

Paraguay off-grid energy storage

The Renewables Readiness Assessment (RRA) process for Paraguay has identified key actions for accelerating the deployment of renewable energy in the country. The consultative process led by the Ministry of Public Works and Communications, represented by the Vice-Ministry of Mines and Energy (VMME), and facilitated by the International Renewable Energy Agency (IRENA), aims to help unlock Paraguay's renewable energy potential.

This report examines Paraguay's energy institutions and their governance, long-term energy planning practices, and the socio-economic benefits of promoting renewable and low-carbon technologies in the end-use sectors. The RRA process was conducted in synergy with the country's revision of its National Determined Contribution (NDC). The resulting report highlights the strong link between diversifying the energy mix, scaling up renewable energy use, and promoting low-carbon technologies such as green hydrogen and electric vehicles, alongside climate action.

The RRA for Paraguay has identified 15 short and medium-term actions that could create more conducive conditions for renewable energy deployment in the country. These recommendations are grouped in six thematic areas:

If your business is solar energy then what better way to promote and demonstrate the competence of solar than by running an off-grid solar, battery, inverter-charger backup system to the AC grid. This is what Victron Energy dealers Enersoltec S.A. have done at their premises in Filadelfia, in Paraguay.

Enersoltec's system has been up and running for a year and a half now, allowing them to demonstrate to potential customers the opportunity of running their home or business totally off-grid. Continuity of AC electricity supply for their business is also important, as power cuts are not uncommon with their mains grid supply.

Power continuity and indeed the ability to be totally off-grid is now assured by using Victron Energy Quattro inverter-chargers and MPPT solar charge controllers.

It took two days to install all 80 solar panels on the roof of their building and another three to get the system fully commissioned. The power system is installed in a small cooled room and is monitored locally with a Color Control GX and remotely via the VRM.

During the day Enersoltec run five Samsung air conditioning units at the same time, some machinery and low energy lighting. At night there are always two air conditioning units running.

As a Victron dealer, Enersoltec are delighted their business premises are totally off-grid now, with power cuts



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being a thing of the past – and what better way to demonstrate Victron Energy products than that!

May 5

Oct 8

Feb 21

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