

# Small and medium-sized wind power generation systems in Ethiopia



## Overview

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What are the methods of wind energy assessment in Ethiopia?

The first one, part of the Ethiopian National Energy Commission report (ENEC, 1986) employed most of the standard wind energy assessment methods. Data from 39 stations with three wind measurements per day (06:00, 12:00, 18:00), over the period 1971-1978, were used.

What is the wind energy potential of Ethiopia?

Although the north-eastern and eastern half of Ethiopia still have the maximum wind energy potential, and values can exceed 6.0 kWh m-2 towards the far eastern border and the southern Red Sea coast, values are typically lower than in January and April.

Where are solar and wind energy resources in Ethiopia?

Assessment of solar and wind energy resources in Ethiopia 327 southern end of Ethiopia where wind data are in short supply. The geographical distribution of these stations are shown in Table 2. 4.

How will Ethiopia diversify its energy mix?

Looking ahead, Ethiopia is set to further diversify its energy mix by scaling up solar and geothermal projects, complementing its strong hydropower and wind investments. The government is also focusing on strengthening public-private partnerships to accelerate project implementation and attract global expertise.

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### Ethiopia Emerges as Africa's Renewable Energy Powerhouse

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### Ethiopia's Wind Power Potential Faces Challenges Amid ...

Recent research published in "Sustainable Energy Research" sheds light on Ethiopia's vast wind power potential, a resource that could significantly enhance the country's energy ...

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### Design and Analysis of Small-Scale Wind Turbine as An ...

Wind power plants in this category are generally designed for small and individual customers such as households, farms, weather stations, road signalization, and advertising ...

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Abstract and Figures Ethiopia possesses abundant wind resources that have the potential to revolutionize its energy sector by providing reliable and sustainable electricity ...



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# Unlocking wind power potential to improve energy security in Ethiopia

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## The Assela Wind Farm Delivers First Power to Ethiopia's ...



Assela, Ethiopia - 22 May 2025 - The Assela 100 MW wind farm has reached a significant milestone as its first turbines have started feeding power into Ethiopia's national grid. By the ...

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# Large-Scale Integration of Wind Power Generation in Ethiopia ...

Project progress, results, and outcomes were presented and discussed. Mohib Ullah presents a LastWind paper about Analysis of Power Quality Improvement Techniques Applied to Grid ...

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## Open Design and Local Manufacturing of Small Wind

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Abstract -- During the last decade, the local manufacturing of small wind turbines is becoming an increasingly common approach in rural electrification applications, especially ...

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## Market Assessment for Locally Manufactured Small Wind Turbines in Ethiopia

The market assessment was carried out by Wind Empowerment, an association for the development of locally manufactured small wind turbines for sustainable rural electrification. ...

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