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Ministry of Economy

PIPELINE OF RENEWABLE ENERGY SOURCE INVESTMENTS 2023-2025

A photograph of a renewable energy farm under a clear blue sky. In the foreground, there are several rows of solar panels tilted towards the sun. In the background, several white wind turbines are visible. The ground is covered in green grass.

€1.2 Billion
950 MW



Prime Minister, Albin Kurti, Minister of Economy, Artane Rizvanolli, and the Ambassador of the United States Jeffrey M. Hovenier

100 MW Solar Auction Pre Bidding Conference



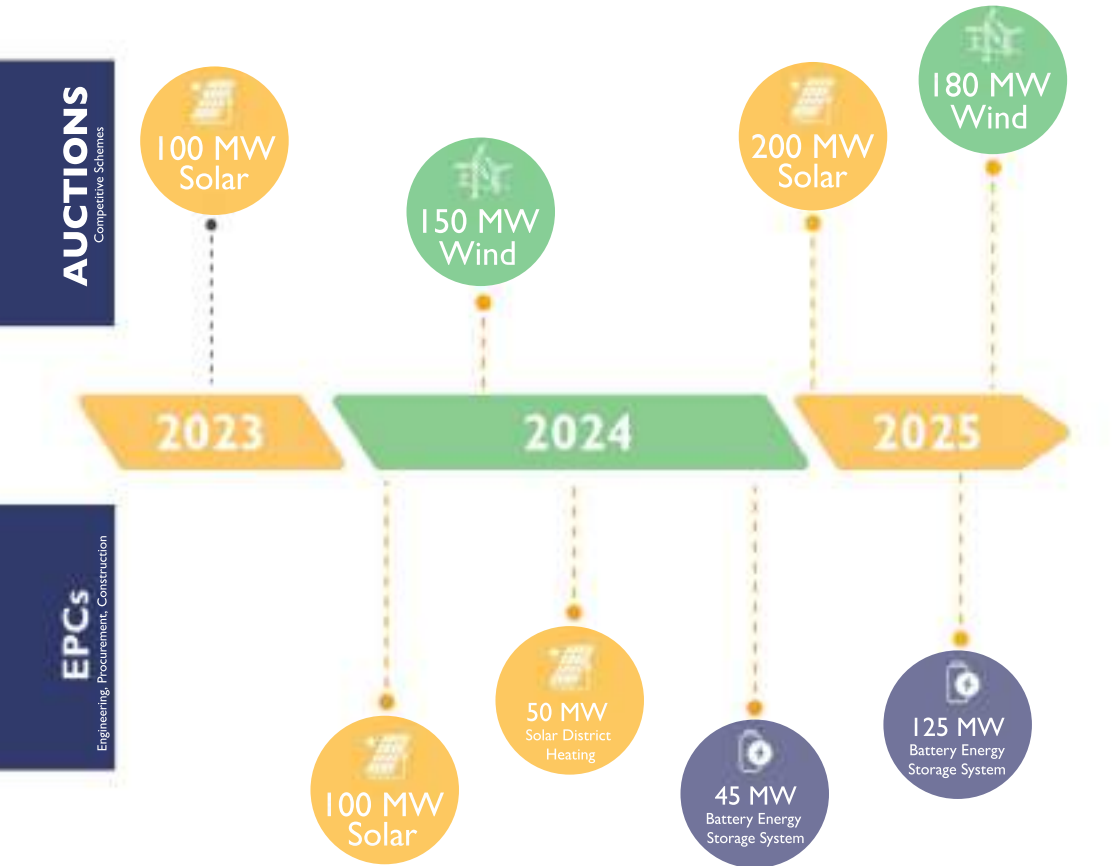
Prime Minister Albin Kurti and Minister of Economy Artane Rizvanolli meeting RES developers

Kosovo Solar Forum

Kosovo's Energy Strategy sets an ambitious vision towards a just energy transition for the country between 2022-2031.

The main pillar of the Strategy is to accelerate renewable deployment, focused on utility-scale wind and solar PV. Kosovo plans to integrate 1200 MW of RES over the next 10 years.

630 MW to be awarded by 2025.





Auctions

Competitive Schemes

630 MW of new renewable capacities

Projects

100 MW Solar on Public Land

150 MW Wind at Non-Specific Location

200 MW Solar on Public Land

180 MW Wind on Public Land

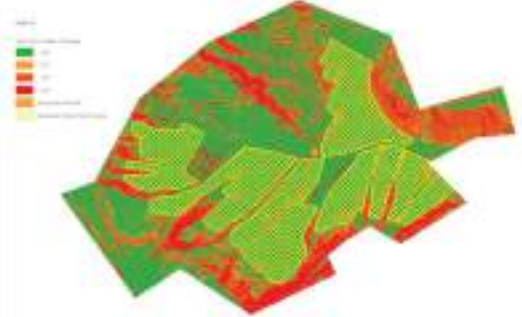
ProCredit 3.00 MW Solar Park in Lipjan,
Kosovo.
Photo credit: ProCredit Bank

100 MW Solar on Public Land (€70 million)

Auction is currently open.

Deadline for submission of bids: **January 31, 2024**

- Power Purchase Agreement for at least 15 years at a guaranteed purchase price;
- 30-year Land Lease Agreement;
- High solar irradiation and suitable terrain for construction;



- Guaranteed Connection Agreement with the Transmission Operator at 110kV connection point (350 meters away);
- Developer will only be responsible for up to 25% of imbalance costs;
- Streamlined administrative procedures.



150 MW Wind at Non-Specific Location (€270 million)

Publication date: **Third Quarter of 2024**

- Power Purchase Agreement for at least 15 years at a guaranteed purchase price; Up to €80 million capital co-investment by the Government of Kosovo;
- Land Lease Agreement throughout the lifespan of the wind park (in cases when the investor does not own the land);
- Guaranteed Connection Agreement with the Transmission Operator;
- Possibility of cooperation with investors who already possess reliable wind measurements for at least 1 year;
- The developer will not be responsible for imbalances up to 10% of their forecasts.



200 MW Solar on Public Land (€150 million)

Publication date: **Second Quarter of 2025**

- Power Purchase Agreement for at least 15 years at a guaranteed purchase price;
- 30-year Land Lease Agreement;
- Site with high solar irradiation and suitable terrain for construction;
- Guaranteed Connection Agreement with the Transmission Operator, and nearby connection to the 110kV line;
- The developer will not be responsible for imbalances up to 5% of their forecasts.



180 MW Wind on Public Land (€324 million)

Publication date: Fourth Quarter 2025

- Power Purchase Agreement for at least 15 years at a guaranteed purchase price;
- Land Lease Agreement throughout the lifespan of the wind park;
- Guaranteed Connection Agreement with the Transmission Operator and reliable wind measurements provided by the Government of Kosovo;
- Studies regarding the topographical, logistical survey, geotechnical, hydrological, seismic, and ESIA will be available upon tender announcement;
- The developer will not be responsible for imbalances up to 10% of their forecasts.



Engineering, Procurement, and Construction Contracts

Projects

100 MW KEK - Solar Plant on Public Land

50 MW Prishtina Solar District Heating

45 MW Battery Energy Storage Systems (90 MWh)

125 MW Battery Energy Storage Systems (250 MWh)

320 MW of New Renewable Capacities by Public Institutions (€339 million)

Engineering, Procurement, and Construction:

Turnkey EPC contracts awarded to the most economically favorable bidder for the following projects:

100 MW KEK - Solar Plant on Public Land (€103 million)

Publication date:
Second Quarter of 2024

50 MW Prishtina Solar District Heating (€76 million)

Publication date:
Fourth Quarter of 2024

Construction of 170 MW (340 MWh) Battery Energy Storage Systems (€160 million*)

Bids for 45 MW (90 MWh)

Publication date:
Fourth Quarter of 2024

Bids for 125 MW (250 MWh)

Publication date:
Third Quarter of 2025

- Suitable terrains (three parcels in different locations; one for 45 MW and two for 125 MW) for construction selected and necessary relevant permits will be granted;
- Streamlined administrative procedures and work payments made directly by US government;
- Detailed site surveys and connection locations within the TSO Substations secured;
- Geotechnical investigations and soil resistance measurements in bidding document;
- BESS facility-based engineering designs preliminary (30%) designs included in the bidding documents for the facilities.

*Approximate capacity and expected capital cost

Ongoing KOSTT projects expected to be finalized in the next 2 years

Projects

1. Construction of the new GIS system Substation 110/35/10(20)kV Ferizaji 3 (Kastriot)
2. Construction of GIS system Substation 110/35/10(20)kV Fushë Kosova
3. Construction of AIS Substation system 220/35/10(20)kV Malisheva
4. Supply and installation of 100MVAR, 400kV variable shunt reactor at SS 400/110kV Ferizaj

1. Construction of the new GIS system Substation 110/35/10(20)kV Ferizaji 3 (Kastriot)

Implementation timeframe: **Second quarter 2021 - First quarter 2024**

Power transformer TR 1x40MVA, double overhead transmission line LP 110kV its distance is approximately $l \approx 3000\text{m}$ and cable $l \approx 450\text{m}$; $2 \times 3 \times 1 \times 1000 \text{ m}^2$, at a cost of €6.5 million.

The expected benefits of the project are:

- Reliable and quality supply in Ferizaj
- Alleviate transformers at Bibaj SS
- Reduction of technical losses in the distribution network
- Reduction of large volumes of undelivered energy to the consumer as a result of eliminating bottlenecks in the distribution network

2. Construction of GIS system Substation 110/35/10(20)kV Fushë Kosova

Implementation timeframe: **Second quarter 2021 - First quarter 2024**

Power transformer TR1 1x40MVA, double LP overhead lines $l \approx 3000\text{m}$ / Double cable line $l \approx 1200\text{m}$ transmitting 110kV at a cost of €6.9 million.

The expected benefits of the project are:

- Reliable and quality supply in Fushë Kosova
- Reduction of technical losses in the distribution network
- Reducing large volumes of undelivered energy to the consumer as a result of eliminating bottlenecks in the distribution network

3. Construction of AIS Substation system 220/35/10(20)kV-Malisheva

Implementation timeframe: **Second quarter 2024 - First quarter 2026**

Power transformer TRI 1x40MVA, transmission lines 220kV and cost of €7,150 million.

The expected benefits from the project are:

- Reliable and quality supply in Malisheva
- Reduction of technical losses in the distribution network
- Reducing of large volumes of undelivered energy to the consumer as a result of eliminating bottlenecks in the distribution network



4. Supply and installation of 100MVar, 400kV variable shunt reactor at SS 400/110kV Ferizaj 2

Implementation timeframe: **Second quarter 2024 - First quarter 2026**

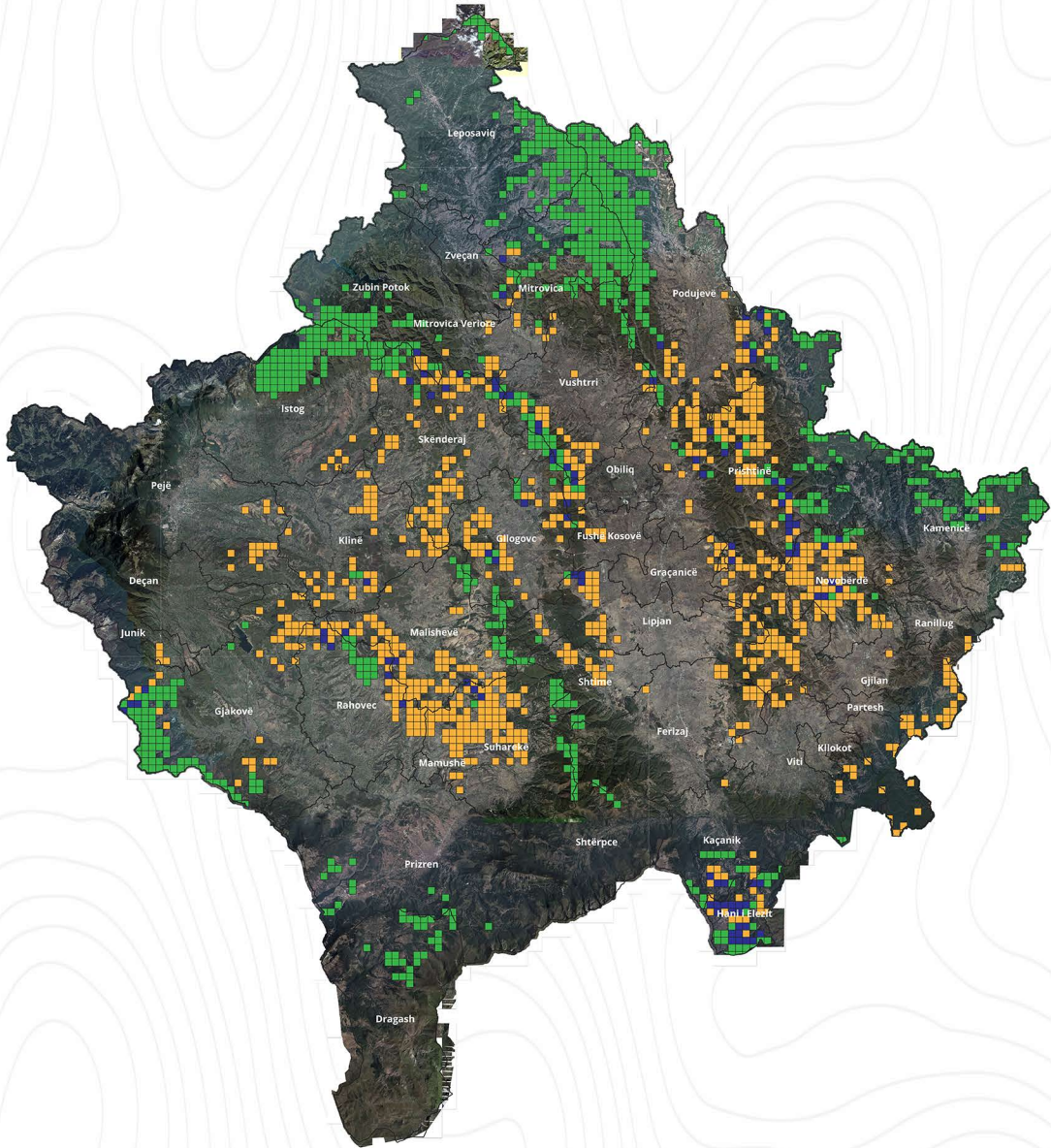
Cost of €4,800,000.00.

Expected benefits from the project:

- Avoiding surges in the transmission network
- Short circuits in the busbars of the main substations in KOSTT are avoided, where the TPP Kosova B and TPP Kosova A generators are also affected.
- The frequency of short circuits in the transmission network as a result of the explosion of insulation due to surges as well as the undelivered energy to the consumer is reduced.
- Through the reduction of surges, accelerated aging of high-voltage equipment as a result of the degradation of the insulation in the equipment is reduced.
- The operations of TPP Kosova B and TPP Kosova A in the under-excitation regime (reactive power absorption) are avoided and their stability is preserved.
- Reduction of Corona effect and losses caused by it.
- Reduction of reactive power flows in lines and raising the carrying capacity of lines for active power.



Kosovo Renewable Energy Potential Map: Wind and Solar Datasets



137.16
MW



13.00
MW



132.43
MW



**INSTALLED
RES CAPACITY
IN KOSOVO**





FOR MORE INFORMATION

on the upcoming investment opportunities,
please visit <https://reskosovo.rks-gov.net/>

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