



NE Nomisma Energia

Renewable Energy Sources through the Adriatic and Ionian Region

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9th EUSAIR FORUM - SESSION ON ENERGY

Renewable Energy to Confront the Climate Change Challenge – Projects, Opportunities for

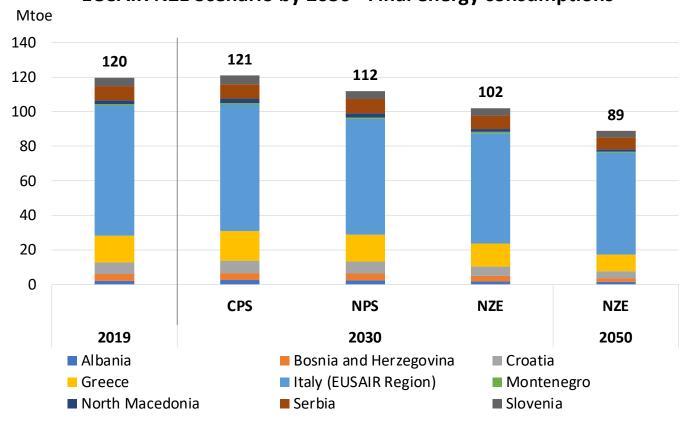
Cooperation and Action for the Adriatic and Ionian Region Šibenik (Croatia), 16th May, 2024





Reduction of final energy consumptions thanks mostly to efficiency

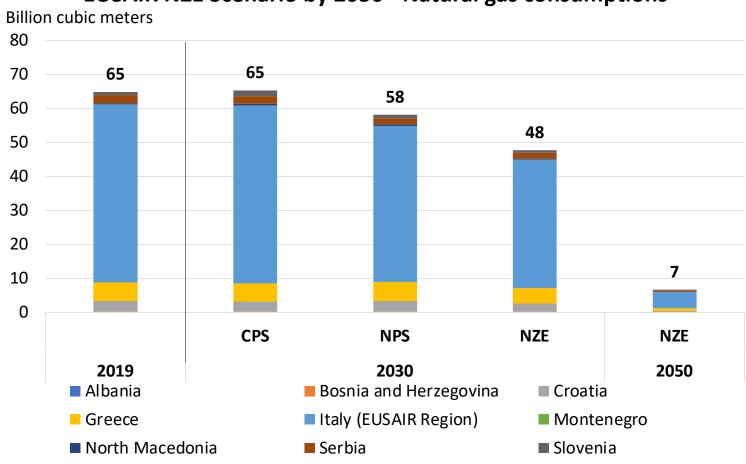
EUSAIR NZE Scenario by 2050 - Final energy consumptions



Important delays in the evolution of energy systems of each country

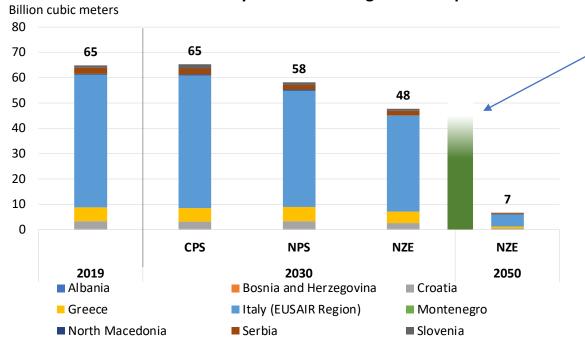


EUSAIR NZE Scenario by 2050 - Natural gas consumptions



Natural gas replaced by RES

EUSAIR NZE Scenario by 2050 - Natural gas consumptions



This is also a scenario to be considered, at qualitative level, in case decarbonisation policies are not fully successful.

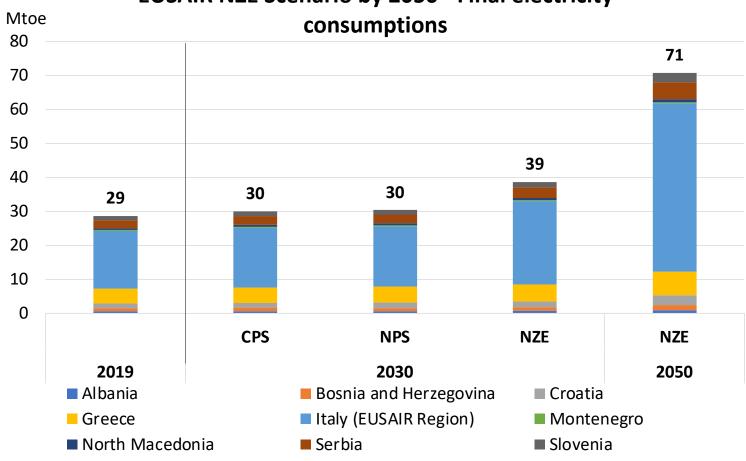
In 2030 there is the need to check whether the gas structures are still requested.

Hydrogen economy is a solution



NE Strong electrification ahead

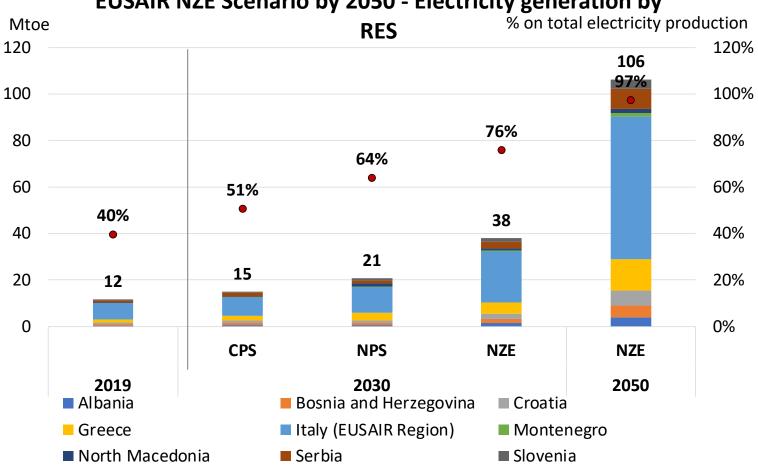






Fast rise of RES thanks to a long tradition and huge potentialities of the region

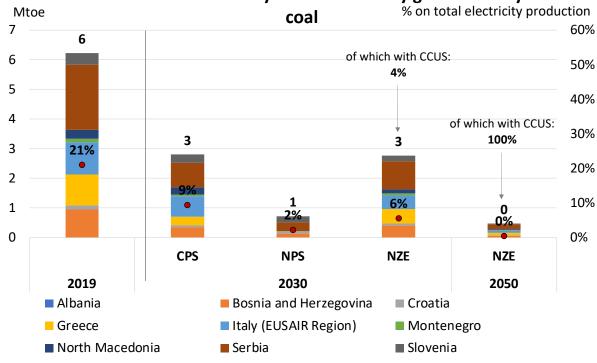






Coal power generation expected to fall



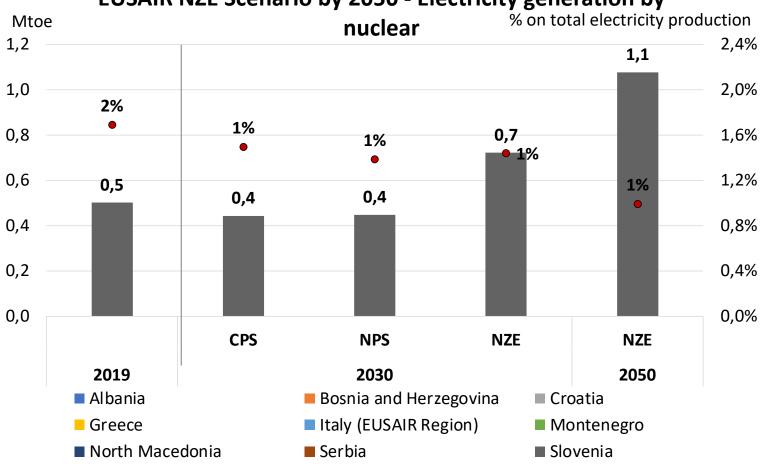


It is important to raise the question of who is going to pay for the stranded costs which may have negative impact on the economies

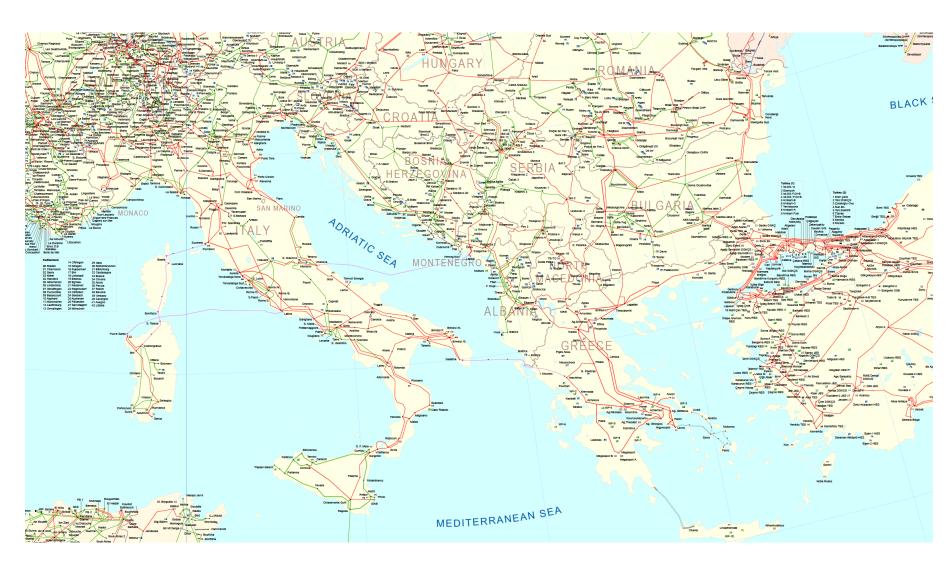


There is room for nuclear too, but marginal

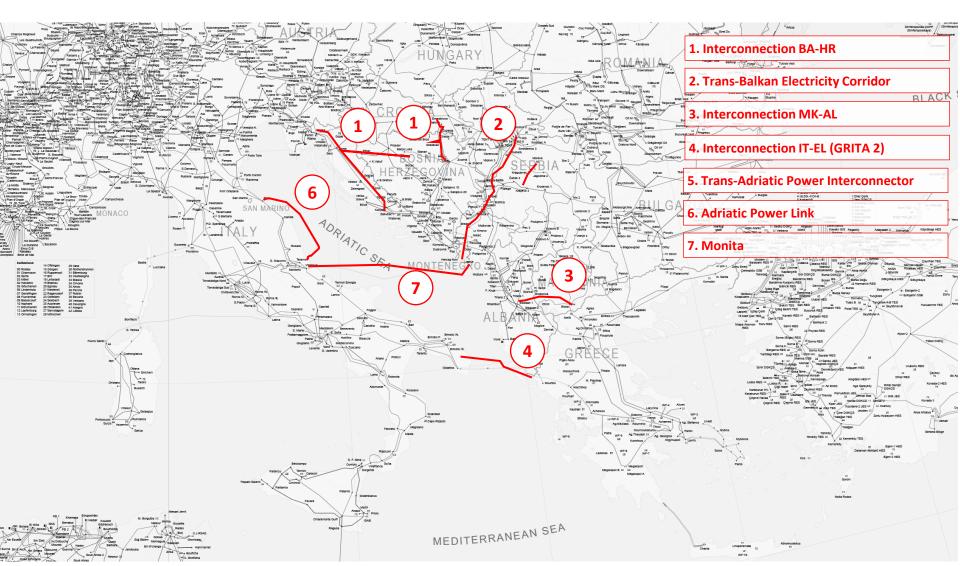




ENTSO-E EUSAIR ELECTRICITY NETWORKS





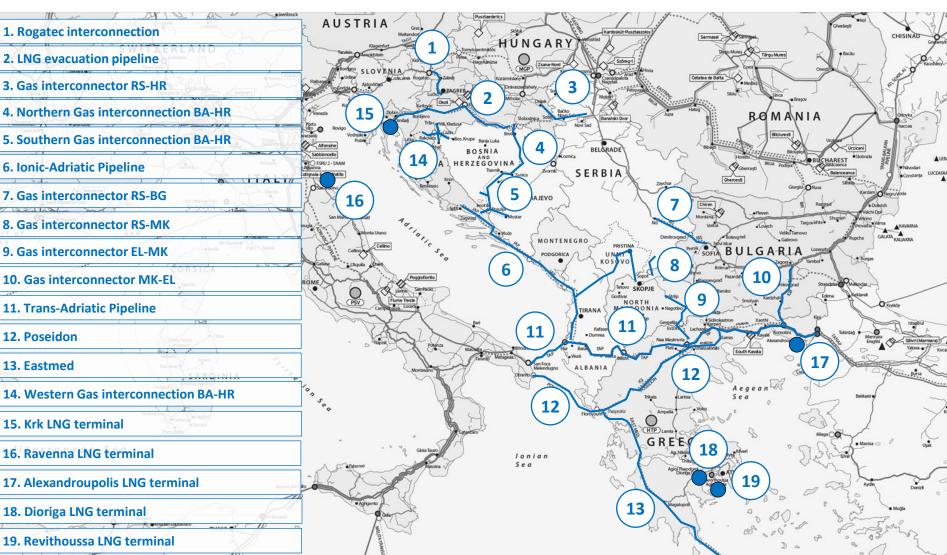


SO-G EUSAIR GAS NETWORKS





NATURAL GAS PROJECTS





CHALLENGES

- How to provide security of energy supply
- How to achieve energy transition towards decarbonisation
- How to guarantee that gas structures are needed
- How to phase-out coal avoiding social negative effects
- How to support the investments needed for RES
- How to increase cross-sector electrification and storage



OPPORTUNITIES

- RES have huge potentiality in the region
- Efficiency gives large possibility of demand reduction
- Natural gas is expected to be an intermediate fuel
- Natural gas system can be used for hydrogen transportation
- CCUS could be integrated into industrial clusters
- Hydrogen production from renewable power sources



CONCLUSIONS

- Difficult scenarios that need to be addressed
- Different and delays among countries
- Decarbonization and security are achievable targets
- Both became more ambitious and urgent after the 2022 crisis
- Huge opportunities of energy efficiency with digitalization
- Need of investments and innovation
- It is important to avoid heavy social and financial burdens
- Find solution for finance of RES and grids



RECCOMENDATIONS 1/2

- Enhance and facilitate energy interconnections between and amongst Countries from the Adriatic and Ionian Region
- Grant security of energy supplies
- Allow large-scale deployment of renewable and distributed energy resources also to the transport sector
- Develop flexible, efficient and resilient energy systems
- Use natural gas as a fuel for the energy transition
- Agree upon a joint strategy for natural gas deployment and investment on new natural gas infrastructure



RECCOMENDATIONS 2/2

- Develop and deploy low-carbon options notably renewable energies, including biofuels, biomethane and biohydrogen
- Create an inclusive and participatory environment that will enable to exploit the huge energy efficiency potentialities
- Design energy programmes and projects towards achieving climate neutrality taking into consideration social aspects
- Support a coordinated combination of policies, measures and instruments to shape an effective and consistent energy governance and just regulatory system with a view at the EU enlargement



RECCOMENDATIONS RES

- Improve good governance in the energy sector
- Enable conditions for the development of RES projects
- Ensure the consultation with local communities for implementation of larger RES projects
- Simplify subsidy procedures for PV installations
- Enhance energy efficiency through investing in buildings renovation and introducing energy communities
- Contribute to global climate change efforts through reduction of t GHG emissions.



QUESTIONS?

...thank you!