

Renewable Energies

Full speed ahead! Energy is created sustainably in Saxony-Anhalt. Every second kilowatt hour is now generated from wind, sun and biomass. And strong companies such as ENERCON, which builds the world's largest wind turbines, are working here. Apropos wind: our state prevails on Germany's foremost wind front in terms of density and output of facilities.

Solar Energy

Saxony-Anhalt bears the sun in its heart. International investors have invested more than 9 billion euros in the SOLAR VALLEY site since 1991. No other region has established itself as a competence centre for industry-related research. Researchers at the Fraunhofer Center for Silicon Photovoltaics in Halle work on efficient silicon models which can prevail internationally in the hotly contested solar market.

Photovoltaics

Wind Energy

Thanks to its favourable geographical location Saxony-Anhalt has established itself as a "wind state". The world's most modern onshore wind turbines are located here – and are also produced locally: we do not run out of steam so quickly. In the meantime, wind-generated electricity holds a 62 percent share of electricity from renewable energies. Moreover, Fraunhofer researchers ensure that power supply networks also remain stable in times of energy transition.

Wind power

Biomass

Good country air instead of smoke and dust: generation of electricity from biomass ensures this in Saxony-Anhalt. A third of green electricity is already attributable to the utilisation of energy crops, wood or waste materials such as straw and slurry. Prokon Bio-Ölwerk is an example. A vegetable oil is made from 700,000 tonnes of rapeseed every year and thus forms the basis for up to 255,000 tonnes of biodiesel.

Bioenergy

Partner: Research & Development

Fraunhofer Centre for Silicon Photovoltaics CSP

Fraunhofer Institute for Mechanics of Materials IWM Halle

Fraunhofer Institute for Factory Operation and Automation IFF Magdeburg

IFAK

Martin-Luther-University Halle-Wittenberg

Otto-von-Guericke University Magdeburg

Max Planck Institute for Dynamics of Complex Technical Systems Magdeburg

Merseburg University of Applied Sciences

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