



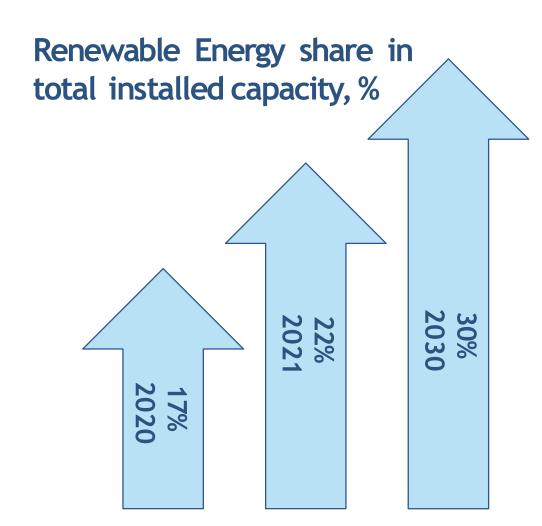
### "Azerbaijan 2030: National Priorities for socio-economic development"

- 1.A steadily growing, competitive economy
- 2.A dynamic, inclusive society based on social justice
- 3. Areas of modern innovations and competitive human capital
- 4. The Great Return to the territories liberated from occupation
- 5.A clean environment and country of "green growth"
  - -high quality ecological environment
  - -green energy zone

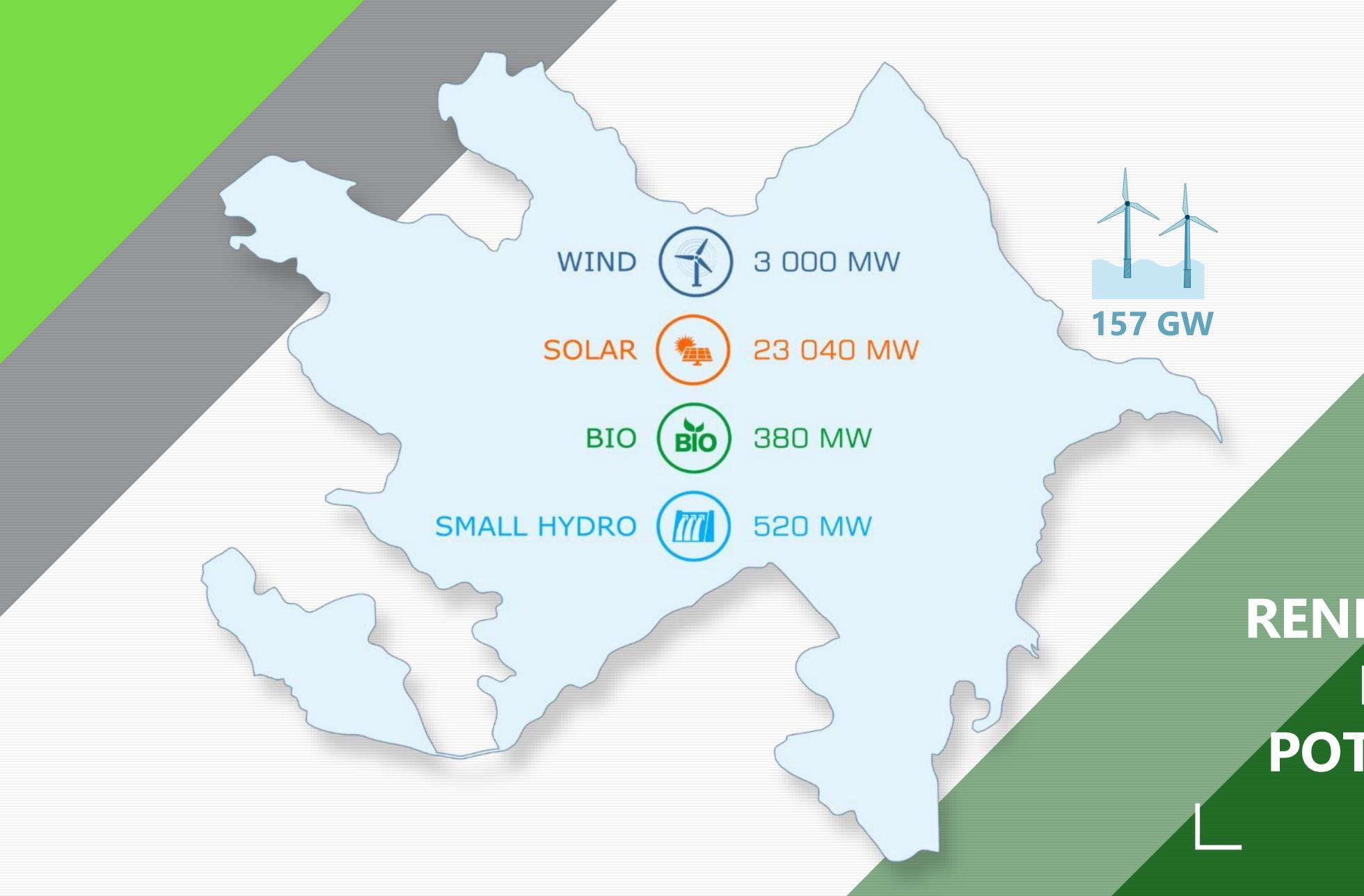


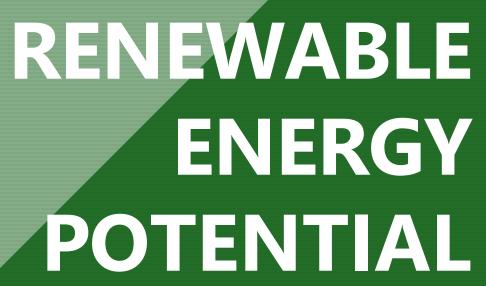
Reduction of greenhouse gas emissions – 40% by 2050

NET ZERO EMISSION ZONE IN THE LIBERATED LANDS









# Total installed capacity

7937 MW

Planned capacity addition with RE projects

-2023	2023-2025	2026-2030
440 MW	460 MW	600 MW

Thermal power plants (6632 MW)

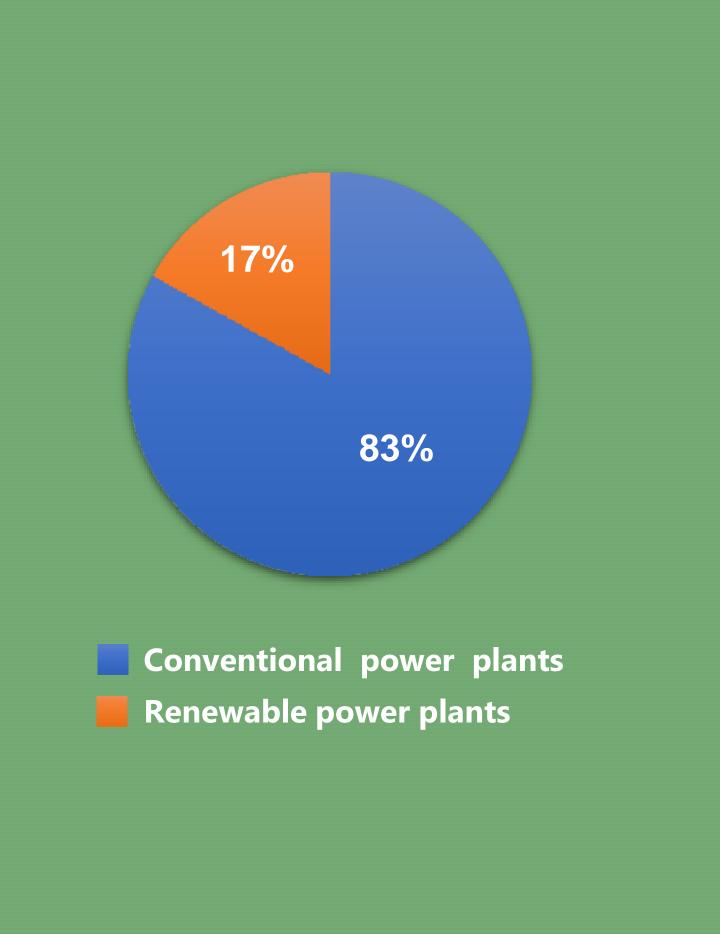
**Hydropower plants (1159 MW)** 

Solar power plants (42 MW)

Wind power plants (66 MW)

Waste to energy plant (37 MW)

**Bioenergy/ Biogas plant (≈1 MW)** 





## Implementation Strategy

- > Development of the regulatory and legal framework
- > Determination of the supporting mechanisms
- > Preparation on the realization of auctions on the renewable energy zones
- > Cooperation with the partners (potential investors)







## Regulatory and Legal Framework

- Law of the Republic of Azerbaijan on the usage of renewable energy sources in the production of electricity
- >Template power purchase agreement
- >Template connection agreement
- >The auctions rules
- The rules on application of the net metering and calculation scheme



# **Guarantees Proposed To The Investors**

- Protection of the investment (existing in the legislation)
- > Tax rebates within seven years (investment promotion mechanisms)
- > 50% reduction of income tax for individual entrepreneurs;
- > 50% reduction of profit tax for legal persons;
- > no VAT and no customs duties on imports of machinery, technological equipment and installations;
- no property tax;
- > no land tax.
- Guaranteed off-take (Take or pay)
- Guaranteed connection
- Priority in dispatching
- > Possibility of indexation of payments to foreign currency
- Long-term land lease





# Implementation of Renewable Energy Projects by the Investors



- The auctions rules
- > RFQ
- > RFP



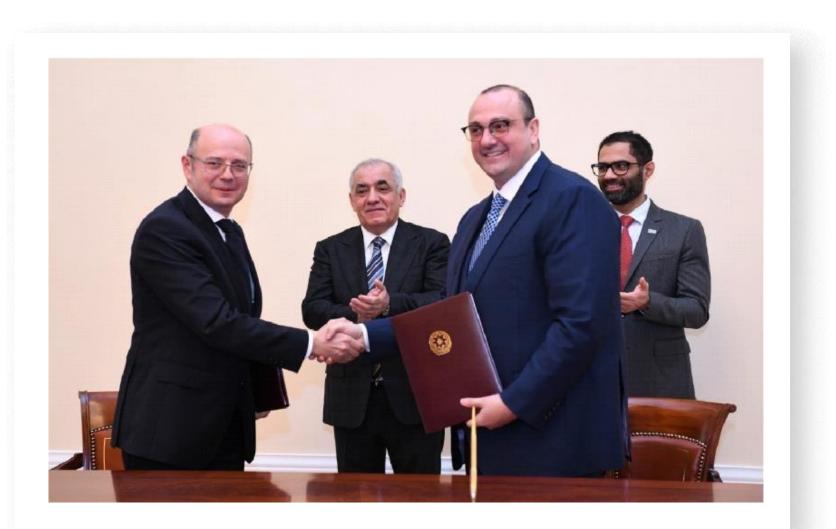
## Bilateral agreement shall be carried out in the following cases:

- > during the implementation of pilot projects;
- if deemed necessary in terms of the interests and strategic importance of the state;
- if it is not possible to determine the investor at the auctions or if the auction did not take place.



### SIGNING OF THE IMPLEMENTATION AGREEMENTS

"Masdar" 09.01.2020



"BP"03.06.2021



"Acwa Power" 09.01.2020





## FINAL AGREEMENTS WITHIN THE PILOT PROJECTS

#### Below-mentioned Agreements were signed on:

- 240 MW wind power plant between the Ministry of Energy, Azerenergy OJSC and ACWA Power of the Kingdom of Saudi Arabia – 29.12.2020
- 230 MW solar power plant between the Ministry of Energy, Azerenergy OJSC and Masdar of the United Arab Emirates 06.04.2021
- INVESTMENT AGREEMENT
- POWER PURCHASE AGREEMENT
- TRANSMISSION CONNECTION AGREEMENT



# SUPPORT FOR THE IMPLEMENTATION OF RENEWABLE ENERGY AUCTIONS IN AZERBAIJAN

- Site selection
- Develop all the tender documentation required for a renewable project
  - Auction rules
  - RFQ, RFP
  - Template Support Agreement
  - Template Power Purchase Agreement
  - Template agreement for connection to the grid
  - Template agreement for land lease
  - Final drafts of bid forms
- Prepare a complete and comprehensive set of technical specifications to be included in the RFP
- Provide the authorities with detailed technical, environmental, financial and legal assistance for the implementation of the tender
- Develop framework for a future competitive procurement scheme



## First RE auction to be implemented in 1H 2022





# REGIONAL KNOWLEDGE AND SUPPORT TECHNICAL ASSISTANCE FLOATING SOLAR ENERGY DEVELOPMENT

-Design, procure and supervise implementation of a pilot project and develop corresponding scaled-up project

Pilot project: 100 KW FPV plant in Lake Boyukshor Initial FS for the scale up project

-Analyze policies and tariff structures and recommend suitable for business models

-Institutional Capacity Building for Stakeholders

50 MW FPV project is under consideration









# OFFSHORE WIND ROADMAP FOR AZERBAIJAN

#### The development of a Roadmap Study which outlines:

- the potential role that offshore wind could play in Azerbaijan's future energy mix
- the areas of Caspian sea suitable for offshore wind development
- the potential costs and economic benefits, the key issues that would need to be addressed
  - through further technical studies
- the responsible agencies and permitting procedures, any policy or regulatory changes that would be required to facilitate offshore wind deployment
- recommendations on next steps.

#### Azerbaijan's first offshore wind demonstration project. This work will outline:

- how a sample demonstration project could be developed and delivered
- advice on options for procurement strategy (i.e. models for project concessions)
- different approaches to de-risking activities that could be commissioned by the government.











# THE ESTABLISHMENT OF GREEN ENERGY ZONE IN THE LIBERATED AREAS

"The liberated lands also have enormous energy potential. From the beginning, I want to say that I would like to see the liberated areas as a green energy zone. There are ample opportunities for that."

H.E. Mr. Ilham Aliyev
PRESIDENT OF AZERBAIJAN



# THE ESTABLISHMENT OF THE GREEN ENERGY ZONE IN THE LIBERATED AREAS - GREEN ENERGY ZONE CONCEPT & MASTER PLAN

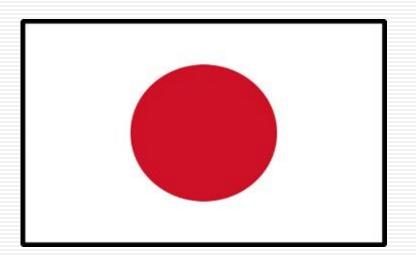
The agreement was signed between the **Ministry of Energy** and the Japanese company **TEPSCO** on 6 May 2021.

#### > Ensuring energy security of the region:

- utilisation of clean energy potential
- application of energy efficiency technologies and methods
- application of modern energy management approaches and tools









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## RENEWABLE ENERGY POTENTIAL

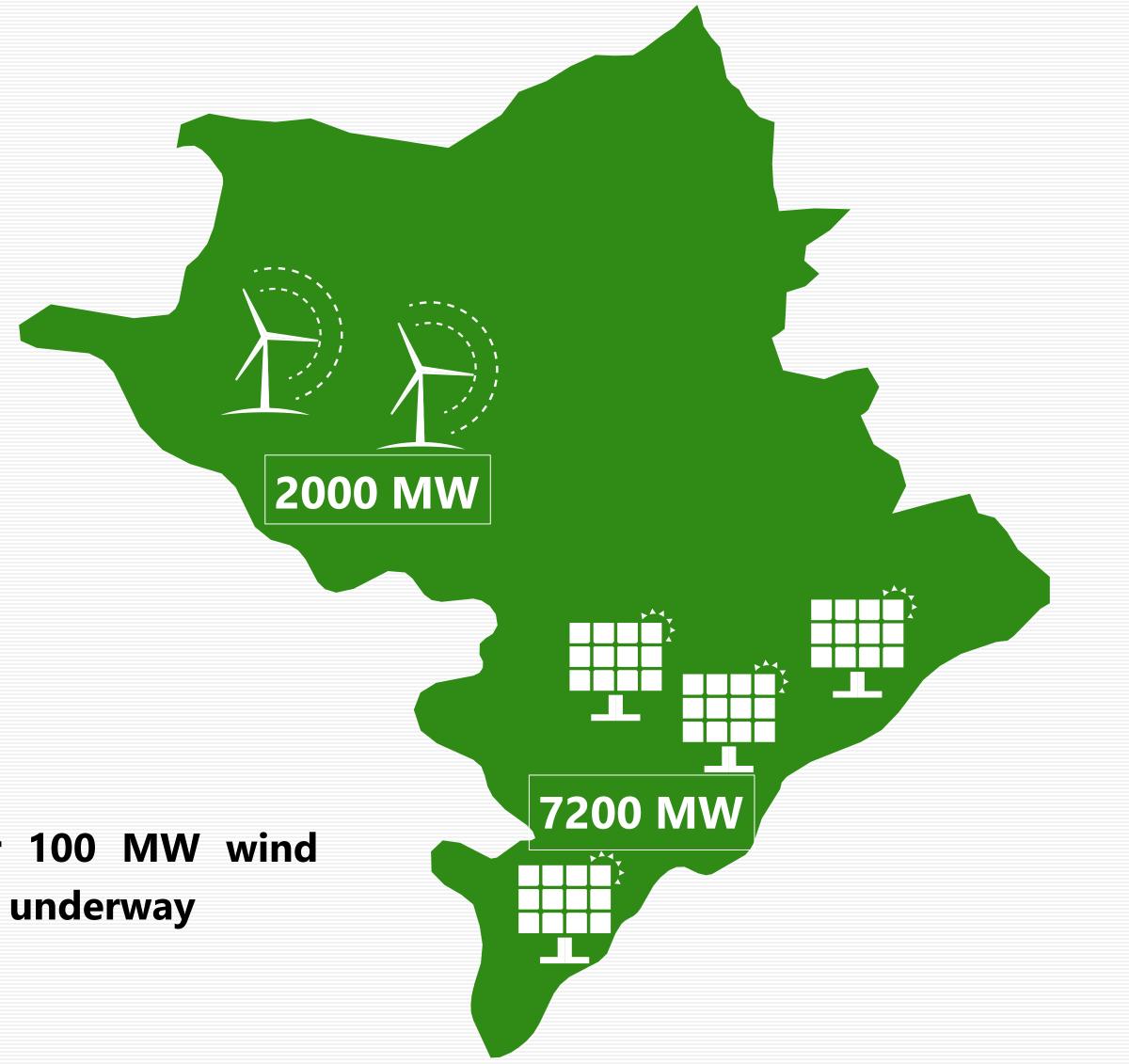
### Solar

- Gubadli
- Zangilan
- Jabrayil
- Fuzuli

### Wind

- Kalbajar
- Lachin

RFI process for 100 MW wind power project is underway





### HYDROENERGY POTENTIAL

Karabakh is one of the main regions of Azerbaijan's internal water resources. About 25% of the country's internal water resources, approximately 2.56 billion cubic meters of water per year, are formed in this area.

The main rivers in the area, the Tartar and Hakari rivers and their tributaries, have a high hydropower potential.

The capacity of hydropower plants to be built in the Jabrayil region, on the Araz River at the Khudafarin and Maiden Tower hydroelectric junctions will be 140 MW for the Azerbaijani side.

