

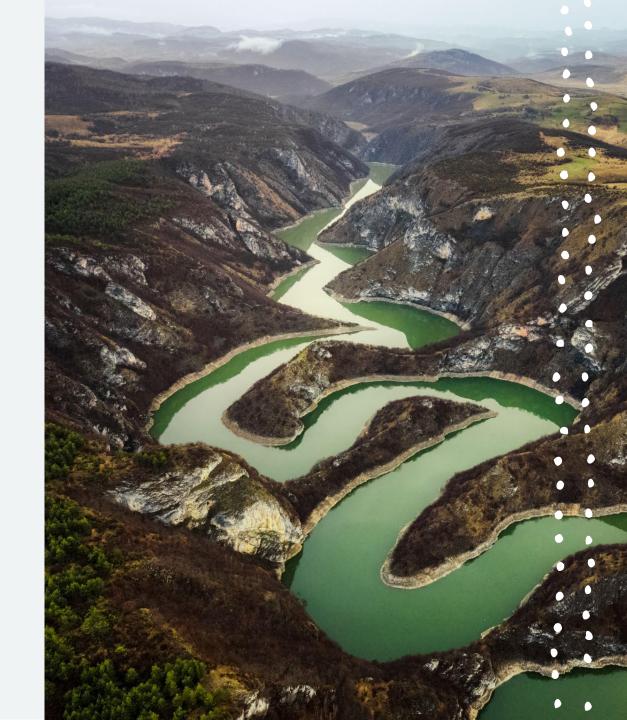
# The Power of AND

- Albania has one of the largest shares of renewable energy in its energy mix in South-East Europe but also has one of the highest energy intensities and lowest energy efficiencies
- How can Albania increase its energy and mineral production while reducing its emissions without compromising its economic growth, social equity and environmental quality?
- How can Albania use a global framework to sustainably manage its energy and mineral resources?



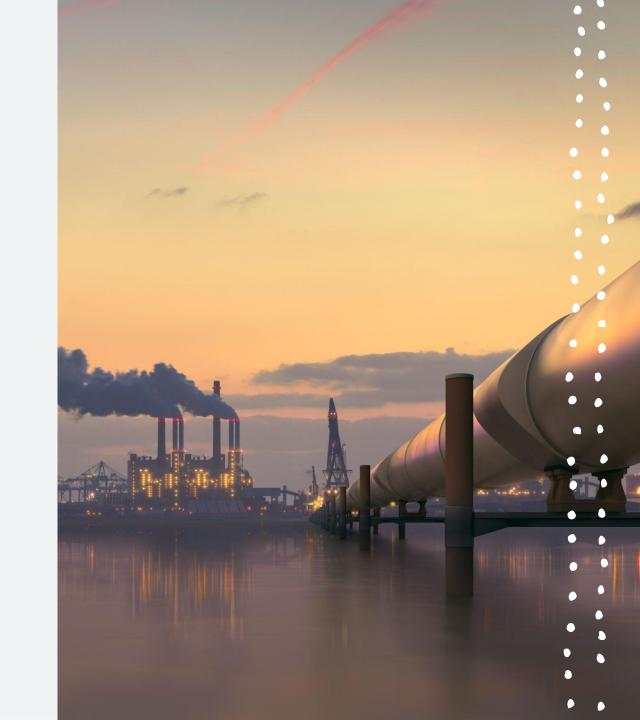
### Albania's Energy and Mineral Resources

- Oil reserves of around 120 million barrels and natural gas reserves of 5.7 billion m3
- Hydropower accounted for 99% of its electricity production in 2020
- Resources of bauxite, iron ore and chromium, as well as some potential for critical raw materials, such as chromium, nickel and bauxite
- Potential for renewable energy sources other than hydropower, such as solar, wind, biomass and geothermal
- NDC includes an unconditional emissions reduction target of 20.9% by 2030 and a conditional target of 36.9%.



# What are the Main Obstacles to Increasing Energy and Mineral Production while Reducing Emissions in Albania?

- Dependence on hydropower, which makes it vulnerable to climate variability and droughts and forces it to import electricity from neighbouring countries in dry years
- Limited domestic production and use of oil and gas, which exposes it to price fluctuations and supply disruptions
- Low energy efficiency and high energy intensity compared to the EU average, which implies a large potential for energy savings across all sectors
- Untapped potential for renewable energy sources, which could diversify its energy mix and reduce its emissions.



#### How can Albania Develop its Energy and Mineral Resources in a Sustainable Way?

- Diversification of its energy mix by increasing its domestic production and use of oil and gas, as well as by exploiting its potential for renewable energy sources other than hydropower
- Improvement of its energy efficiency and reduction of its energy intensity by implementing measures such as improving energy performance standards, promoting demand-side management, enhancing energy audits and labelling schemes, etc
- Exploitation of its potential for critical raw materials by developing sustainable mining practices and circular economy principles that can reduce waste and emissions and enhance resource efficiency and value creation.



#### How can Albania Develop its Energy and Mineral Resources in a Sustainable Way?

- Overcoming the institutional, regulatory and financial barriers by applying international frameworks and standards UNFC and UNRMS that can help improve data and governance of resource management
- Benefit from the EU's support and cooperation for developing critical raw materials and renewable energy sources. EU has included UNFC in the Critical Raw Material Act.



# How to Seize the Opportunities for Sustainable Resource Management?

- Using algae to produce biofuels and bioplastics that can replace fossil fuels and petroleum-based plastics, reducing emissions and waste
- Developing geothermal energy from abandoned oil and gas wells that can provide a low-carbon alternative for heat and electricity generation
- Recycling mining waste into building materials, fertilizers and metals can reduce the environmental and health impacts of mining waste, add value and extend the life cycle of mineral resources.



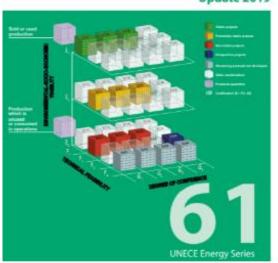
#### UNFC & UNRMS SUSTAINABLE RESOURCE MANAGEMENT.

Integrated and sustainable management of natural resources is critical to meeting universal needs.

Resources must be managed as a public good to achieve key SDGs.

UNFC and UMRMS provide the right information and tools to manage natural resources.

#### United Nations Framework Classification for Resources Update 2019



UNECE

#### United Nations Resource Management System Principles and Requirements







## Key Takeaways

- Albania has significant resources of energy and minerals that can contribute to its national income and development
- Albania faces several challenges in increasing its energy and mineral production while reducing its emissions
- Albania has several opportunities for developing its energy and mineral resources in a sustainable way
- Albania can adopt innovative solutions to address the challenges and seize the opportunities for sustainable resource management.
- Albania can use UNFC and UNRMS to support developing and implementing these innovative solutions and seize the power of AND.



### Recommendations

- Sustainable resource management is crucial for Albania's energy security, climate resilience and economic growth
- Albania needs to diversify its energy mix, improve its energy efficiency, exploit its renewable energy potential, develop its critical raw materials, and overcome its institutional, regulatory and financial barriers
- Albania can benefit from adopting some surprising but feasible solutions that can create economic, social and environmental benefits for different groups and regions in Albania
- Albania can rely on UNFC and UNRMS as valuable tools for improving data and governance of resource management.

