# Biggest terrestrial wind farm in France



The "Mont des Quatre Faux" Wind Farm project located in Pays Rethélois and Argonne Ardennaise (south of French Ardennes) will provide 63 wind turbines that are 200 m tall.

Planned production is over 700,000 MWh a year: equivalent to the annual electricity consumption of over 280,000 people, heating included.

Available and competitive space, qualified workforce and significant and consistent wind resource will encourage new and developed wind turbine maintenance and production activity in French Ardennes.

# Energy sector partners in French Ardennes:



et de la Maîtrise de l'Energie

ADEME: Agency for the Environment and Energy Management.

This government agency offers its expertise and advice to businesses, local authorities and the general public. It also helps funding projects.



### ALE 08: Ardennes Local Energy Agency.

Its main tasks are:

- Providing information, advice and training on issues, techniques and effective energy harnessing methods.
- Helping to set up technical, economic, legal and financial projects.



Climaxion: special regional aid programme.

Issued from collaboration between the ADEME, Grand Est Region and French government, Climaxion supports territories as they implement tangible energy transition and circular economy solutions. This programme offers financial support to companies for studies and investment that will limit environmental impact and consumption of resources (water, energy and materials).

In French Ardennes, all players (French government, local authorities, Chambers of Commerce, energy carriers, ADEM ALE 08, etc.) are working together within the Energy Transition Group to develop renewable energies and encourage new economic sectors to emerge in the field

## Ardennes development is your business partner to support you in your projects

Development Setting up

Investment

Information









Tell us about your project!

### www.ardennes-developpement.com/en





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# Renewable energy

Energy transition: an asset for economic growth





Historically producer of nuclear, hydroelectric, wind and anaerobic digestion energy, French Ardennes region has been running since 2010 a plan to develop renewable energy production.

The region is now a destination of choice for any company committed to sustainable development thanks to its favourable environment,

excellent location close to the rest of France and Northern Europe,

industry expertise, attractive tax advantages and more...

A full range of natural resources

Innovative know-how

Growing economic potential

French Ardennes are using 30.6% renewable energy as a whole, and the region is experiencing strong sector growth:

35

wind farms built (850 000 MWh)

20

hydroelectric power stations
(60 000 MWh)

12

biogas installations
(48 000 MWh)





3% Biogas 2,6% Hydroelectric energy Wood energy Wind energy

Solar thermal energy 0,1%

53,7% 39.1% 1,0% Geothermal energy Photovoltaic energy 0,5%

Source: Energy Transition Group - 2018

IN 2018, FRENCH ARDENNES PRODUCED 2,270 GWH OF RENEWABLE ENERGY. THIS COUNTS FOR 30.6% OF THE REGION'S ENERGY CONSUMPTION.

BIOMASS AND WIND ENERGY REPRESENT OVER 90% OF THE RENEWABLE ENERGY PRODUCED IN FRENCH ARDENNES. WIND ENERGY AND BIOGAS PRODUCTION IS ABOVE THE NATIONAL AVERAGE (7.1% FOR WIND)

# HYDROELECTRIC

Hydroelectric energy is produced by converting hydraulic energy (waterfall or flow) into electrical

## PHOTOVOLTAIC ENERGY

## **BIOGAS**

Smurfit Kappa

AN INDUSTRIAL



### **WOOD ENERGY**

### (Thermal production)



### WIND ENERGY

### Main production area



issued (148 wind turbines/496 17 ongoing

12 permits

projects.



- Wind farm maintenance technician training Lucée Bazin high school in Charleville-Mézières
- Highly skilled workforce across a range of high-level areas: mechanics, hydraulics, electronic engineering, IT and composite materials.
- Global BZEE (Bildungszentrum für Erneuerbare Energien) certification. plus GWO (Global Wind Organisation) certification coming soon
- Partnerships with companies in wind power sector



An investment company currently being created that can provide equity and support for all renewable energy projects.