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ANALYSIS OF THE STATE OF THE HYDROPOWER MARKET IN MODERN CONDITIONS: THE CASE STUDY OF THE BRICS COUNTRIES

Abstract:

Today, hydropower remains its position as the main source of renewable energy in the world, though the share of it in the energy mix has decreased with the increase of other alternative sources such as wind and solar. On the hydropower market, the BRICS countries hold four positions out of the top-10 leading countries by overall installed capacity and electricity generation, with China being the absolute leader, followed by Brazil in the 2nd, Russia in the 5th and India in the 6th places³. This article aims to analyse the dynamics of hydropower development in these countries, seeing as together they make up more than half of the market (55.8% in 2021, an increase of 16.4 p.p. from 2012). The authors assess indicators such as electricity generation and capacity, as well as identify the overall role hydropower holds in the energy mix of these countries and on the world hydropower market. It is noted that over the past 10 years, China has been the key player amongst the BRICS countries, followed by Brazil.

Keywords:

Hydropower, renewable energy sources, BRICS, electricity, developing countries

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