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საქართველოს ეკონომიკისა და მდგრადი  
პანკრონდების სამინისტრო



MINISTRY OF ECONOMY AND SUSTAINABLE  
DEVELOPMENT OF GEORGIA

**ENERGY  
WEEK**



**GEORGIA  
2020**



**28-30 JAN, TBILISI**



**UNTAPPED POTENTIAL.  
LIBERALIZED MARKET.**



**The energy sector is the lifeblood of economic growth and the largest FDI recipient in Georgia. Today, the Government takes significant steps to strengthen Georgia's energy independence, as well as to achieve sustained investment, increased efficiency and supportive regulatory conditions.**

We have a clear vision supporting energy generation to deal with predicted deficiency and to export electricity. With this respect, the hydropower sector with a total investment of 5 billion USD is essential. Also, there is a great potential to develop solar and wind power energy resources.

Moreover, Georgia has confirmed its readiness and commitment to ensure the establishment of electricity markets that comply with free market economy principles and non-discriminatory access and transparency requirements. It is planned to fully open the market in 2021.

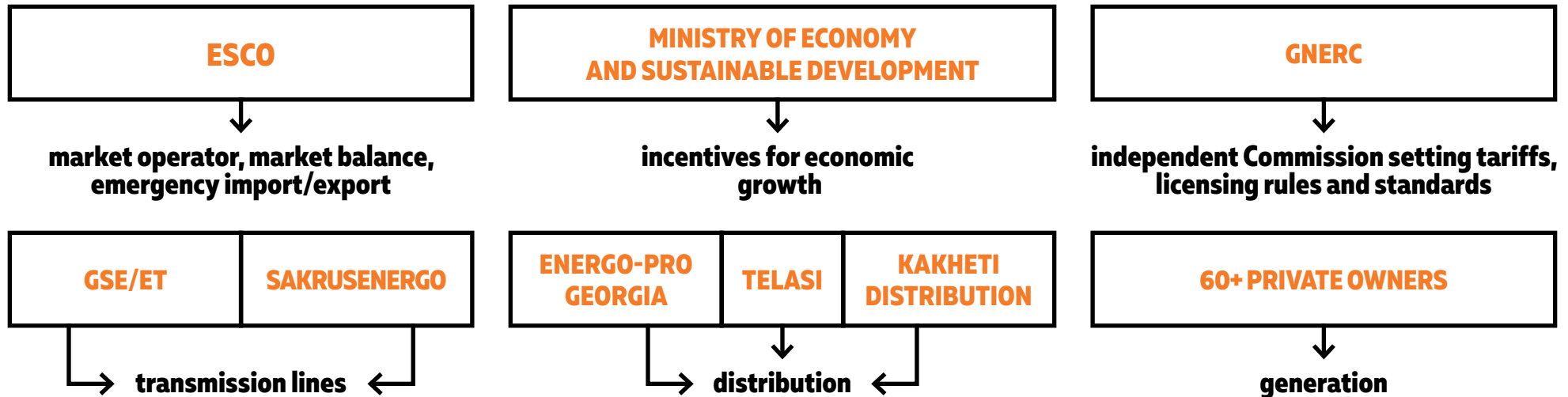


We look forward to discussing the possibilities of cooperation with international private investors and all the interested parties during the upcoming Energy Week Georgia 2020, aimed at fostering the deployment of renewable energy in our country.

### **NATIA TURNAVA**

*Minister of Economy and Sustainable Development of Georgia*

# GEORGIA ENERGY SECTOR OVERVIEW



- Energy sector was largest FDI recipient in 1H19.
- For over the past decade, the Government of Georgia has been actively promoting the development of the power sector, with various incentives and favorable terms offered to investors.
- A liberalized and deregulated market allows renewable energy generators to operate freely on the Build-Own-Operate (BOO) principle, with investors being free to choose the market they wish to operate in.
- Market deregulation process is evidenced by intensified activities from power traders and direct consumers' increased share in the total electricity consumption mix.
- Local energy demand is forecast to grow steadily in line with the GDP of the country, with further opportunities to export to neighboring countries suffering from structural power deficits or expensive power generation.

# RENEWABLE ENERGY POTENTIAL



## STRONG DEMAND GROWTH PROSPECTS



## HUGE UNTAPPED POTENTIAL

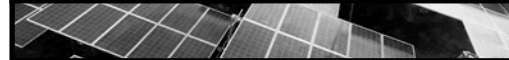
Annual HPP greenfield potential of **50 TWh**  
with installed capacity of **15000 MW**

Annual wind generation potential of **4 TWh**  
with installed capacity of **1450 MW**







## LIBERALIZED AND DEREGULATED MARKET

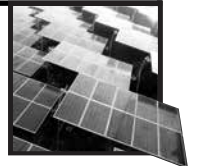
- A large portfolio of **HPPs** with total investment of over 5 billion USD
- **18 wind projects** on feasibility study stage
- **5 solar projects** on feasibility study stage. Udabno Solar Farm on construction stage
- Opportunities for developing **floating solar** power plants in Georgia
- Increase of **transmission capacities** with the neighboring countries up to total 5000 MW
- Construction of **electric cars** production factory in Kutaisi.



# CONGRESS AGENDA

CONGRESS DAY 1. 28 <sup>TH</sup> JANUARY			
08:30 - 09:30	REGISTRATION AND WELCOME COFFEE	08:15 - 09:25	BUSINESS BREAKFAST
09:30 - 10:30	WELCOME ADDRESSES		
10:30 - 11:00	COFFEE AND NETWORKING		
11:00 - 13:00	<b>GOVERNMENT INCENTIVES AND SUPPORT OF INVESTMENT PROJECTS IN ENERGY SECTOR</b> How does the <b>energy reform</b> stimulate private investors? What steps are taken to harmonize the existing energy legislation with the European standards and to integrate the local energy system with the European energy system? The annual electricity production in Georgia is 12,5 billion kWh and by 2030, the demand will reach about 21 billion kWh. What is the Government's plan to deal with <b>predicted deficiency</b> ? What are the main steps towards increasing <b>energy efficiency</b> ? How is the promotion of construction of new power plants achieved? How is the seasonal need for export/import of electricity fulfilled? Electricity tariff setting and guaranteed power purchase agreements.		
	13:00 - 14:00	LUNCH	

14:00 - 15:30	<p><b>THE FUTURE GROWTH OF HYDROPOWER</b></p> <p>HPP <b>investment portfolio</b>. What are the main driving factors for hydropower development in the country? Is there potential for <b>large hydropower schemes</b> in the country? Are there different permissions required for <b>small schemes</b> compared to the larger projects? Which HPPs need modernization? Which policies attract international investment into the country's hydropower industry? The Hydropower Sustainability Assessment protocol from the International Hydropower Association and other international standards. Success stories of HPP construction with FDIs.</p>
	
15:30 - 16:00	<p><b>COFFEE AND NETWORKING</b></p>
16:00 - 17:30	<p><b>ALTERNATIVE ENERGY SOURCES OF GEORGIA</b></p> <p>Global picture of renewable energy market and its implication for Georgia. What will it take to achieve national goal? The role of the state in <b>energy diversification</b> attempts. Are there any challenges and obstacles to the growth of alternative energy sources? How could these be overcome? Which are the main regions where growth is likely to be concentrated? Are there any <b>upcoming tenders</b>? What is the potential of <b>wind energy</b> in Georgia? What is the potential for solar energy? Are there any opportunities of developing <b>floating solar power plants</b> in Georgia? What are the implications of the <b>European solar module factory</b> opening for Georgia's market? How to ensure newly built plants comply with regulations? How to accurately forecast and predict renewable energy generation?</p>
	
19:00	<p><b>GALA DINNER</b></p>



## CONGRESS DAY 2. 29<sup>TH</sup> JANUARY



09:00 - 09:30

MORNING COFFEE AND NETWORKING

09:30 - 11:00

**FINANCING ENERGY PROJECTS**



What are the Government **guarantees and incentives** for investors? What are the investors really looking for? What are the **business models** for international banks and financial institutions? Deep dive into the decision process for financing energy projects. Which financing models reduce **risks to the private sector developer**?

11:00 - 11:30

COFFEE AND NETWORKING

11:30 - 13:00

**TRANSMISSION PROJECTS**



The overview of **rehabilitation works** on existing high voltage transmission lines. Construction of new transmission lines and substations. What is the expected **increase of transmission capacities by 2025**? What investment is needed for planned works? Can current transmission projects create demand to locally produce transmission equipment?

11:30 - 13:00

**ROUNDTABLE. ENERGY EFFICIENCY**



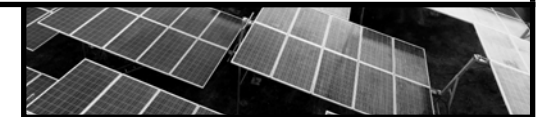
How to reduce the economy's energy intensity while allowing for continued economic growth and compliance with the country's international commitments? Where do investments to improve energy efficiency come from? How can state-funded **consumer incentives for energy efficiency** attract more investments?

13:00 - 14:00

LUNCH



<p><b>14:00 - 15:30</b></p>	<p><b>DISTRIBUTION AND STORAGE</b></p> <p>What are grid connection options for new renewable-installed capacities? Linking resources to major energy users to attract investment for further RES development or expansion. How do relatively concentrated distribution markets affect consumers? Large vs small distribution companies and the effects on tariffs. Electricity storage to shift excess supply to periods of peak demand. <b>Electric car manufacturing</b> factory in Kutaisi. What are the main barriers to smart charging and how to overcome them?</p>	<p><b>14:00 - 15:30</b></p>	<p><b>CTO ROUNDTABLE. NEW ENERGY TECHNOLOGIES AND INTERNATIONAL BEST PRACTICE</b></p> <p>What are the most game-changing emerging technologies in energy generation globally? Case studies and experience sharing.</p>
<p><b>15:30 - 16:00</b></p>	<p><b>COFFEE AND NETWORKING</b></p>		
<p><b>16:00 - 17:30</b></p>	<p><b>PANEL DISCUSSION</b></p> <p>Which macro trends are affecting energy investment in emerging markets today? Renewables' contribution to serving Georgia's electricity demand. The European experience with setting <b>the framework for RES projects</b> and what lessons can be learnt for Georgia's renewable energy sector development? Why are (long term) <b>PPA-tariffs</b> for renewables so important from an economic, regulatory, environmental, social and sustainability (global) perspective? <b>Renewable energy auctions</b>: expectations vs. reality.</p>		
<p><b>17:30 - 17:45</b></p>	<p><b>CONGRESS CLOSING CEREMONY</b></p>		



## TECHICAL VISIT. 30<sup>TH</sup> JANUARY



**9:45**

**PARTICIPANTS GATHERING (SHERATON GRAND TBILISI METECHI PALACE)**

**10:00 - 13:00**

**TECHNICAL VISITS (2 DIRECTIONS)**



**Technical visit 1. QARTLI WIND FARM**

Qartli Wind Farm is the first wind power plant in Georgia with a total installed capacity of 20.7 MW and an annual forecasted generated electricity output of 84 100 000 kWh. The plant was commissioned on December 20 of 2016.



**Technical visit 2. ZHINVALI HPP (130 MW) AND RESERVOIR**

Zhinvali, also Jinvali, is an artificial water reservoir located on the river Aragvi in Georgia. The building of the hydroelectric dam formed the Zhinvali Reservoir. The dam has been built in 1986.

**13:00 - 14:00**

**LUNCH (MTSKHETA)**

**14:00 - 16:30**

**MTSKHETA CITY TOUR**



Mtskheta was the capital of the ancient eastern Georgian kingdom of Iberia from the 3rd century BC to the 5th century AD. It is of extraordinary importance to the Georgian people and listed as a UNESCO World Heritage site. It was here that Georgia adopted Christianity in AD 334.

**17:15**

**RETURN TO SHERATON GRAND TBILISI METECHI PALACE**

**150 euro**

# ENERGY WEEK GEORGIA HIGHLIGHTS

- **3-day event featuring a rich Congress agenda and a Technical visit (*separate registration is required for the Technical visit*)**
- **Both plenary and parallel focus sessions**
- **Interactive discussions**
- **Business match making and B2B zones**
- **Limited exhibition space**
- **Local production of exhibition goods - hassle free for companies**
- **Trained consultants to help with networking**
- **Business Breakfast for top management**
- **Plenty of marketing options included in sponsorship packages (*packages provided on demand*)**
- **Gala dinner and cultural programme**



**Invest In Network is a boutique consultancy based in the UK. Our mission is fostering the deployment of renewable energy across the regions of Central Asia, the Caucasus and Eastern Europe.**

We offer best practice and expertise needed for opening up the markets, encouraging private sector involvement and ensuring the flow of investment by organizing high-level international events and B2B conferences, with the aim of ensuring that international companies get all updated information and have a means of effective communication with applicable Government bodies and energy community in host countries.



### AMONG OUR REGULAR PARTICIPANTS:



