

Solar System for the E-waste Hub in Imvepi Refugee Settlement, Uganda



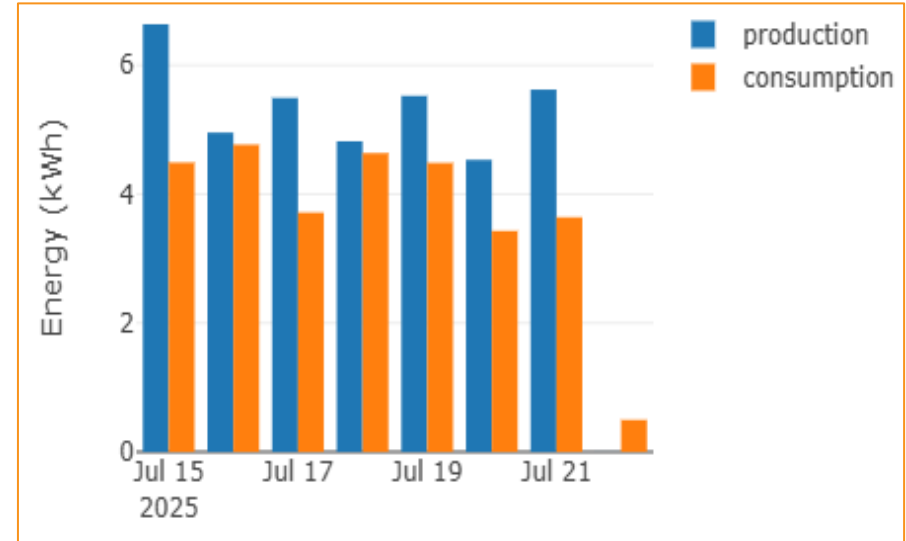
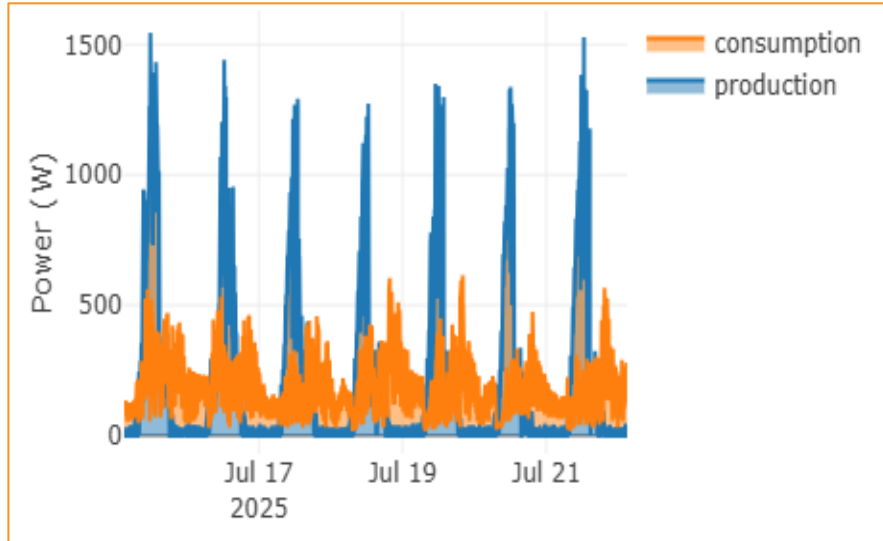
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Remote monitoring results after 1-year usage of a solar system for an e-waste hub

An off-grid solar system of 2 kWp with lithium-ion battery storage system of 5 kWh, 3 kW all-in-one hybrid inverter installed by **Solar Pesa** in May 2024 for an e-waste collection, repair and recycling, mobile phone charging center in Imvepi refugee settlement in Uganda's West Nile region. The solar system was installed under **Energy Solutions for Displacement Setting (ESDS)** project implemented by **GIZ** with funding support from the **German Government**.



Power and Energy Production and Usage



- Peak solar production reached beyond 1.5 kW for a 2 kWp system meaning – up to 75% performance ratio is being achieved in the real-world working conditions
- After 1-year of operation, energy generation rate is still more than the rate of energy consumption – a very good thing for the battery life span

Li-ion battery voltage – are above the nominal 25.6 V DC after 1-year of usage





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