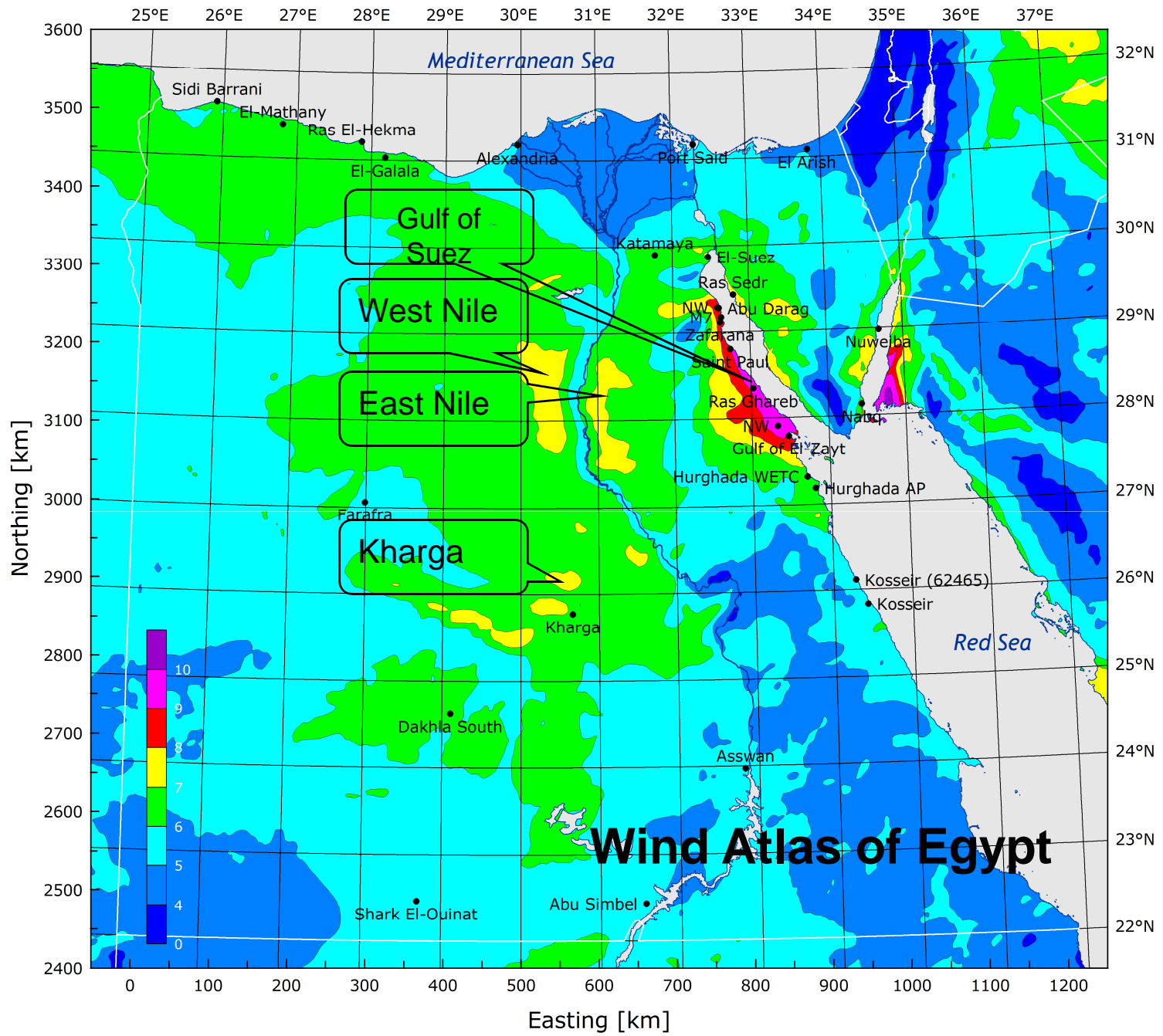


# Wind Energy Development for Egypt





# Development areas

- Gulf of Suez area
  - Best wind potential, area restrictions
    - Areas assigned to Gas and Oil Industry
    - Environmentally protected areas
    - Grid extension 500 kV for 5000 MW (7.000)
- Area west of the Nile
  - Lower wind potential, low wind turbines
  - 500 kV grid available

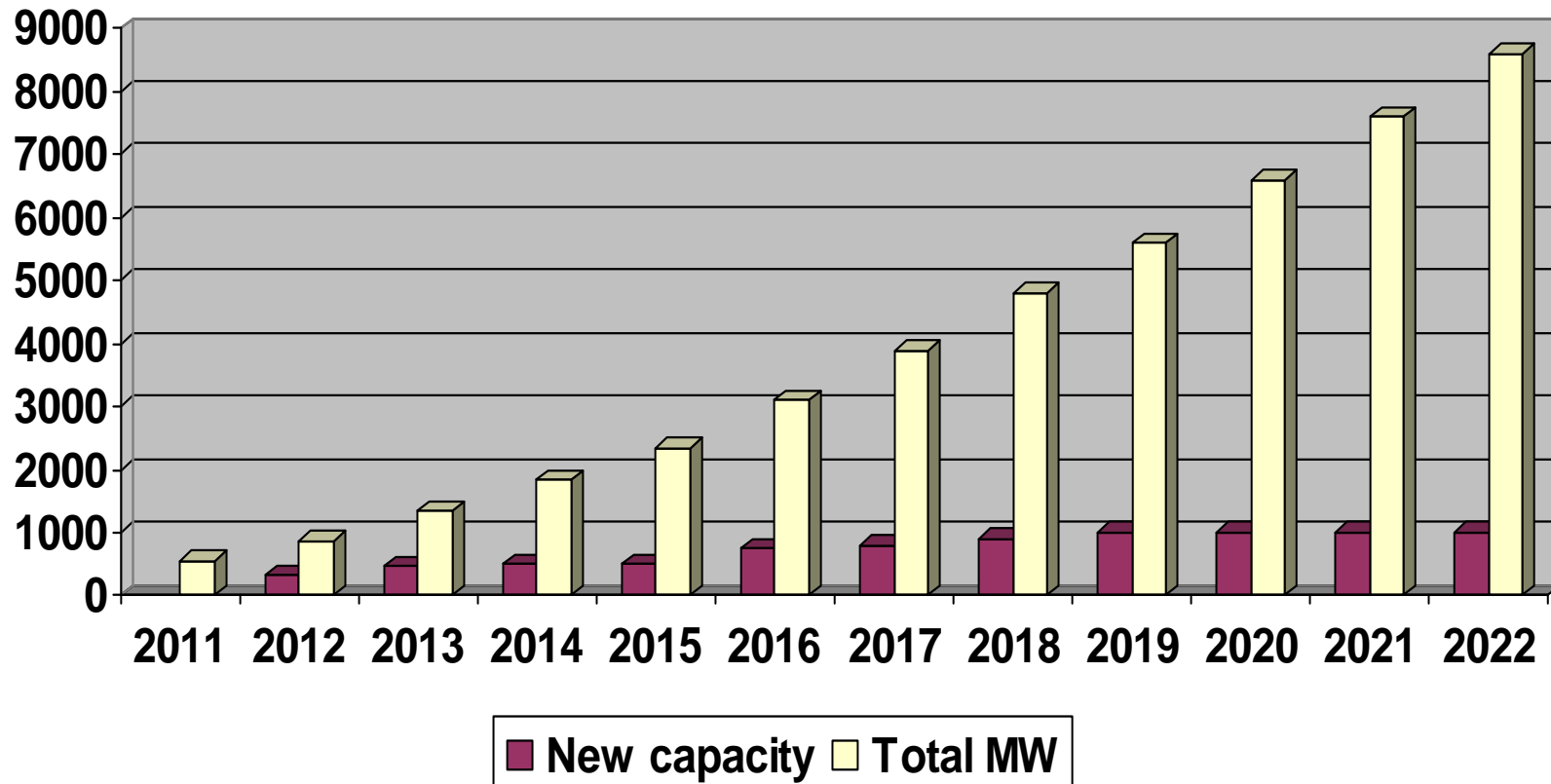
# Expected development until 2022 private projects starting 2013

The time schedule is based on the assumption that the necessary grid enforcements for the planned wind farms can be completed by mid 2012.

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
New cap.	320	220									
Priv.	250	250	500	500	750	800	900	1000	1000	1000	1000
Total MW	870	1340	1840	2340	3090	3890	4790	5790	6790	7790	8790

From 2022 onwards the program should be continued.

# Tentative time schedule



# Cost of Wind Energy

- Expected tariffs USD/ kWh
  - Suez Area
    - 0.105-0.115--??
  - Nile Area (500kV Grid existing)
    - 0.13-0.145--??
  - Transmission costs have to be added
    - Appr.0.015

**The End**  
**Thank you for your attention**