

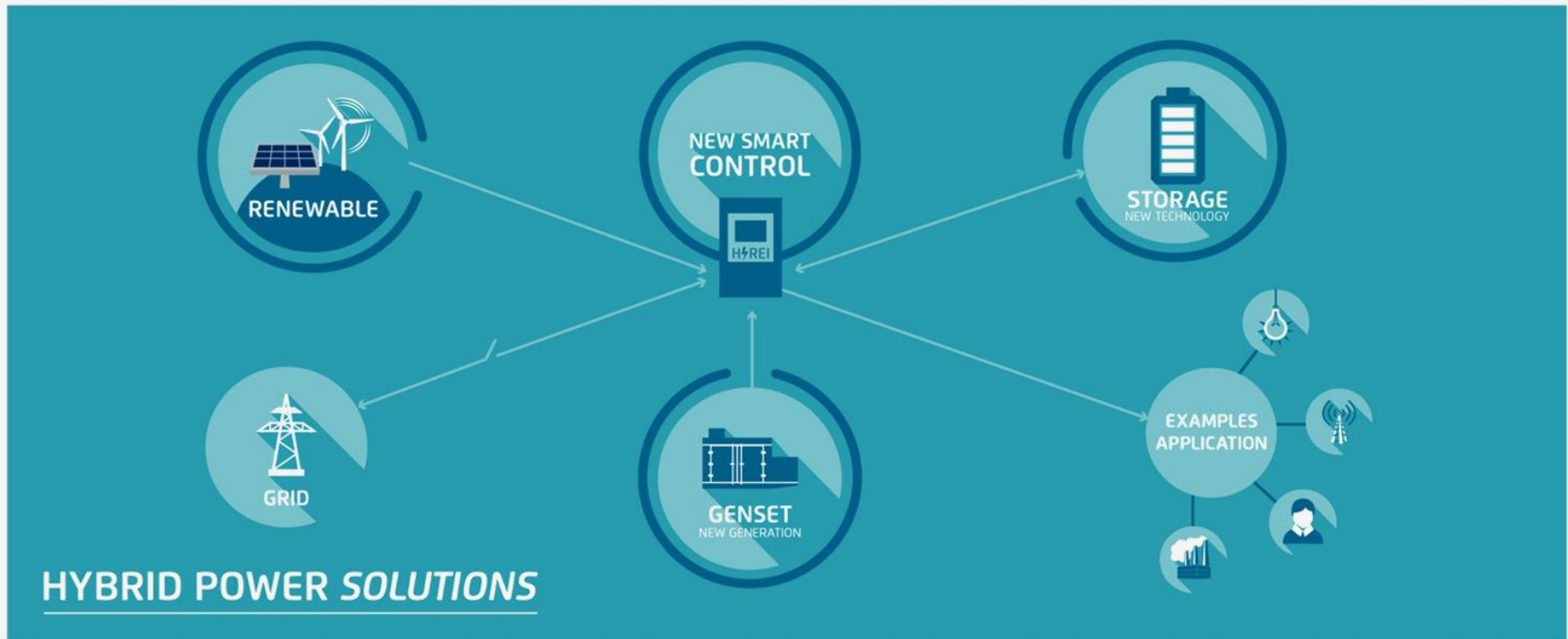


Beyond innovation.

HyREI

New Hybrid Power Solutions





Efficient and Smart Converter for Off-grid and Grid-connected applications



Up to 90%
consumption saving



24h
availability



optimized
management



DC coupling
AC coupling



voltage
stabilization



modular
cases



self-learning
system



simultaneous use
renewable energy
sources





HyREI small

- ✓ 1-10 kW off-grid and/or grid-supported solutions
- ✓ Storage - based applications
- ✓ Renewable stand-alone (genset off/grid off) mode*
- ✓ Direct line conversion
(Renewable/battery mode → genset backup mode without interruption)



HyREI Dynamic

- ✓ 10-1000 kW (and more) off-grid and/or grid-connected solutions
- ✓ True Hybrid configuration (Genset + PV) WITHOUT battery storage
- ✓ Optional storage plug
- ✓ Renewable stand-alone (genset off/grid off) mode*
- ✓ Bidirectional mode*

HyREI Small_ added value



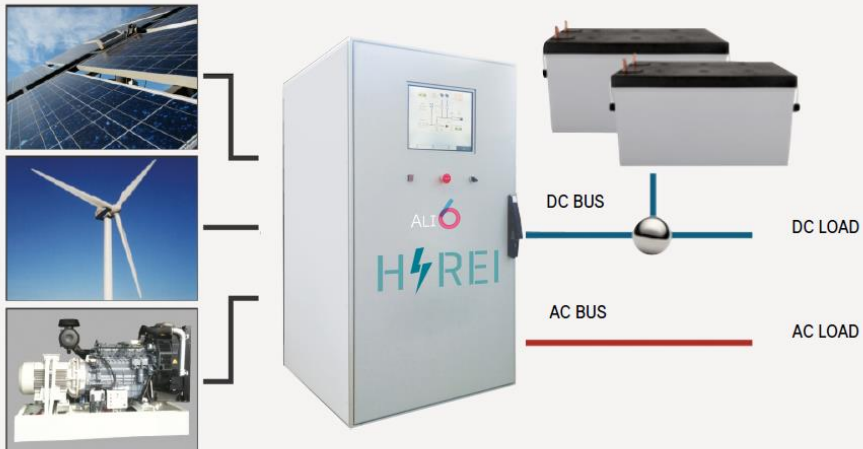
- All in one (converter + charge regulator + control and monitoring system)
- Modular and scalable
- Easy generator coupling
- Adaptable to whatever you want (Smart Generator Mode → Hybrid Mode → Full Renewable Mode)

HyREI Small solutions

1. SMART GENERATOR MODE



2. HYBRID GENERATOR MODE



3. FULL RENEWABLE MODE



HyREI Small _Off-grid applications



HOUSING



PUMP AND WATER
TREATMENT



STREET LIGHTING
AND PUBLIC
UTILITIES

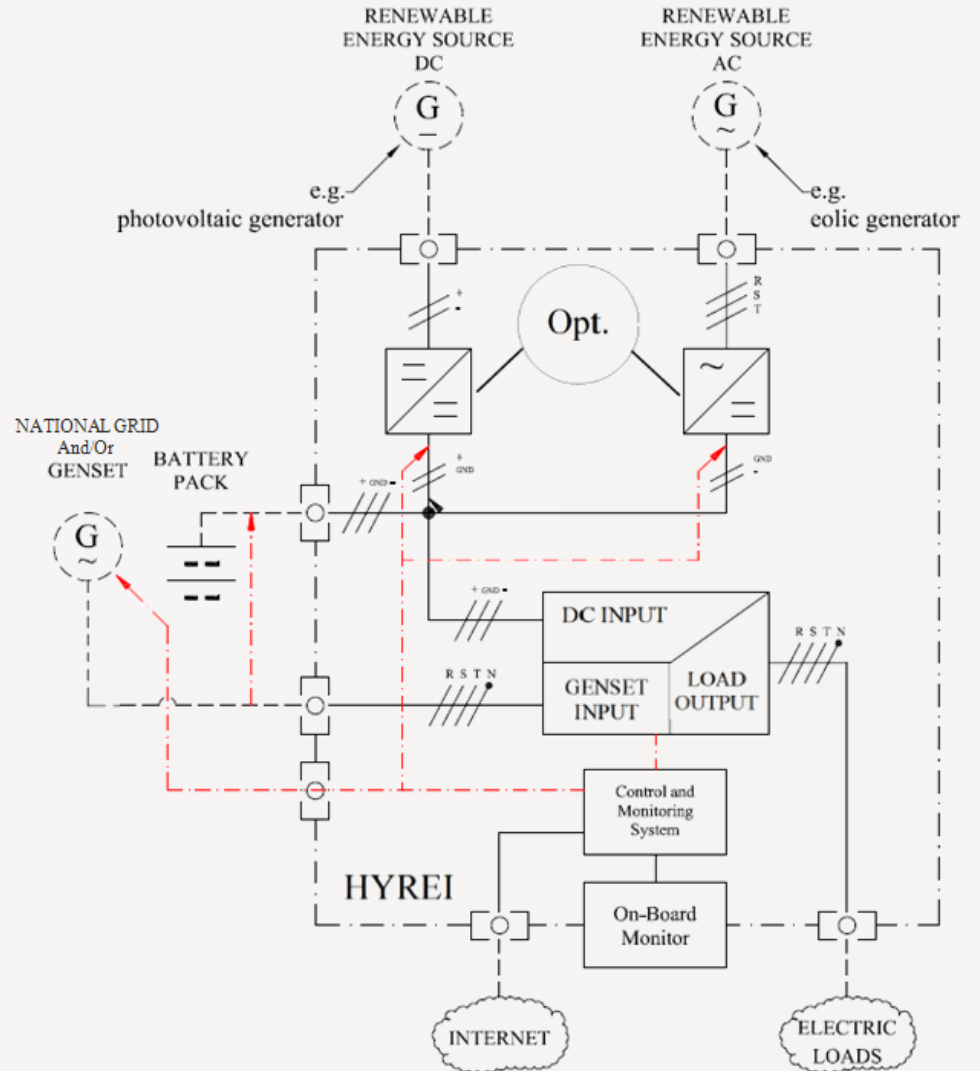


RADIO DEVICES AND
TELECOM SHELTER



LIGHTHOUSES

HyREI Small scheme

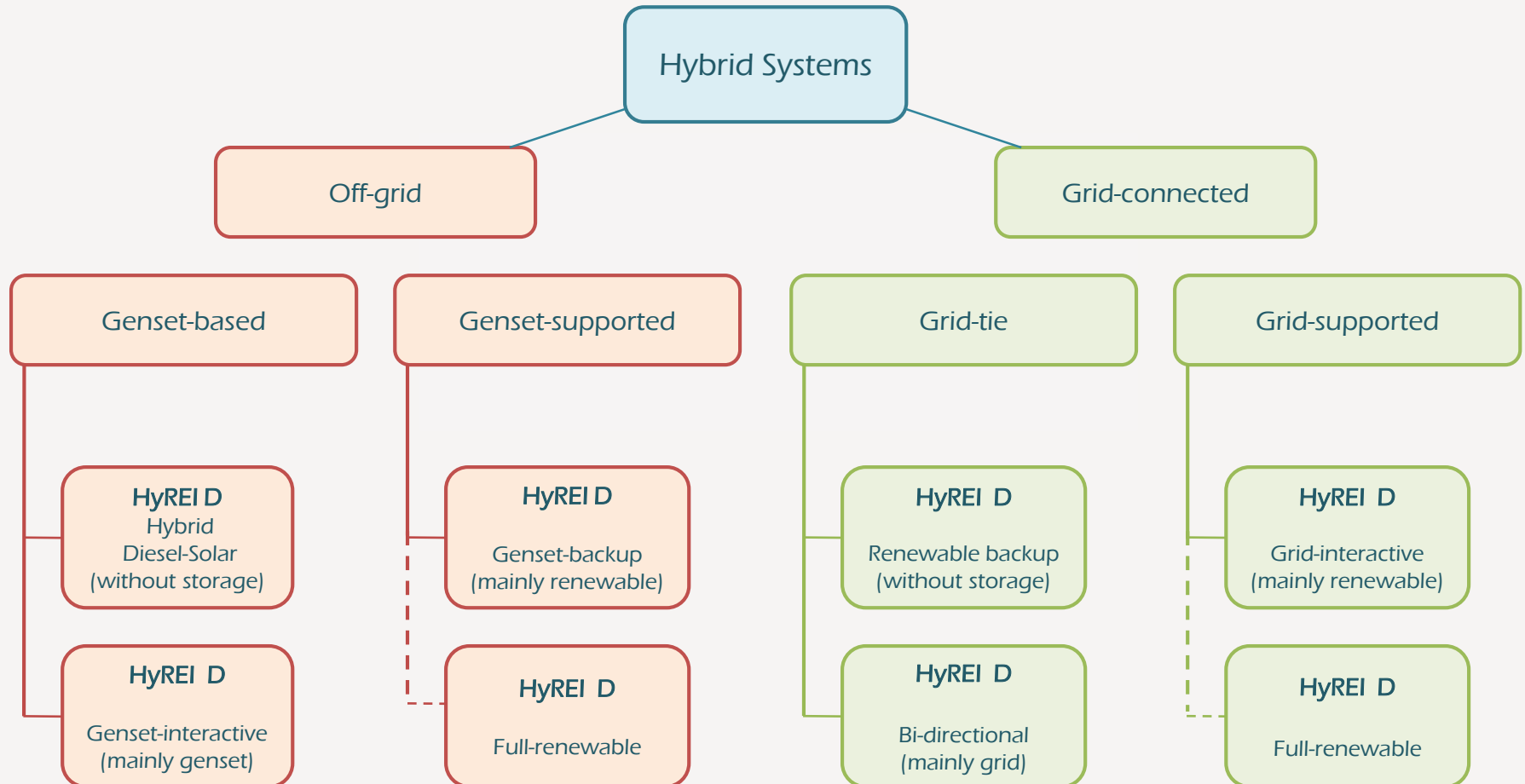


HyREI Dynamic _ added value



- Off-grid / Grid-connected mode
- Genset-PV without storage
- Smart converter self power control
- Suitable for all renewable power generators
- Plug & Play
- New Hybrid solutions

HyREI Dynamic Solutions



HyREI Dynamic Off-grid applications

Remote areas (no electrification)



Mines



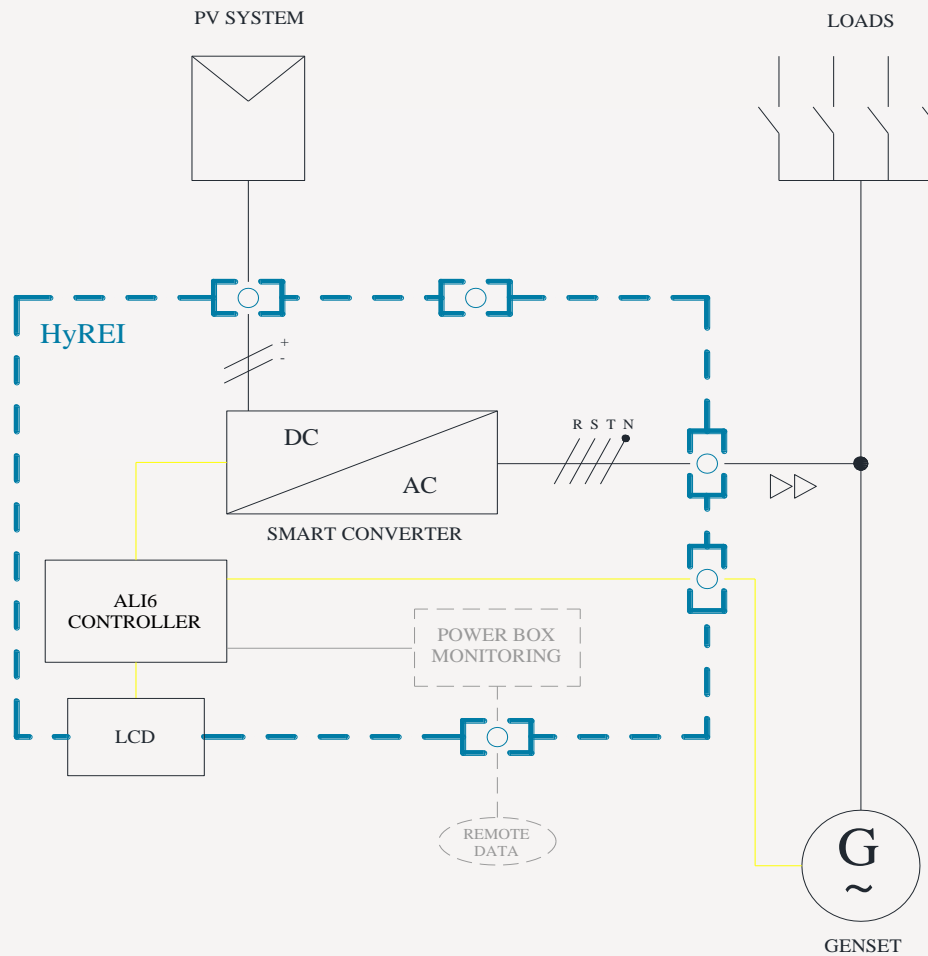
Islands



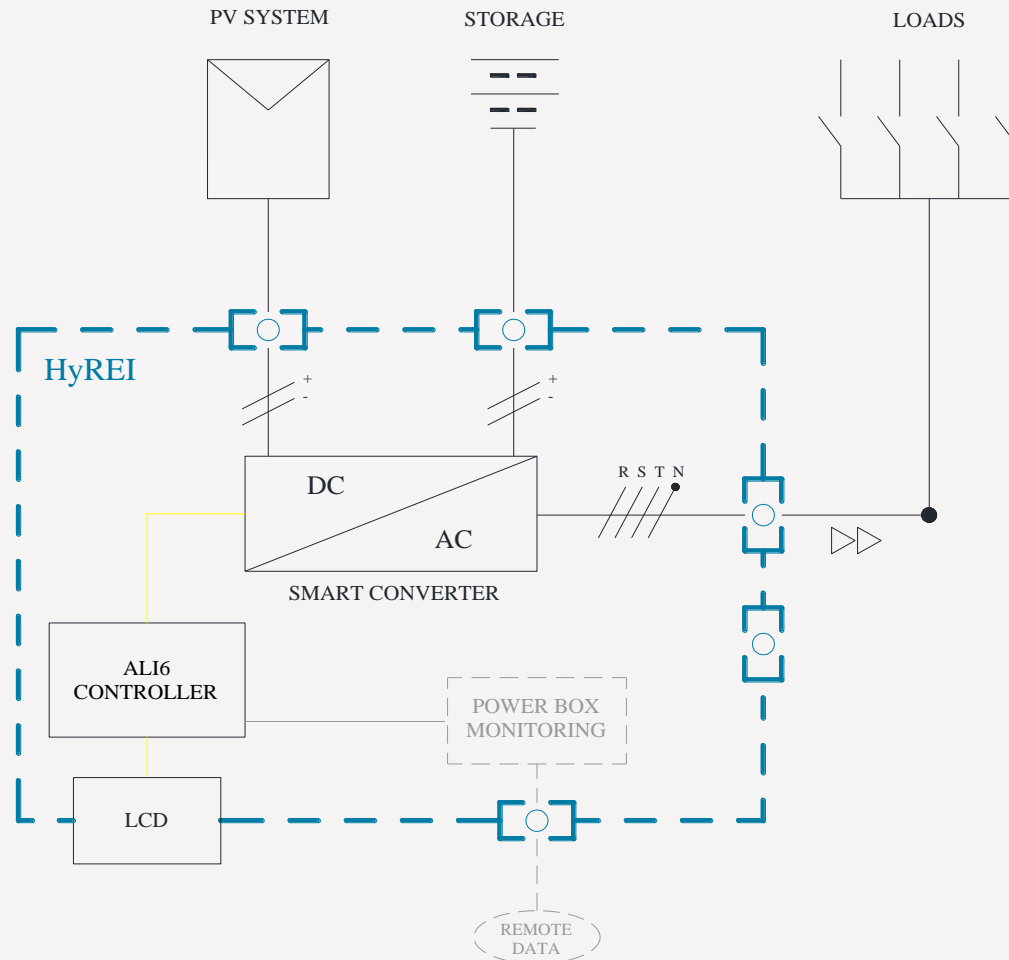
Malls, logistics hubs,...



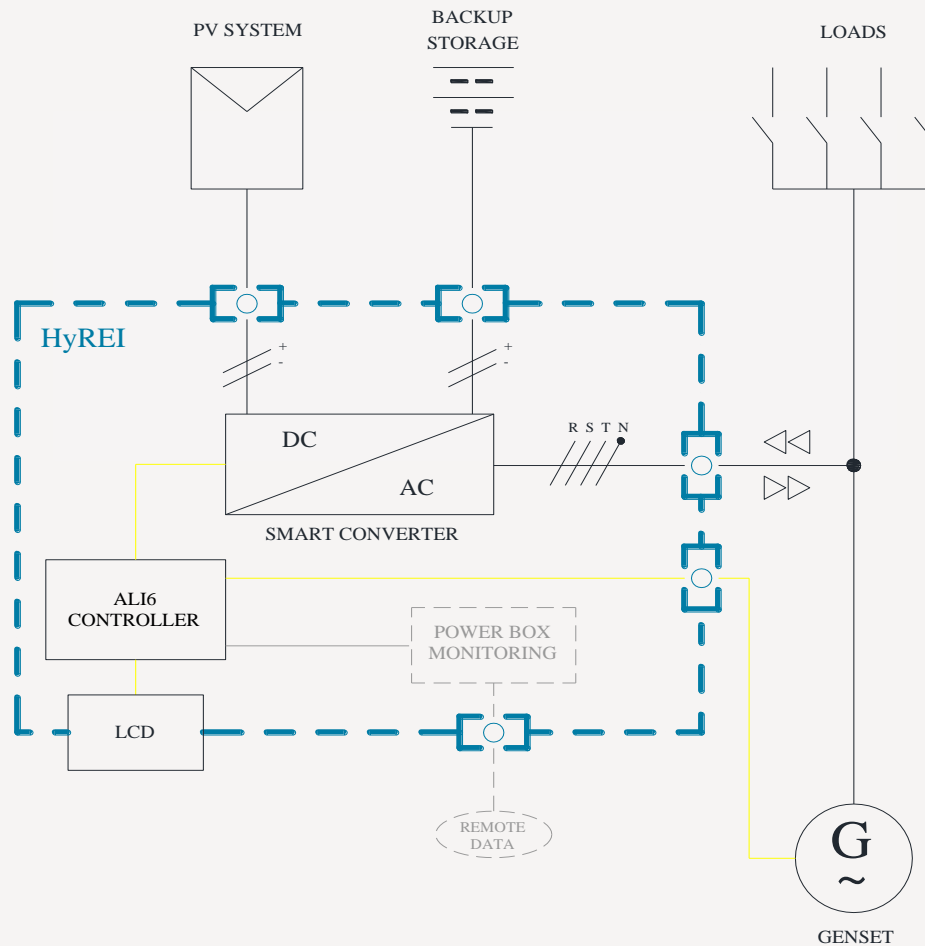
HyREI Dynamic_Hybrid Diesel-Solar (without storage)



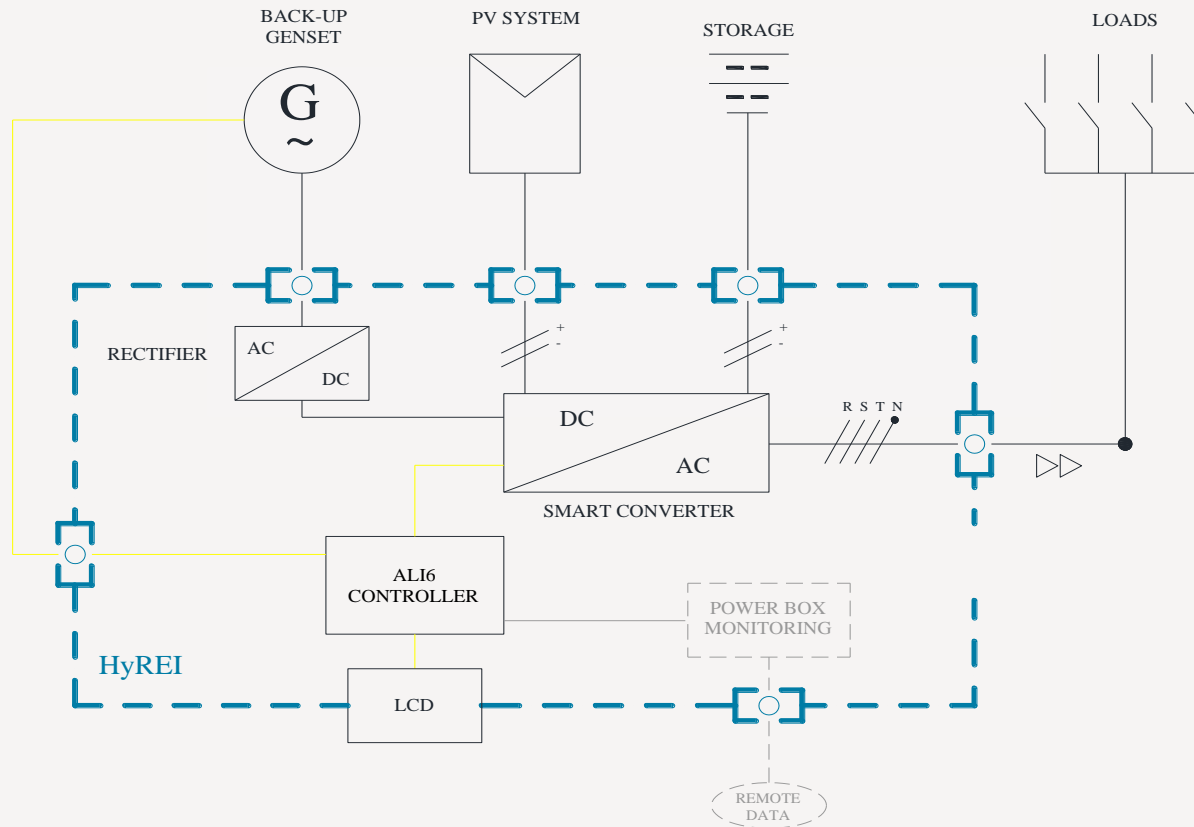
HyREI Dynamic _Full renewable stand-alone mode



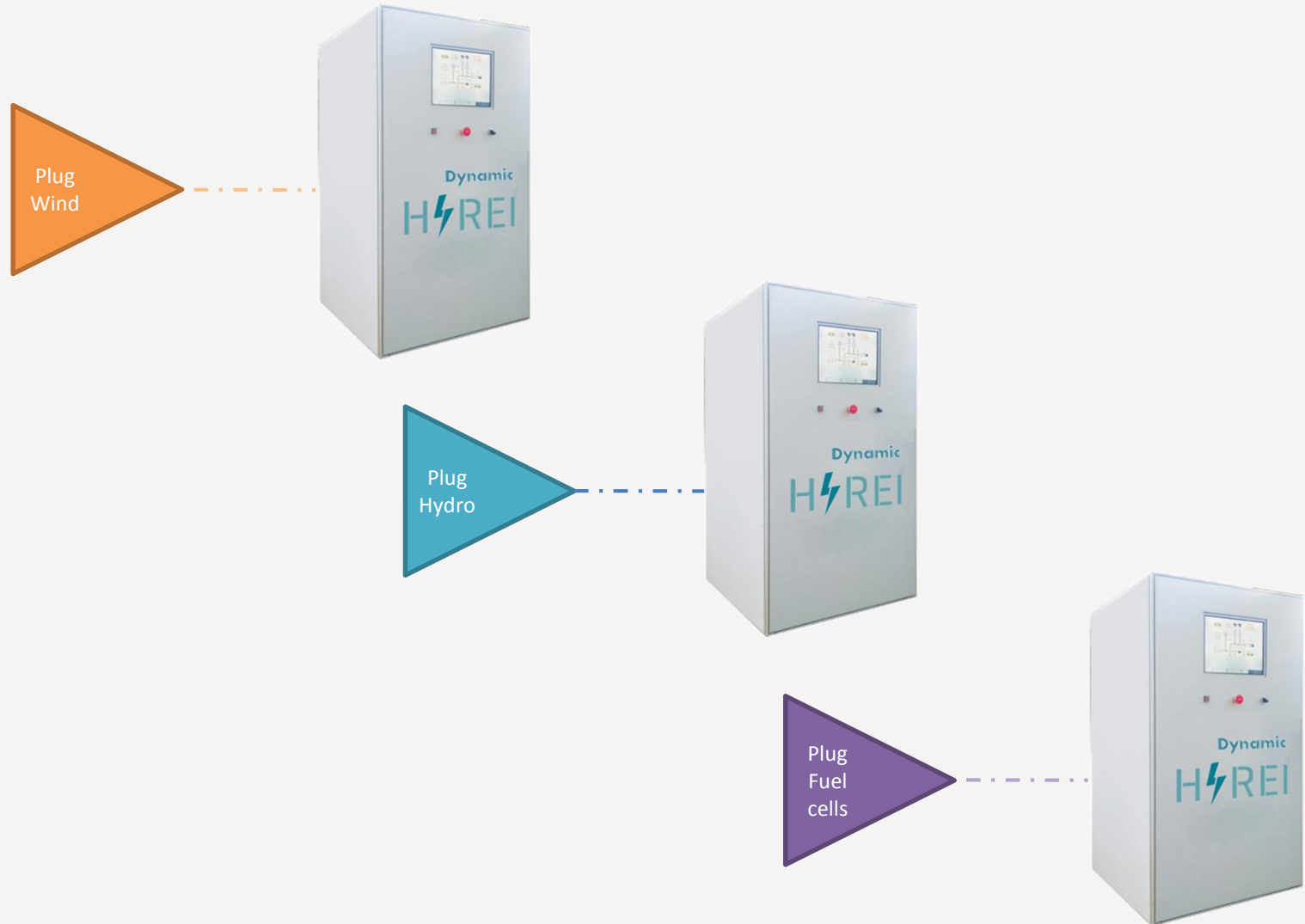
HyREI Dynamic_genset interactive mode (mainly genset)



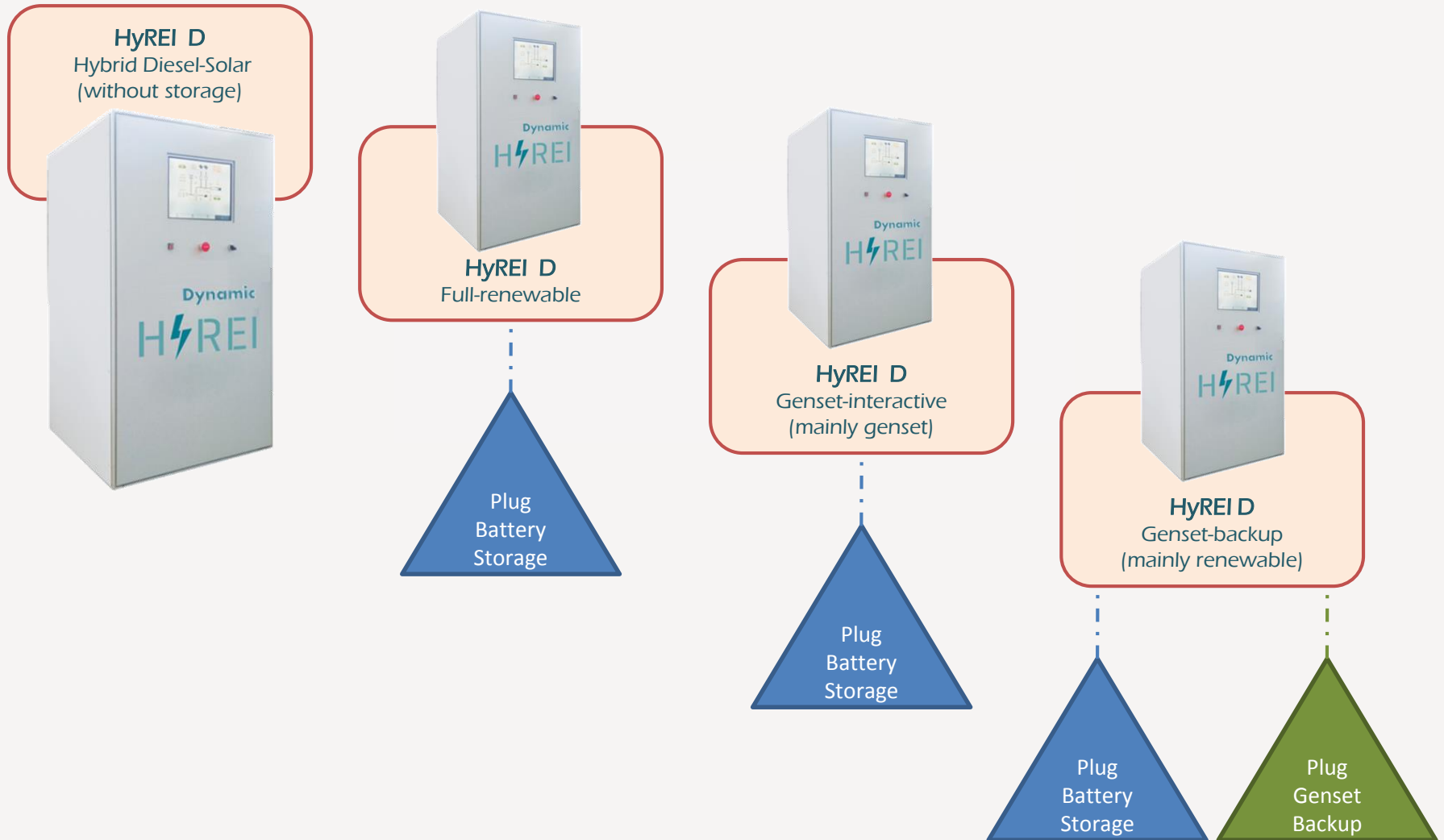
HyREI Dynamic_genset back-up mode (mainly renewable)



HyREI Dynamic _suitable for all renewable generators



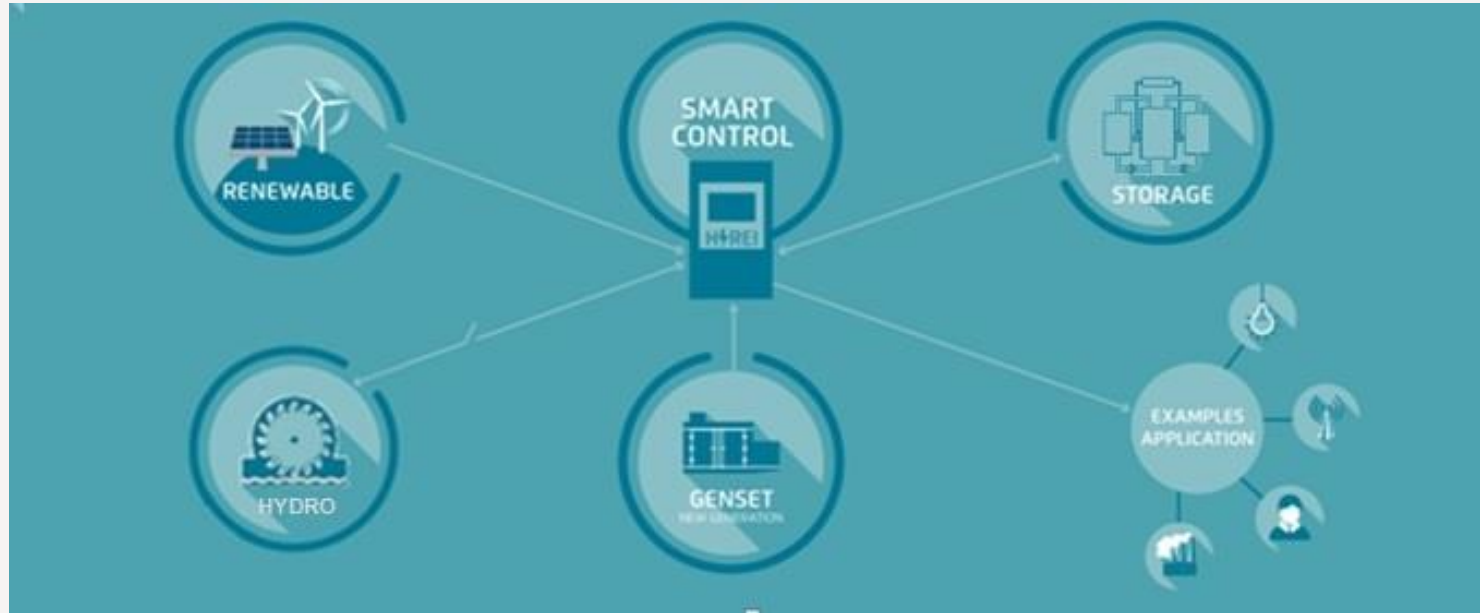
HyREI Dynamic _Plug & Play



HyREI Dynamic _Wind-Hydro-Fuel cells plugs

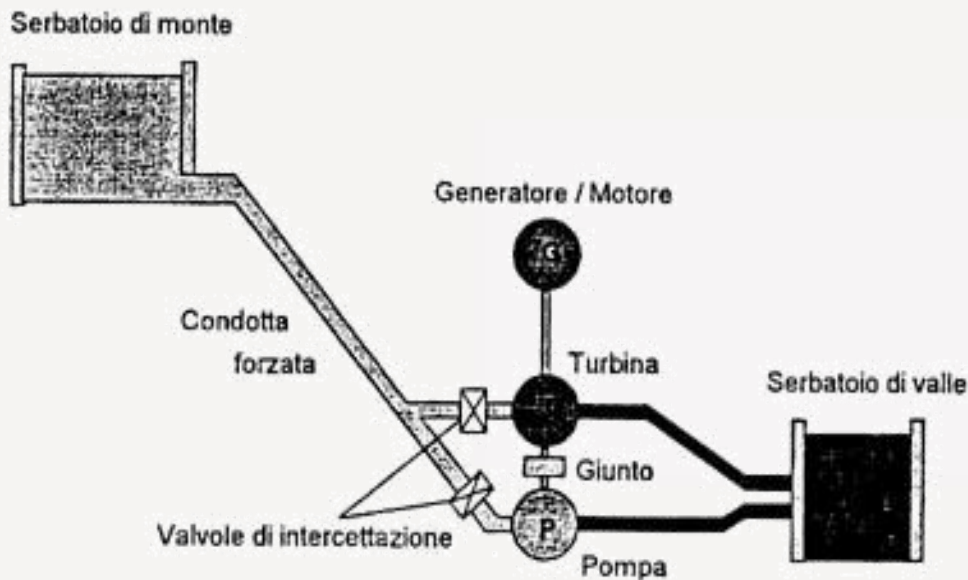


New Hybrid Hydro-VRFB Solution



New Hybrid Hydro-VRFB Solution

Hydro pump storage system

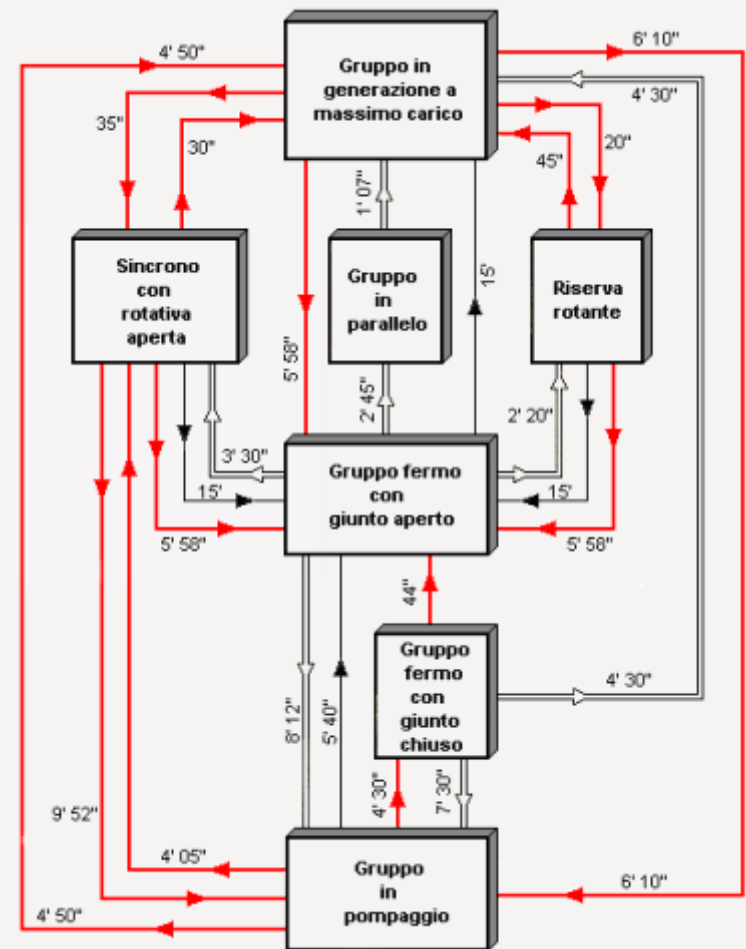


Pump starting time: 8-9 min*

Turbin starting time: 5-6 min*

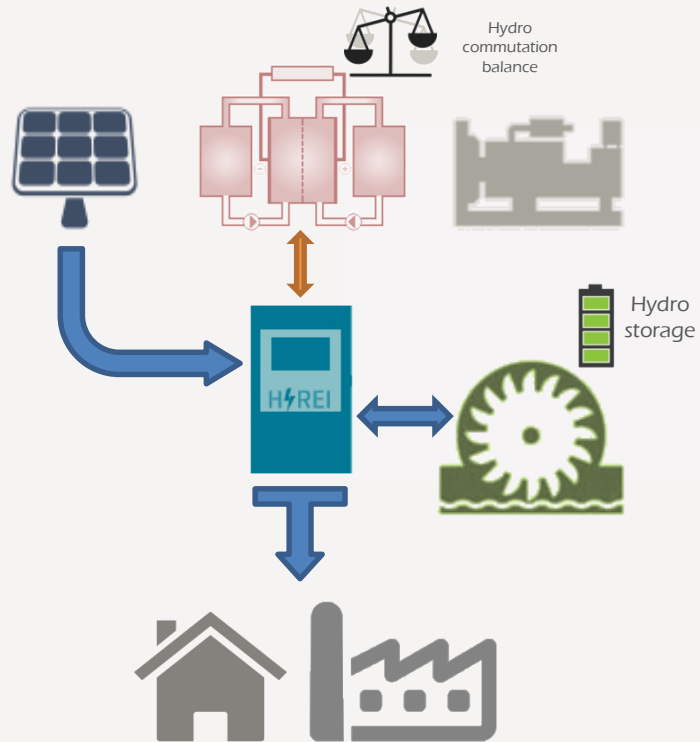
Pump → turbine commutation time: 4-5 min*

Turbine → pump commutation time: 6-7 min*

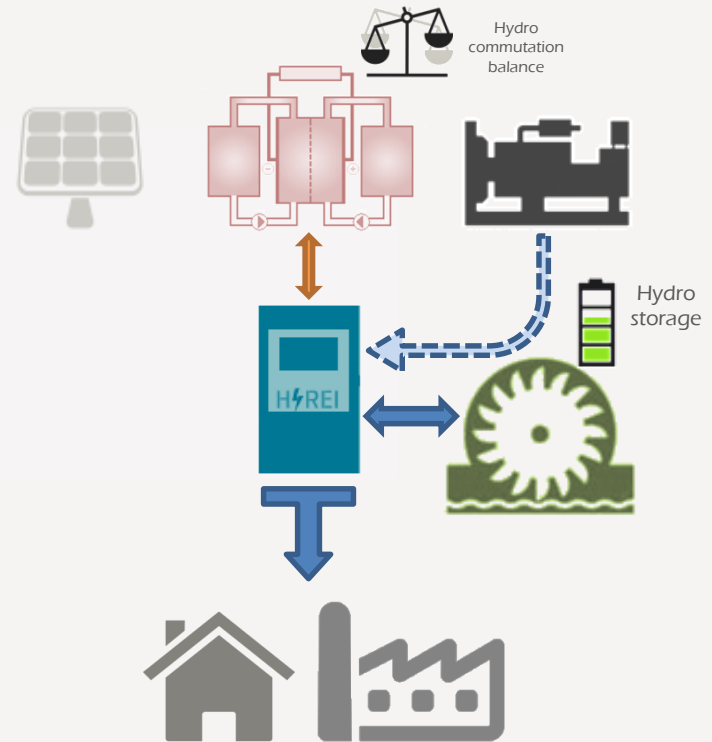


Hydro-VRFB storage system

day



night





H[⚡]REI
NEW ENERGY GENERATOR



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