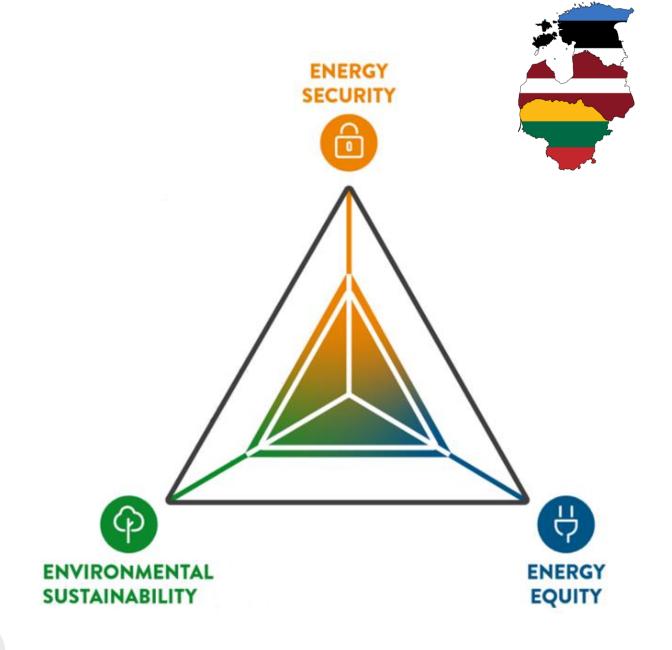
Index as a Lighthouse for Smooth Energy Transition

EGLĪTE Kristīne, VISKUBA Karīna, GROZA Edgars, GORBATKO Nikita, SMILTĀNS Edgars, MANDMAA Priit, TUMILO Robertas, KURSĪTE Raimonda, TIHONOVA-ZĀĢERE Santa



Content

- 1. World Energy Council (WEC) Energy Trilemma
- 2. Topicality and Problem
- 3. WEC Methodology
- 4. Adjustment of WEC Trilemma Methodology (Baltic Context)
- 5. Conclusion

World Energy Council (WEC) Energy **Trilemma**

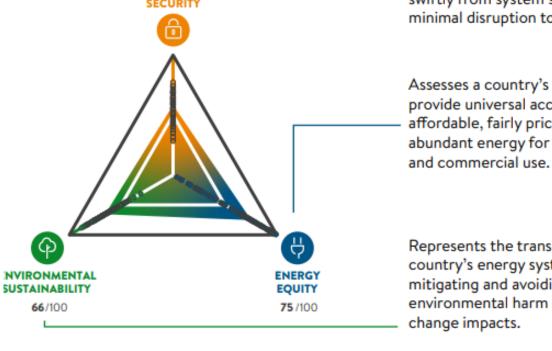
- WEC Energy Trilemma Index tool ranks 127 countries on their energy system performance through 3 dimensions
- The goal is to provide insights into a country's relative energy system effectiveness

World Energy Trilemma Index

Reflects a nation's capacity to meet current and future energy demand reliably, withstand and bounce back swiftly from system shocks with minimal disruption to supplies.

Assesses a country's ability to provide universal access to affordable, fairly priced and abundant energy for domestic and commercial use.

Represents the transition of a country's energy system towards mitigating and avoiding potential environmental harm and climate

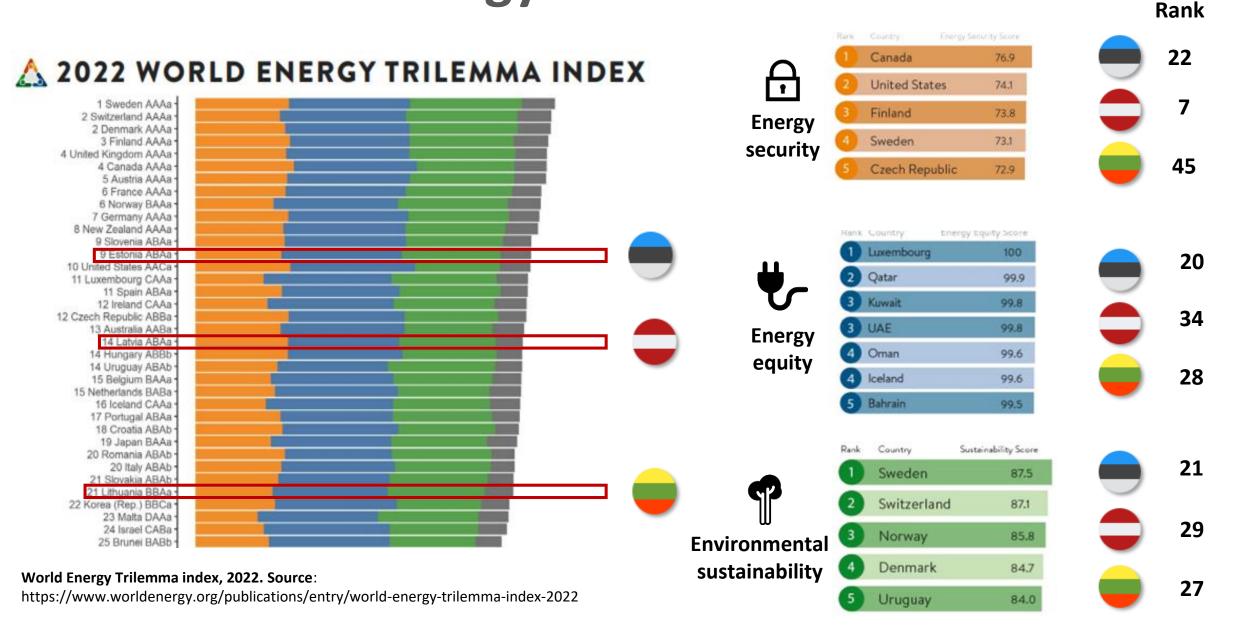


World Energy Trilemma index, 2022. Source:

58/100

https://www.worldenergy.org/publications/entry/world-energy-trilemma-index-2022

2022 World energy trilemma index

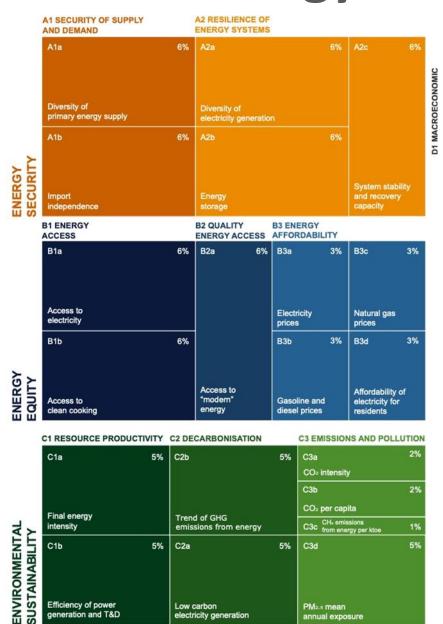


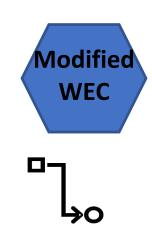
Topicality and Problem

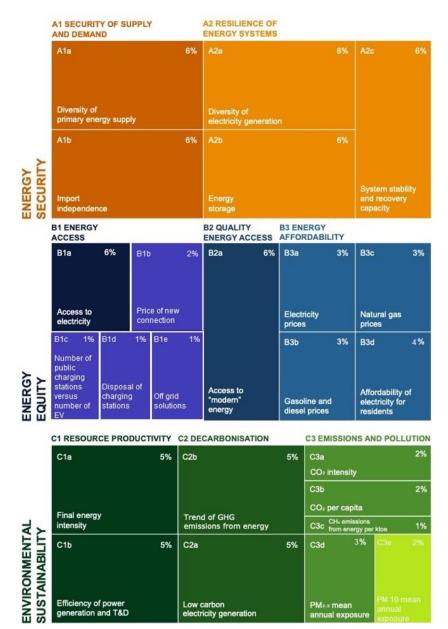
Without disclosing original methodology of Energy Trilemma Index, this research reviews status quo of the Baltic Energy Trilemma.

Research provides guide for the policy makers - highlight challenges and opportunities for improvements in meeting energy goals Latvia, Lithuania and Estonia usually are compared to each other, however, in many aspects of development we fail to miss looking at Baltics as one region, to reach larger goals together.







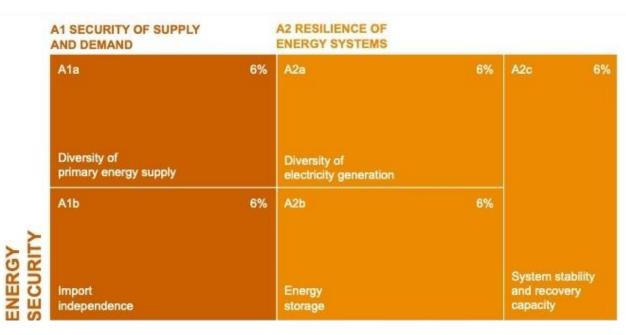








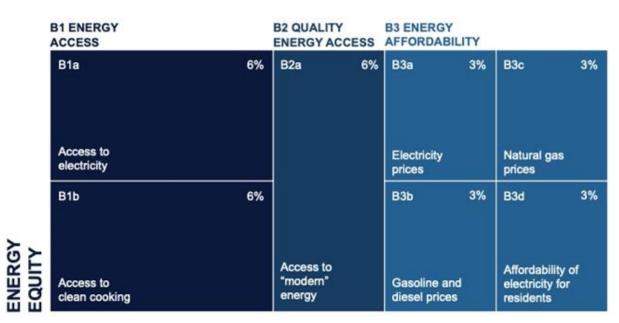
A1 SECURITY OF SUPPLY AND DEMAND		A2 RESILIENCE OF ENERGY SYSTEMS			
A1a	6%	A2a	6%	A2c	6%
Diversity of primary energy supply		Diversity of electricity generation			
A1b	6%	A2b	6%		
Import independence		Energy storage		System stability and recovery capacity	

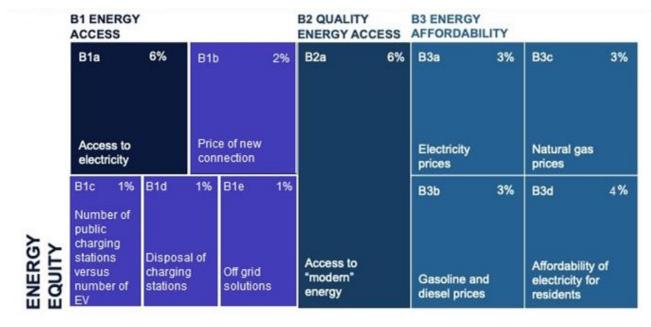












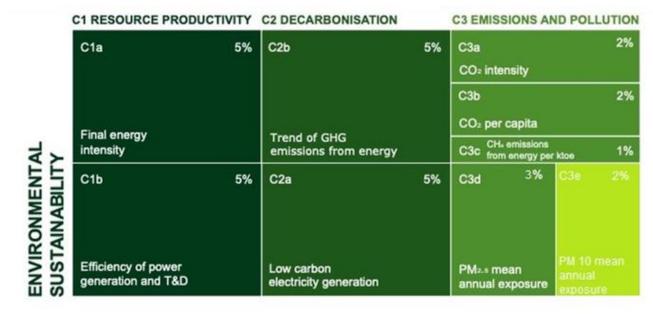






C1 RESOURCE PRODUCTIV	VITY	C2 DECARBONISATION		C3 EMISSIONS AND POL	LUTION
C1a	5%	С2ь	5%	C3a CO₂ intensity	2%
Final energy			C3b 29 CO₂ per capita		
intensity		Trend of GHG emissions from energy		C3c CH ₄ emissions from energy per ktoe	1%
C1b	5%	C2a	5%	C3d	5%
Efficiency of power generation and T&D		Low carbon electricity generation		PM2.6 mean annual exposure	

ENVIRONMENTAL SUSTAINABILITY



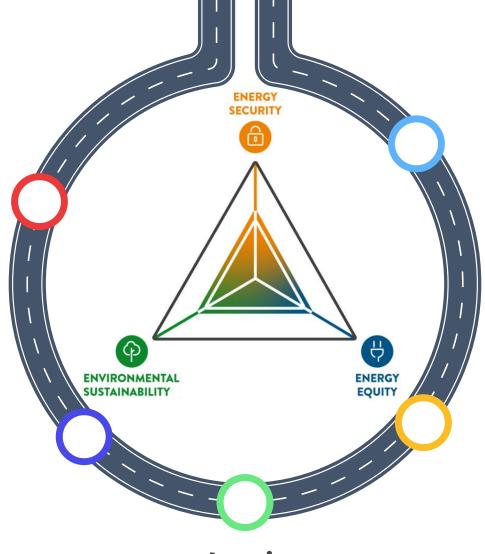
Conclusions

Energy strategy

Energy trilemma can be looked at as a backbone of energy strategy

Energy policy

Energy trilemma as a tool when planning energy policies.



Education

Public engagement, communication and research tool

Long-term planning

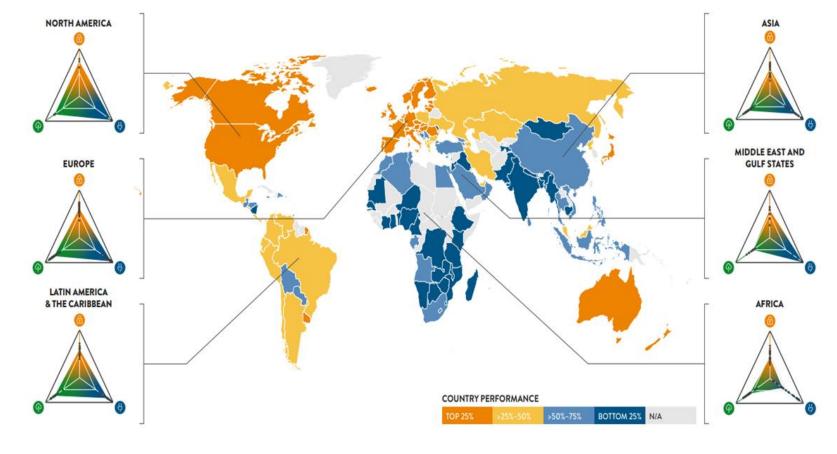
To avoid switching from one trending energy dimension issu, thus leaving other two behind

Cooperation

Shows strengths and weaknesses to develop a common energy strategy in Baltics



Thanks!







https://www.nell.lv/lv



https://www.facebook.com/NELLatvija



https://www.linkedin.com/company/nākotnes-enerģētikas-līderi latvija