

## Energy independence burundi

Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country. Some of these energy sources are used directly while most are transformed into fuels or electricity for final consumption.

Energy production includes any fossil fuels drilled and mined, which can be burned to produce electricity or used as fuels, as well as energy produced by nuclear fission and renewable power sources such as hydro, wind and solar PV. Bioenergy - which here includes both modern and traditional sources, including the burning of municipal waste - is also an important domestic energy source in many countries.

Imports, particularly of fossil fuels like oil, natural gas and coal, make up an important part of the energy supply in many countries. Countries that rely heavily on imported energy may be vulnerable to supply disruption from external events such as the Covid-19 pandemic and the war in Ukraine. In countries that export large amounts of energy, falling energy prices can also cause major economic shocks.

Energy sources, particularly fossil fuels, are often transformed into more useful or practical forms before being used. For example, crude oil is refined into many different kinds of fuels and products, while coal, oil and natural gas can be burned to generate electricity and heat. Other forms of transformation, such as extracting gas or oil from coal, play a relatively minor role in the energy systems of most countries.

One of the most important types of transformation for the energy system is the refining of crude oil into oil products, such as the fuels that power automobiles, ships and planes.

Another important form of transformation is the generation of electricity. Thermal power plants generate electricity by harnessing the heat of burning fuels or nuclear reactions - during which up to half of their energy content is lost. Renewable power sources generate electricity directly from natural forces such as the sun, wind, or the movement of water.

Total final consumption (TFC) is the energy consumed by end users such as individuals and businesses to heat and cool buildings, to run lights, devices, and appliances, and to power vehicles, machines and factories. It also includes non-energy uses of energy products, such as fossil fuels used to make chemicals.

Some of the energy found in primary sources is lost when converting them to useable final products, especially electricity. As a result, the breakdown of final consumption can look very different from that of the primary energy supply (TES). Both are needed to fully understand the energy system.

The sectoral breakdown of a country's energy demand, which is based on its economy, geography and history, can greatly impact its energy needs and which energy sources it relies on to meet those needs - such as fueling



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automobiles, heating or cooling homes or running factories.

"This project aims to supply 235 GWh/year of clean renewable energy of that will be injected into the national grid, representing almost half of the country's current power generation," says Rikard Liden, World Bank Lead Energy Specialist and project Task Team Leader. "The energy supplied from the hydropower facilities will replace more expensive fossil fuels in the country, therefore contributing to reducing CO2 emissions and to climate change mitigation."

The project is also supporting critical energy sector reforms. In a context where the Government of Burundi (GoB) has developed an ambitious program to reach universal access by 2030, the Bank is actively supporting that program along with other donors and this additional financing will provide more capacity to supply additional customers that will be connected through that program.

The PHJIMU is implemented by the Production and Distribution of Water and Electricity Company (REGIDESO), the public utility, on behalf of the Government of Burundi and co-financed by the International Development Association (IDA), the European Union (EU), the European Investment Bank (EIB), the African Development Bank (AfDB), the GoB, and REGIDESO.

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