

SAI20 SUMMIT 2024

Belém do Pará, Brazil
June 17 - 18





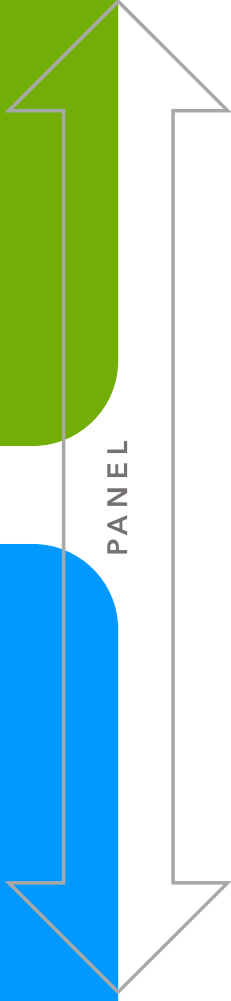
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Strategies and Challenges for
Climate Finance & Just and
Inclusive Energy Transitions

2

Multidimensional Poverty in
the context of climate change

PANEL



PANEL

1

Strategies and Challenges for Climate Finance & Just and Inclusive Energy Transitions





AGENDA

Keynote Speaker

Dr. Thelma Krug

Panellists

H.E. Counsellor Hesham Badawy

H.E. Nasir Sadigov

Ms. Kamila Camilo

Pronouncement

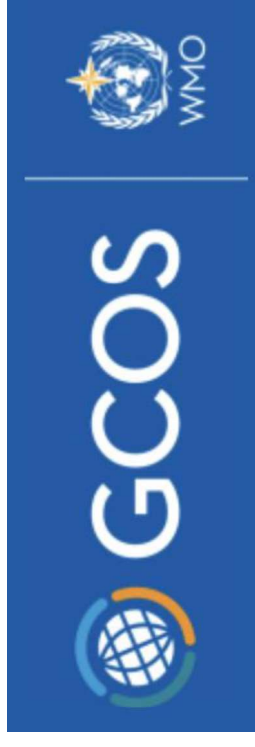
H.E. Isma Yatun

Specialist Speaker

Mr. Philipp D. Hauser



DR. THELMA KRUG



Dr. Krug will present the results obtained at the Intergovernmental Panel on Climate Change (IPCC) on climate change, climate financing, and the importance of mitigation and adaptation actions.

She will highlight recent advances in climate science, the urgency of limiting global warming to Paris Agreement goals and discuss financing perspectives for energy transition projects within the Climate Convention's scope.

Dr. Krug will also explore the challenges and opportunities related to auditing policies associated with climate change and their interconnection with sustainable development dimensions.



H.E. COUNSELLOR
HESHAM BADAWY



H.E. Counsellor Badawy, Chairman of the Egyptian Supreme Audit Authority (ASA), will share his SAI's experience overseeing climate finance and energy transition strategies.

His presentation will highlight the practices and approaches implemented by ASA to ensure transparency and effectiveness in managing funds allocated to climate and energy initiatives, underscoring the importance of rigorous oversight to achieve a just and sustainable energy transition





| H.E. NASIR
SADIGOV



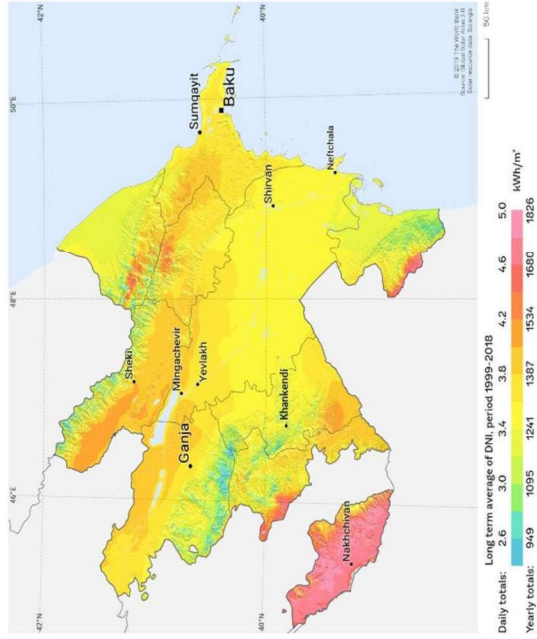
H.E. Sadigov, Deputy Chairman of the Chamber of Accounts of the Republic of Azerbaijan, will present insights on climate finance and energy transition strategies.

In the context of Azerbaijan's COP29 Presidency, he will highlight their SAI's practices ensuring transparency and effectiveness in fund management, emphasizing the critical role of rigorous oversight for a sustainable energy transition.



Calls for national climate action, inclusive energy transitions and public audit in the Republic of Azerbaijan

Azerbaijan is among the countries affected by climate change



Azerbaijan has set a policy goal transition to Solar and Wind Energy



Despite being rich in energy resources and recognized as an exporter of energy resources in the world, one of the main goals is to strengthen the use of renewable energy sources in our country.



Application of renewable energy based on the green energy in all areas of the economy in our country



Transition from traditional resources of energy to Renewable





"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



UN CLIMATE
CHANGE
CONFERENCE
UK 2021

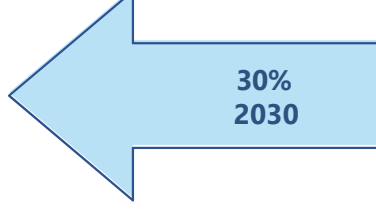
Reduction of greenhouse
gas emissions – 40% by 2050

NET ZERO EMISSION ZONE IN THE
LIBERATED LANDS

Renewable Energy share in
total installed capacity, %



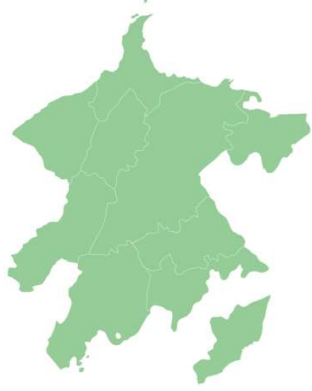
Reduction of greenhouse
gas emissions – 35% by 2030



Renewable Energy Potential

Technical potential

135 GW

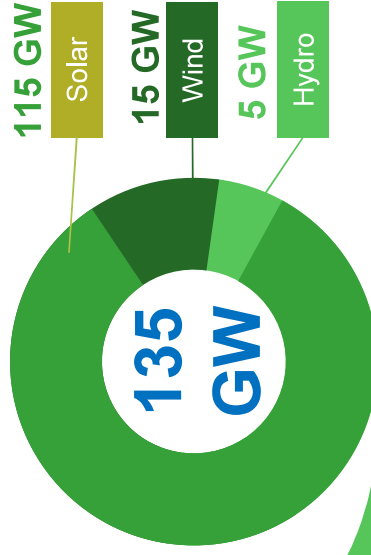


Onshore

157 GW



Offshore

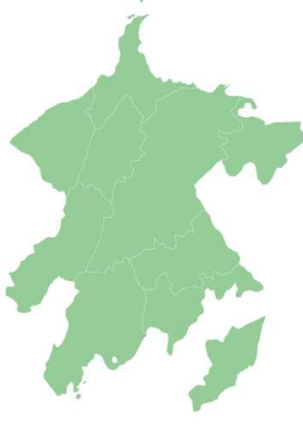


including:

Karabagh and East Zangazur – 10 GW
Nakhchivan – 5 GW

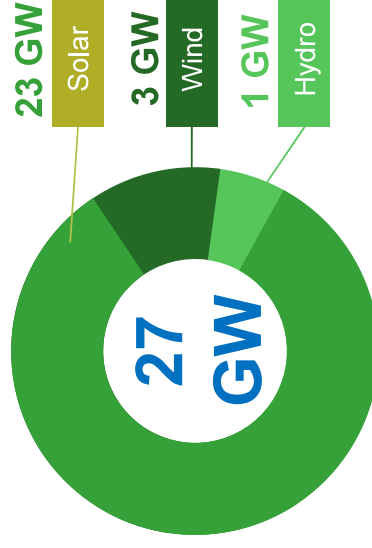
Economic Potential

27 GW



Onshore

The estimated potential is currently being evaluated



including:

Karabagh and East Zangazur – 2.5 GW
Nakhchivan – 1.5 GW



ELECTRICITY MARKET (installed capacity)

Total installed capacity

8320,8 MW

Thermal power plants (6632,9 MW)

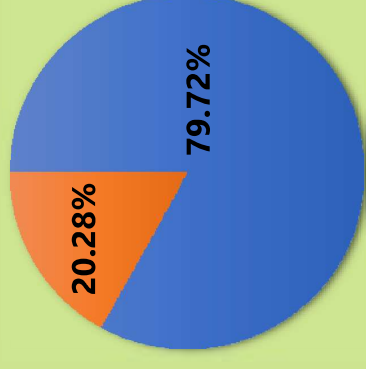
Hydropower plants (1158,2 MW)

Solar power plants (281,9 MW)

Wind power plants (66,45 MW)

Waste to energy plant (37 MW)

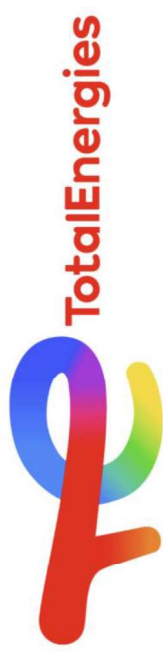
Bioenergy/ Biogas plant (\approx 1 MW)



■ Conventional power plants
■ Renewable power plants



Since 2020, cooperation on renewable energy projects with following companies has been started





The Garadagh Solar PV Plant is the largest solar power plant in the Caspian region and the CIS.



The station is the first industrial-scale solar power station realized by attracting foreign investment in our country

On 26 October 2023, the official inauguration of the 230 MW Garadagh Solar Power Plant took place.



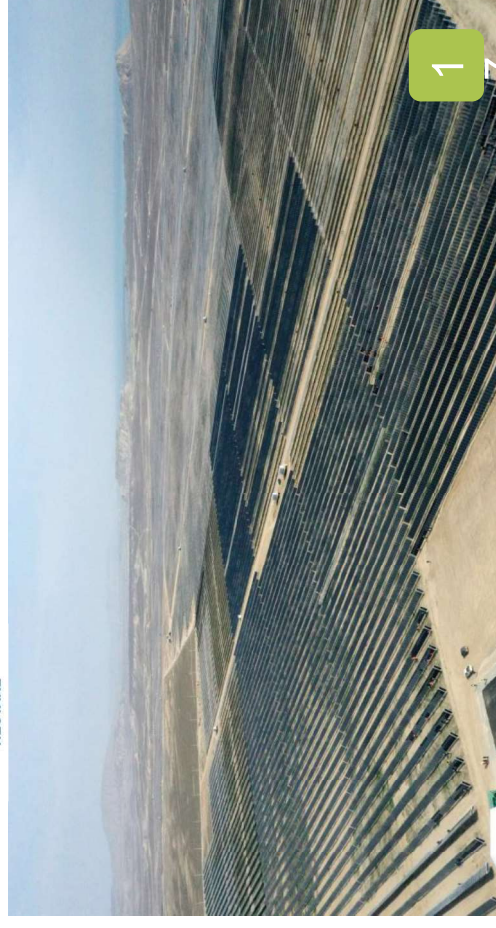
Total 550 Hectare Area

• The Garadagh Solar PV Plant cost - 262 million USD

• **AEP - 500 million kilowatt-hours**

• Saving natural gas - 110 million cubic meters of

• Carbon emissions saved - 200 thousand tons





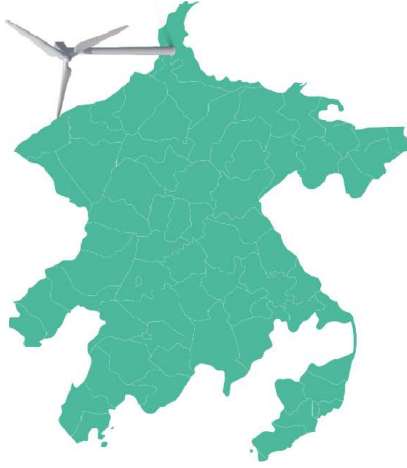
Investment agreements on green energy projects with a capacity of 1000 MW



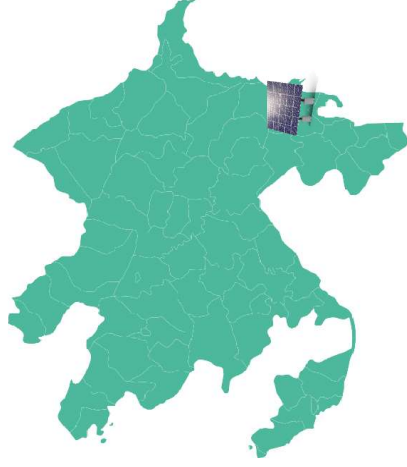
With the participation of Azerbaijani President Ilham Aliyev, on June 4, during Baku Energy Week, a groundbreaking ceremony took place for three power plants to be built by Masdar.



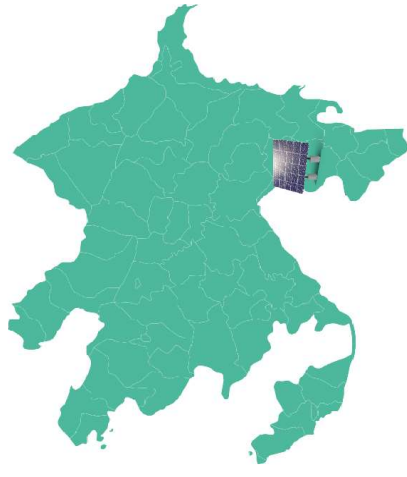
Absheron-Garadagh – 240 MW WPP



Bilasovar – 445 MW SPP



Banka – 315 MW SPP



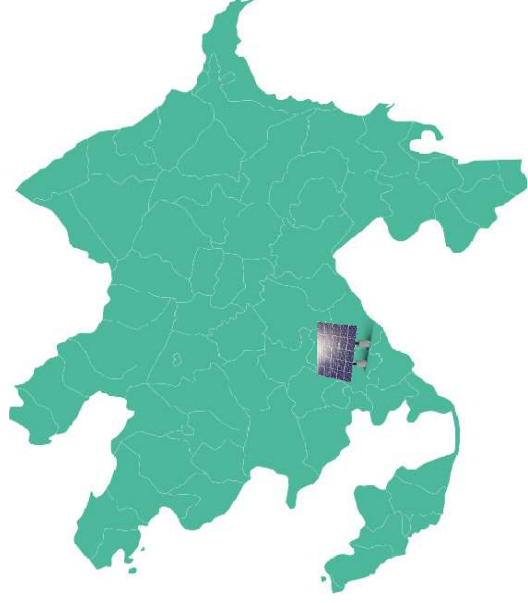
These agreements constitute the initial phase of the Executive Agreements entered into with Masdar in June 2022, focusing on the assessment, development, and execution of 4 GW Mega projects in renewable energy sources.



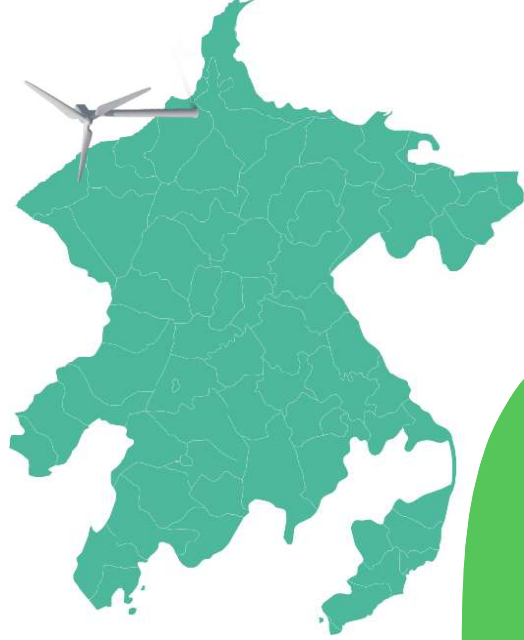
The opening ceremonies of the power plants are planned to be held in 2025



Sunrise – 240 MW SPP
Jabrayil district



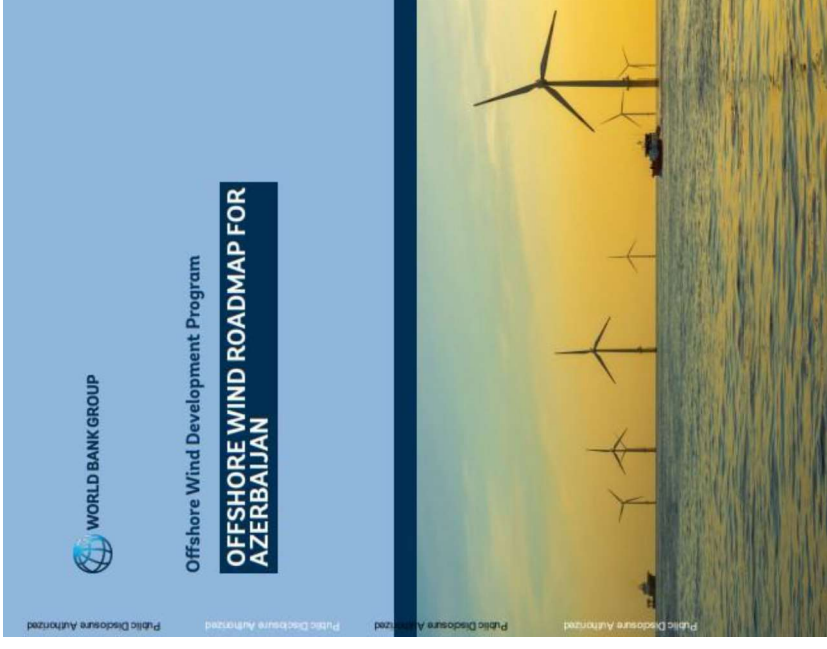
Khizi-Absheron – 240 MW WPP





“Azerbaijan Offshore Wind Roadmap” was developed and a “Memorandum of Understanding” was signed

“Implementation Agreement on evaluation, development and implementation of offshore 2 GW integrated wind and green hydrogen” were signed



“Green Energy Corridor from Azerbaijan to the EU”

Agreement on a strategic partnership in the field of green energy development and transmission between the Governments of the Republic of Azerbaijan, Georgia, Romania, and Hungary was signed on 17 December 2022 in Budapest



- Taking into account huge RE potential, OW energy could contribute to export perspectives of green energy from Azerbaijan to the European energy markets
- The Green energy could be exported in the form of electricity or as green hydrogen
- Green energy could be supplied from Azerbaijan to the EU energy markets through Georgia and then by underwater sea cable to Romania and Hungary with initial capacity of up to 4GW

BECAME HUB FOR GREEN ENERGY



Governments of Azerbaijan, Georgia, Romania and Hungary signed an agreement on strategic partnership in the field of green energy in Bucharest

Along with the export of green electricity, it is planned to evaluate the export possibilities of green hydrogen and other green gases, and the CESI consulting company was involved to carry out work in this direction.

Joint Communiqué of heads of relevant ministries of Azerbaijan, Kazakhstan and Uzbekistan



- ❑ cooperation in the field of energy exchange, focusing on renewable energy sources;
- ❑ cooperation in the development and export opportunities of "green" hydrogen and "green" ammonia;
- ❑ cooperation in creating appropriate infrastructure.

On May 2, 2024 the Memorandum of Cooperation on the merging of energy systems was signed in Uzbekistan between the heads of the relevant Ministries of Azerbaijan, Uzbekistan and Kazakhstan.

THE ESTABLISHMENT OF THE GREEN ENERGY ZONE (GEZ) IN THE LIBERATED AREAS CONCEPT & GEZ ACTION PLAN (2022-2026)

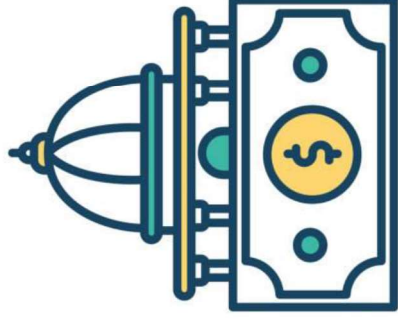
- ✓ The GEZ concept plan was developed with the support of TEPSCO which was approved by the Cabinet of Ministers.
- ✓ The action plan of GEZ was adopted by the Cabinet of Ministers
- **Ensuring energy security of the region:**
 - utilization of clean energy potential
 - application of energy efficiency technologies and methods
 - application of modern energy management approaches and tools



東電設計株式会社
Tokyo Electric Power Services Co., Ltd.

Pollution of the environment by vehicles that have become unusable and end of service life is currently a serious problem all over the world

“Vehicle Disposal Fund” has been established



Hybrid and electric cars imported into the country are exempted from customs taxes and duties.



In the fight against climate the importance and importance of the Supreme Audit Institutions have an exceptional role in

COOPERATION with

- International organizations
- Donor agencies
- Neighboring countries

Legal framework has been formed in this direction



- Natural resources
- Biodiversity
- Public Health



GREEN AND ENVIRONMENT AUDIT

"Green Auditing", an umbrella term, is known by another name "Environmental Auditing".



To Ensure Protection



The contribution of Chamber of Accounts as Supreme Audit Institution

- "Protecting the soil ecosystem"
- "Ensuring sustainable management"
- "Access to water and sanitation for all"

Implemented audits

The results of 5 performance audits on SDGs are included in INTOSAI's SDG Atlas.





SDG audits conducted by SAI Azerbaijan

2021

Assessment of the forest management activities of the Forestry Development Service under the Ministry of Ecology and Natural Resources of the Republic of Azerbaijan



Audit of the use of funds on the "Sewage Water Treatment Plant Project in Pirshagi Settlement in Baku "



2022

Assessment of the new subsidy mechanism effectiveness in plant breeding



2023

Performance audit of the activities carried out for the immunoprophylaxis of children against infectious diseases in the Republic of Azerbaijan



Performance audit of the assessment of the effectiveness of seed production activity



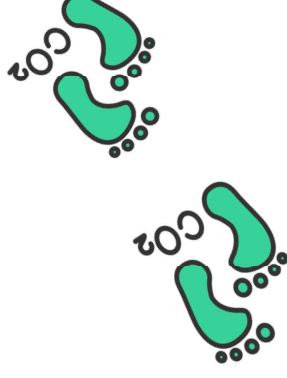
Assessment of the effectiveness of the activity on improving the surface water supply of agriculture in the regions using the Upper Karabakh Canal water



Audit measures conducted by SAI in "Smart Village" project of Zangilan district

General Information On The Project

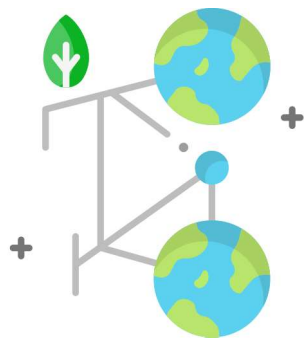
Name of the building (structure)	Units
Residential area of the village	119.0 ha
Residential houses	200 pcs
Administrative buildings	4 pcs
School (350 students)	1 pc
Kindergarten (60 kids)	1 pc
Type 1 (80) house gross living area	105.6 m ²
Type 2 (80) house gross living area	128.0 m ²
Type 3 (40) house gross living area	177.6 m ²



Environmental Aspects of the Smart Village

In a framework of audit activities it was identified that all buildings were designed and built in a modern, resource-efficient manner that significantly reduces carbon footprint.

Riding a bicycle instead of a car for 10 km a day will prevent the emission of 720 kg of GHG per year.



The streets more pedestrian and cycle friendly:

- 13,57 km pedestrian way,
- 13,20 km of bicycle track.



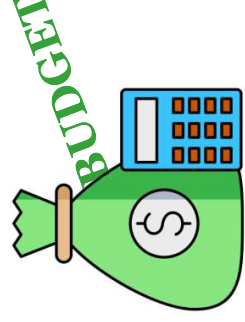
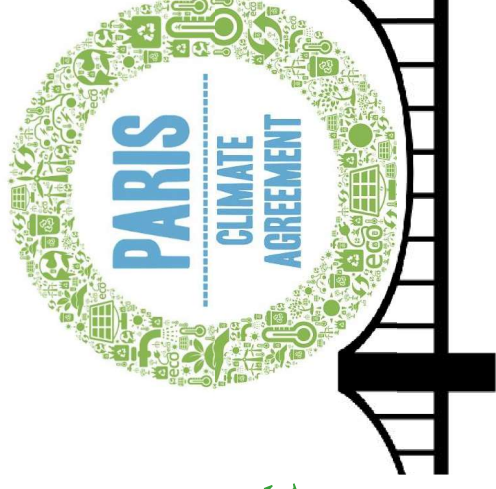
- Gravity fed water system is used to supply smart village with tap and irrigation water
- Environmentally friendly waste management process
- Selective storage and electric garbage vehicle for collecting garbage
- Solar orientation of buildings were taken into consideration to capitalize on the Sun's free energy

Climate change is closely related to budgetary, financial and socio-economic issues



- Organization for Economic Co-operation and Development (OECD)
- Green Budget Reference Framework (GBRF)

Article 2.1



Climate Change is the biggest threat to our Planet



Effects of a changing climate could result in between 68 and 132 million people falling into poverty within 10 years



INTOSAI
Working Group
on Environmental
Auditing

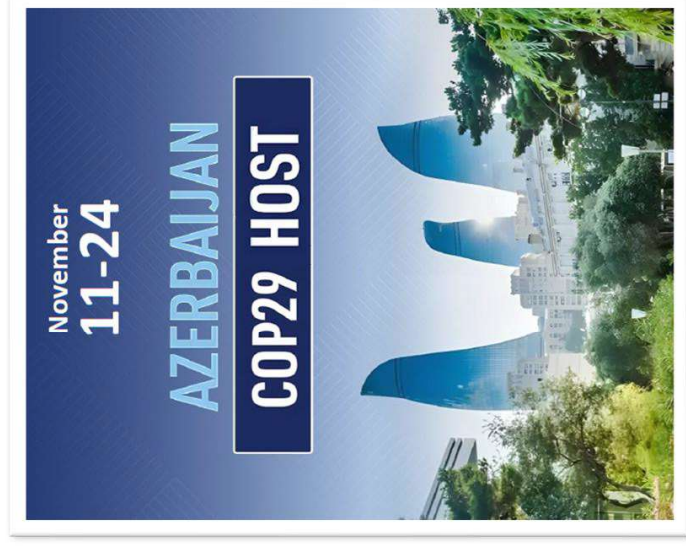
INTOSAI WGEA and Regional Working Groups Fight against Climate Changes



Climate Scanner Initiative



Global assessment of
government actions related to
climate change by SAI

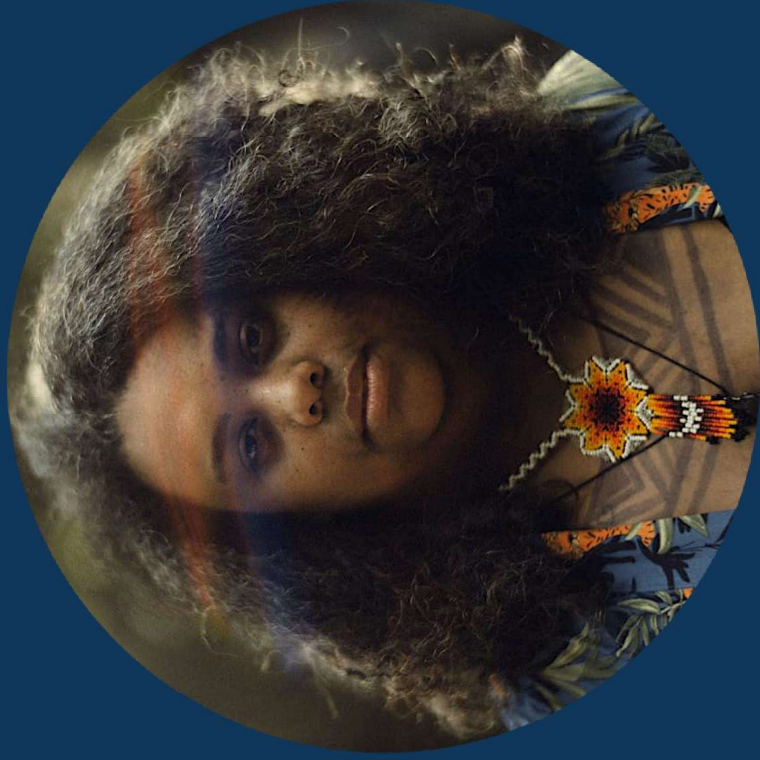




**THANK YOU FOR
YOUR ATTENTION!**



| MS. KAMILA
CAMILO



Ms. Camilo will examine the intersection of climate change, a just and inclusive energy transition, and gender equality.

She will emphasize that true climate justice requires all women to have access to fundamental resources such as land, basic sanitation, and drinking water.

By this means Ms Camilo will present the W20 perspective on how these rights are essential for female social justice and meaningful climate justice discussions.

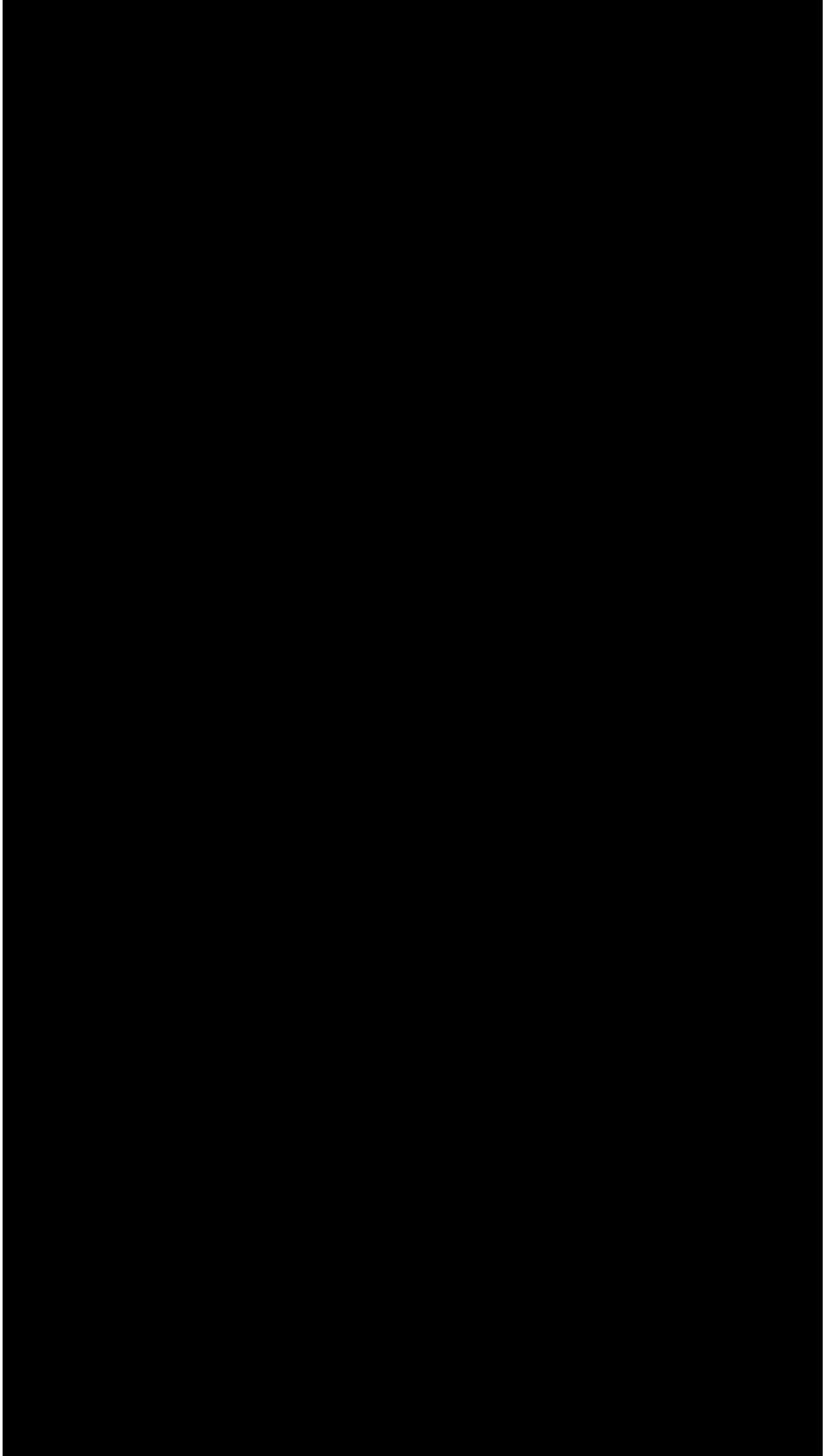


Climate Finance and Just and Inclusive Energy Transition: W20 Perspective



- Women empowerment and climate justice
- Social and environmental impact developed by women
- Importance of giving women their due space of power and voice in society to regenerate the Earth and preserve lives





| H.E. ISMA
YATUN



MR PHILIPP
D. HAUSER



Mr. Hauser will enrich the discussion by delivering the final address for the panel, offering a forward-looking perspective and directions.

He will put in the picture the primary takeaways, providing a clear understanding of the meeting's outcomes and future path for Climate Finance and Energy Transitions.

