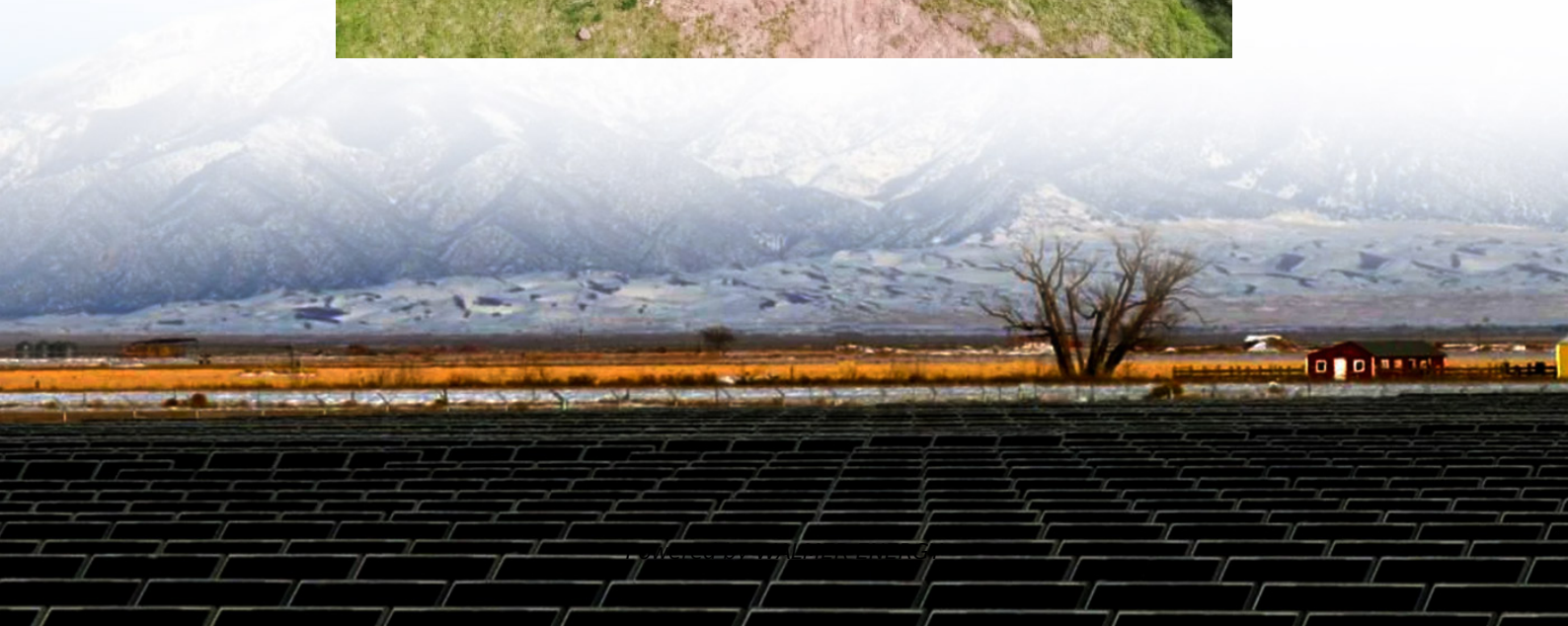


# **Burundi AC Uninterruptible Power Supply Field**





## Overview

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What is an uninterruptible power supply (UPS) system?

Power distortions such as power interruptions, voltage sags and swells, voltage spikes, and voltage harmonics can cause severe impacts on sensitive loads in the electric systems. Uninterruptible power supply (UPS) systems are used to provide uninterrupted, reliable, and high-quality power for these sensitive loads.

How to choose a good AC UPS system?

The quality of output voltage is the most important factor. The output voltage of an AC UPS system should be sinusoidal with low THD in different loading conditions even with nonlinear loads. The control system should have small transient responses to provide appropriate line conditioning in different loading profiles.

How to control a ups inverter?

Typical current and voltage control loops for UPS inverter. In SPWM control technique, the output voltage feedback is compared with a sine reference signal, and the error voltage is compensated by a PI regulator to produce the current reference. The current through the inductor or the capacitor is sensed and compared with the reference signal.





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