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The Energy Trilemma Index as a tool to support national security of energy system towards climate neutrality

The World Energy Council's (WEC's) Energy Trilemma Index tool ranks 127 countries on their energy system performance through 3 dimensions: energy security, energy equity, environmental sustainability. The goal of the Index is to provide insights into a country's relative energy system effectiveness in each dimension and together. Highlighting challenges and opportunities for improvements, for example, regarding the transition to renewables, where new challenges might arise. Without disclosing original methodology of Energy Trilemma Index, this research reviews status quo of Latvian national energy security dimension. The aim of this study is to investigate Latvian energy security dimension to assist decision makers describing the key points that can move the energy sector onto safer ground. The dimension of energy security considers various sub-indicators that covers the effectiveness of management of domestic and external energy sources, along with the reliability and resilience of energy infrastructure. Up to ten-year period retrospective analysis of statistical records of those indicators as well as Latvian and foreign scientific and professional research studies was revised by authors and discussed with another 12 experts from a programme "The Future Energy Leaders Latvia" organized by the Latvian WEC committee. In conclusions, authors highlight most important opportunities and potential risks of no actions for Latvian energy security dimension. Authors also acknowledge need for new sub-indicators to represent an evolving energy system in transition.

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