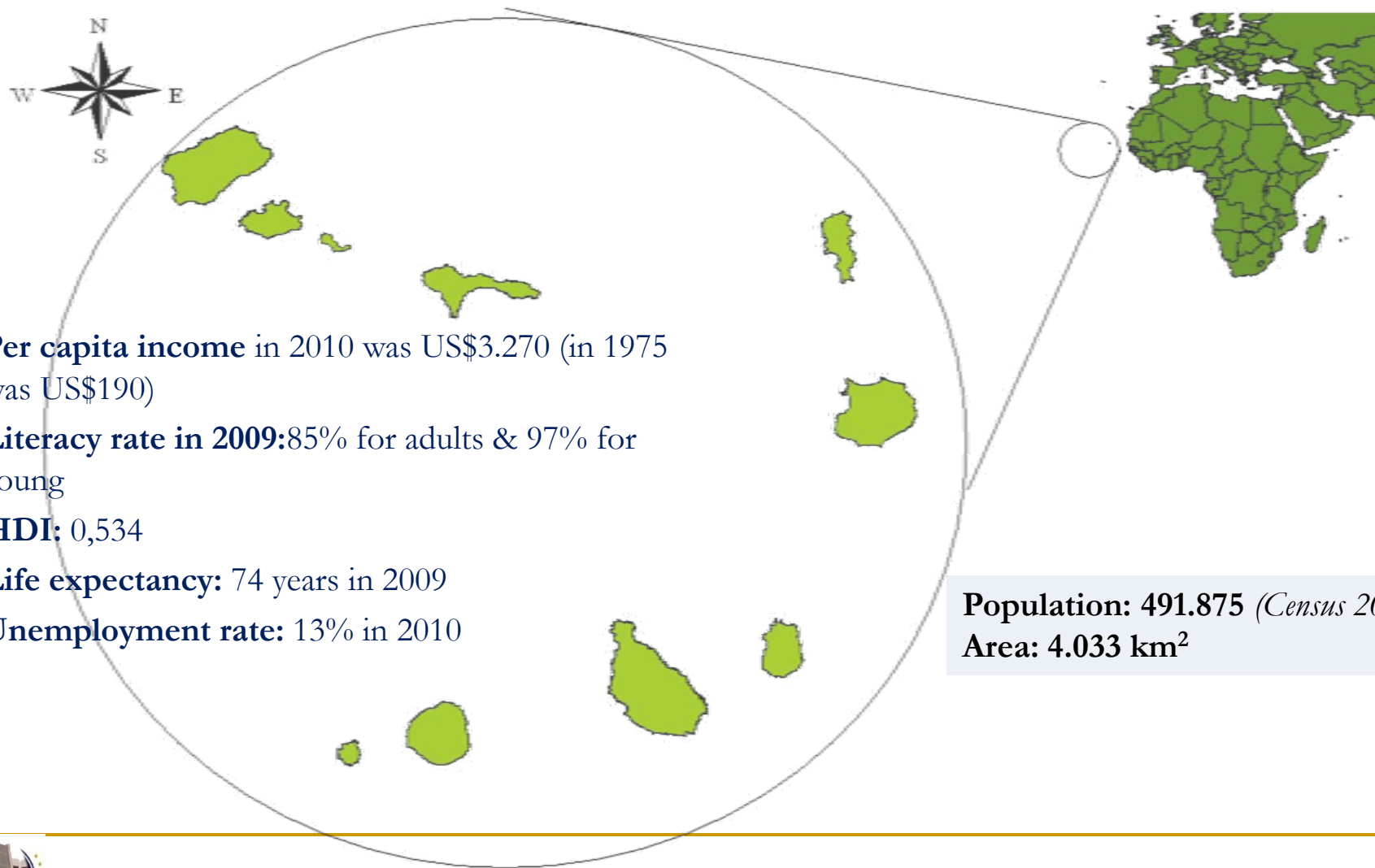

Cape Verde:

Building a secure energy future

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Accra, Ghana, October 2013

Cape Verde snapshot



- **Per capita income** in 2010 was US\$3.270 (in 1975 was US\$190)
- **Literacy rate in 2009:** 85% for adults & 97% for young
- **HDI:** 0,534
- **Life expectancy:** 74 years in 2009
- **Unemployment rate:** 13% in 2010

Population: 491.875 (*Census 2010*)
Area: 4.033 km²



Cape Verde gained independence on 5 July 1975 facing major developmental challenges...



Cape Verde's progress in socioeconomic development is widely recognized

- Signed a special partnership agreement with the European Union in November 2007
- Acceded to the World Trade Organization in December 2007
- ECOWAS Member State
- Graduated from the list of Least Developed Countries in January 2008



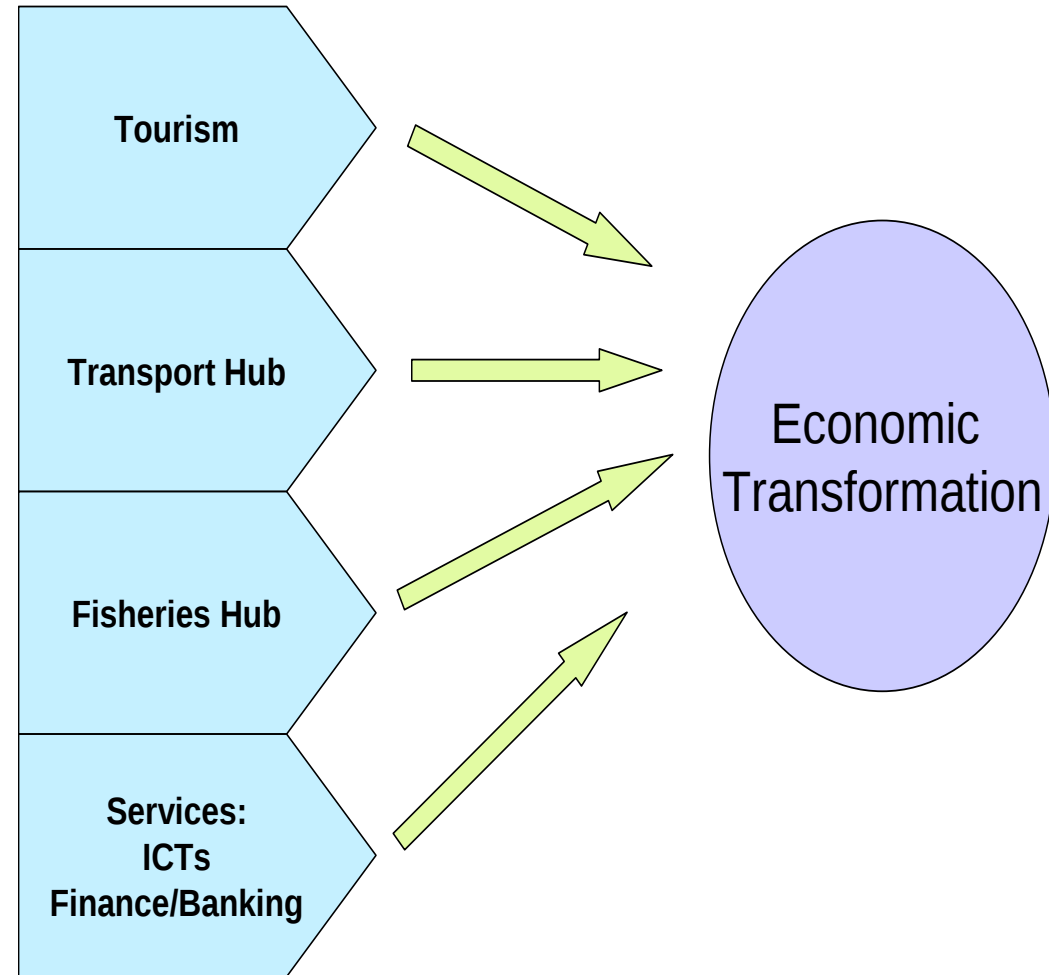
The focus now are economic transformation and societal modernization

- In the short to medium term:
 - ❑ Maintain double digit growth while keeping inflation low
 - ❑ Reduce unemployment to single digit
 - ❑ Reduce poverty rate below the MDG level
 - ❑ Lay the foundation to expand the productive base of the economy
- In the medium to long-term:
 - ❑ Consolidate the market economy led by the private sector
 - ❑ Modernize our society and institutions
 - ❑ Reform the state and invest in e-governance innovations
 - ❑ Construct a nation that is globally competitive



Transforming our economy based on building our competitiveness in key service sectors

- Tourism – high value added tourism
- Fisheries – Regional center for processing, marketing, and exportation of marine resources
- Transportation – “Hub” for passengers and cargo
- Services – Finance, ICTs (business process outsourcing)



Cape Verde's Investment Climate

All objective indicators suggest a good destination for investment

- Open and Free Economy with an emergent private sector
- Stable macroeconomic environment
- Freely convertible currency, pegged to the Euro
- Good and improving infrastructure
 - ❑ Telecommunications sector performance is good
 - ❑ Energy sector is improving with new policies and investments
 - ❑ Four International Airports
 - ❑ Seaports: major ports in Mindelo and Praia
- An educated and skilled labor force
 - ❑ 100 percent primary school enrollment
 - ❑ 70 percent high school enrollment

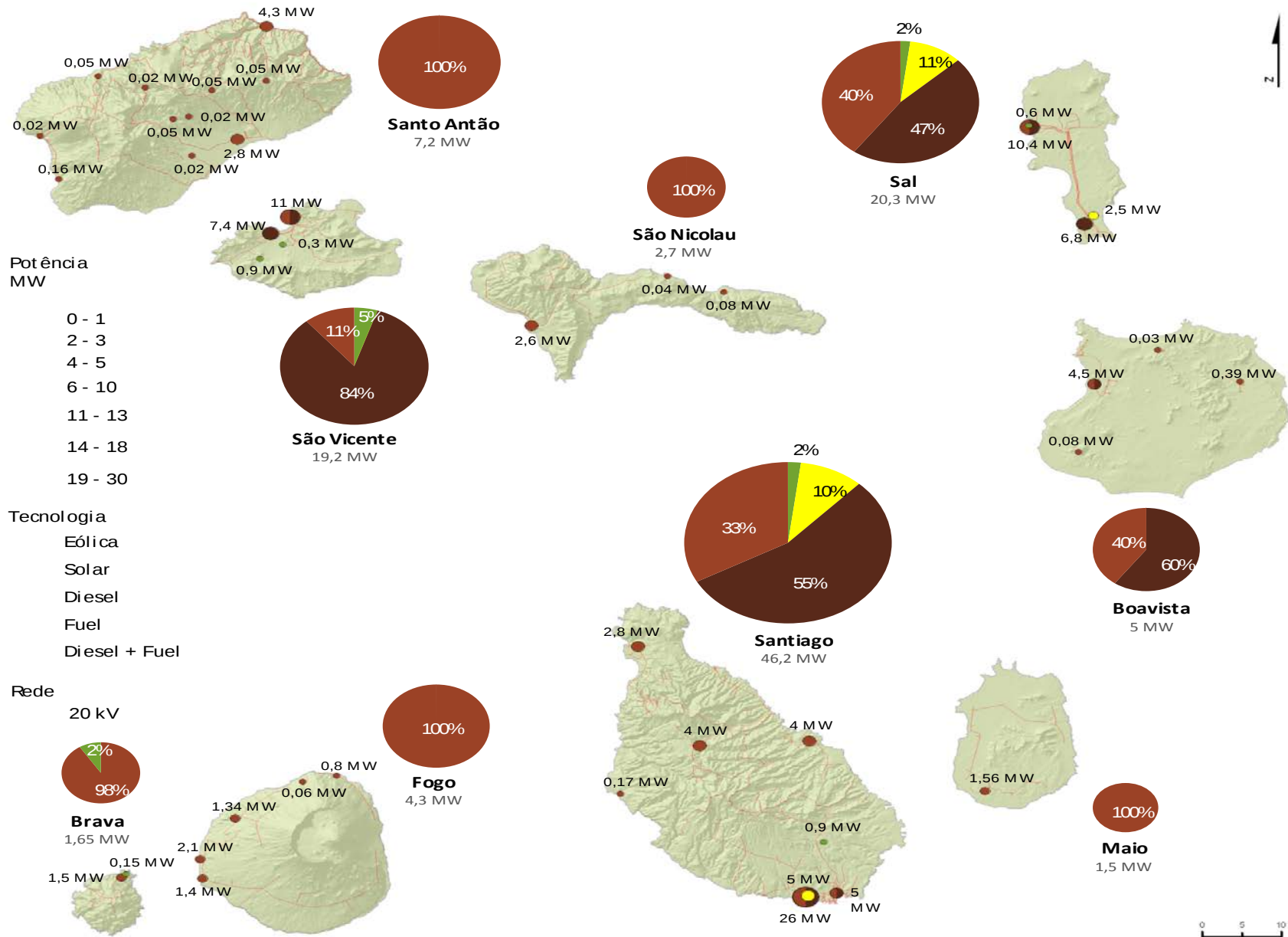


Indicators of electricity sector

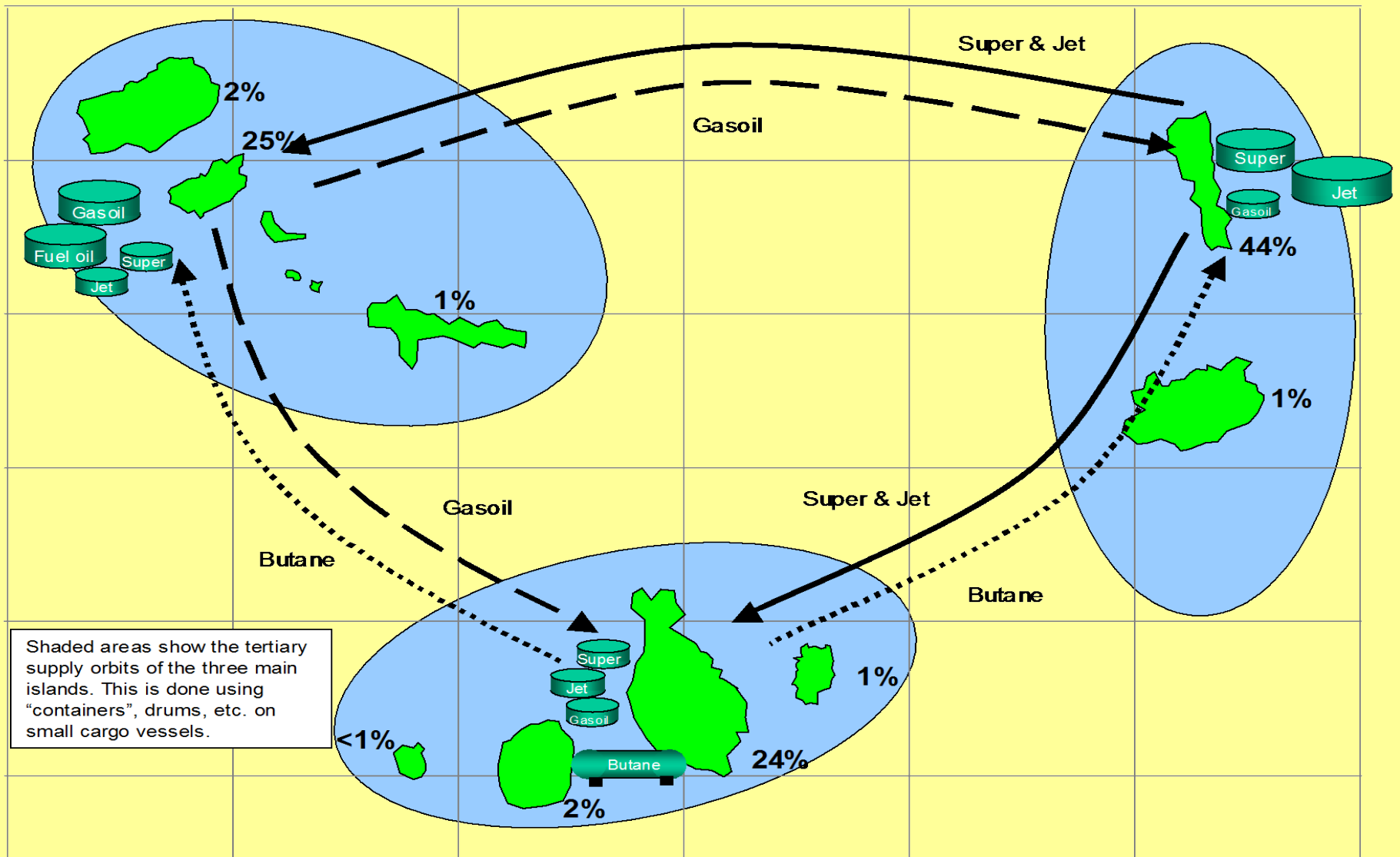
Indicadores	2002	2012	Var.%. 2002-2012
Instaled Capacity (kW)	79.032	155.785	97,1
Production (kWh)	181.156.727	370.832.297	104,7
Coverage Rate (%)	53,0	96,0	81,1
Demand (kW)	34.530	68.350	97,9
<i>per capita</i> Consunption (kWh)	350,9	700,0	99,5
<i>per capita production</i> (kWh)	411,5	731,6	77,8
Energy sent to grid (kWh)	154.463.047	354.709.910	129,6
Energy loss (kWh)	37.282.844	97.256.547	160,9
Black-out (nº)	49	29	-140,2
GDP (bilion CVE)	19.468	36.208	86,0
Electricity Clients (nº)	54.485	138.446	154,1
Electricity price (CVE/kWh)	14,87	33,03*	122,1
Gasoil imported (CVE)	1.630.948.965	4.950.341.735	203,5
Gasoil price (ECV/Kg)	28,4	82,7	190,9
Fuel oil Imported (CVE)	300.204.860	2.432.322.027	710,2
Fuel oil price (ECV/Kg)	19,2	48,7	153,4



High reliance on fossil fuels for electricity generation



Cape Verde is highly dependent on imports of fuels; secondary and tertiary distribution



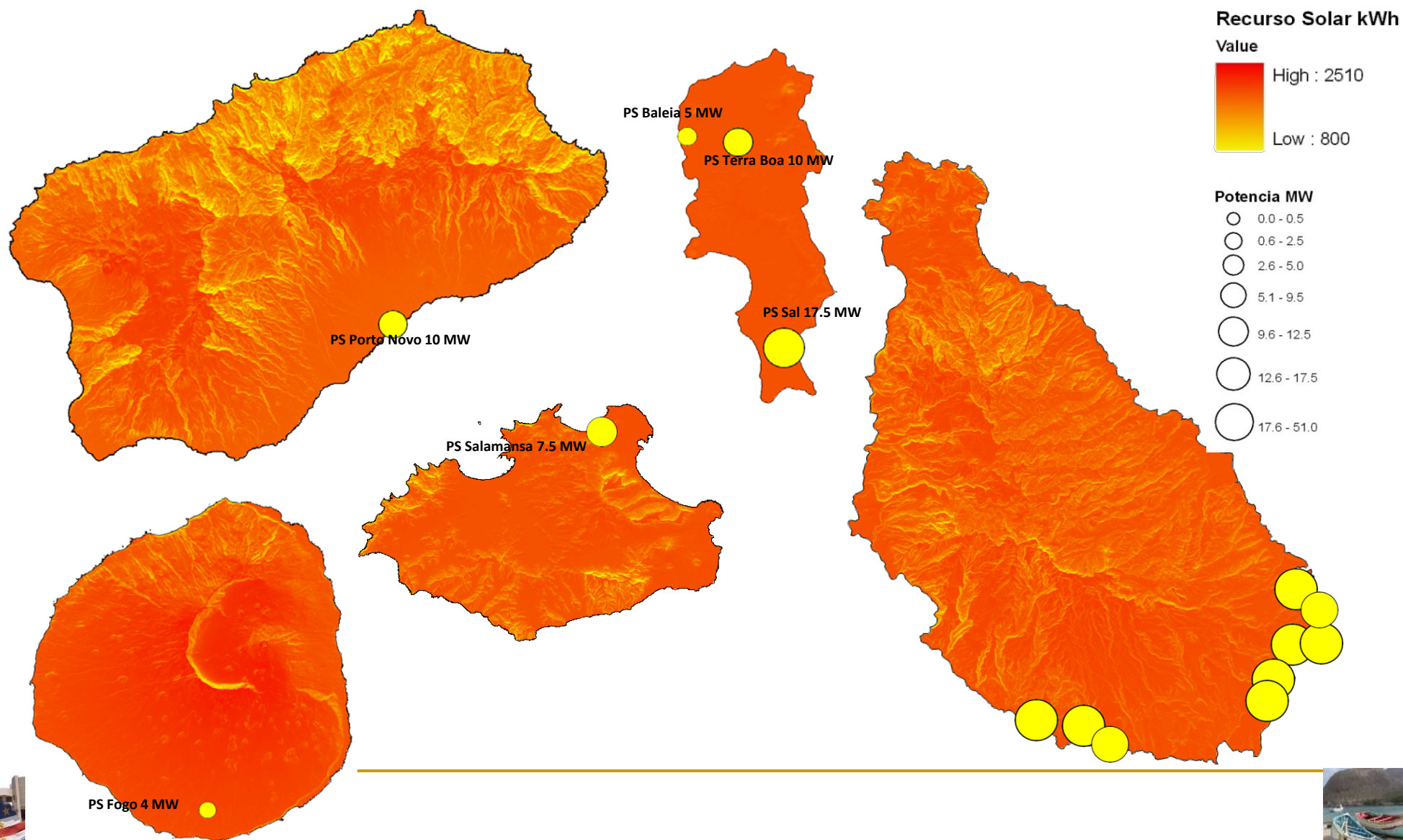
Situated near the Sahara desert and pounded by trade winds, Cape Verde has a good renewable energy potential

- Cape Verde constitutes a potential natural laboratory for renewable energy sources
 - ❑ Geo-strategic location
 - ❑ Proximity to the African market
 - ❑ Large & diverse natural energy sources

Renewable Energy	Potential
Waves	Medium
Currents	High
Biomass	Low
Geothermal	Medium
Hydro	Low
PV	High
Solar Thermal	High
Waste to Energy	Medium
OTEC	High
Wind	High



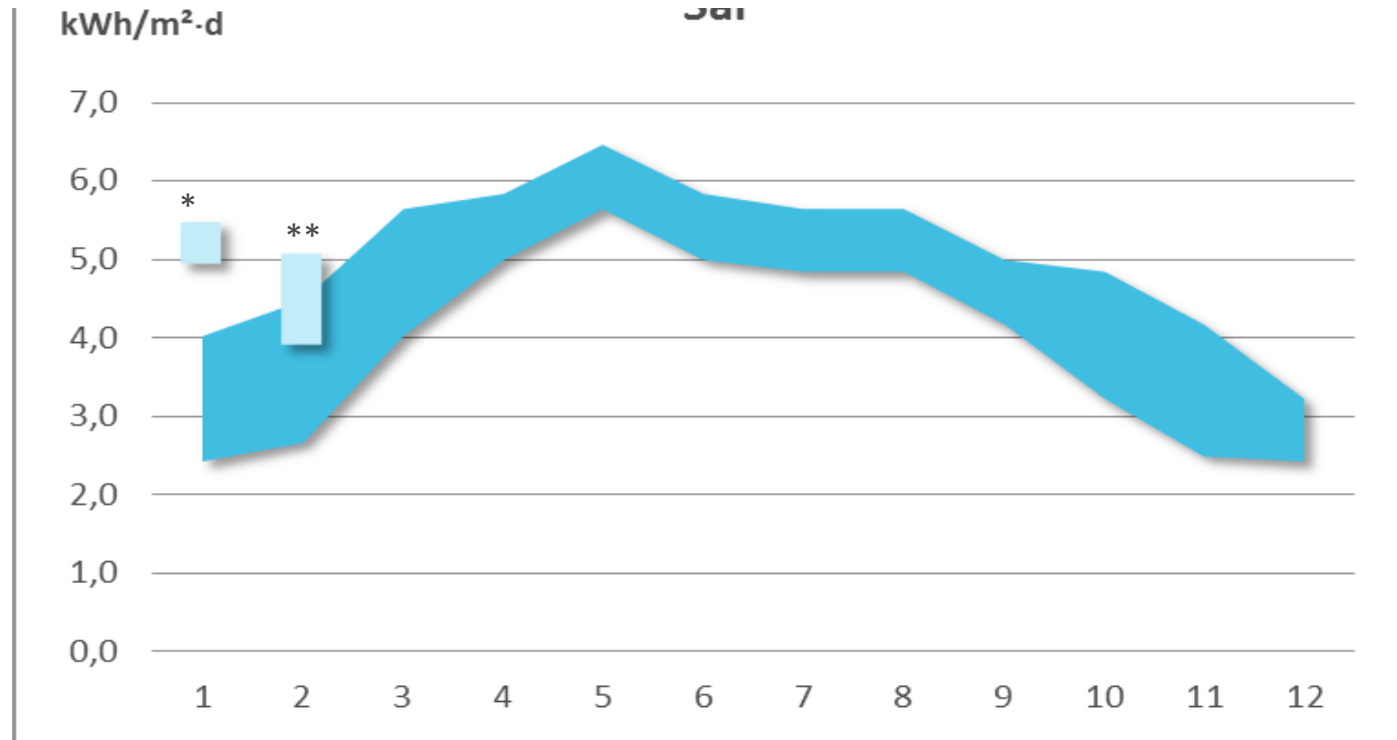
SOLAR



Solar

■ Solar resource in Cape Verde

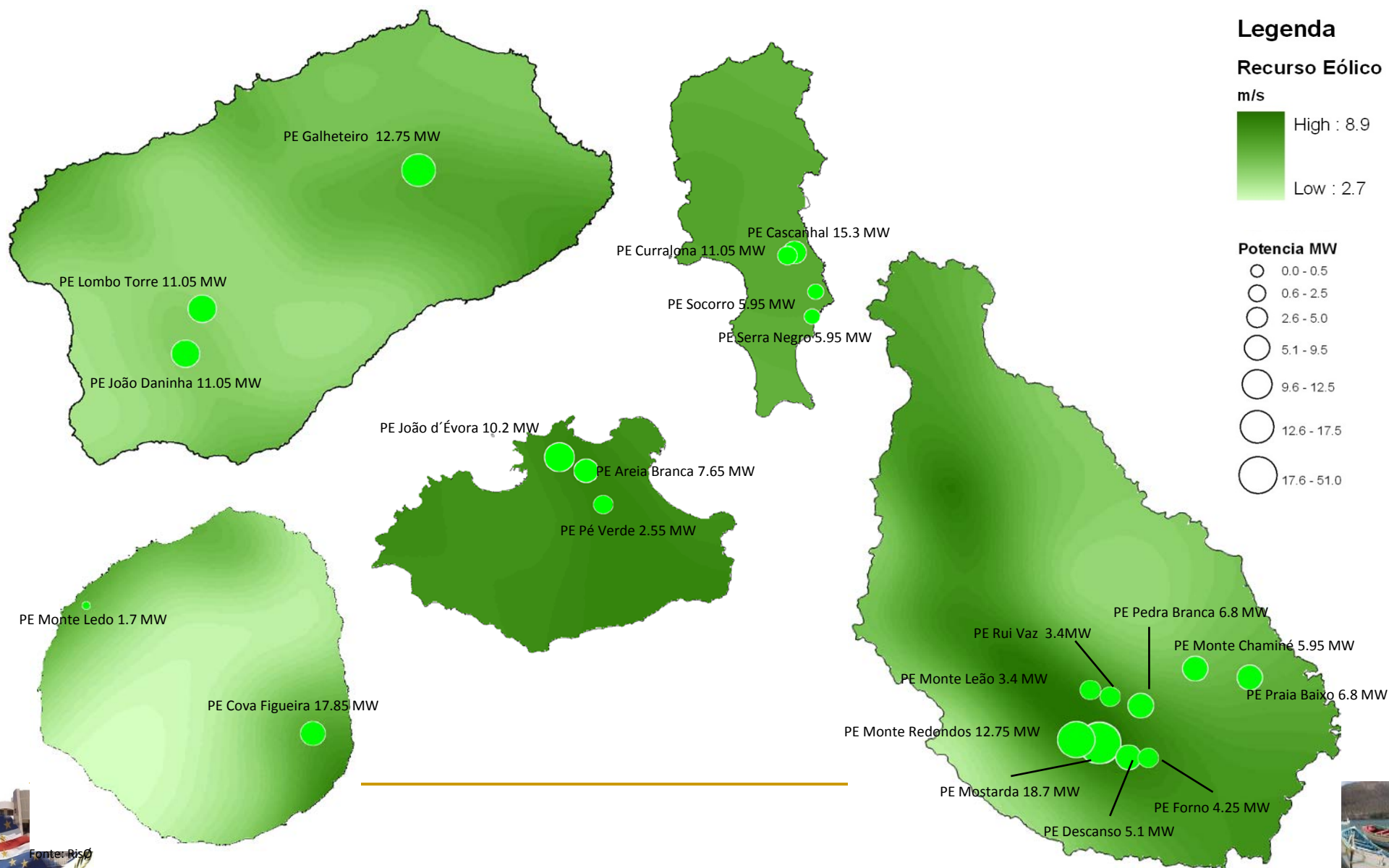
■ monthly values of global irradiation



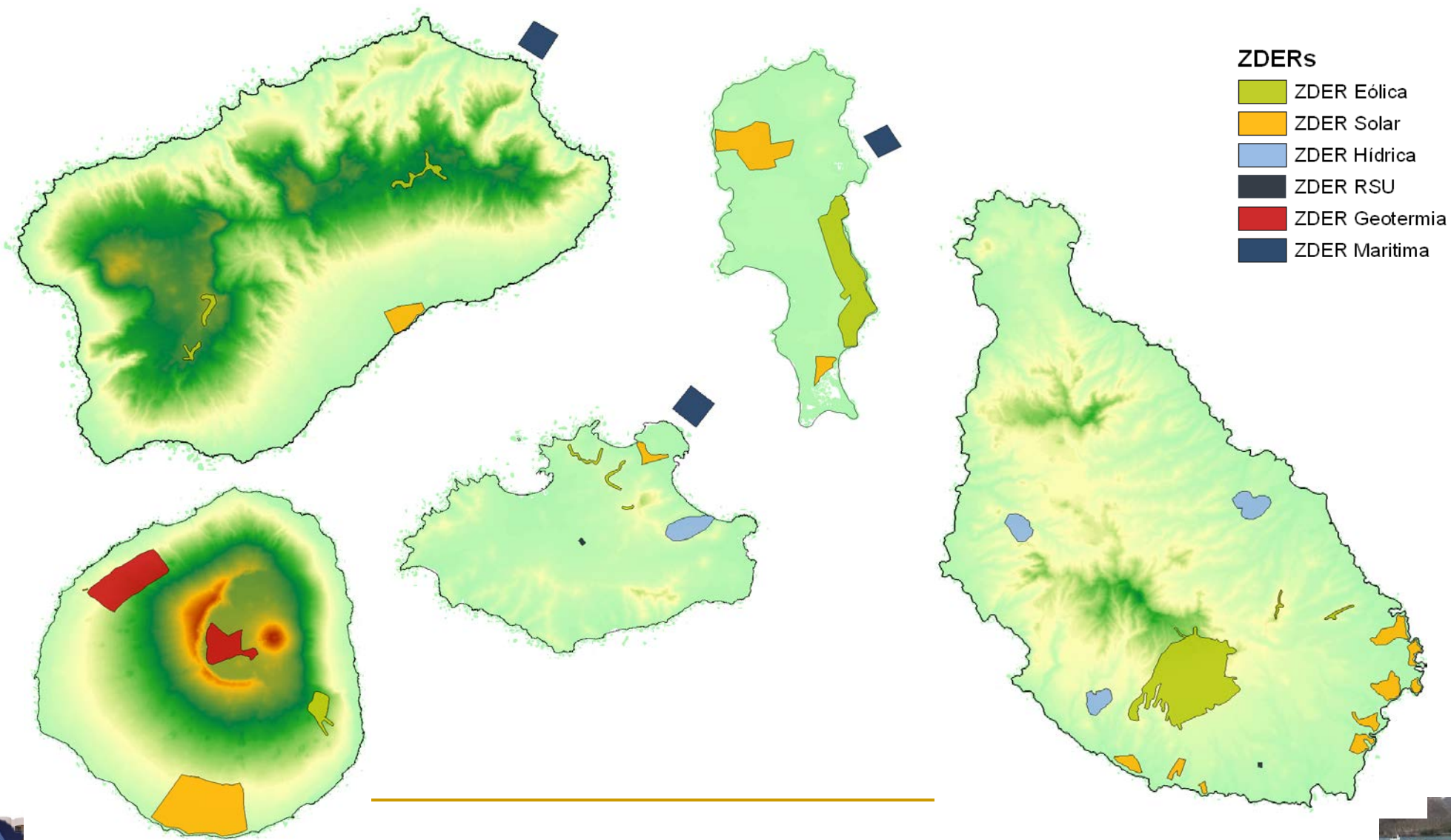
* daily value from annual average
** daily value from monthly average



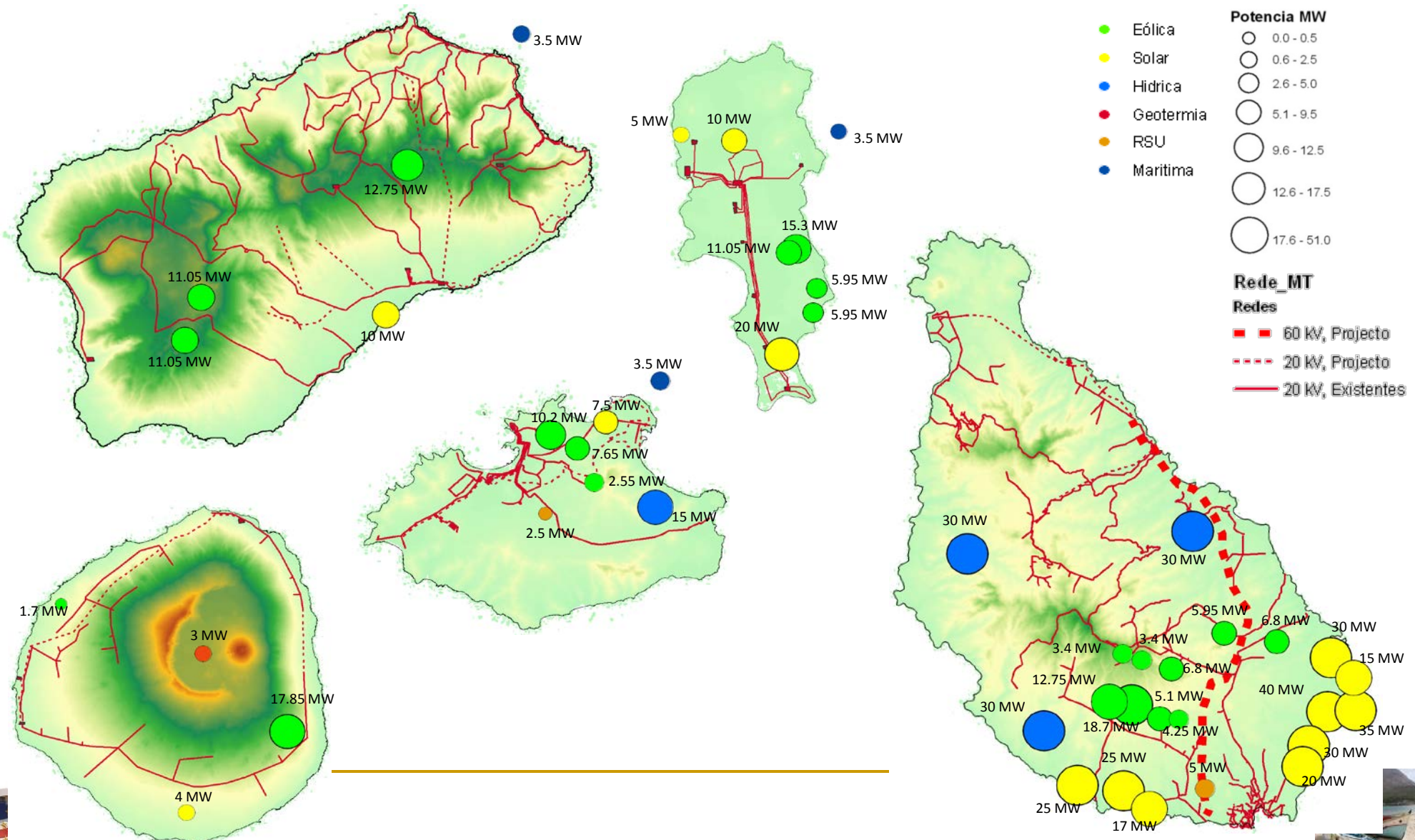
WIND



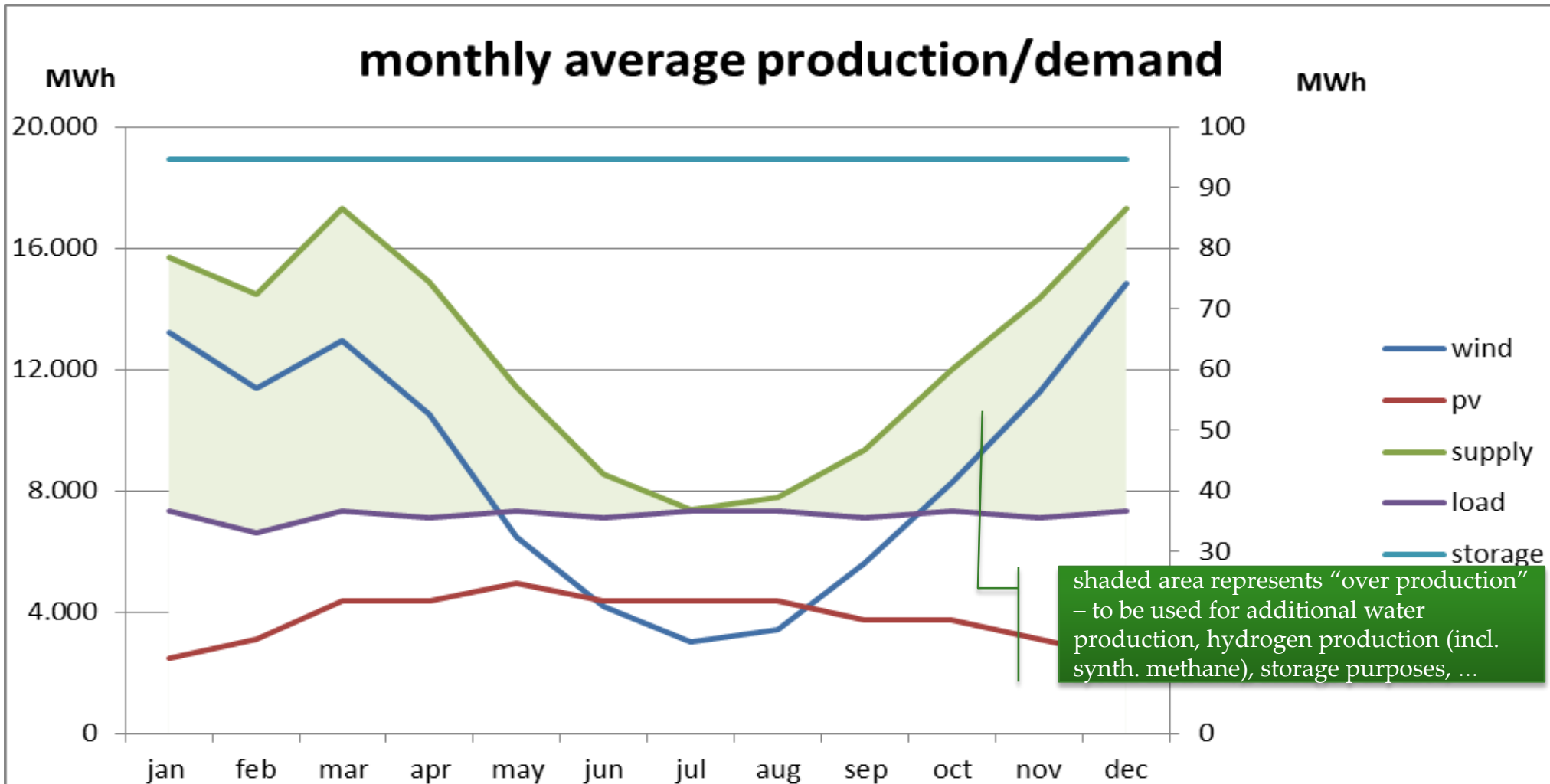
RESERVED ZONES FOR RENEWABLE ENERGY



GRID AND IDENTIFIED PROJECTS



100% Renewable: Production/Demand



Recently Commissioned Projects

- Solar park Praia – 5 MW
- Solar park Sal – 2,5 MW
- CABEOLICA – 25 MW – Wind park
- ELECTRIC – 0,5 MW – Wind park
- Monte Trigo 100% RE (hybrid system, Solar +diesel (back up)) – 25 kW
- Vale da Custa 100%RE (Solar + Wind) – 30,5 kW
- Others smal projects



Thanks

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