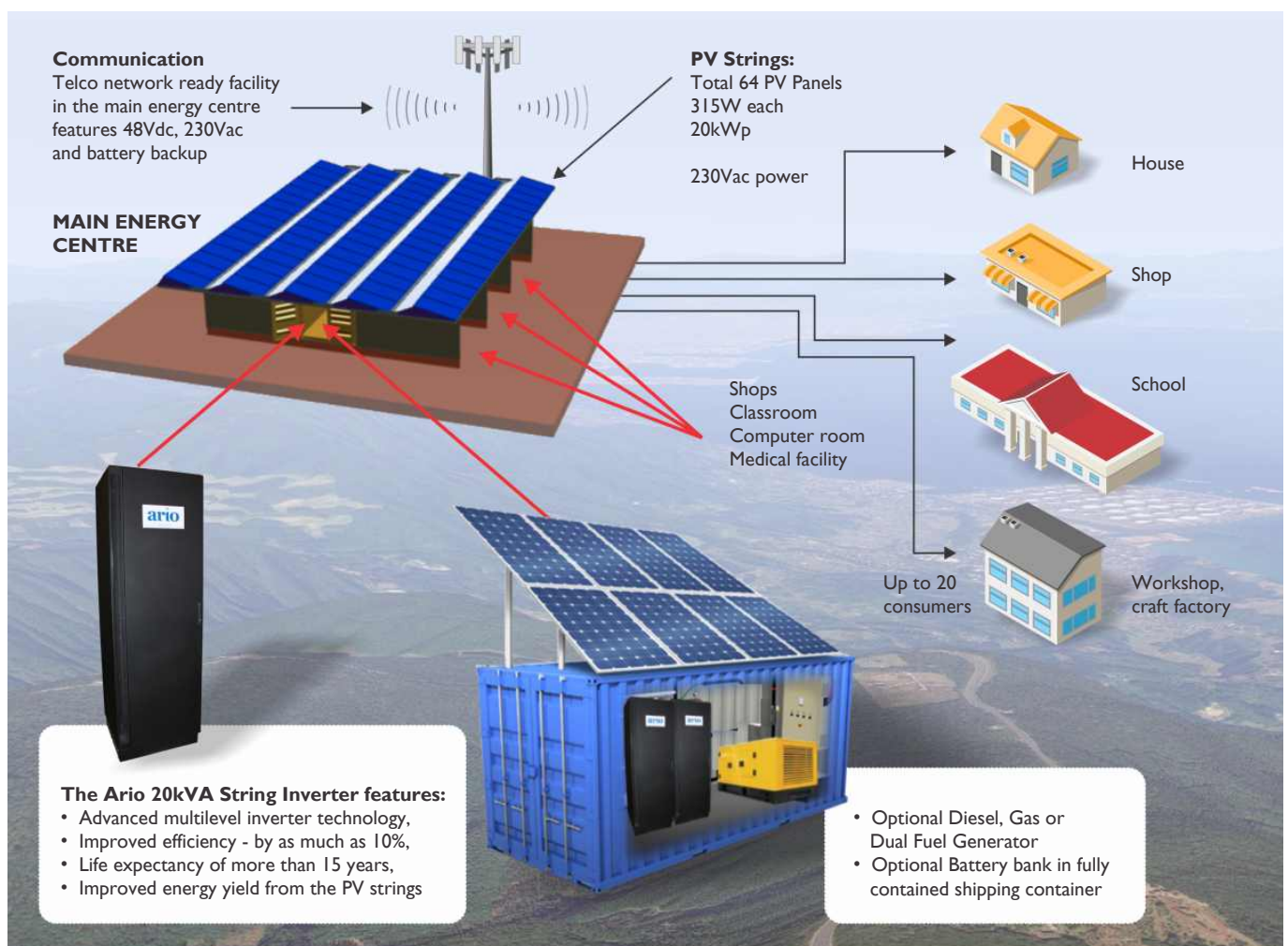


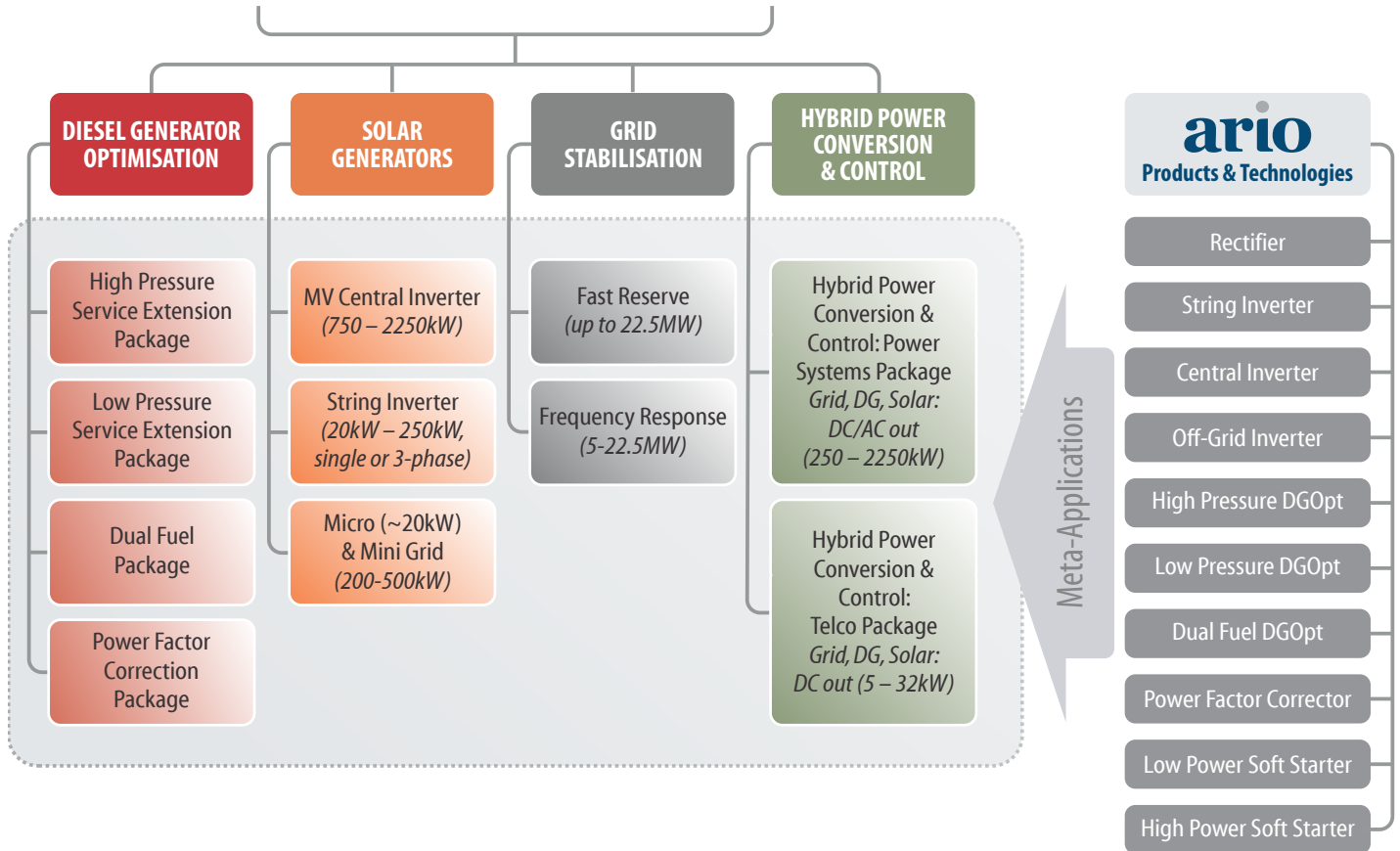
ARIO'S MICROGRID IS ONE OF THE META-APPLICATIONS OF ARIO'S RANGE OF POWER ELECTRONIC PRODUCTS AND TECHNOLOGIES. THE MICROGRID USES ARIO'S STRING INVERTER AND OFFERS RELIABLE, AFFORDABLE AND SUSTAINABLE POWER FOR REMOTE COMMUNITIES.

The Ario Microgrid is a complete standalone 20kW power solution for a small community, providing power for up to twenty houses or a rural clinic, school or shop. The Microgrid is factory pre-built and delivered in a shipping container as a ready-made assembly package that can be erected and maintained by local contractors. Field installation and deployment is quick and easy with very little environmental impact.

The Microgrid uses Ario's String Inverter with built-in safety features: Short Circuit protection, Overload protection, Auto De-rating at high temperature, DC and AC Surge protection and an Isolation Transformer on the output. Battery storage can be added to the Microgrid to extend the power supply into the night. Diesel, Gas or Dual Fuel Generators can also be added as backup power supply during night time or when solar irradiation is not sufficient. The Microgrid makes provision for optional remote monitoring that allows for timeous maintenance and detection of faults or irregularities such as PV panels or batteries being removed or not functional. The Microgrid can be expanded to form part of a Mini-Grid when the community grows and demand increases.



- HALF THE LOSSES
- DOUBLE THE LIFETIME
 - >10% EXTRA AC INTO THE GRID



THE COMPLETE ARIO OFFERING

Ario's range of power electronic products and technologies includes Rectifiers, Inverters, Diesel Generator Optimisation Technologies, Power Factor Correctors and Soft Starters. These products and technologies are combined into Ario's innovative Meta-Power solutions for a variety of Solar Generator offerings including Micro and Mini-Grid, Diesel Generator Optimisation Packages, Grid Stabilisation and Hybrid Power Conversion and Control.