

# Suriname energy storage testing

What are some useful reports about energy storage testing?

Below is a non-exhaustive list of valuable reports that the working group has relied on when becoming familiar with storage testing. "Electric energy storage - future storage demand" by International Energy Agency (IEA) Annex ECES 26, 2015, C. Doetsch, B. Droste-Franke, G. Mulder, Y. Scholz, M. Perrin.

Where can I find performance and testing protocols for stationary energy storage systems?

The United States has several sources for performance and testing protocols on stationary energy storage systems. This research focuses on the protocols established by National Labs (Sandia National Laboratories and PNNL being two key labs in this area) and the Institute of Electrical and Electronics Engineers (IEEE).

What are the applications of energy storage systems?

Peak Shaving: Another important application is peak shaving, where the energy storage system is discharged during an "on-peak" period and charged during an "off-peak" period. Voltage Support: This is also important and is where the power is used to maintain the voltage within specified limits.

Can a stationary energy storage system adapt to other energy storage systems?

In regions where there is an absence of extensive or relevant protocols for stationary energy storage systems, there may be the ability to adapt or expand on protocols for other energy storage systems that are available.

Are IEC and ISO developing standards for energy storage systems?

IEC and ISO are developing standards for storage systems. ISO is focusing in this area on electric vehicles and environmental management. This is not the subject of this study. IEC, on the contrary, develops many standards specifically for stationary application of energy storages.

What are the use cases for energy storage?

The use cases for energy storage are nonobvious and complex, particularly for the broad range of electric system configurations in developing countries. Different technologies respond to those use cases differently, and so testing is needed for many of these use cases and often in the country where the storage will be deployed at scale.





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