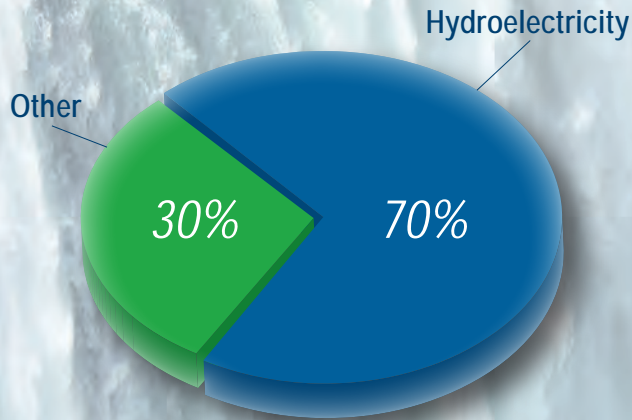
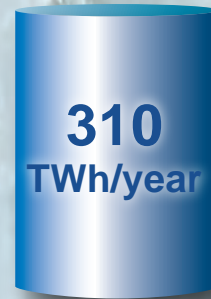


HYDROELECTRICITY

Modernisations and new installations



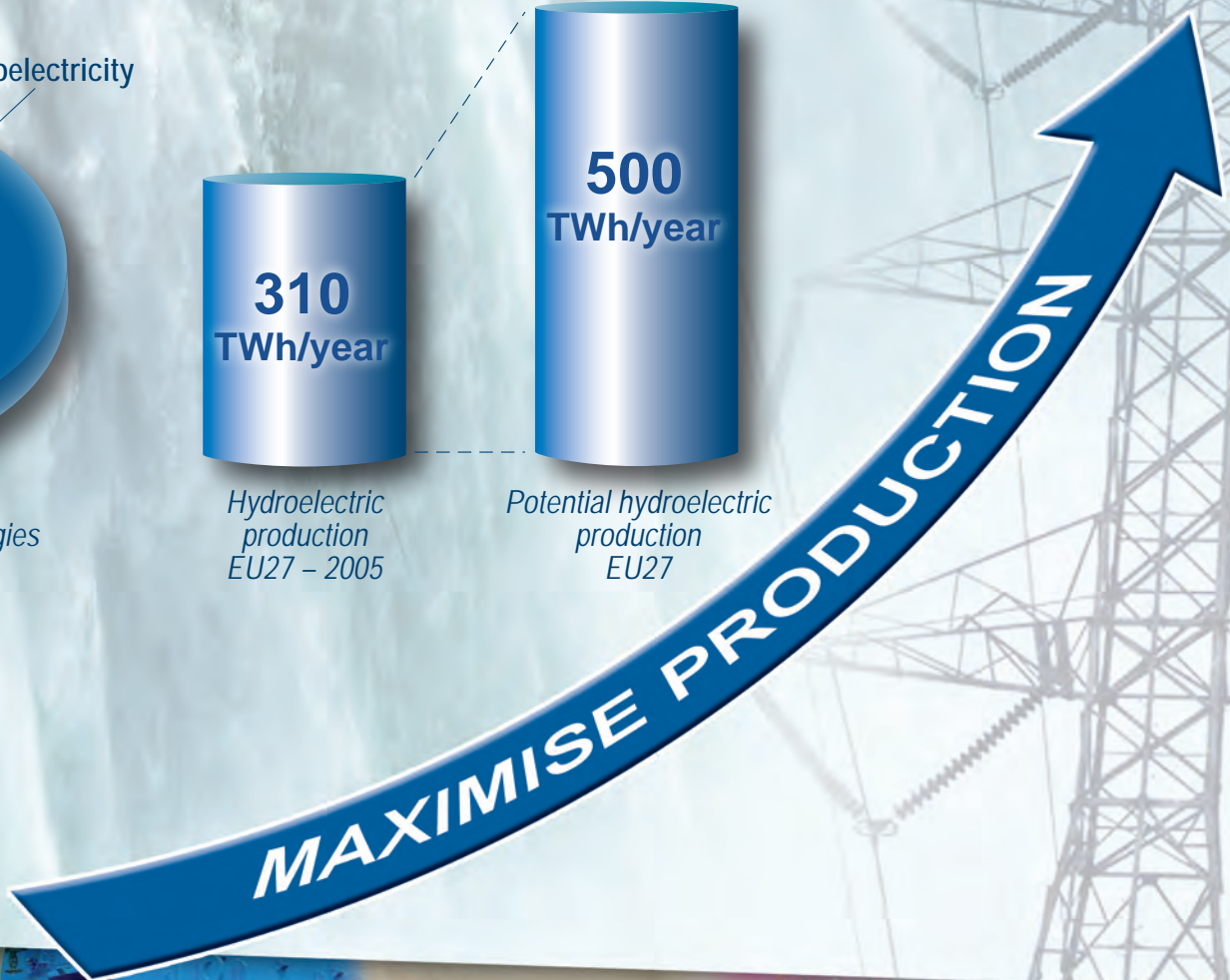
Breakdown of electricity generated by renewable energies EU27 – 2009



Hydroelectric production EU27 – 2005



Potential hydroelectric production EU27



"Productivity at its peak"

FIXED OR VARIABLE SPEED GENERATORS AND ALTERNATORS

Ranges up to 17 MW

Innovative variable speed solutions
suitable for all types of turbine technology on
a very wide range of speeds

- Very high efficiency generators
- Frequency inverters allowing to :
 - increase energy generation in extreme flow conditions
 - replace mechanical regulation of the flow rate
 - eliminate the synchronous-coupler
 - produce reactive power (elimination of capacitor bank)
 - handle runaway
- Integrated help for maintenance and remote monitoring
- Reduced maintenance due to possible elimination of the gearbox and immersed mechanical settings



Frequency inverters



Low and medium voltage alternators

Permanent Magnet Solutions
Dyneo



Permanent magnet generators



Asynchronous generators

