



WFP

World Food Programme



WFP

WFP Energy Efficiency Programme

Introduction to



World Food
Programme

We work in over 80 countries



Countries



Emergencies

Humanitarian Assistance...



Humanitarian Assistance...

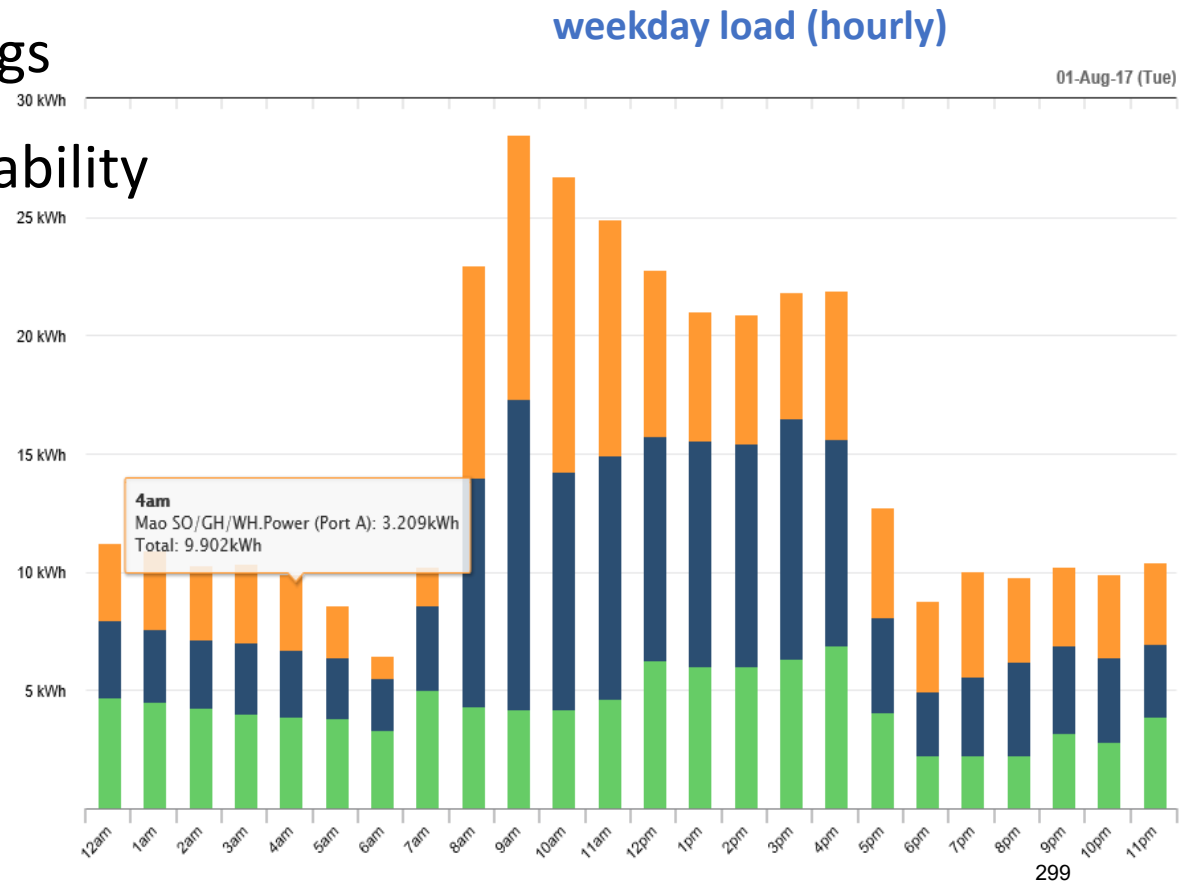
... requires ENERGY!

A LOT OF ENERGY!

- 1,200+ premises globally
- 6,000,000+ litres of diesel for generators
- 28+ GWh electricity per year
- 11,000,000+ litres of vehicle fuel
- 70,000,000+ litres of aviation fuel

The Goal

- Reduce the cost of powering WFP facilities worldwide
- Reduce environmental impacts
- Reinvest the savings
- Design for sustainability



Energy Efficiency Programme (EEP)

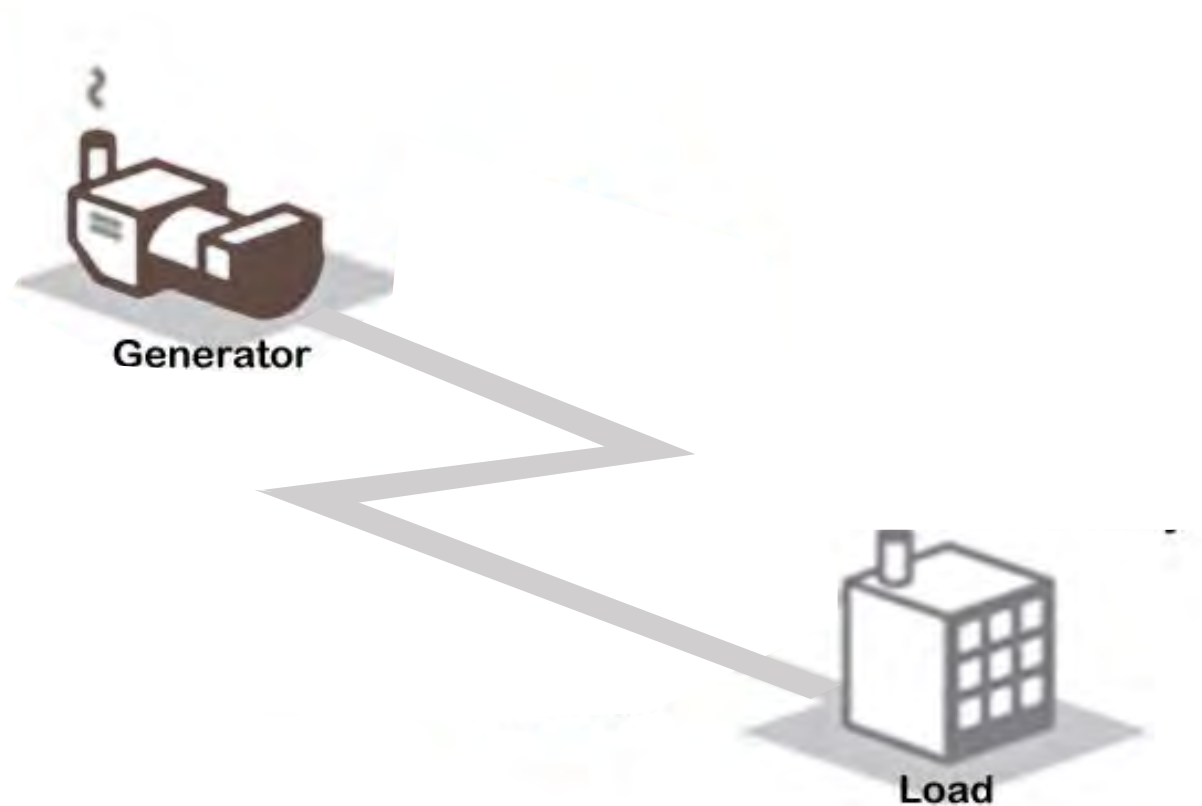
- Coordinates energy efficiency initiatives in WFP
- Funded by an “internal carbon tax” on WFP leased vehicles
- Investment fund awards grants towards energy efficiency projects



- Ensures projects are technically sound
- Drives technical specs for future purchases
- Standardization for improved long-term support & performance

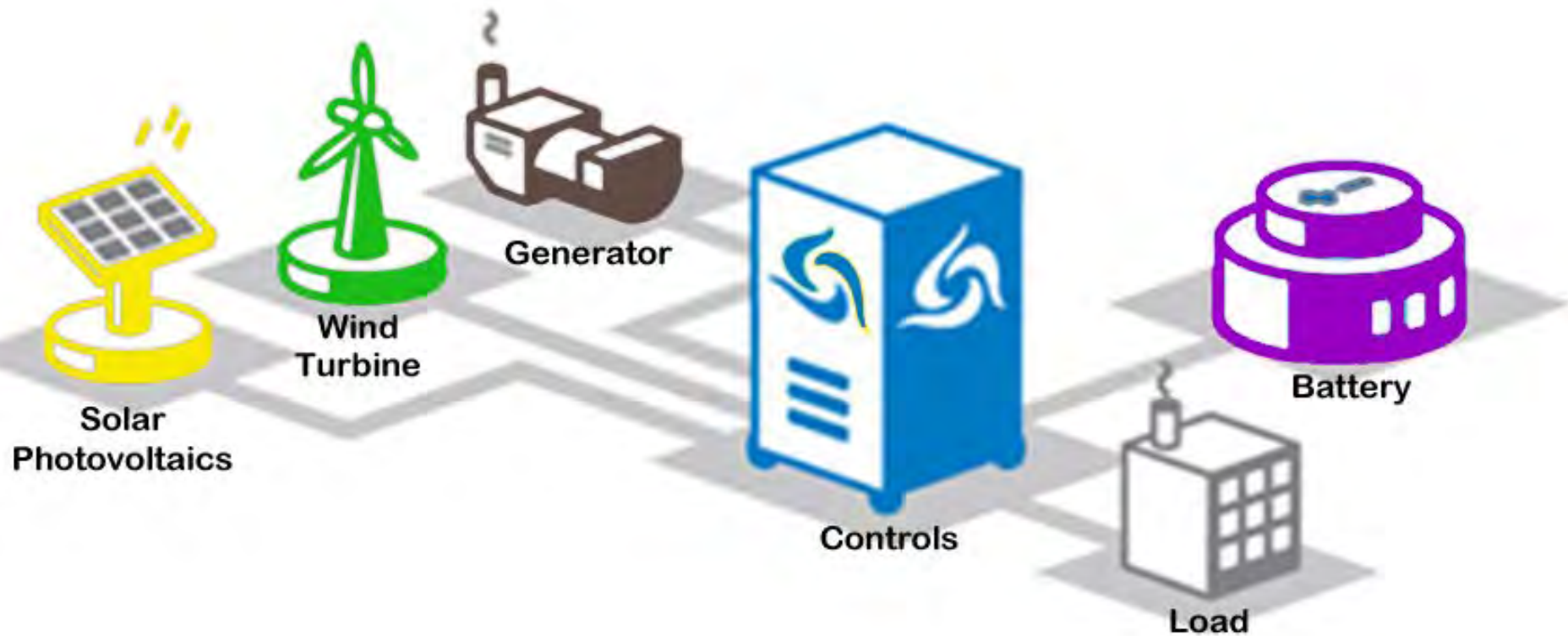
Power source transition

Today....



Power source transition

....tomorrow....



Temperatures up to 50°C

Remote locations

Lack of local technical competence

Lack of spare parts,
recycling facilities...

The challenge

Microgrids need to be:

- Cost effective
- Simple
- Reliable
- Long cycle life
- Scalable (from 20 kW... to MWs)
- Modular

