



Annual Conference RES4MED

Rome, May 19th 2016

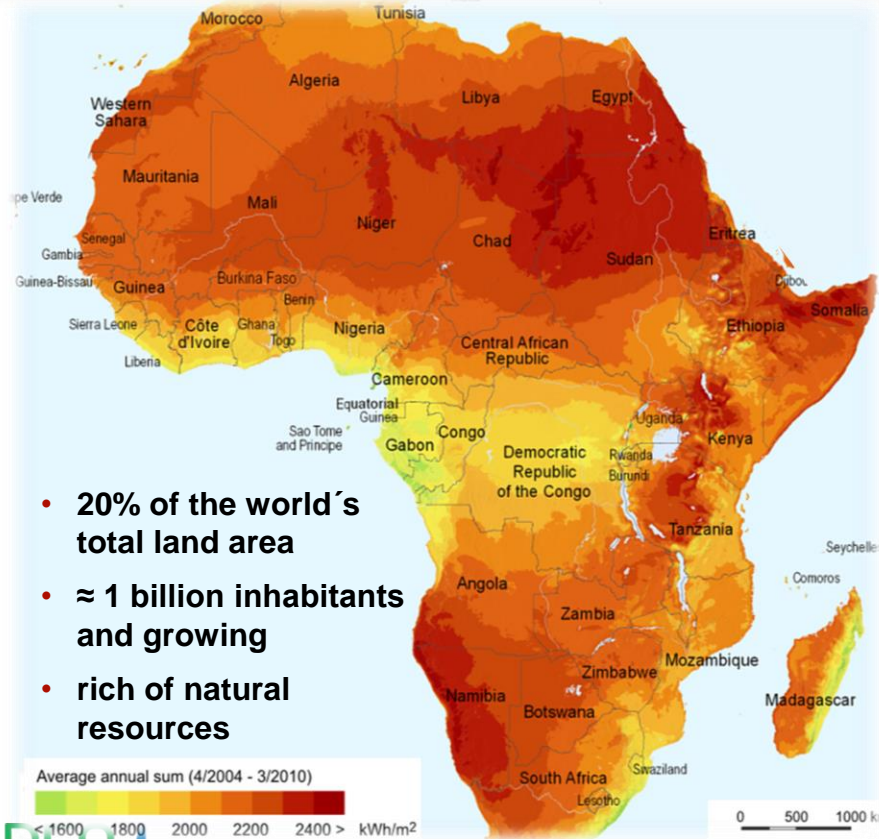


Enhancing investments for clean tech solutions, beyond MENA towards Africa: challenges and opportunities

Energy system in Africa

Africa has a strong potential to expand its power system with efficient and renewable sources. Investments in energy infrastructure strengthening are necessary

A Continental Potential!



Key facts

- Total installed capacity in the whole continent is below 150 GW, roughly 50% more than China's *yearly* installations
- Electricity generation is based on oil, powering inefficient small scale generation power plants
- Transport and distribution infrastructures are underdeveloped

The way forward

With an increasing urban population, Africa has strong potential to expand its power system with efficient and renewable sources:

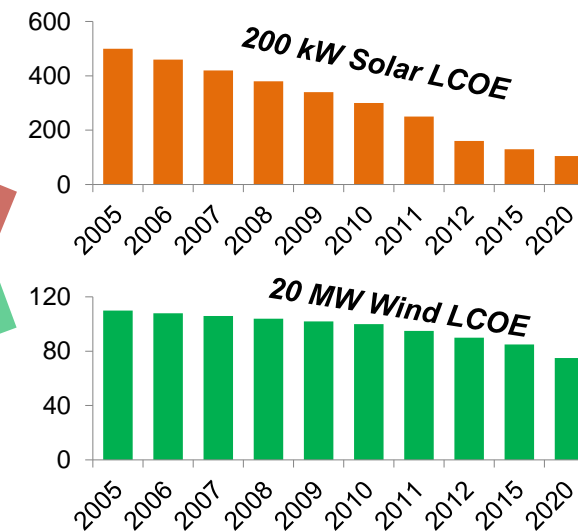
- **Solar** potential is huge; around **20-25%** of the **world's** total technical **potential** lies in Africa
- Only 10% of its 283 GW total **hydro** potential explored
- **Wind, bioenergy and geothermal** also have a great potential

Challenges vs Technology solutions

The decrease in renewables LCOE, especially that of Solar, makes investments financially viable in a country rich of resources. Grid development and the uncertain regulatory framework remain the main challenges.

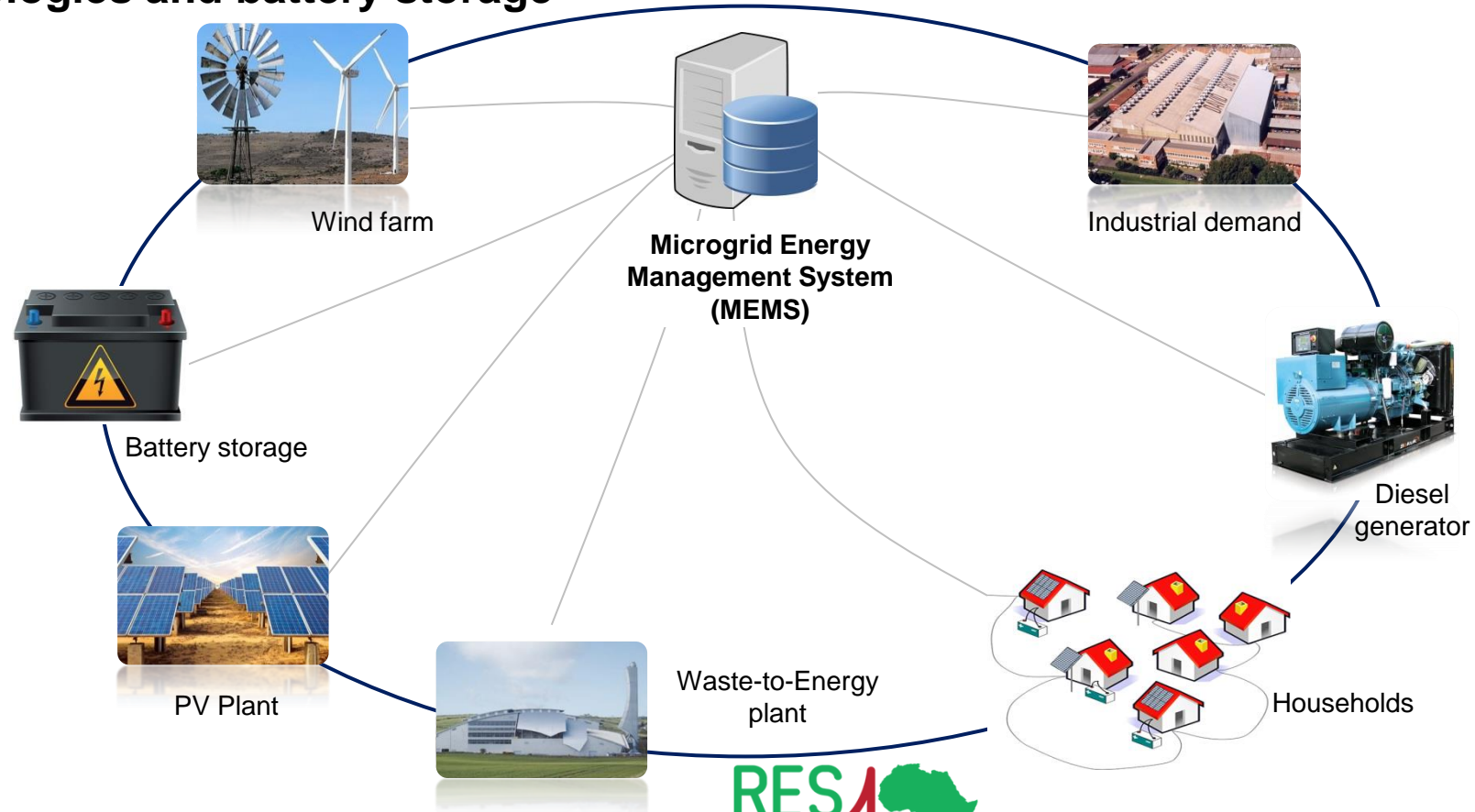


Infrastructure development necessary to accommodate growing demand and RES potential!



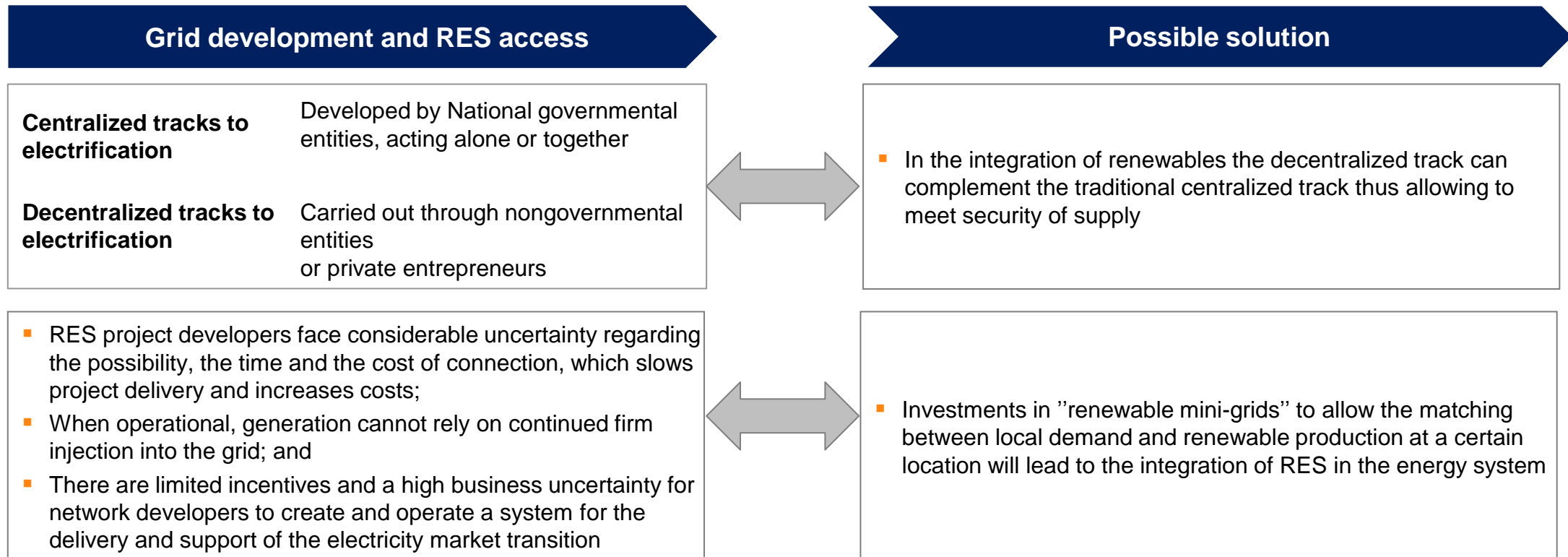
Exploiting the technological potential

The development of mini-grids in poorly interconnected areas provides for interesting business opportunities, this in coordination with the development of clean generation technologies and battery storage



The role of grids in RES integration

In the integration of renewables the decentralized track (grid development also by private entities) can complement the traditional centralized track (grid developed by national governmental entities)



Topics being addressed



**Modesto Gabrieli
Francescato**
(Strategy and Development)

Regional and national interconnections



Matteo Codazzi
CEO

Integration of renewable energy sources in the electricity system: grid connection. Focus on intermittency management, storage solutions, grid capacity, by providing lessons learned in mature markets.



George Pergamalis
Head, Business
Development - Africa &
Middle East

Energy access - Minigrid and village power business models



Agostino Re Rebaudengo
President

Waste to Energy



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Thank you

