



ERG – A Renewable History Case

Italian – Norwegian Energy Dialogue - *Solutions For The Future* 8 April 2016 - Venue: Principe di Savoia (Milan)



ERG Group Today

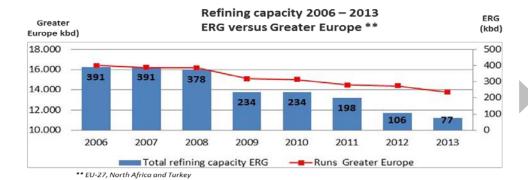


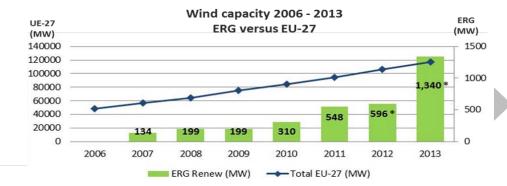
ERG Group

- In the energy sector for nearly 80 years
- Leading wind power operator in Italy, amongst the main windplayers in Europe
- Active in the production of electricity from water and thermal sources
- Listed on the Milan Stock Exchange



ERG versus Europe





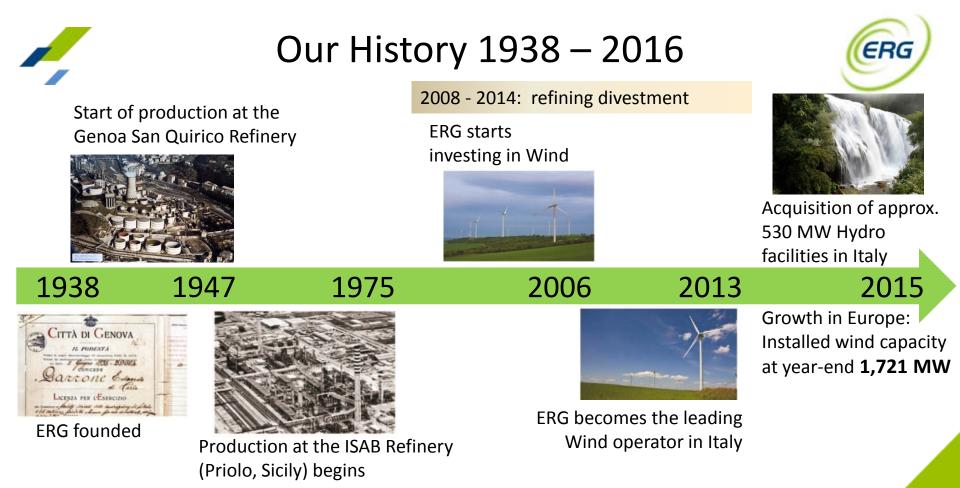
ERG refining capacity 2014: 0 kbd

> Between 2006 -2013 ERG promptly reacted to the decline of refining margins entering the wind energy sector and anticipating future trends

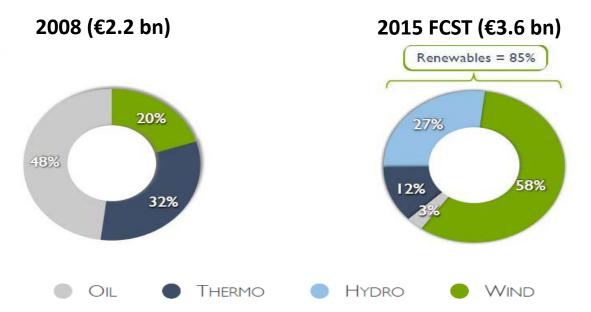
ERG Wind capacity 2014: 1,341 MW 2015: 1,721 MW

50% LUKERG Renew share included

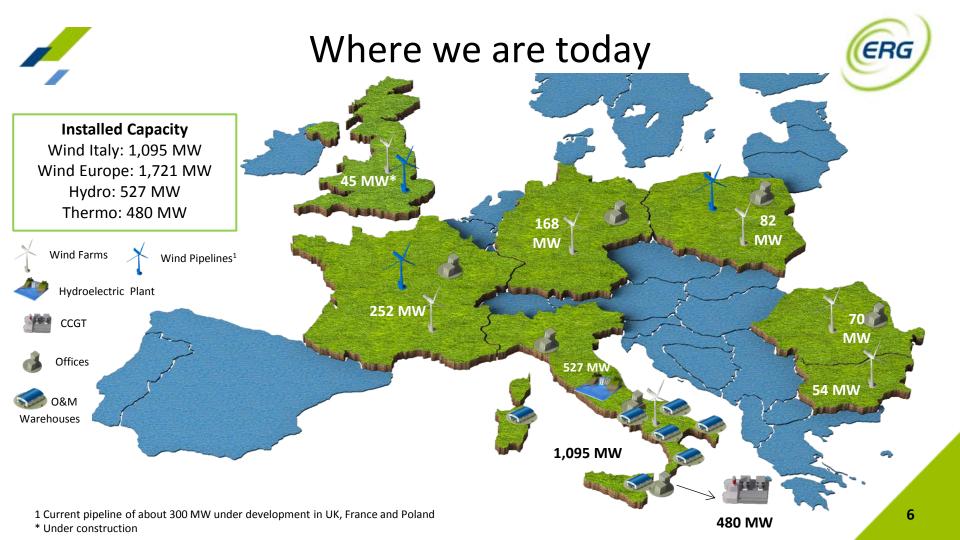
ERG







ERG



ERG Power Generation – Hydroelectric 1/2

By end of 2015 acquisition of the Terni Hydroelectric Complex





Marmore Falls, the highest falls in Europe (165 m) are in the Terni Hydroelectric Complex

ERG Power Generation – Hydroelectric 2/2

Hydro

Hydro Production in Italy (TWh/y)



Source: last available public information related to 2014 ¹⁾ Forecast for hydro production in the plan period equal to 1.4 TWh/y



This acquisition offers the opportunity to **diversify our production sources** by entering the hydroelectric sector with notable dimensions and is in keeping with our **growth strategy in Renewables** via investments in high quality assets

ERG Power Generation - Thermoelectric





- high efficiency power plant in Priolo Gargallo (Syracuse, Sicily)
- cogenerative 480 MW Combined Cycle Gas
 Turbine
- best available technologies in terms of efficiency and air emissions control

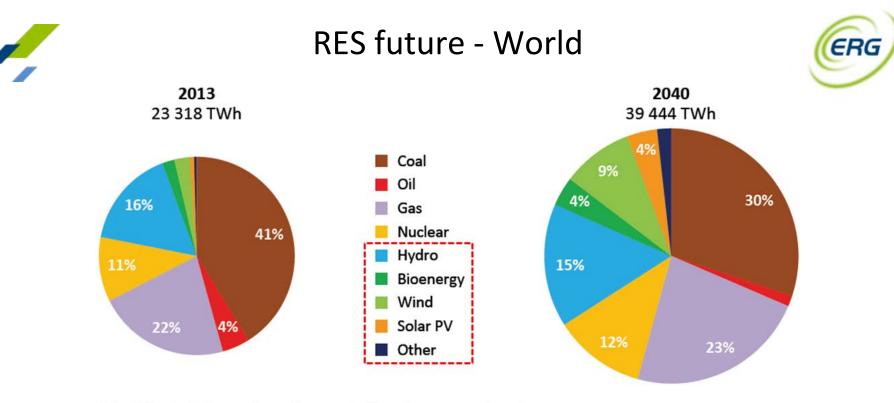






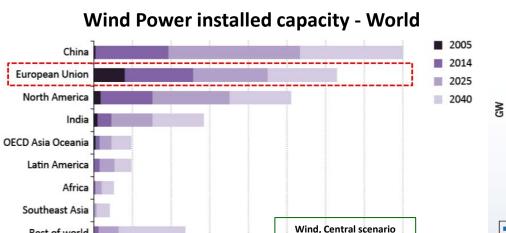
- In 2013 ERG launches a gradual insourcing of **Operation &** Maintenance activities for our Italian wind farms
- As of 2015 ERG Renew O&M is fully responsible for the direct operation and maintenance of wind farms in Italy
- New O&M concept to be extended to foreign Units





Note: Other includes geothermal, concentrating solar power and marine.

Reputable forecasts confirm the growing penetration of RES with a share in power generation of 35% in 2040, versus an almost equal reduction in use of oil and coal



350

400

GW

Rest of world

50

100

150

200

250

300

Wind, 2030 scenario per Regions 140 120 100 80 60 40 20 0 Central Northern Southern Western Iberian Eastern Baltic Peninsula Europe Europe Europe Europe Europe 2014 28.8 41.5 27.9 10.9 10.8 8.2 0.6 71.7 19.8 19.2 16.8 1.5 Low 81 41 88 50.9 31 23.1 22.5 2.7 101.9 Central 98.5 59.5 43.3 30.4 26.8 High 129 4.6

Scenario depends on efficency of future EU governance system to achieve the 27% RES target

RES future, focus Wind – Europe and Italy



12

2015 – 2018 Plan: Strategic Guidelines





600 MW growth in installed wind power capacity outside of Italy



insourcing of wind operations management activities in Italy and abroad



integration of 527 MW pertaining to the newly acquired Terni hydroelectric integrated system



Energy Management: integrated management of portfolio comprising over 8 TWh of electricity



Continuous improvement of the efficiency of the ERG Power CCGT plant







Be Renewable, Be Sustainable



We are winning our global challenge thanks to a Sustainable Development model

"Sustainable Development is a development which meets the needs of current generations without compromising the ability of future generations to meet their own needs"

(Brundtland Commission's Report, 1987)