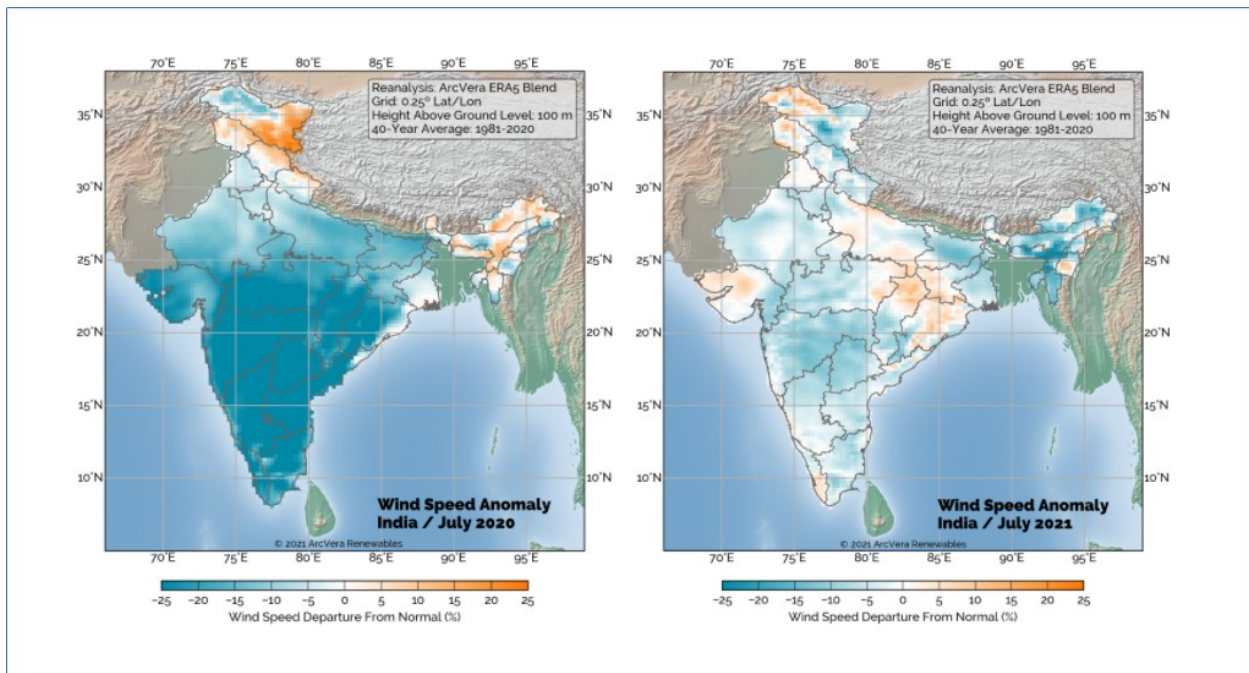


PRESS RELEASE

ArcVera’s analysis shows India's July 2021 monsoon wind energy production’s strong rebound from last year’s lows

After the shockingly low winds in July 2020, the Indian wind energy market has been on-edge and with good reason regarding July 2021's winds. ArcVera Renewables recently published the July 2021 India Wind Anomaly Map showing Gujarat-based wind farms likely experienced a turnaround, and all other Indian wind-producing states have experienced much better winds in July 2021.

Using just-released anomaly maps for July 2021, ArcVera’s anomaly map analysis confirms that July’s wind speeds recovered substantially and were above average in some cases. The following July 2020 and July 2021 anomaly map visualizes the improvement in July 2021 (right side) compared to July 2020 (left side):



ArcVera’s analysis reviewed each of the Indian states with significant operational wind projects installed, and the following table provides a breakdown of typical values of the wind speed anomaly in percent (individual site values may differ) for July 2020 and July 2021, demonstrating the vast improvement in July 2021:



INSTALLED CAPACITY (MW)	STATE	2020 - DEVIATION - MIN	2020 - DEVIATION - MAX	2021 - DEVIATION - MIN	2021 - DEVIATION - MAX
9366	Tamil Nadu	-15%	-25%	0%	-10%
8390	Gujarat	-10%	-25%	+10%	-10%
5432	Karnataka	-20%	-25%	0%	-10%
4607	Rajasthan	-5%	-20%	0%	-10%
4461	Andhra	-20%	-25%	0%	-10%
2675	Madhya	-15%	-25%	+5%	-10%

“ArcVera Renewables recognized the statistical anomaly represented by the 2020 Southwest Monsoon season in a series of analyses and research studies internally and for proprietary purposes. While it was statistically unlikely that the Southwest Monsoon season of 2020 would be repeated in 2021, our internal long-term climate forecasts, as well as earlier months already documented, bode well for the India wind energy through the remainder of this important season,” said Greg Poulos, Ph.D., ArcVera CEO and Principal Atmospheric Scientist, *“While this recovery does not eliminate the energy production and deep financial sting of July 2020, or indeed the entire Southwest Monsoon season of 2020, ArcVera analysis revealed the Southwest Monsoon’s winds of 2021 are thus far much more favorable for wind energy than last year,”* Poulos concluded.

ArcVera, a leading international provider of consulting and technical services for wind, solar, and energy storage projects, provides comprehensive wind and solar resource anomaly maps at the beginning of each month for several countries, including India. The anomaly maps enable wind and solar plant owners and operators to conduct a first-view analysis of the impact of resource variations on the power output of their assets.

“Since the extremely poor wind resource during India’s 2020 monsoon season, my clients were very concerned that climate change was permanently reducing the wind energy value of the monsoon season. The anomaly maps provide a quick way to see today that the 2021 wind resource is much closer to the long-term norm, and this is helping my clients stay focused on longer-term project development,” said Anbalagan CRA Ramasamy, Director of Business Development, Asia-Pacific & Middle East.

The ArcVera Renewables’ maps are freely accessible on the ArcVera website. A new map is posted for the preceding month in the first week of each month, including quarterly and Monsoon-period anomaly maps. Anomaly maps for April, May, and June of 2021 are also more favorable than 2020. These and all ArcVera Anomaly Maps issued to date may be viewed at arcvera.com.



NOTE TO EDITORS

About ArcVera Renewables

ArcVera Renewables provides finance-grade consulting and technical services for wind, solar and storage projects worldwide. For the last four decades, ArcVera Renewables is dedicated to delivering next-generation innovation in renewable energy to meet the needs of landowners, project developers, investors, project owners and operators globally. We provide technically sound and accuracy-driven technical services, including prospecting and resource assessment, independent technical and financial engineering, as well as plant optimization, operations and repowering.

For more information, please visit www.ArcVera.com.

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