



Smart power converters and batteries for smarter grids

Ole Jakob Sjørdalen @ Smartgridkonferansen
16.09.2015

Local presence – global reach

Sales in more than 100 countries, offices in 40 countries and 2500 employees

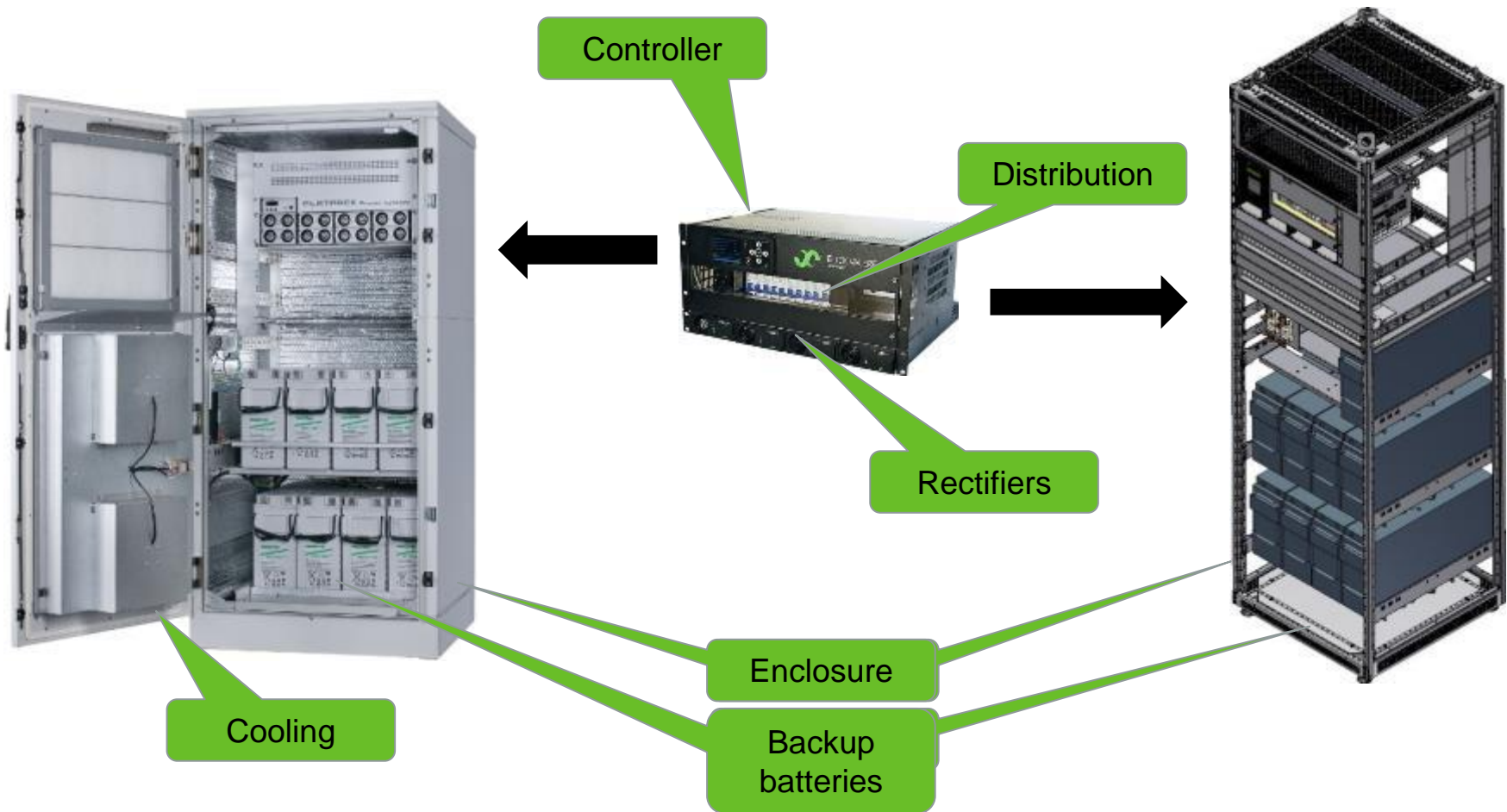


Eltek is a power electronics company, providing: power converters, controllers, systems, solutions

OUTDOOR

POWER CORE

INDOOR



Case Off-grid village power by SunErgy Full scale system in Bokosso / Cameroon

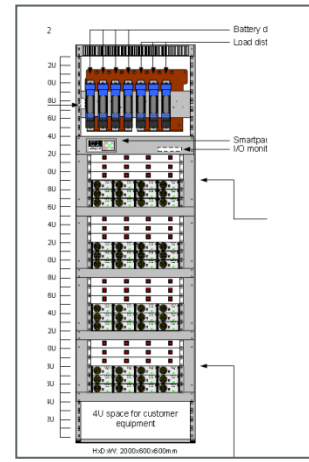
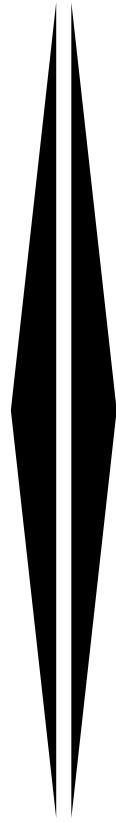


Village population is 670

of household: 153

of health centers: 1

of schools: 2

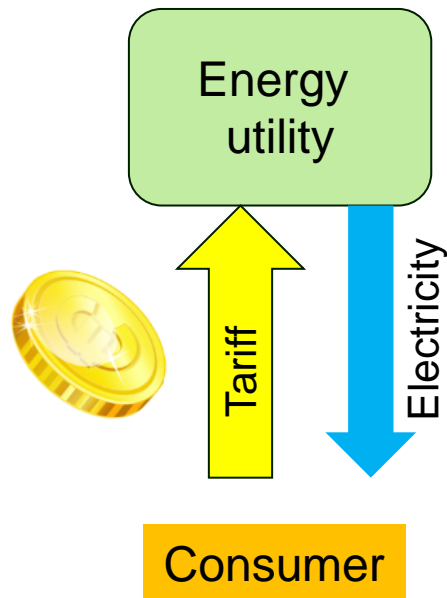


System specification	
User need :	199 kWh/day
PV capacity	60 kWp
Battery	10410 Ah – 500kWh, 48V
Solar converter	40 x 1500 W
Inverter	40kVA (16 x 2500 VA), 3-phase

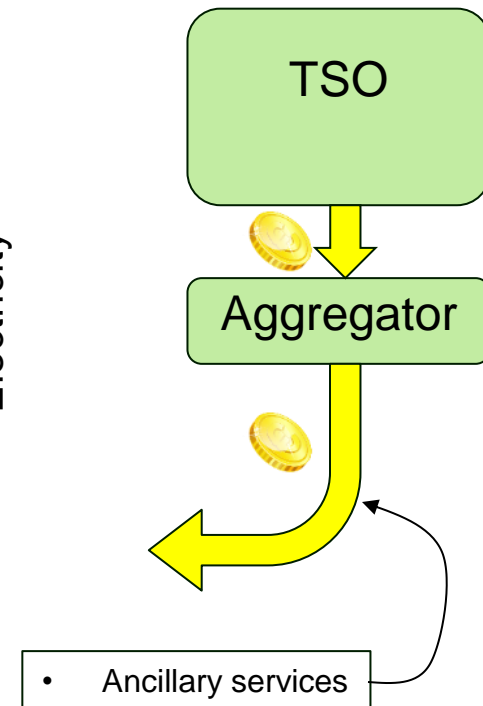
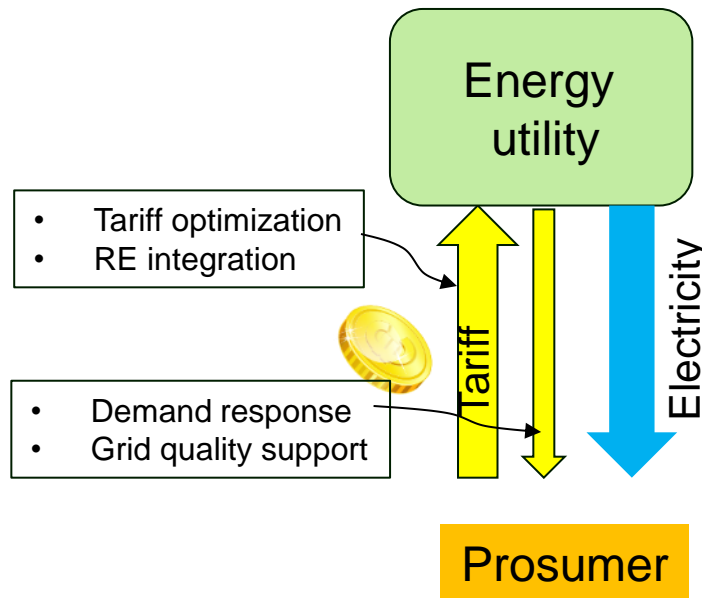
Plan: By 2018: power to 92 villages with 600.000 people

«Smart Power»: energy cost saving + new revenues!

Traditional power business model



Smart power business model



Take-aways

Batteries with smart power converters: a tool for flexibility (temporal, spacial, production, consumption)

Regulators:

- Include Energy Storage as Energy Storage
- Value attractive features of Energy Storage

DSOs, Service providers, solution providers:

- Wow,- ELTEK is a really interesting potential partner!
- Pilot?