

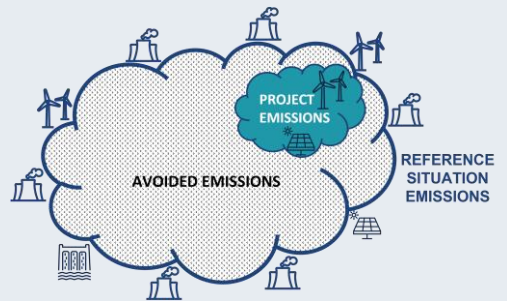
Renewable electricity production to avoid CO₂ emissions

Voltalia participate in the fight against climate change

The renewable energy produced by the power plants we develop, build or operate, on our behalf or that of our customers, avoids using carbon-based energies (coal, gas, fuel oil). By participating in the decarbonization of energy, Voltalia makes it possible to directly avoid the emission of tons of CO₂ into the atmosphere.

Voltalia produced 4.3 TWh of renewable energy, avoiding 1,643 kilotonnes of CO₂ equivalent*

Avoided emissions from a renewable power plant in a given country are the difference between the emissions that would have been emitted to the atmosphere if the electricity had been produced by all existing plants in the country (baseline emissions) and the emissions from the renewable plant.



$$\text{Avoided emissions (tCO}_2\text{ eq.)} = \text{Reference situation emissions}^{(1)} - \text{Project's emissions}^{(2)}$$

* Data 2023 for Voltalia and Helexia power plant

(1) = EF_{reference} (tCO₂eq./MWh) X Production (Year1 – MWh)

To calculate the emission factor (EF) of the reference situation, Voltalia uses the methodology of the "Clean Development Mechanism" (CDM) of the United Nations Framework Convention on Climate Change. All data used for the calculation of the emission factor come from a limited number of reliable and internationally recognised sources.



(2) = EF_{project} (tCO₂ eq./MWh) X Production (Year1 – MWh)

The project's emission factor depends on its lifetime carbon footprint. Voltalia's internal Centre of Expertise has developed a tool to calculate the complete carbon footprint of all solar, wind, hydroelectric and biomass power plants. This tool aims in particular to identify concrete levers for action to limit the induced emissions of a project and therefore to maximize the emissions it will avoid.

Voltalia has developed an internal tool to automatically calculate the estimated avoided emissions of a project, right from the development phase. This tool and the methodology for calculating avoided emissions are certified by an independent expert: ekodev.

