

## Solar Energy South Africa

# Latvia electrified grid



## Overview

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Almost half of the electricity used in the country is provided by renewable energy sources. The main renewable resource is hydroelectric power. Latvia has laws that regulate the building of power plants and plans to sell electricity at higher prices. This is a stimulus for investment, especially taking into consideration the fact that Latvia .

Latvia is a net energy importer. Primary energy use in Latvia was 49 TWh, or 22 TWh per million persons in 2009. In 2018, electricity consumption per capita was 3731 kWh. Latvia has adopted the EU target to produce 50% of its energy from renewable sources by 2030.

The 2021-30 plan set a target of reducing greenhouse gas emissions by 65% compared to 1990. There is a target of being carbon neutral by 2050.

Fossil fuelNatural GasFrom 1 January 2023 Latvia banned the import of natural gas from Russia. The replacement comes from connections to LNG terminals, the LNG terminal i. Fossil fuelNatural GasFrom 1 January 2023 Latvia banned the import of natural gas from Russia. The replacement comes from connections to LNG terminals, the LNG terminal in Lithuania, and from 2024 the recently-opened Inkoo LNG terminal in Finland. JSC Conexus Baltic Grid is the natural gas transmission system operator in Latvia. International transmission pipelines are 577 km long, consisting of the Riga-Pahneva, Pleskava-Riga, Izborska-Inčukalns UGS, Riga-Inčukalns UGS I - line, Riga-Inčukalns UGS II - line, Vireši-Tallinn pipelines. The total length of regional transmission pipelines is 613 km. Latvia has underground gas storage facilities at the Inčukalns UGS, with a capacity of 4.47 billion m . Natural gas companies include . Renewable energyRenewable energy includes wind, solar, biomass and geothermal energy sources. Almost half of the used in the country is provided by renewable energy sources. The m.

It was agreed in 2018 that Estonia, Latvia and Lithuania would connect to the European Union's electricity system and desynchronize from the Russian BRELL power system. This is expected to be completed by February 2025. An interconnector linking Lithuania with Poland is to be built, called the Harmony Link Interconnector, which will be important on harmonising the sys. It was agreed in 2018 that Estonia, Latvia and Lithuania would connect to the European Union's electricity system and desynchronize from the Russian BRELL power system. This is expected to be completed by February 2025. An interconnector linking Lithuania with Poland is to be built, called the Harmony

Link Interconnector, which will be important on harmonising the system. A back up plan, should Russia disconnect the Baltic states before 2025, would enable a connection to the European grid to be completed within 24 hours.

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Baltic states synchronization with UCTE is an international electricity transmission infrastructure project to synchronize the three ( , and ) with the (UCTE), managed by , and leave the transmission system managed by the BRELL (Belarus, Russia, Estonia, Latvia, Lithuania) agreement. The project is expected to be completed by February 2025.

Which Baltic states are still on the Soviet era power grid?

By Jason Moyer (FPRI) — The Baltic states of Estonia, Latvia, and Lithuania have an enduring connection to their occupation by the Soviet Union — they are all still on the Soviet-era power grid, controlled today by Moscow.

Will Russia decouple the Baltic power grid?

The project to decouple the power grid of the three Baltic states from Russia has been in the works since the 2000s but became more urgent after Russia's full-scale invasion of Ukraine in 2022. It will finally come to fruition in February 2025.

Is Lithuania ready to synchronize with the EU grid?

The EU has now committed 1.2 billion euros (\$1.3 billion) to prepare the region for decoupling from the old grid, covering about three-fourths of the total costs. Lithuania was ready as of 2023 to synchronize with the EU grid but, in a show of Baltic solidarity with Estonia and Latvia, agreed to wait and de-sync from Moscow as a triad.

Should the Baltic states synchronize with the EU grid?

For the Baltic states — all three of whom are NATO allies and EU member states — synchronizing with the EU grid shores up critical infrastructure, deepens energy security in the region, and removes one lever of influence Russia might attempt to wield against them.

Does Latvia need more decarbonisation?

The electricity sector is dominated by renewables, but more decarbonisation is needed in other sectors. Latvia has already made inroads on the share of renewable energy in its fuel mix, with sizeable shares of bioenergy and hydropower.

## Latvia electrified grid

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### Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2001. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.114 kg/kWh; LCA Activity. electricity\_generation

### [Latvian Energy Company , Energrid](#)

Energrid's mission is to provide affordable, complete energy infrastructure to everyone in Latvia. Because electricity is the foundation for a quality life and a competitive business. Team. Energrid. Energrid carried out the complete development cycle - design, construction, grid connection, component procurement.



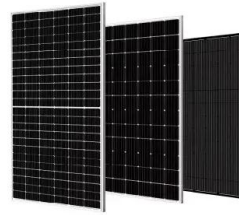
### Executive summary - Latvia 2024 - Analysis

In electricity, Latvia will need to move forward with efforts to synchronise with the European grid on an accelerated timeline. For natural gas, Latvia will become heavily reliant on liquefied natural gas (LNG) supply as well as (soon to be ...

### [Baltic states synchronization with](#)

## UCTE

Baltic states synchronization with UCTE (also known as Baltic Synchro) is an international electricity transmission infrastructure project to synchronize the three Baltic states (Lithuania, Latvia and Estonia) with the Synchronous grid of Continental Europe (UCTE), managed by ENTSO-E, and leave the IPS/UPS transmission system managed by the BRELL (Belarus, ...



### **Emission Factor: Electricity supplied from grid , Energy , Electricity**

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2019. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.15 kg/kWh; LCA Activity. electricity\_generation

### **Emission Factor: Electricity supplied from grid , Energy , Electricity**

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2016. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.116 kg/kWh; LCA Activity. electricity\_generation



### **Baltic countries notify Russia and Belarus they will exit the Moscow**



The electricity grid operators of the three Baltic countries on Tuesday officially notified Russia and Belarus that they will exit a 2001 agreement that has kept Estonia, Latvia has completely stopped electricity import and export from Russia and Belarus, and synchronization with continental Europe is the last step to achieve country's

## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2022. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.086 kg/kWh; LCA Activity. electricity\_generation



## Study: Innovative technologies could boost Latvia's electricity grid

A study commissioned by Latvian transmission system operator JSC 'Augstsprieguma tīkls' (AST) and carried out by French consultancy Artelys, shows that innovative grid measures can help increase the hosting capacity of the national electricity grid by up to 40%, the company said September 5.

## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 1997. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.124 kg/kWh; LCA Activity. electricity\_generation



## Emission Factor: Electricity supplied from grid , Energy , Electricity

Fuel-cycle emissions intensity associated with the electricity generation in Latvia. The factors are computed using the life cycle emissions intensity corresponding to fossil fuels uranium and biofuels fuel-cycles weighted by the respective shares of all fuels/technologies in ...

## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2013. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.127 kg/kWh; Go to Electricity supplied from



## Electricity

The largest electricity generator in Latvia is JSC "Latvenergo". The Regulator reviews submissions and complaints about the provision of public

services. More information is available in Latvian. Energy trader and producer should operate also taking into regard Commercial Law. Foreign merchant intending to operate in Latvia has a choice of



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Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 1995. Year Released: 2024. Emission Factor: CO<sub>2</sub> e 0. API Reference. Activity ID. electricity-supply



## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. It does not account for imports and exports and is not a grid-mix factor.

## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation

within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 1996. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.196 kg/kWh; LCA Activity. electricity\_generation



## Connections to the transmission grid , AST

As an electricity transmission system operator (TSO), AS Augstsprieguma tīkls has a permanent obligation, subject to the scope and term of its licence, to ensure the network members have the necessary connections to the transmission system or the necessary changes to the permitted capacity of the existing connection consistently with the regulations issued by ...

## Baltic countries notify Russia and Belarus they will exit ...

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...



## Emission Factor: Electricity supplied from grid , Energy , Electricity

Electricity supplied from grid. Emission intensity of total supplier mix as reported for Latvia. Published by the International Energy Agency

(IEA). Retrieved from IEA Emissions Factors 2023. The emission factor incorporates trade adjustments. Property ...



## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emission intensity of total supplier mix as reported for Latvia. Published by the International Energy Agency (IEA). Retrieved from IEA Emissions Factors 2023. NOTE: The emission factor is based on provisional electricity generation data.



## Estonia, Latvia & Lithuania agree to synchronise their electricity

The Commission warmly welcomes today's agreement by Estonia, Latvia and Lithuania to accelerate the integration of their electricity grids with continental Europe and their disconnection from Russia and Belarus. however, the Baltic States' electricity grid is still operated in a synchronous mode with the Russian and Belarusian systems

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Emissions intensity of electricity generation

within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2018. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.138 kg/kWh; LCA Activity. electricity\_generation



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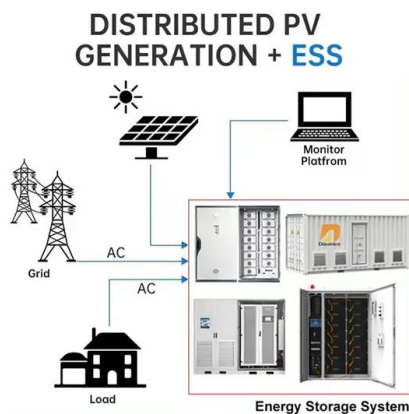
## [Baltic states synchronization with UCTE](#)

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Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 2005. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.086 kg/kWh; Go to Electricity supplied from



## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year: 1999. Year Released: 2023. Emission Factor: CO<sub>2</sub> e 0.161 kg/kWh; LCA Activity. electricity\_generation

## Emission Factor: Electricity supplied from grid , Energy , Electricity

Emissions intensity of electricity generation within the reporting country. It is calculated by dividing emissions from electricity generation reported by each country by total electricity generation. Latvia (LV) Unit Type. Energy. Year:



2021. Year Released: 2023. Emission Factor: CO  
2 e 0.097 kg/kWh; LCA Activity.  
electricity\_generation

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