



Maalin wanaagsan !

Buongiorno !



HYBRID SYSTEM for GAROWE city

**a system
for
the future of national electric grid
and
for the development of Somalia**

Country Presentation Somalia – Roma 16 marzo 2016

GAROWE
2016
February the 22th



Grand Opening event of HPP - Hybrid Power Plant

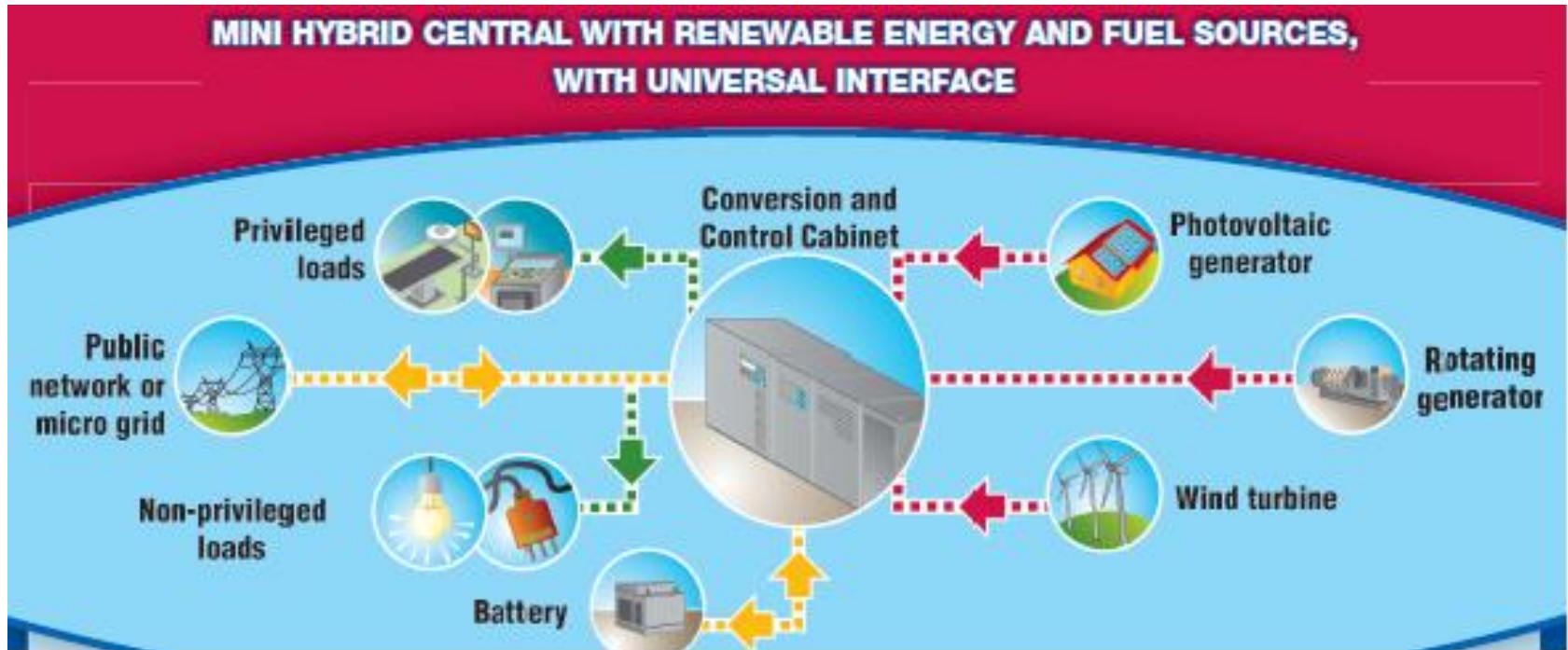
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**The most important message,
given by the top management of
NEC (*Nugal Electricity Company*)
on the Grand Opening event**



**The
electricity tariff
has been reduced from 96 c\$/kWh to 79 c\$/kWh**

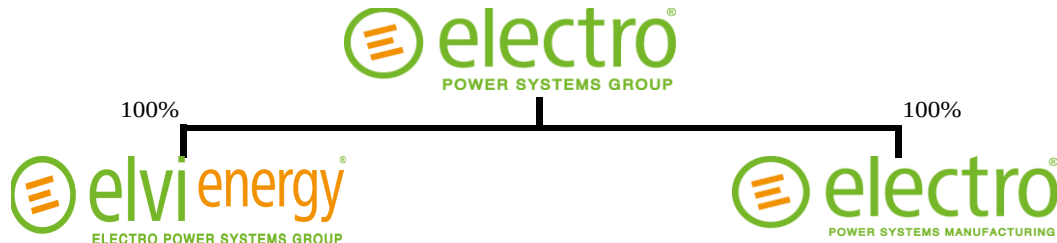
Hybrid Power Plant



Hybrid Power Plant is generation plant using both renewable sources and fuel-powered systems, equipped with battery energy storage

But what is a HPP and who we are?

Elvi Energy is Part of Electro Power Systems Group, listed on the Paris Stock Exchange, certified worldwide



Paolo Morandi
Elvi Energy Chairman

Gabriele Marchegiani
Managing Director

NYSE Euronext
to start global sale
(EPS:PA)

Electro Power Systems
is listed on the
regulated market since
2015

ISO9001, 14001, OHSAS,
CEI certified

Full commercial product offer
certified in USA, Canada, EU and
China

€8.6
million
Q3 Net
Financial
Position



Zero financial indebtedness

The main technical characteristics of Garowe's HPP :

- => 1 MWp PV field, with Elvi C-PV converters
- => 4 Diesel Generating Sets (630kVA) with customized control
- => 2 C-BESS250 Elvi doing 500 kW BESS power.
- => 4 wind turbine 400 kW each.
- => 1440 kWh Energy Storage system, Lead acid batteries
- => 11 kV Medium voltage distribution system.
- => 1 MGC control.
- => 1 HMI, monitoring system, data logging and remote monitoring

Average monthly consumption: 500,000 kWh

Average monthly production of solar energy: 100,000 kWh

Monthly fuel economy Diesel: 50,000 liters



We started from here :



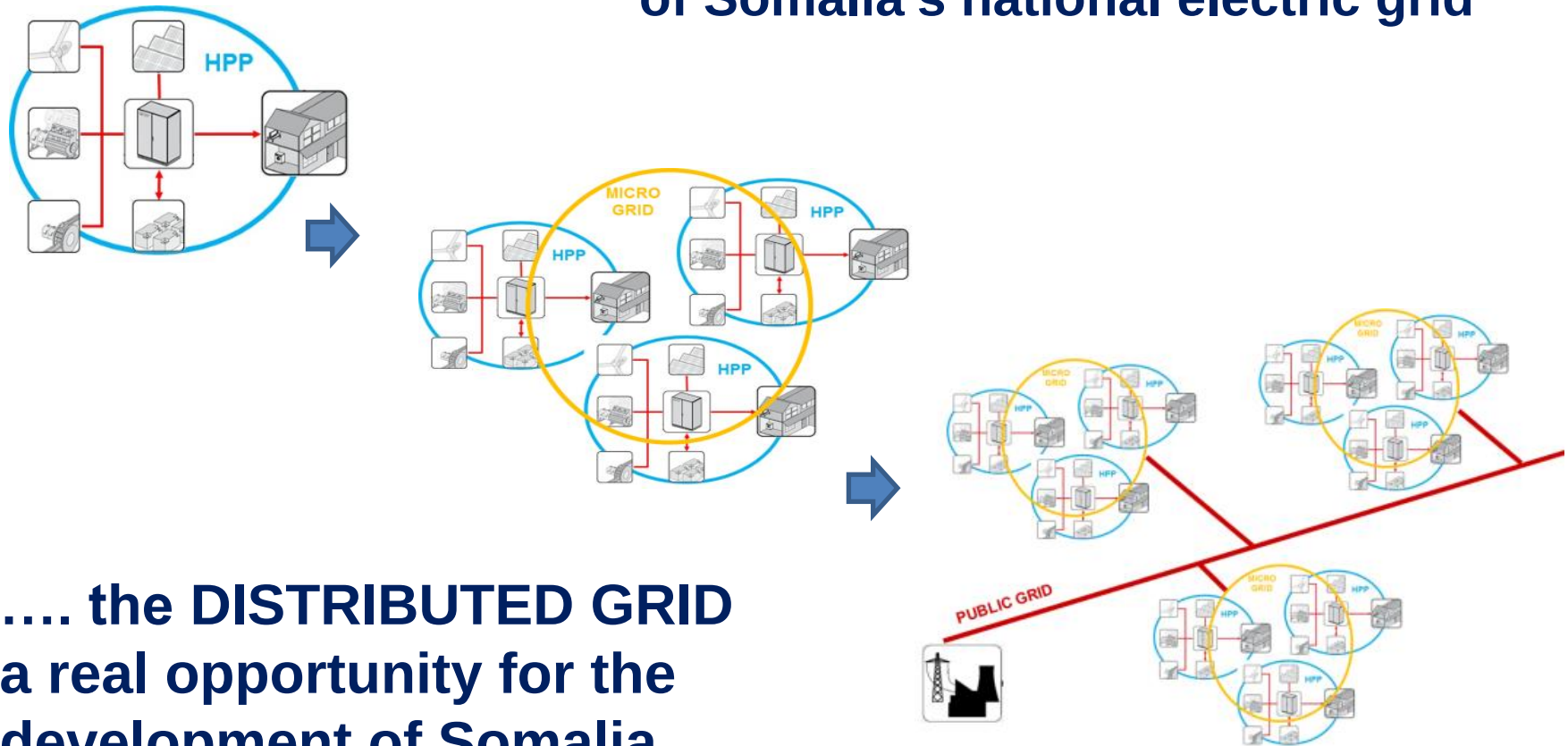
.....and we arrived here :



...but we don't want to stop here

..... but where to go?.....

..... a good strategy for the future
of Somalia's national electric grid



.... the **DISTRIBUTED GRID**
a real opportunity for the
development of Somalia



Mahadsanid Soomaaliya!
Grazie Somalia !

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