

Many areas across the ASEAN region still rely on isolated off-grid systems that lack connectivity and the ability to share energy. This often leads to a mismatch in energy availability—some systems experience significant energy waste, while others suffer from insufficient power supply.

This project introduces Energy-Sharing Devices (ESDs) and an Energy Management Box (EMB), leveraging IoT technologies to enable energy transfer between isolated off-grid systems. These innovations help optimize the use of available resources and enhance energy reliability in remote communities.

By fostering collaboration among ASEAN countries—particularly Thailand, Cambodia, Myanmar, and Laos—and Japan, the project promotes regional knowledge sharing and supports the widespread adoption of smart, cost-effective, and sustainable off-grid energy solutions.

Project members

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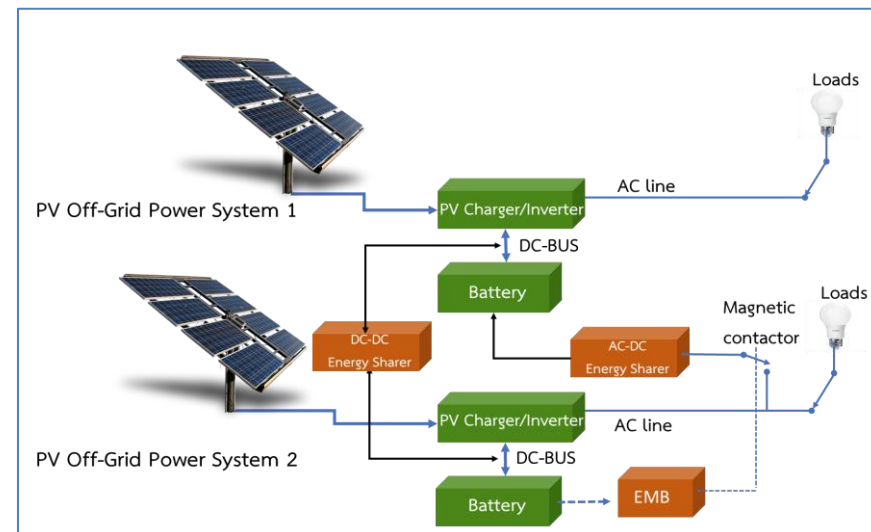
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Isolated PV Off-Grid Systems Using ESDs and EMB



An idea for applying an IoT system to ESDs and EMBs

