



Potential Solar PV PPP Projects for Investment in Bangladesh



Dr. Md. Mushfiqur Rahman
Chief Executive Officer (Secretary)
Public Private Partnership (PPP) Authority
Prime Minister's Office, Bangladesh

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PRESENTATION OUTLINE



OUTLINE



- 01** Public - Private Partnership in Bangladesh : At a glance
- 02** Status of Renewable Energy in Bangladesh
- 03** Project profile of a Solar Power Plant under PPP
- 04** Way forward



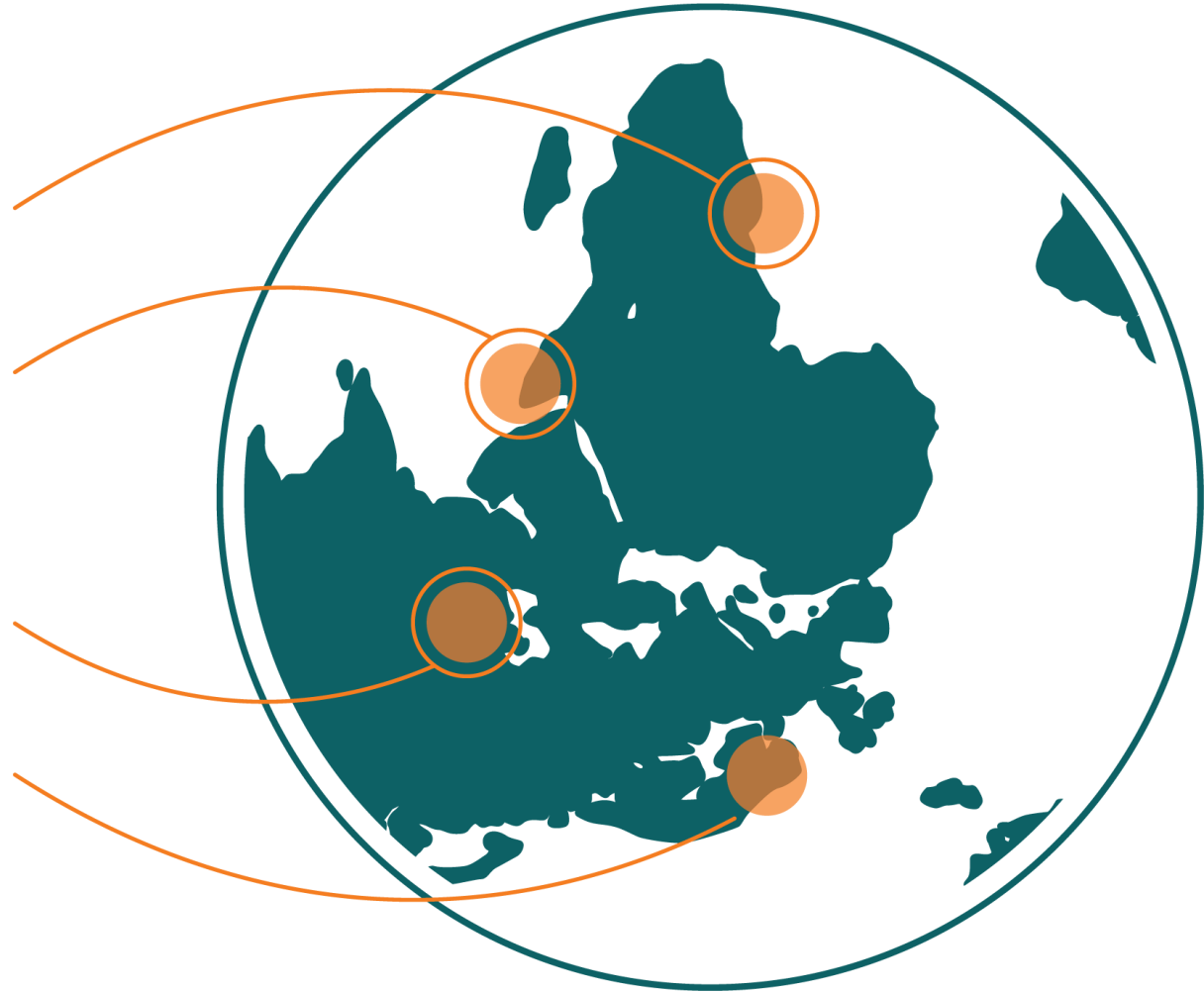
Bangladesh: One of the fastest growing economy in the world



- Bangladesh, is a country in South Asia with a population of nearly 174 million in an area of 148,460 square kilometers.
- Bangladesh shares land borders with India to the north, west, and east, and Myanmar to the southeast. To the south, it has a coastline along the Bay of Bengal.
- GDP of the country is \$510 billion and Per capita income is \$2,765



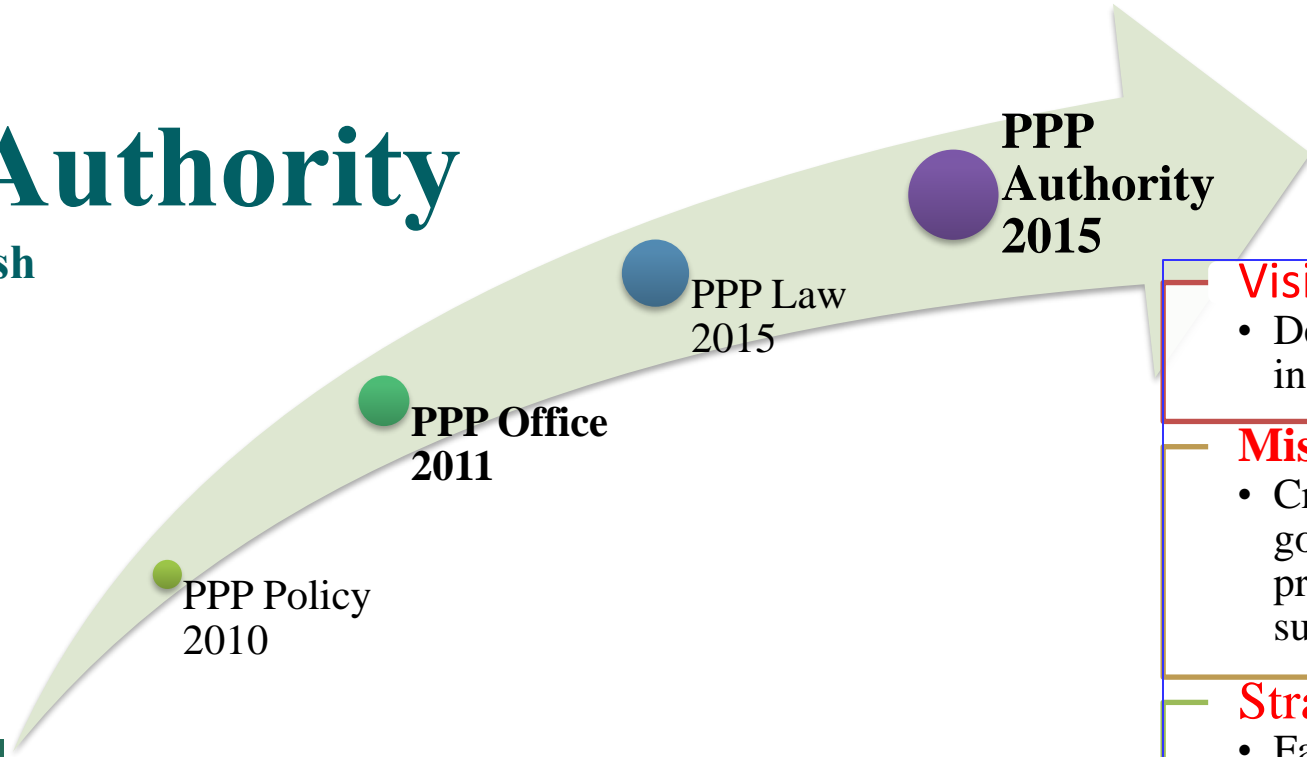
People's Republic of Bangladesh



Public Private Partnership in Bangladesh: At a glance



Evolution of PPP Authority Of Bangladesh



<p>Vision</p> <ul style="list-style-type: none"> • Development of sustainable public service infrastructure.
<p>Mission</p> <ul style="list-style-type: none"> • Creating an enabling environment for government institutions through public private partnerships in the delivery of sustainable public service infrastructure.
<p>Strategic Objectives</p> <ul style="list-style-type: none"> • Facilitating development of sustainable public service infrastructure project under PPP policy. • Raising profile of the PPP program and promoting increased flow of private investment in public service delivery. • Creating a legal and regulatory framework for building confidence among private investors.



PPP Authority
Prime Minister's Office
 1st Floor, NGO Affairs Bureau Bhaban
 Plot: E-13 B Agargaon, Shere Bangla
 Nagar, Dhaka-1207, Bangladesh



Role of PPP Authority



PPP authority is facilitating line ministries and contracting authorities to develop and implement PPP projects



Regulatory Framework for PPP in Bangladesh

Procurement Guidelines for PPP Projects, 2018

Rules for priority projects 2018

Rules for Viability Gap Financing for Public-Private Partnership Projects, 2018

Standard PPP Forms for Project Support & Development

Framework protecting rights, setting out obligations and providing remit

Bangladesh PPP Law
September 2015

Guidelines to develop, procure and implement PPP projects

Procurement Guidelines for PPP
Feb 2018

Guidelines to address unsolicited proposals for PPP projects

Unsolicited Proposals Guideline
Feb 2018

Rules for implementing National Priority Projects

National Priority Project Rules
May 2018

Policy for developing PPPs in Partnership with other countries on a G2G basis

G2G Partnership Policy
June 2018

Rules for accessing funds for project and program development

TAF Rules
October 2018

Rules for accessing grant funding for enhancing project viability

VGF Rules
October 2018

Standard forms for project support and development

Standard PPP Forms
July 2012

Bangladesh Public Private Partnership Act, 2015

Guidelines for Unsolicited Proposals, 2018

Policy for Implementing PPP Projects through Government to Government (G2G) Partnership, 2017,

Rules for PPP Technical Assistance Financing, 2018

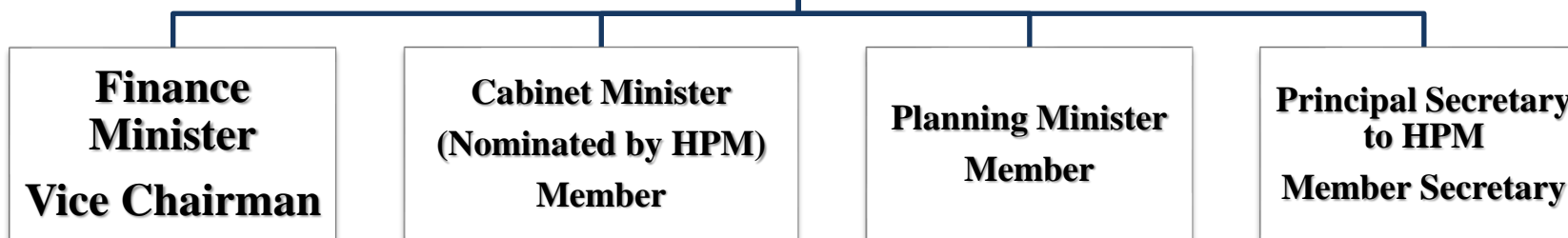


Board of Governors



(বাংলাদেশ সরকারি-বেসরকারি
অংশীদারিত্ব আইন, ২০১৫ এর ৭ ধারা)

Hon'ble Prime Minister
Chairperson



Section 10, Bangladesh Public Private Partnership Act, 2015

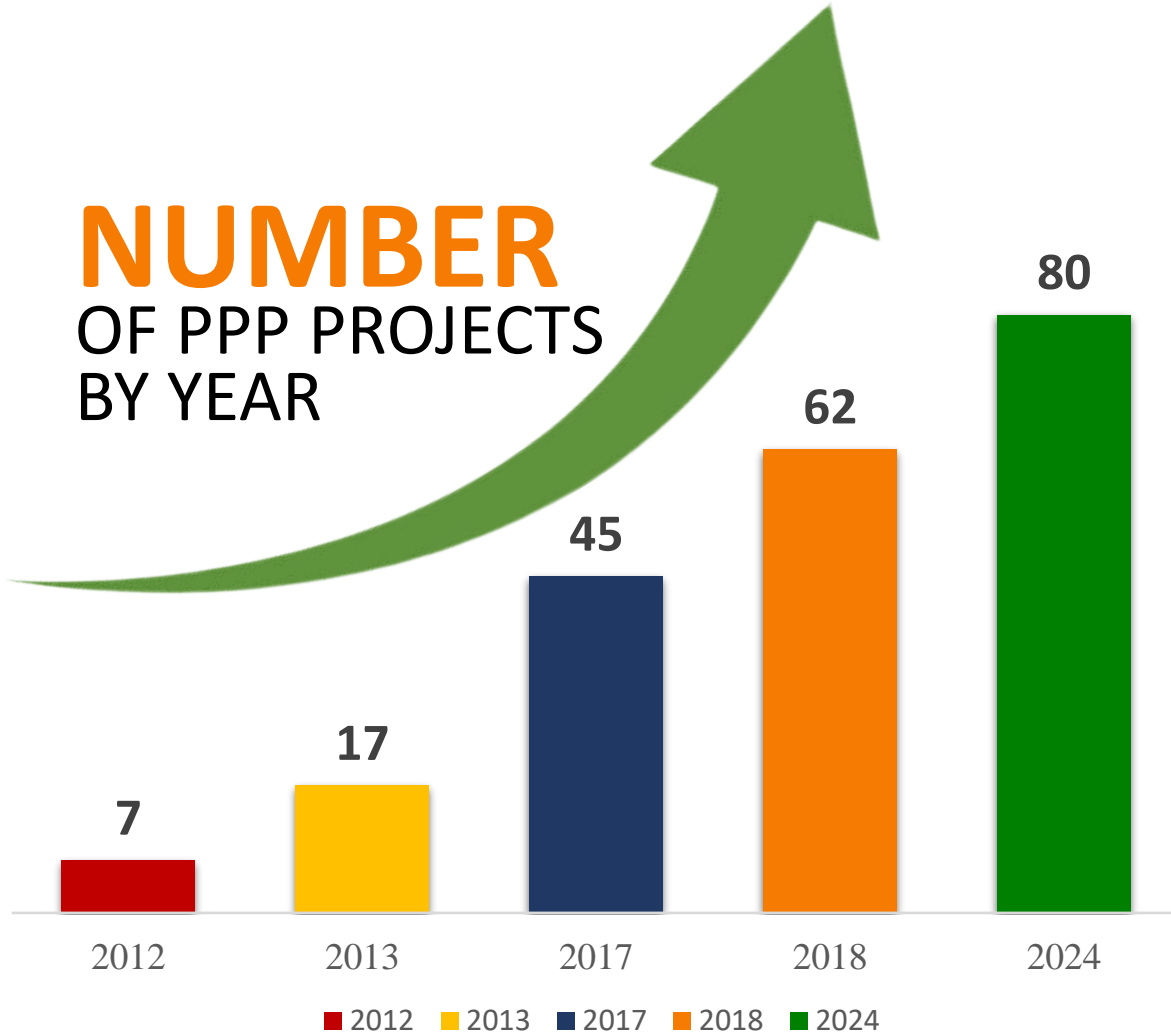
Secretary and CEO PPPA
Mandatory attendance



Institutional framework



NUMBER OF PPP PROJECTS BY YEAR



PROJECTS STATUS IN PPP PIPELINE ▼



USD

46.40 Billion

Estimated Total Investment



Total

80 Units of

Completed & On going Projects



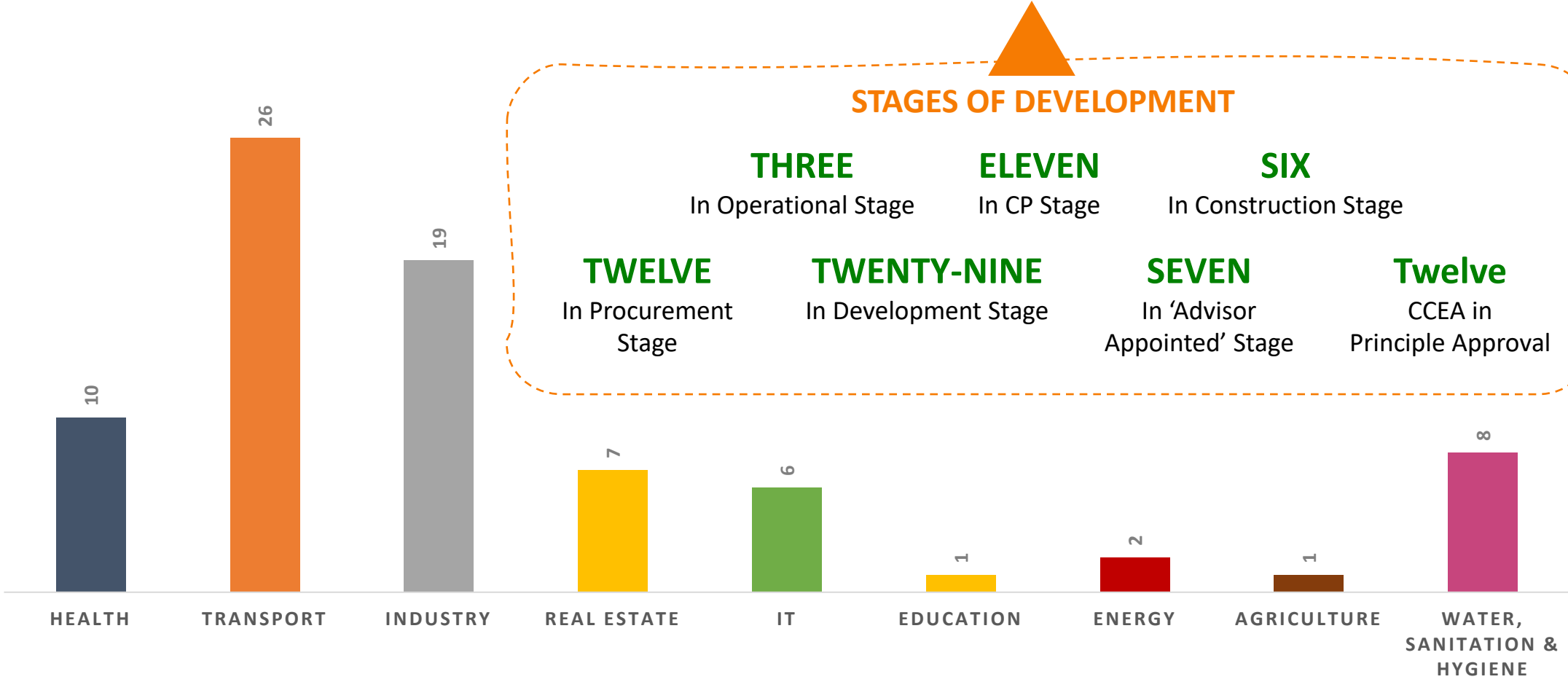
Working With

27 Agencies

Of 18 Ministries

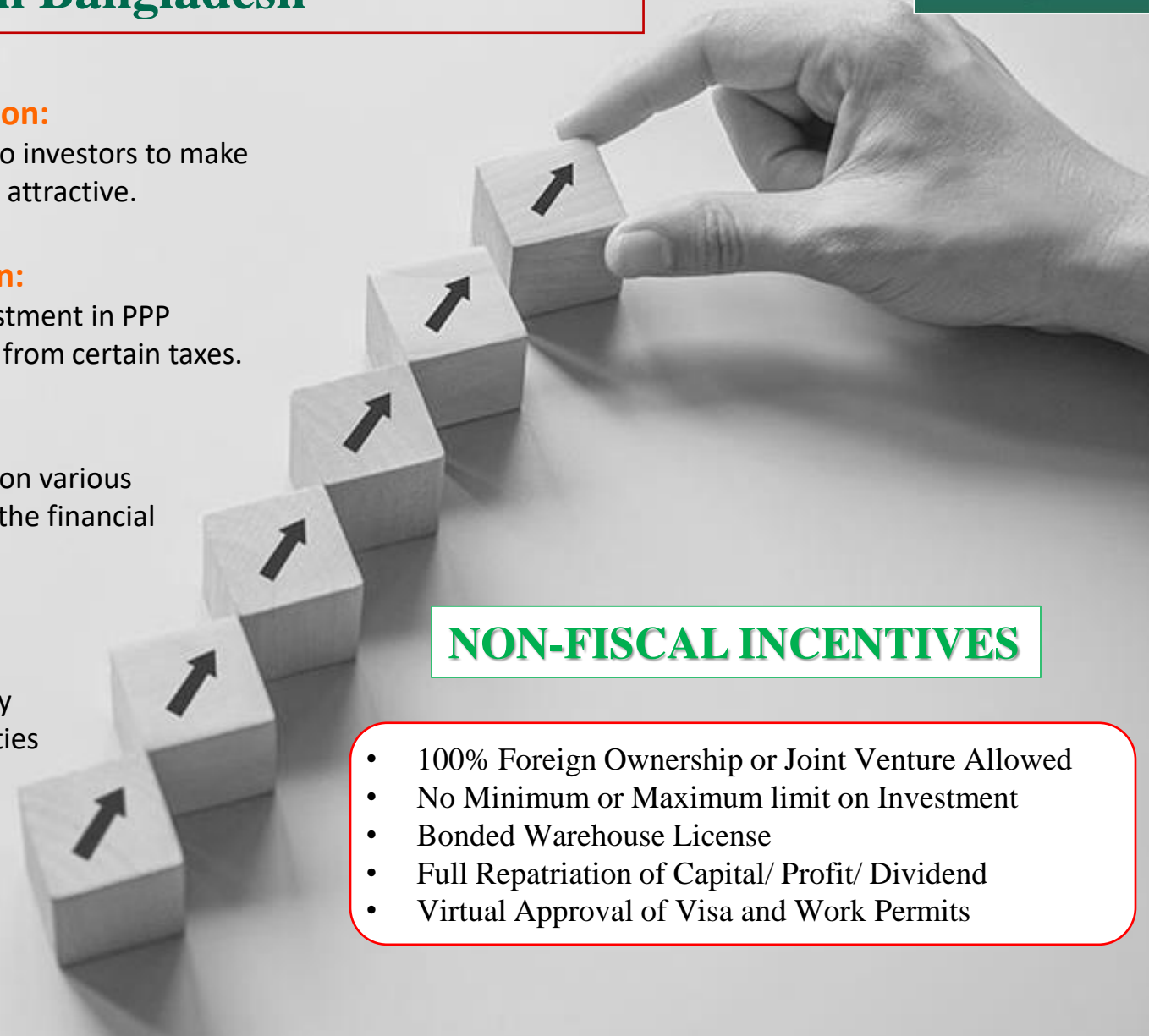
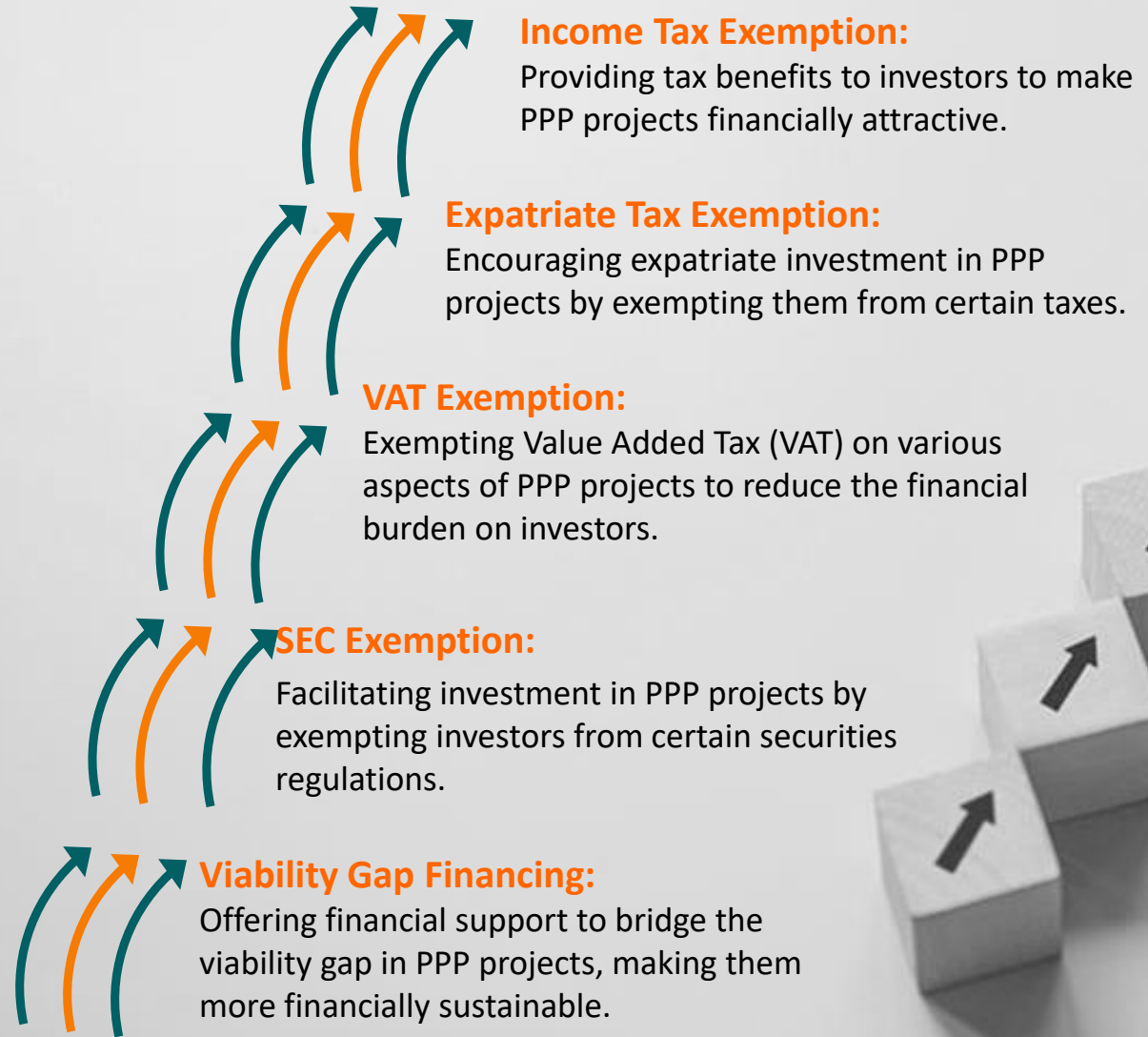
PROJECTS STATUS IN PPP PIPELINE

Sector
wise Project Quantity





Special incentives for Private investor of PPP projects in Bangladesh



NON-FISCAL INCENTIVES

- 100% Foreign Ownership or Joint Venture Allowed
- No Minimum or Maximum limit on Investment
- Bonded Warehouse License
- Full Repatriation of Capital/ Profit/ Dividend
- Virtual Approval of Visa and Work Permits

SOME ONGOING AND UP-COMING POTENTIAL PPP PROJECTS IN BANGLADESH



**Hemodialysis
Project**



**Dhaka Elevated
Expressway**



**Purbachol Water Supply
Project**



**Dhaka bypass
Expressway**



**Medical College and
Modernization of Railway
Hospital at CRB in Chittagong**



**Sewerage Treatment Plant at
Catchment 6, Patenga under
Chattogram WASA**



**Bangabandhu Sheikh Mujib
Shilpanagar Water Supply Project.**

SOME ONGOING AND UP-COMING POTENTIAL PPP PROJECTS IN BANGLADESH



**Improvement of
Rampura -Amulia-Demra
road**



**O&M of 3rd terminal
at Hazrat Shahjalal
international airport**



**Equip, operate and
maintain Patenga
container terminal**



**Construction of bridge
on bhulta-araihar-
bancharampur road**



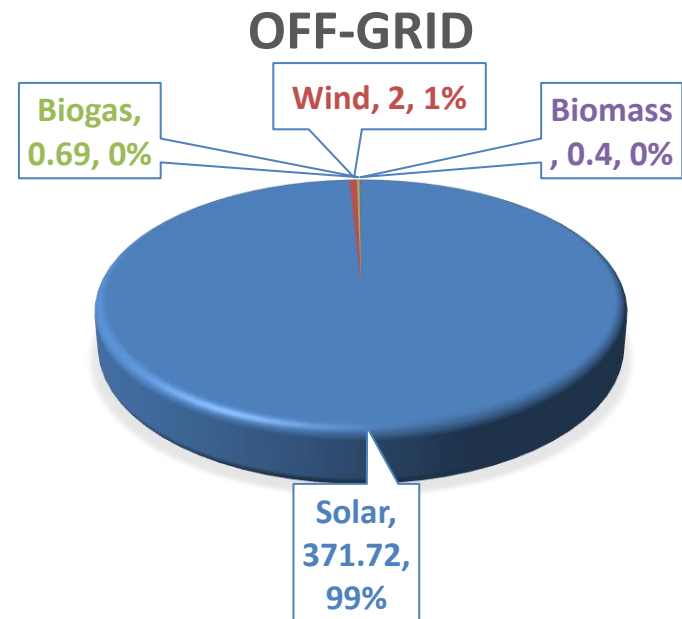
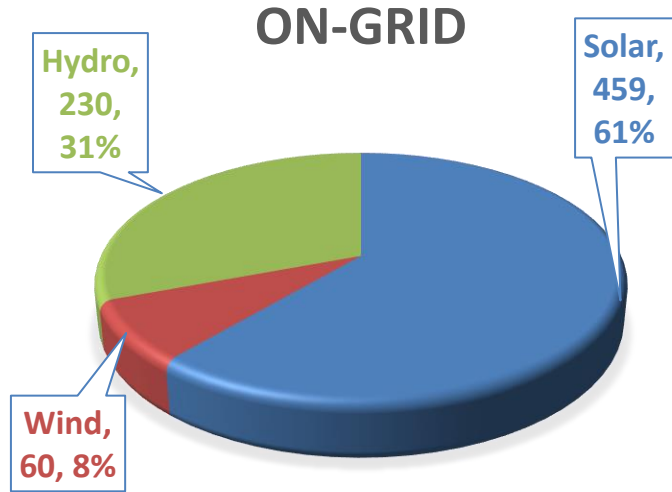
**Multimodal hub at komlapur
railway station**



**Jhilmil residential
Park**



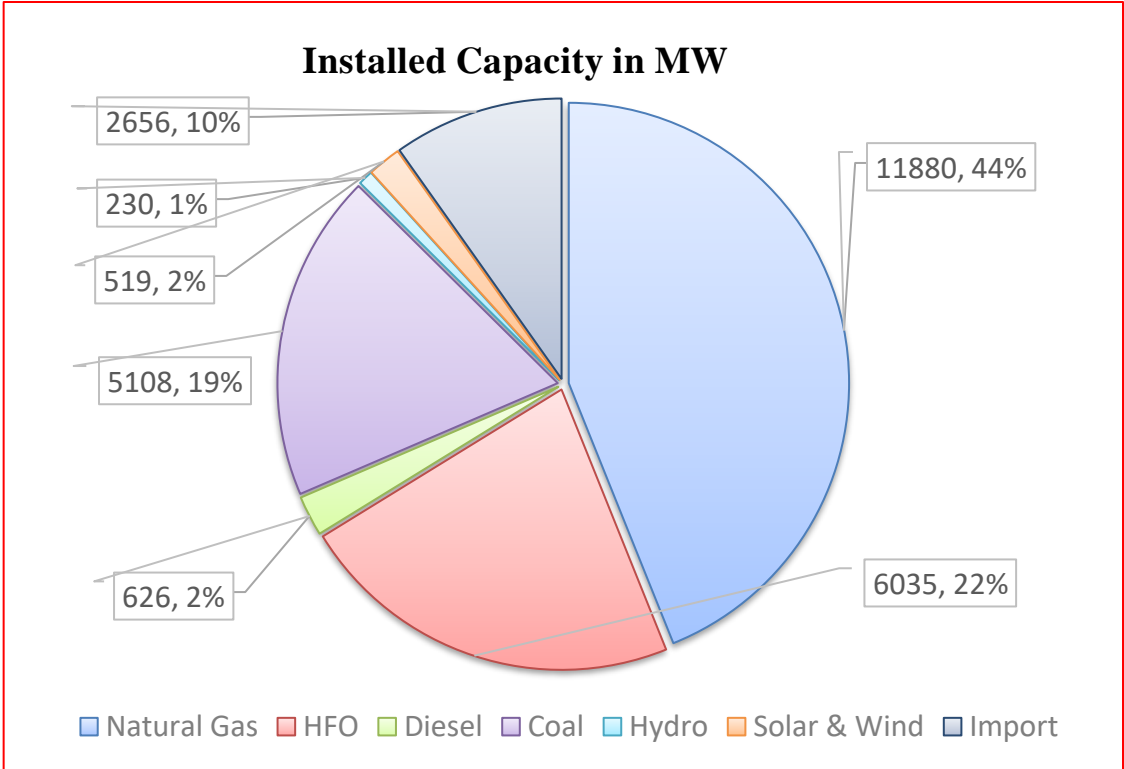
Bangabandhu Hi-Tech City



Renewable Energy Status in Bangladesh

Target Vs Installed Capacity

- ❑ According to Power System Master Plan (PSMP) 2016 the Targets of power generation from renewable sources will be 9,400 MW by 2041 (high case study) and 7,900 MW by 2041 (low case study)
- ❑ And as of now total Renewable Energy (Hydro+ Wind+Biogas+Biomass+ Solar) Installed Capacity is 749 MW (Solar 82.1%).





PROCUREMENT THROUGH IPP (BPDB)

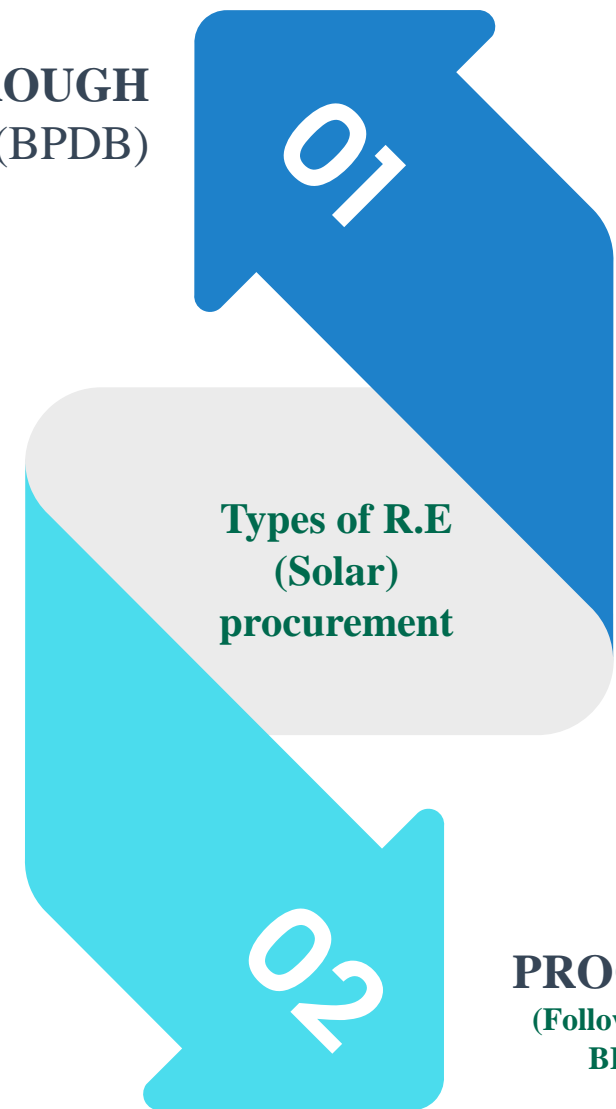


- 10 Project total Installed Capacity 459 MW
- 11 Project is under construction
- 18 project received LOI/NOA
- 4 projects are under tendering process
- Another 19 project under planning



Only one project Ongoing

(Solar Power Plant at Bangabandhu Sheikh Mujib Shilpa Nagar)

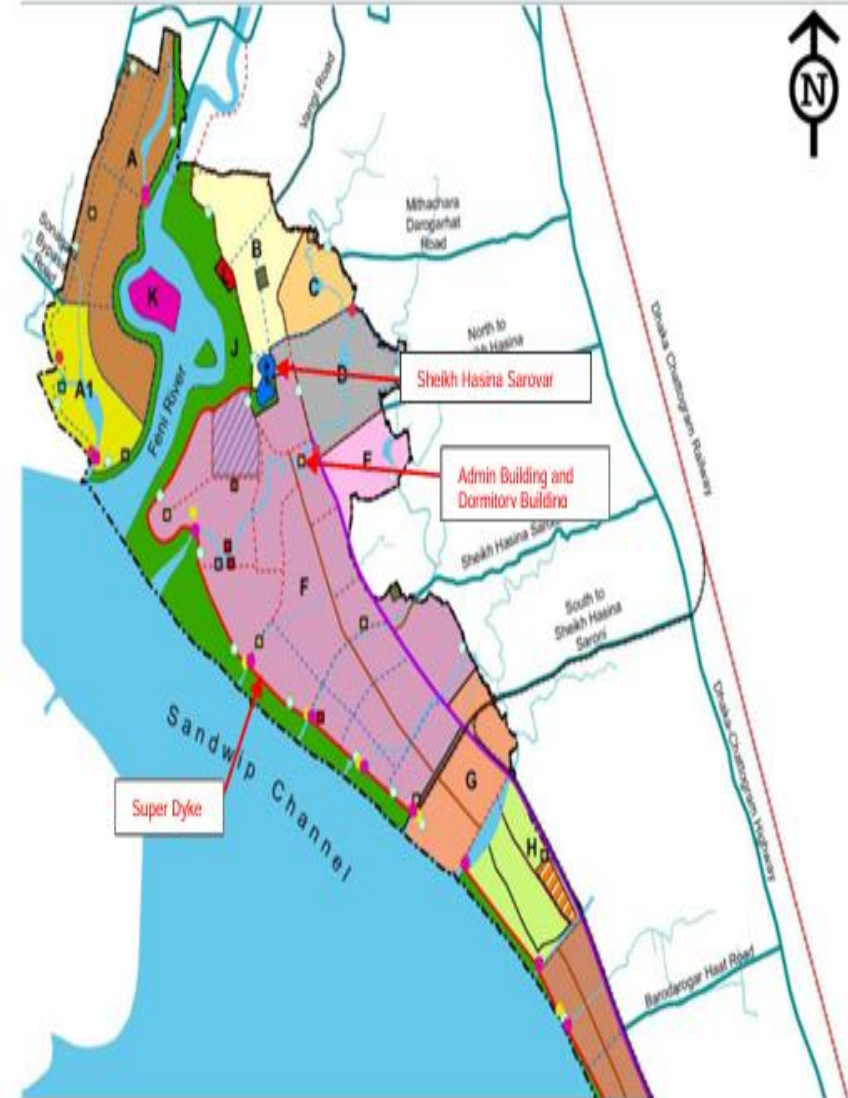


**Types of R.E
(Solar)
procurement**

**PPP
PROCUREMENT**
(Following both PPP and
BPDB guideline)

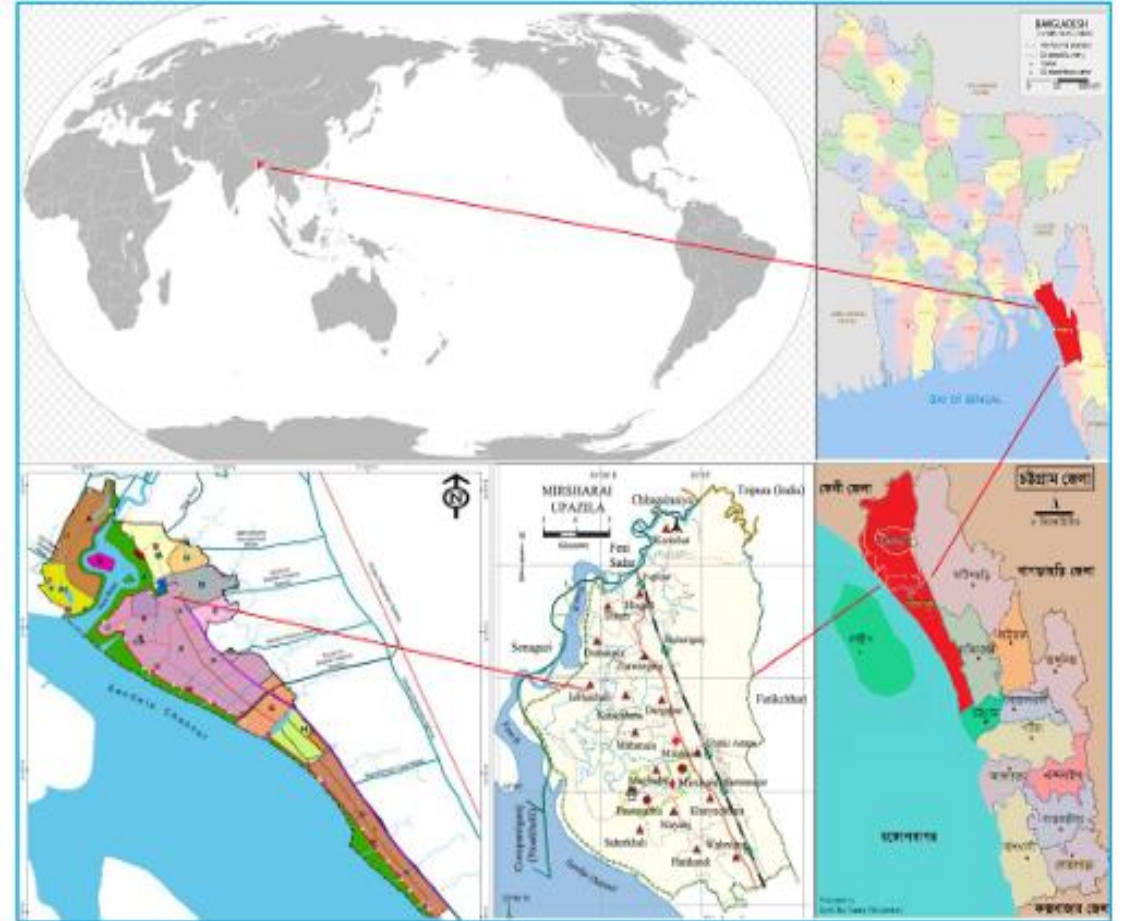


Project Profile of Establishment, Operation and Maintenance of Solar Power Plant at Bangabandhu Sheikh Mujib Shilpa Nagar



Project Site : at a Glance

- ❑ The BANGABANDHU SHEIKH MUJIB SHILPA NAGAR (BSMSN) site is located 200 kilometers (km) from Dhaka, 60 km from Chattogram, 70 km from Chattogram Port and the Shah Amanat International Airport and 330 km from Sylhet.
- ❑ Proposed Solar Project sites are located inside the BSMSN Complex.
- ❑ The coastal line is protected by a super dyke (embankment) with motorable pavement of 18.488 km for protection of the BSMSN complex from flood, saline intrusion, erosion caused by tidal surge and natural disaster. Nine (9) numbers sluice gates have been constructed to regulate water of natural canals

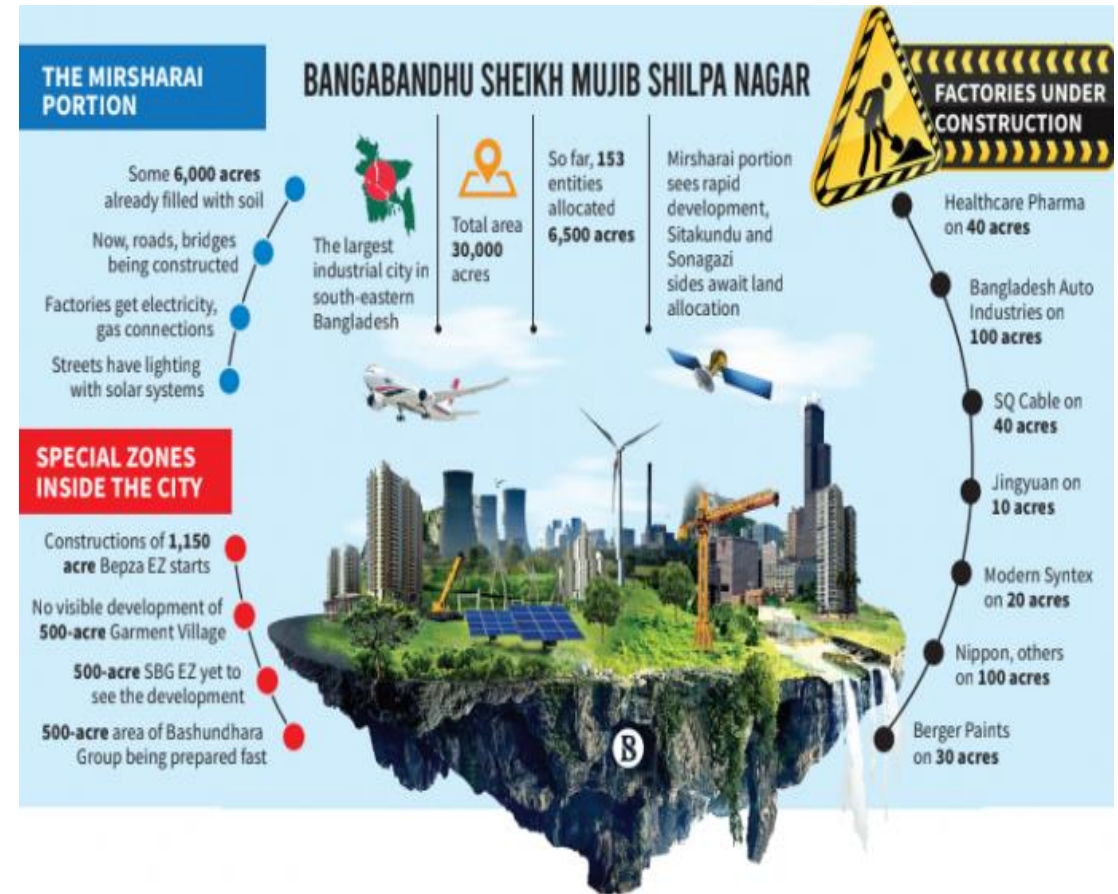




Solar PV Plant Project in the BSMSN: At a glance



- 1 PPP Model: DBFOT
- 2 Investment size: US\$ 72 million (Tentative)
- 3 Capacity : 100 MW
- 4 Project Status: Development stage
- 5 TA: PwC Bangladesh





Solar PV Plant Project in the BSMSN: At a glance



Project scope

- 1) Installation of Floating Solar PV (FSPV) at Sheikh Hasina Sarovar and Ichakhali Canal (Expected: 38 MW)
- 2) Installation of Ground Mounted PV (GMPV) at the Super Dyke area countryside slope section.(Expected 44 MW)
- 3) Installation of rooftop Solar PV at various BEZA-owned buildings (Expected 18 MW)



Investor's obligation

- Design of the project as per bid documents
- O&M of the Project Facilities for the project term
- Adhere to key performance standards



BEZA's obligation

- Site acquisition and development

(BEZA already acquire and developed the site)



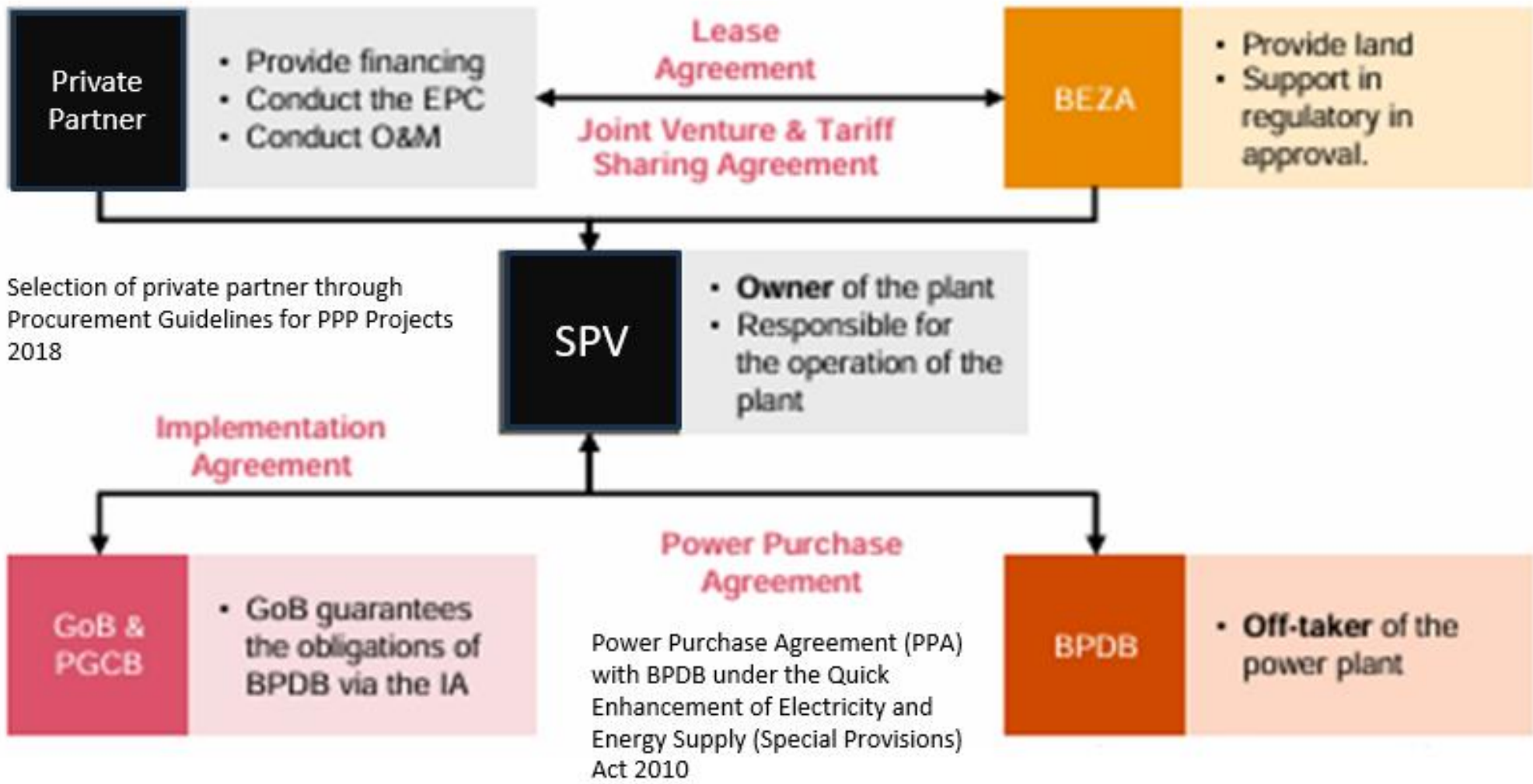
Project development update

- The Bathymetry survey completed,
- Geotechnical survey completed,
- Technical Feasibility study completed.
- Transmission line Evacuation survey completed.
- Legal and regulatory assessment completed
- Environment and social impact assessment completed



Plant General Layout

Model: PPP-DBFOT-Model





Project Timeline



Items	Timeline
Commercial Assessment and Financial Model	By July 2024
Climate Risk Assessment and Adaptation Plan	By July 2024
PPP Assessment	By July 2024
Market Sounding Report	By September 2024
RFP Issue	December 2024
Private Investor Selection	April 2025
Construction period	18 month
O & M	15 years



IMPORTANCE OF PRIVATE INVESTMENT IN BANGLADESH



INVESTMENT IS A NATIONAL PRIORITY

“We are committed to providing all policy support, including infrastructure, to create an investment friendly environment”

Sheikh Hasina
Hon'ble Prime Minister of Bangladesh





THANKS

**BANGLADESH IS GROWING,
BE A PART OF IT**



PPP Authority (Prime Minister's Office)
1st Floor, NGO Affairs Bureau Bhaban
Plot: E-13 B Agargaon, Shere Bangla Nagar
Dhaka-1207, Bangladesh
Tel: +88 02 5500 7413, Email: info@pppo.gov.bd