

The Hydroenergetic Potential of Small Rivers in the Racha Region

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In the modern world, interest in alternative and renewable energy sources is increasing, particularly in the development of small hydropower plants, which contributes to the country's energy security and sustainable development. Therefore, it is important to assess the hydroenergetic potential of the small rivers in the Racha region, which will establish a basis for the efficient use of energy resources in the area.

This study examines the physical and geographical conditions of the Racha region and includes maps illustrating the rivers within the area. Several selected small rivers are analyzed, with optimal sites identified for the installation of hydropower plants. The average annual discharge, intra-annual flow distribution, and energy potential of each river have been evaluated. This approach provides an opportunity to comprehensively assess the hydroenergetic resources of the Racha region and facilitates their targeted utilization to support the local population.