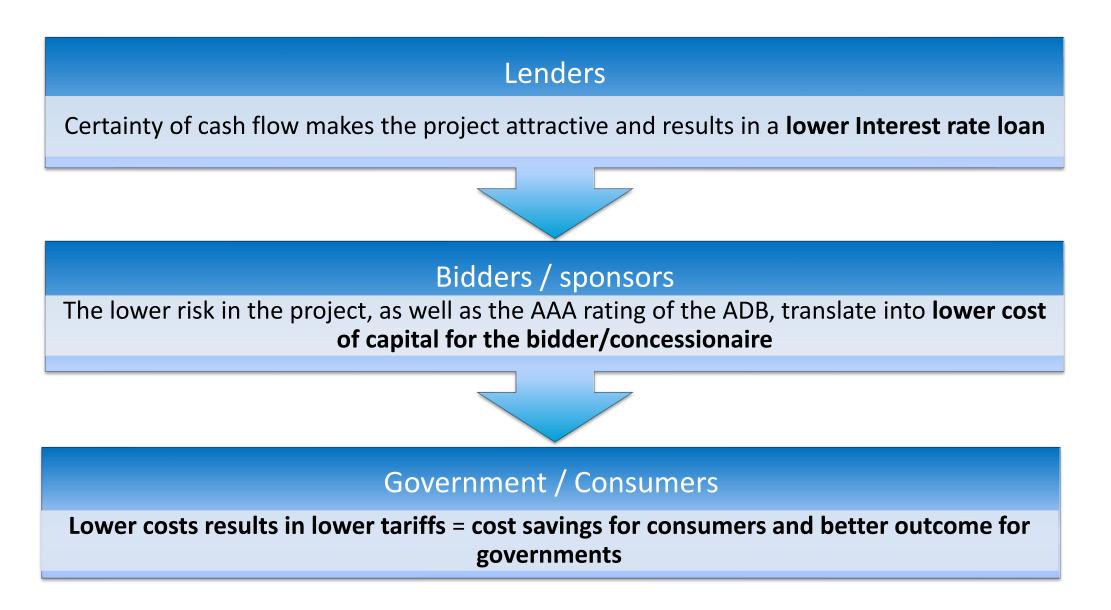


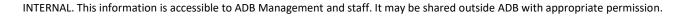
Credit Enhancement Mechanism: Sherabad Solar





Credit Enhancement Mechanism: Benefits

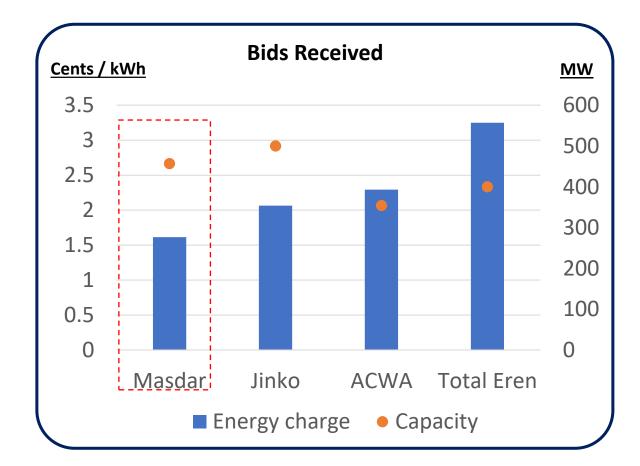




Lessons learned

Project result demonstrates...

- Involvement of renowned private sponsors, contractors and lenders means projects incorporate international best practices making projects much more robust and reliable
- well-structured tender with bankable PPAs results in true price discovery and better terms for the off-taker although this mainly depends on the PPA bankability, resource abundance, land availability, regulatory certainty and off-taker credit rating
- Additional optimizations such as the inclusion of a credit enhancement mechanism and public support for public infrastructure significantly improves the attractiveness of projects for the private sector and, hence, deliver better results for the buyer of power



* Exclusive of transmission component



Could this mechanism be applied in other sectors?

This structure is needed commercially under the following conditions:

- Perception of weak offtaker or government contracting agency by the market
- ✓ Newer projects/ first in kind, developing market
- ✓ Government is willing to have a sovereign undertaking for the project
- ✓ Government credit rating is weak
- Project is commercially viable!! This is not a band-aid that can be applied to an unattractive PPP.

Examples of other sectors where this can be applied:

- Road projects with availability payments an LC can backstop government's payment obligations
- Water Supply or Wastewater Treatment when there is an offtake arrangement for wastewater or bulk water supply

Comprehensive sector intervention needs to be considered

• Formulating enabling regulatory framework and addressing fundamental underlying SOE's offtaking risks need to be carefully addressed.

Thank You!

Q&A

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