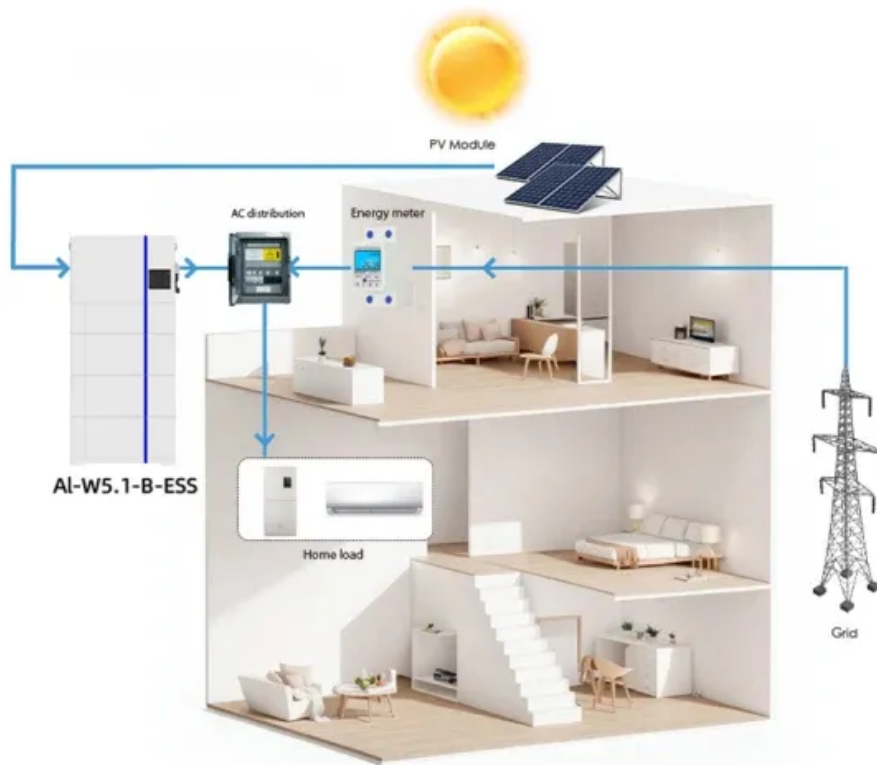


## Solar Energy South Africa

# Ecuador elsy power



## SMART GRID & HOME



## Overview

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The 2023-2024 Ecuador electricity crisis was caused by a severe drought that depleted water levels at hydroelectric plants and a lack of capacity buildup. Ecuador experienced rolling blackouts for up to 14 hours per day in the fall crisis (started on 23 September 2024 ) of 2024. Researches describe fall 2023 (27 October–18 December 2023) and spring 2024 (16–30 April 2024). The 2023-2024 Ecuador electricity crisis was caused by a severe drought that depleted water levels at hydroelectric plants and a lack of capacity buildup. Ecuador experienced rolling blackouts for up to 14 hours per day in the fall crisis (started on 23 September 2024 ) of 2024. Researches describe fall 2023 (27 October–18 December 2023) and spring 2024 (16–30 April 2024) crises as separate events. The President of Ecuador Daniel Noboa had announced on 10 December, 2024 that the outages will end on December 20.

No new electric capacity had been added to the since station started operation in 2016, while the demand by 2024 had increased by 24%, or about 400 (MW). The were neglected with just 880MW operational out of 2 (GW) . The low-cost electricity (at 10. No new electric capacity had been added to the since station started operation in 2016, while the demand by 2024 had increased by 24%, or about 400 (MW). The were neglected with just 880MW operational out of 2 (GW) . The low-cost electricity (at 10 US cents per , with discounts for the industry) limited the private investment. The might have further exacerbated the drought. The drought is considered to be the worst in 60 years, especially in the south of the country. When the power operator of Ecuador warned about the severe drought in January 2024, no actions were taken until April, when blackouts of up to 8 hours a day were implemented. The (summer) dry season in 2024 arrived two months earlier than usual in Ecuador. According to Miguel Calahorrano, an ex-minister of electricity and renewable energy, 400 MW of new capacity are needed annually to meet the demand, existing thermal plants need to fixed (in the fall only Trinitaria (125 MW), Machala Gas (125 MW), G. Zevallos (146 MW) and Jaramijó (140 MW) were operating at high power until October 15, 2024), and thermal power should be used to delay the day the reservoirs are tapped for generation. As quick fixes, he suggested improving relationship with Colombia, so that Ecuador can import electricity from there (and from Venezuela through Colombia).

On 24 September 2024, three power stations known as Paute Integral ( , , and Sopladora) ceased operations since the water levels were approaching critical marks. Power cuts up to 12 hours a day were implemented.

Due to extensive use of diesel generators burning high-sulphur fuel, the air quality in significantly deteriorated. At the peak of the spring 2024 crisis (with 8 hour blackouts per day), • quantities almost doubled;• levels went up almost 40%;Due to extensive use of diesel generators burning high-sulphur fuel, the air quality in significantly deteriorated. At the peak of the spring 2024 crisis (with 8 hour blackouts per day), • quantities almost doubled;• levels went up almost 40%;• content had risen by 180%, above the (WHO) norms;• () increased by 20% (this had been added by more traffic pollution due to inoperable traffic lights).Three ministers of energy and non-renewable natural resources [] were fired during the crisis, with accused of sabotage. By late fall of 2024, the economic losses were estimated at 2 billion US dollars.

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• Brown, Kimberley (2024-11-11). the Guardian. Retrieved 2024-12-14. • . (in Spanish). 2024-12-10. Retrieved 2024-12-10. Retrieved 2024-12-15. • Master Plan (2023). [Master Plan for Electricity (2023-2032)]. Ministerio de Energía y Minas. Retrieved 14 December 2024. • . Reuters. 2024-09-24. Retrieved 2024-12-14. • . 2024-12-10. Retrieved 2024-12-14. • Segovia Velasteguí, Daniela (2024-10-16). Forbes Ecuador (in Spanish). Retrieved 2024-12-15. • . US News & World Report. 2024-10-25. Retrieved 2024-12-14. • Zalakeviciute, Rasa; Diaz, Valeria; Rybarczyk, Yves (2024-10-05). Atmosphere. 15 (10): 1192. .

Why is Ecuador facing a power crisis?

Ecuador is no stranger to electricity problems. The country has been facing an energy crisis since last year. Most recently, in June, cities across Ecuador faced blackouts due to the failure of an energy transmission line. Noboa declared a state of emergency in the electricity sector in April and asked the country's energy minister to step down.

Will Ecuador have a power shortage in 2023?

Ecuador is experiencing power generation shortages in 2023, and analysts expect them to extend to 2024. The Energy Ministry and CELEC plan to issue tenders to add additional generation. Future projects under consideration include hydro, geothermal, wind, and biomass.

How much power does Ecuador need a year?

Electricity demand grows by 200 MW every year, meaning Ecuador should add 250 MW or 300 MW of new power generation each year. However, Ecuador has added minimal additional generation in the last three years.

Did Ecuador experience a blackout in 2024?

Ecuador experienced rolling blackouts for up to 14 hours per day in the fall crisis (started on 23 September 2024 ) of 2024. Researches describe fall 2023 (27 October–18 December 2023) and spring 2024 (16–30 April 2024) crises as separate events.

Where does Ecuador get its electricity from?

A soldier stands guard at the Mazar hydroelectric plant in Las Palmas, Ecuador, Sept. 17, 2024. Fernando Machado/AFP via Getty Images Ecuador gets about 77% of its electricity from hydroelectric generation, according to local news outlets.

How much energy does Ecuador produce in 2022?

In 2022, Ecuador's generation capacity was 8,864 MW, of which 5,425 MW (61 percent) corresponded to renewable energy and 3,438 MW (39 percent) to non-renewable energy sources (fossil fuels derived from oil and natural gas).

## Ecuador elsy power

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### Elsy Salazar , Bilingual English & Spanish Tech Georgia Realtor

Originally from Ecuador, the heart of the world, Elsy brings a global perspective to her work. She believes in the power of learning from each other and takes immense pride in her profession, evident in her day-to-day interactions. Beyond real estate, Elsy is the founder of Encouraging Strength, a nonprofit organization.

### Elsy Valera

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### Elsy Valera

Ing. en Informática, Licenciada educación. Magister en Telemática. · Maestra por vocación, todos los proyectos que emprendo se enfocan en compartir lo poco que sé con otros.<br>"El conocimiento es el único bien que crece cuanto más se comparte"<br>- Manejo de recursos tecnológicos (hardware y software)<br>- Trabajo en equipo, presencial / ...

## Elsy Rosero

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## Ecuador's Power Cuts to Continue Until December

5 ???· Blackouts have severely affected productivity, with business losses estimated at US\$12 million for each hour of power outage. During this week, Ecuadorians will continue to experience severe power outages that are ...



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## Elsy Santillán Flor (Ecuador)

Elsy Santillán Flor (Ecuador) abril 27, 2020 Elsy es el bálsamo que sana las heridas. Su poesía es locura que camina por nuestras retinas cuando miramos con ojos de alegría sus escritos que nos sonríen con mohines seductores. Ella entrega todo hasta quedar desecha, sus textos aman más allá de la razón y nada detiene sus versos, ni

## Elsy Zambrano

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## **Uso de Recursos digitales para el aprendizaje de la geografía**

Elsy Rodríguez-Revelo, Universidad Bolivariana del Ecuador - Ecuador. Elsy Rodríguez Revelo es Licenciada en Ciencias de la Educación, con especialidad en Estudios Sociales, Magíster en Evaluación, Planificación y Acreditación de la Educación Superior, y Doctora en el Programa de

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## Elsy Leonor Tejada Suárez

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## **Ecuador Expands Power Cuts to 14 Hours a Day Due to Drought**

QUITO, Ecuador (AP) -- Ecuador has announced an increase in daily power cuts as the severe drought impacting the nation keeps lowering water levels for the key hydroelectric plants, the source of



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