

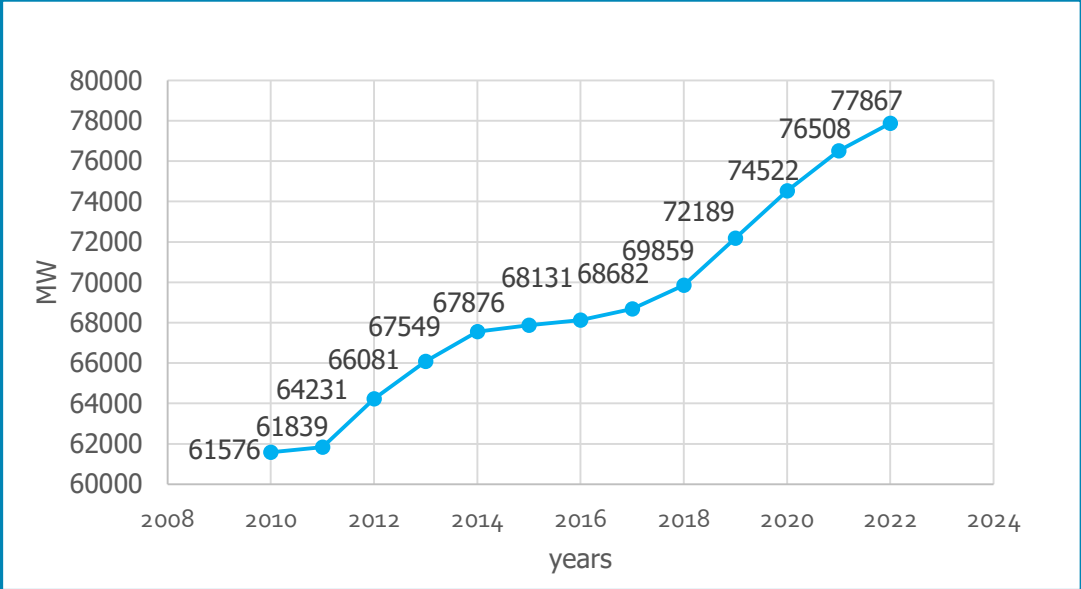
**CIS Electric Power Council
Executive Committee**

**Contribution to
CIS Low Carbon
Development**

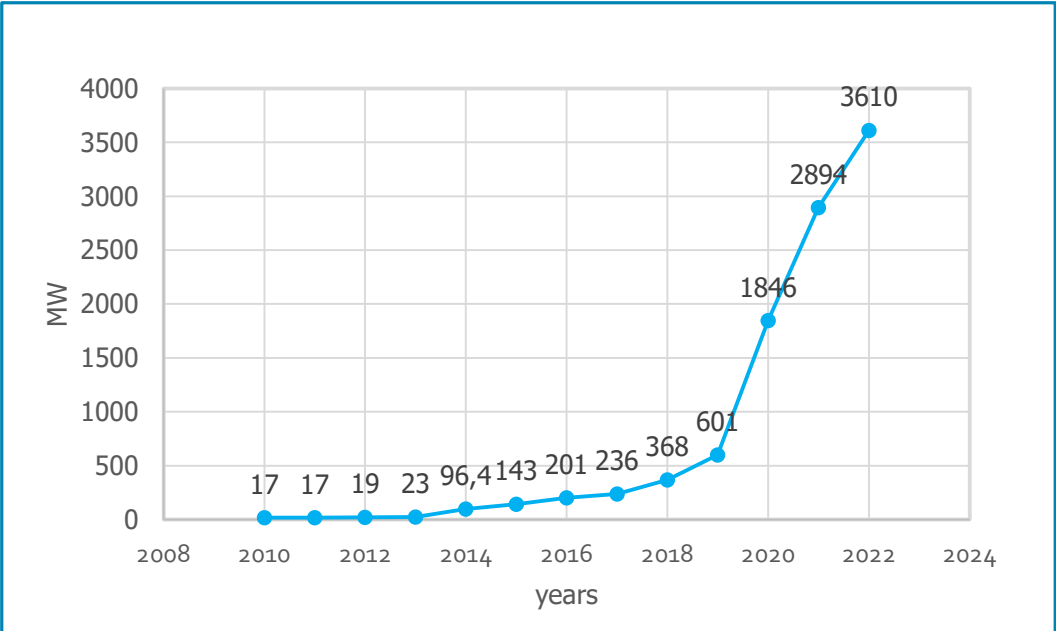
Status.
Vision.
Tools.
Plans

RES development dynamics in CIS Countries

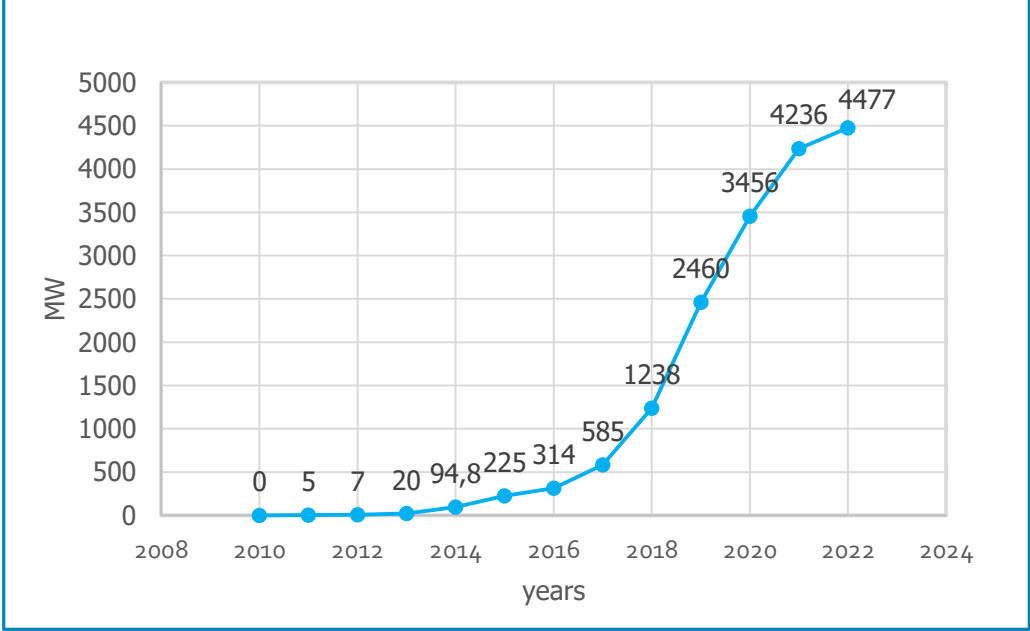
Solar + Wind + Hydro



Solar



Wind



RES support Regulatory Tools: overview



Regulatory Policy

Renewable Energy Goals / Obligations

Grid connection guarantee

Discounted rates

Electricity purchase grids mandatory quotas

Net metering

Tenders

Green Certificates

| | | | | | | | | | |
|---|---|---|---|---|---|-----|---|---|---|
| X | X | X | X | X | X | X | X | X | X |
| X | X | X | X | X | X | X | X | X | X |
| X | X | X | X | X | X | X** | | X | |
| | X | X | | | X | X* | | | |
| X | X | X | | X | X | X | | | |
| X | X | X | X | X | X | X | | | X |
| | | X | | X | X | X | X | | X |

Tax incentives and government funding

CAPEX discounts

Investment discounts

Payment for energy generation

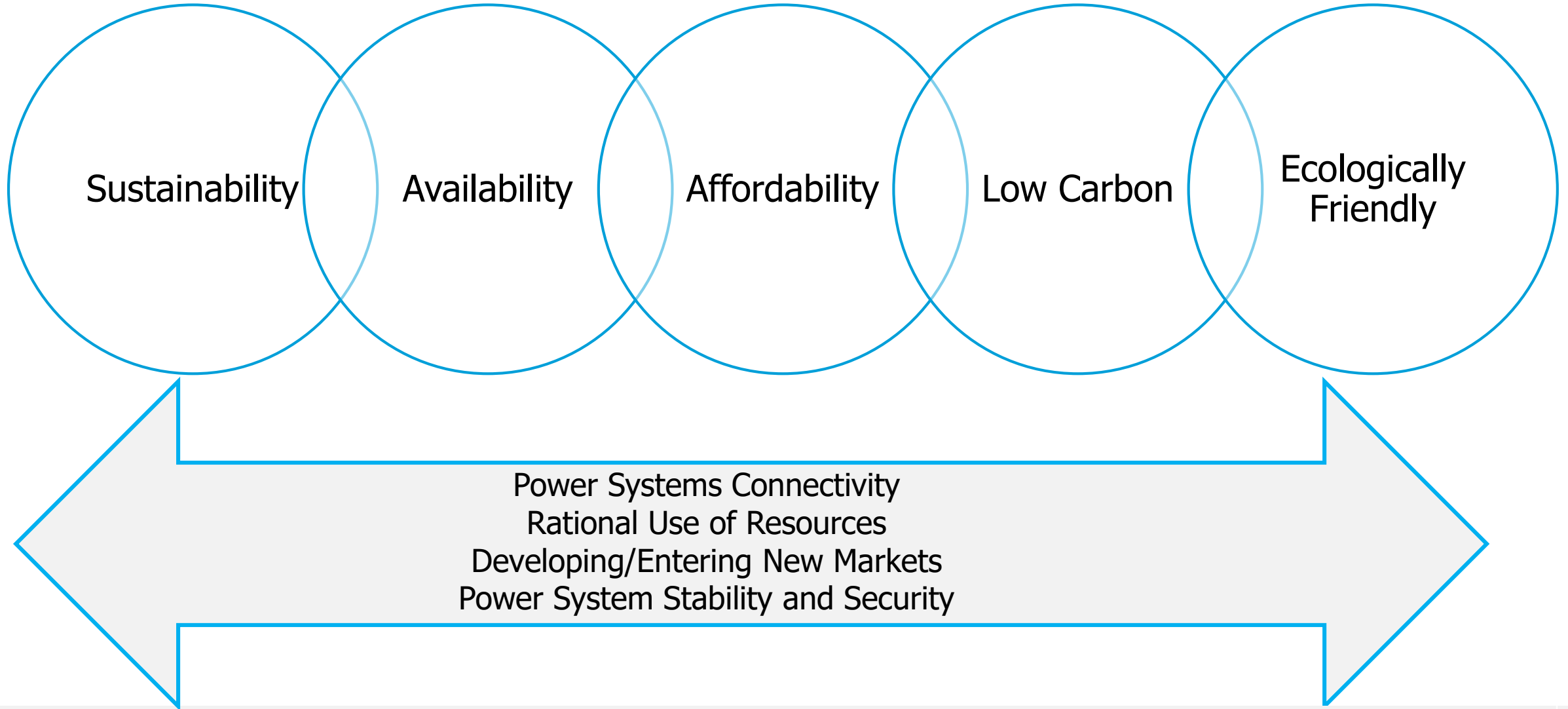
Public investment, loans or grants

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | X | | | | X | | X | X |
| | | X | X | X | | | X | X | X |
| X | X | X | X | X | | X | X | X | X |
| X | X | X | X | X | X | | X | X | X |

* It provides for the obligation of electric grid organizations in retail markets to primarily purchase electricity produced on the basis of the use of renewable energy sources to compensate for losses.

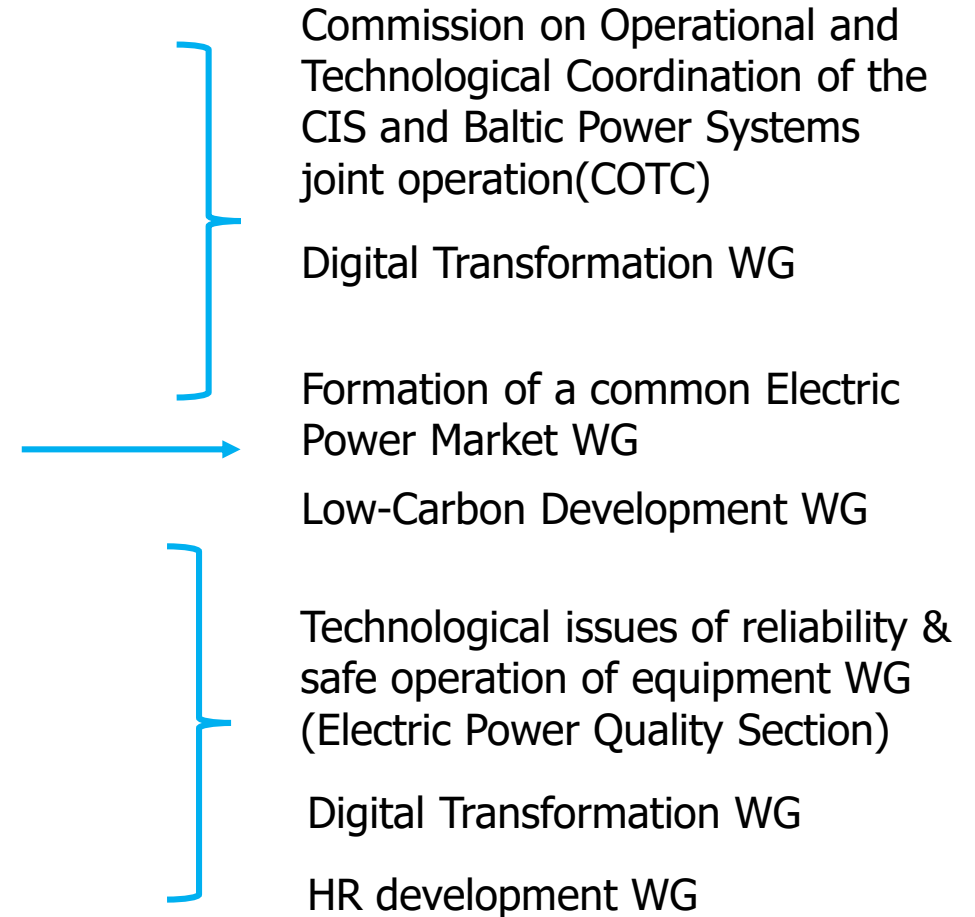
** Guaranteed payments for the capacity of renewable energy facilities.

Energy Policy Targets & Context



Integrating Variable Renewable Energy: Challenges/Governments support tools

- Integration Challenges
 - Advanced Forecasting
 - Fast Dispatch and Larger Balancing Authority Areas
 - Reserves Management
 - RES generation operation requirements
 - Flexible Generation Sources
 - Market Design—Flexibility Markets
- Challenges Variable Renewable Energy Poses to the Grid
 - Need for grid modernization and transnational power system connectivity reinforcement
- Impacts to Fossil-Fueled Generators
 - Extra costs of cycling, increased damage, decreased efficiency, increased fuel use, increased emissions



CIS EPC EC Strategic Sessions & Regulatory Decision Making Support
CIS EPC EC Analytical Papers, Reviews and Recommendations

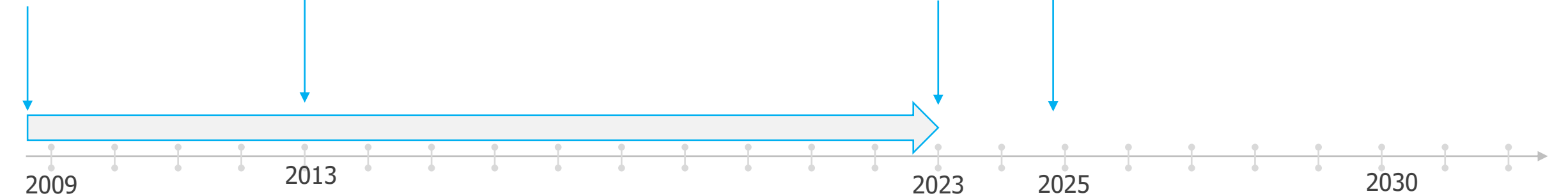
CIS Regulatory Frame on Renewable Energy (Low-Carbon Development)

The Concept of cooperation of the CIS Member States in the field of renewable energy sources

The Strategy of CIS Power Sector Development till 2035

The Concept of cooperation of the CIS member states in the field of energy

The Concept of cooperation of the CIS member states in the field of energy till 2035



PRIORITIES IN RENEWABLE ENERGY (Low-Carbon Development):

- ✓ *improving the reliability and quality of energy supply to consumers, taking into account the principle of economic efficiency*
- ✓ *exchange of experience in the use of renewable energy resources and creation of conditions for the production of appropriate equipment and the development of export supplies in compliance with the obligations assumed by the CIS member States and taking into account economic feasibility*
- ✓ *creating conditions for the development of small hydropower in the CIS member states*
- ✓ *exchange of experience in the field of formation of mechanisms to increase the investment attractiveness of renewable energy sources*
- ✓ *consideration of the issue of introduction of certificates of origin of electric energy*

Low-Carbon Development Context: plans Challenges/Governments support tools

Studies initiatives:

Technological neutrality as the basis for low-carbon energy development.

Assessment of the need to develop regional interstate and backbone electrical connections in Central Asia in connection with the increase in the share of renewable energy sources in the energy balances of the region's energy.

Assessment of the prospects for the coal industry in the framework of the energy transition.



CIS Low-Carbon Development Regulatory Roadmap (areas):

1. Emissions Trading Systems - ETS.
2. Voluntary Carbon Markets.
3. Electricity origin certificates markets.
4. Validation, verification, accounting and reporting.