



# Investment Opportunities in Renewable Energy in Egypt

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# Renewable Energy Status

# Renewable Energy in Numbers

**+30**

**Years of  
Experience**

**+ 1200 MW**

**Installed  
Capacity**

**+ US\$ 2.0  
billion**

**Total investment  
till 2016**

**+ 1500  
MW**

**In the development  
Phase**

**+150 MW  
under construction**

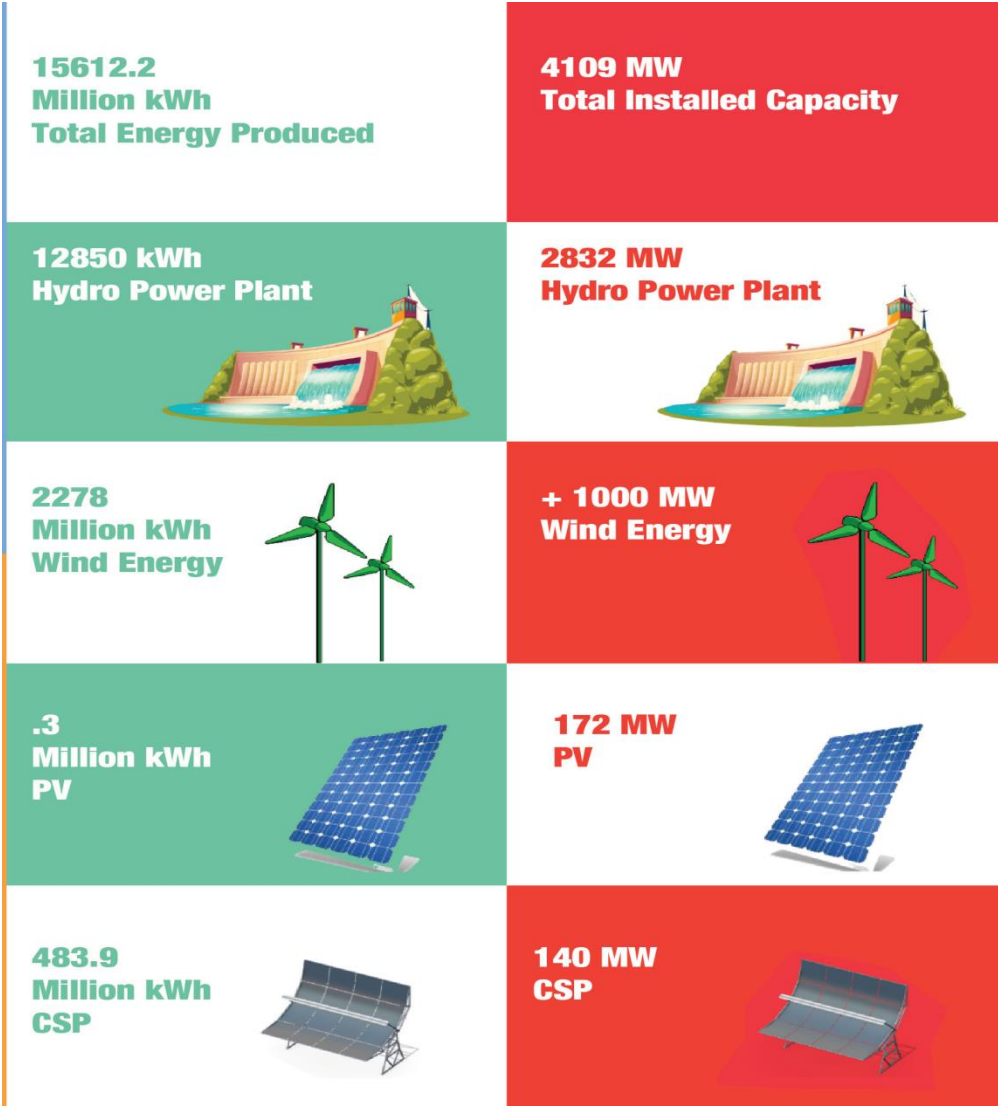
**+ 1800 MW  
Financial Closure**

**≈US\$ 3  
billion**

**Total Invest. In  
2017-2018**



# Renewable Energy in Figure



# Zafarana Wind Farm in Numbers

## مجمع مزارع رياح الزعفرانة



مليون  
دولار

# ٨١

إجمالي  
الاستثمارات

ميغاوات

# ٥٤٥

إجمالي القدرات  
المركبة

# ٨

مشروعات  
تم تنفيذها على عدة  
مراحل اعتبار من ٢٠١١



# Gulf of El Zayt Wind Farm in Numbers



## مجمع مزارع رياح جبل الزيت



# Benban Solar Complex



## مجمع بنبان الشمسي



٢,٢

مليار دولار  
إجمالي الاستثمارات

١٤٦٥

ميغاوات  
القدرة الإجمالية

٣٢

مشروع





# Renewable Energy Strategies



# Vision, Strategy, and Policies

## Vision

Increase Share of renewable energy in the energy sector.

## Strategy

Satisfy 20% of the generated electricity by renewable energies by 2022.

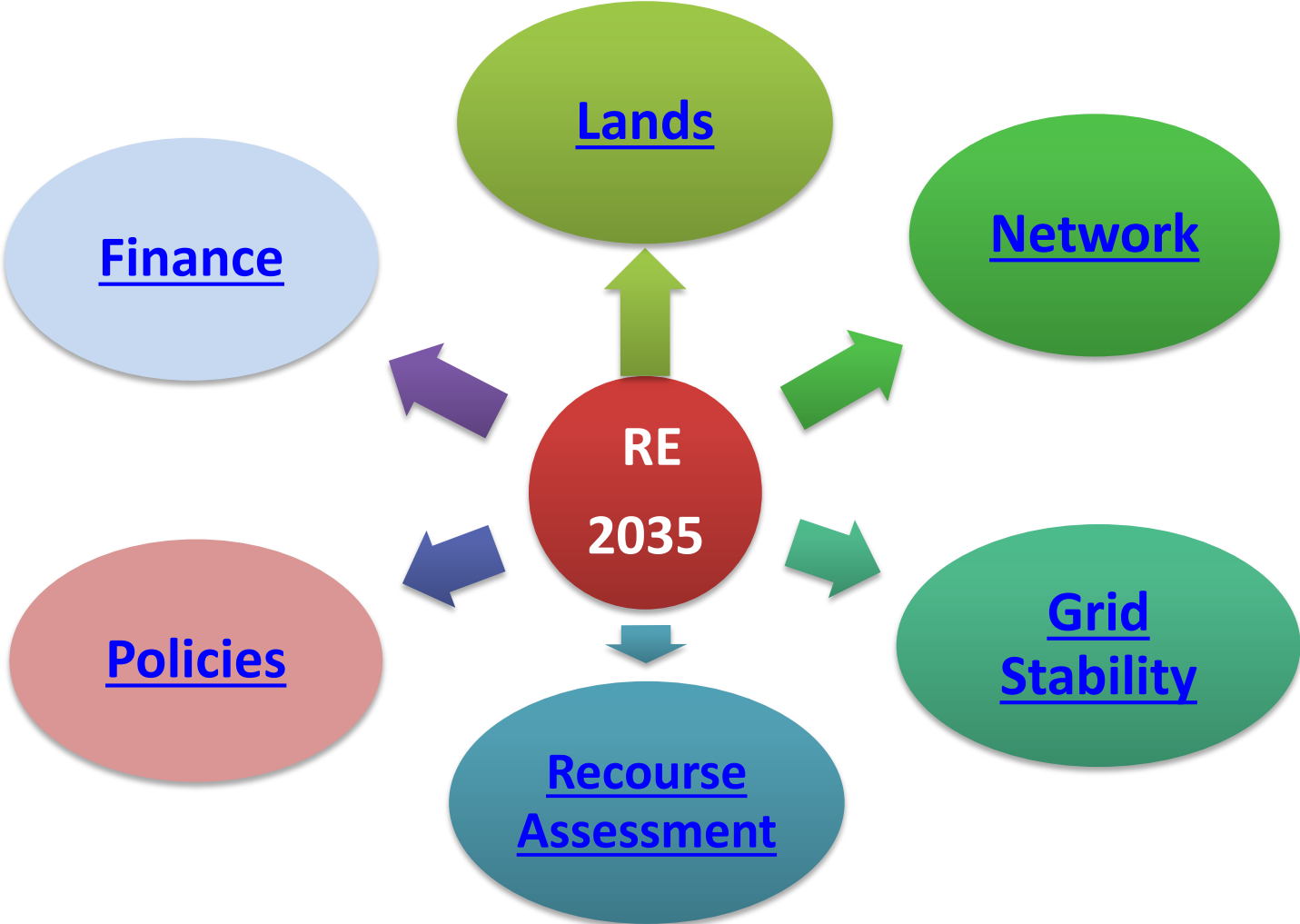
## Policies

- a) Competitive Bidding
- b) Merchant Scheme
- c) Feed-In Tariff, FiT



# Investment Environment in Renewable Energy

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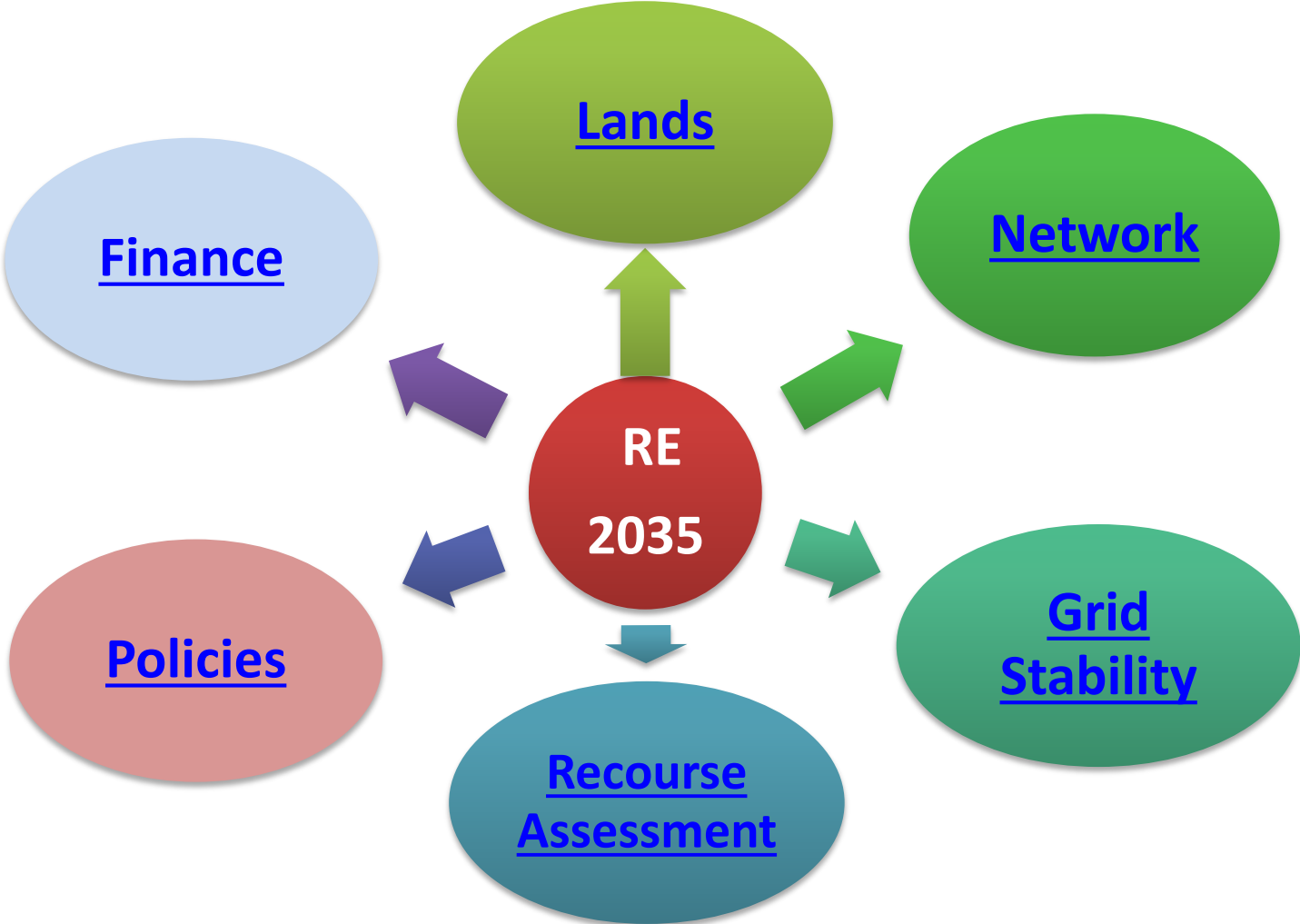
# Availability of Lands

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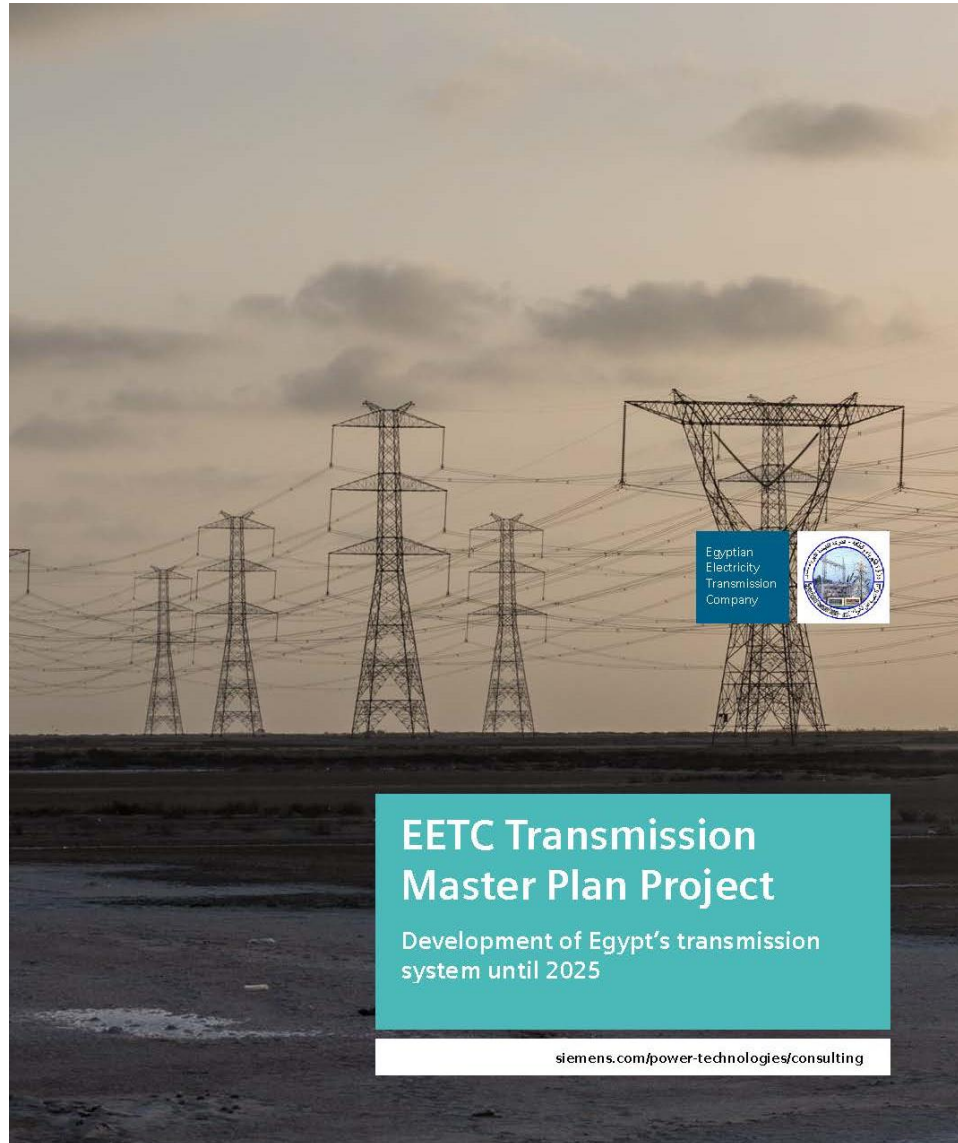
- 1. Demarcation of available Lands to fit with Targets and Technologies.**
  - **1220 Km<sup>2</sup> on Gulf of Suez are demarcated**
  - **37 Km<sup>2</sup> on Benban are demarcated**
  - **7 Km<sup>2</sup> on Kom Ombo are demarcated**
  - **4200 Km<sup>2</sup> on West Nile under development**



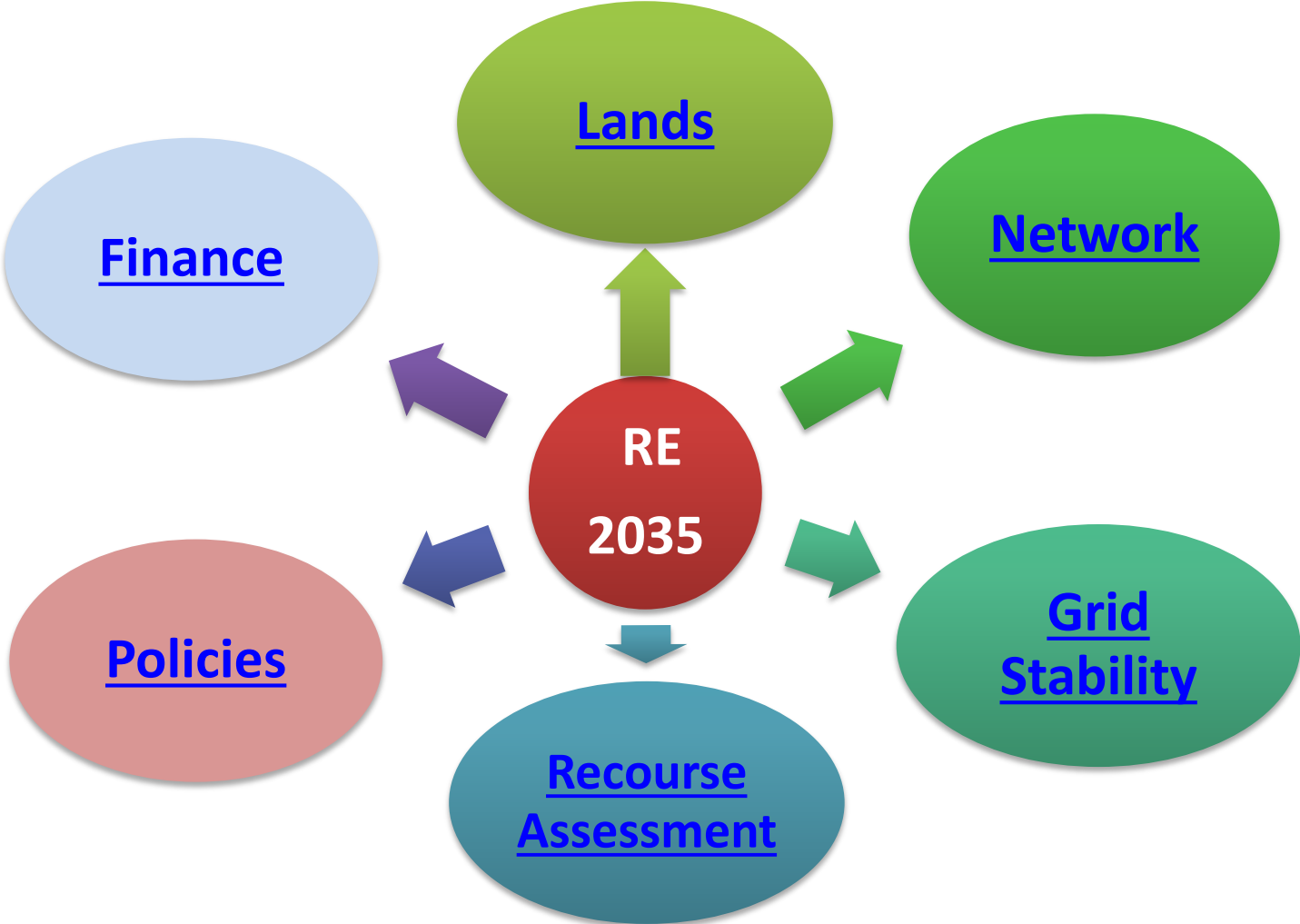
# Investment Environment in Renewable Energy



# Network

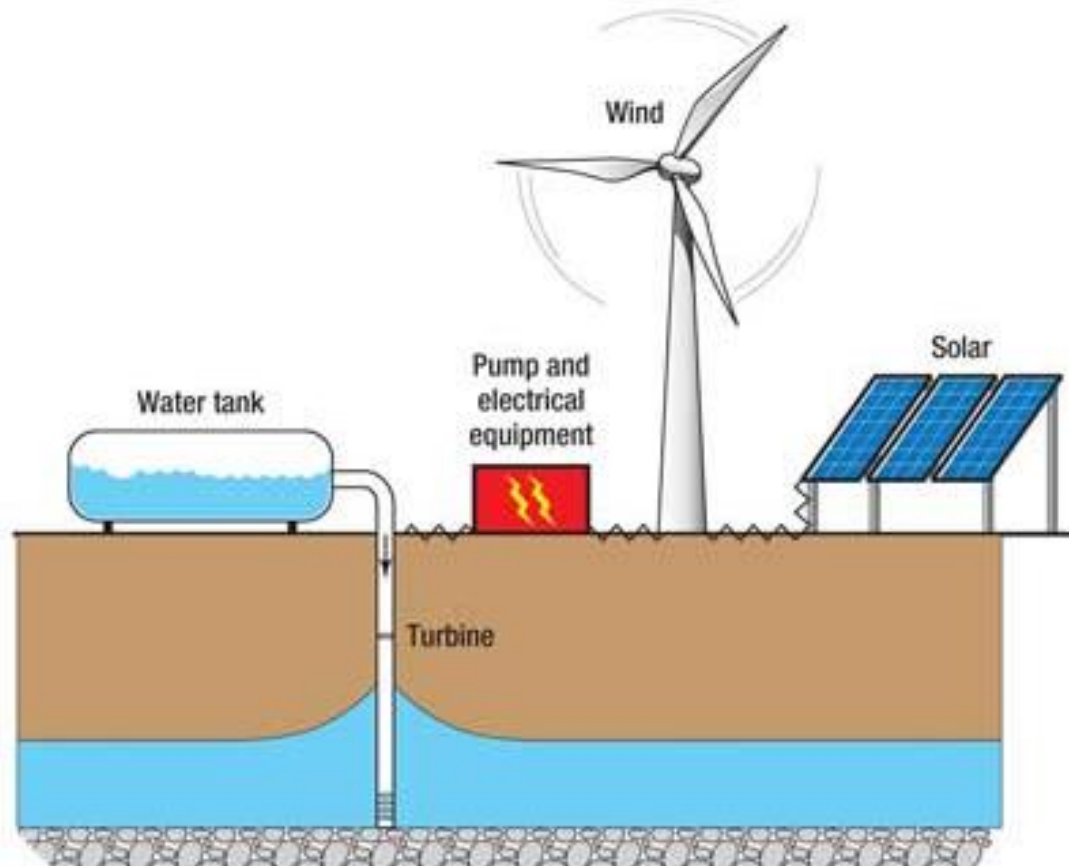


# Investment Environment in Renewable Energy



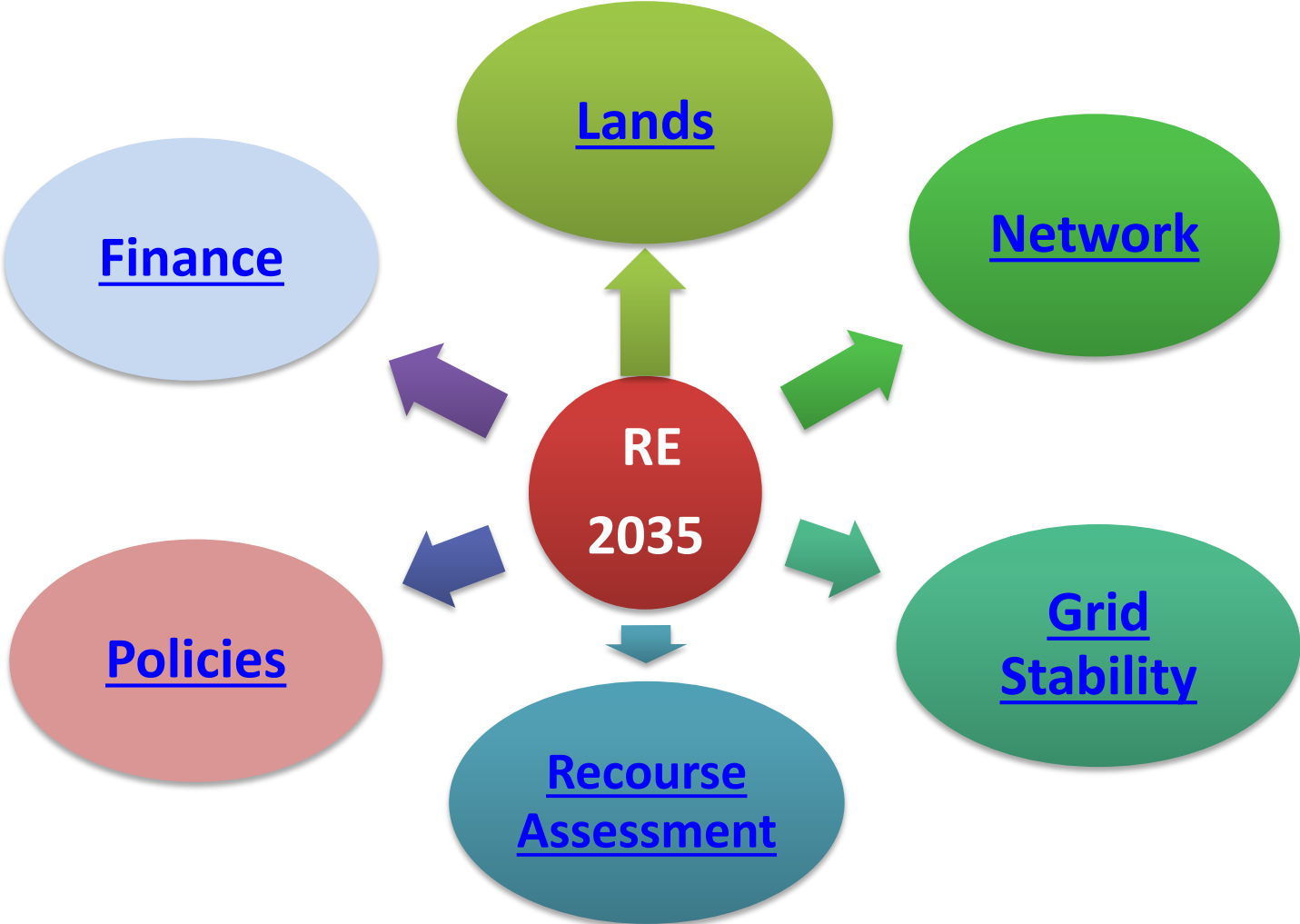
# Grid Stability

## Storage can be a solution for RE Penetration (EX. 2400 MW Pumping and storage Project)

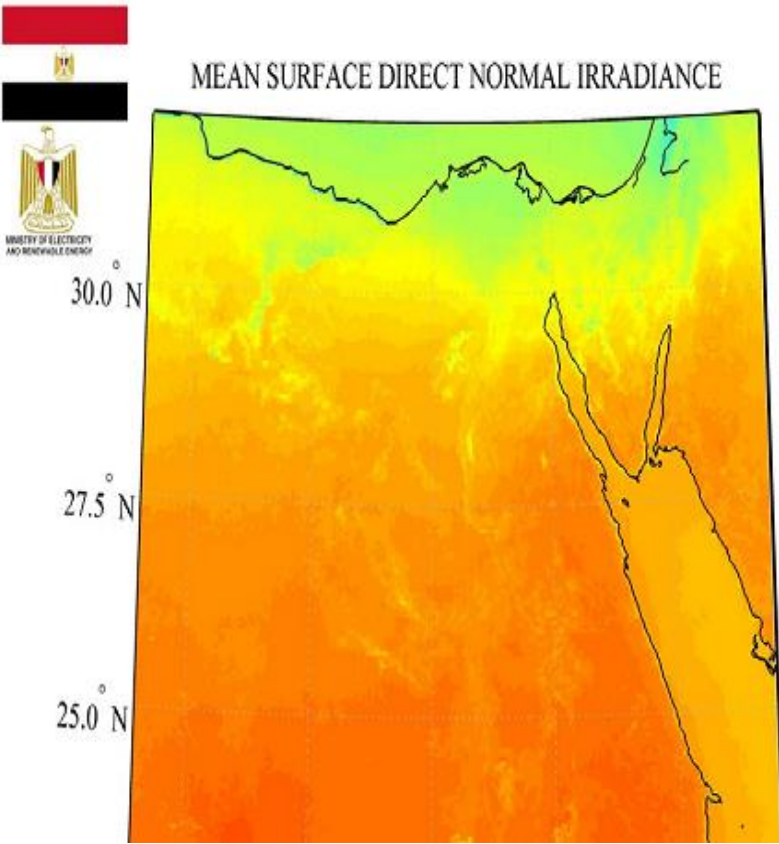




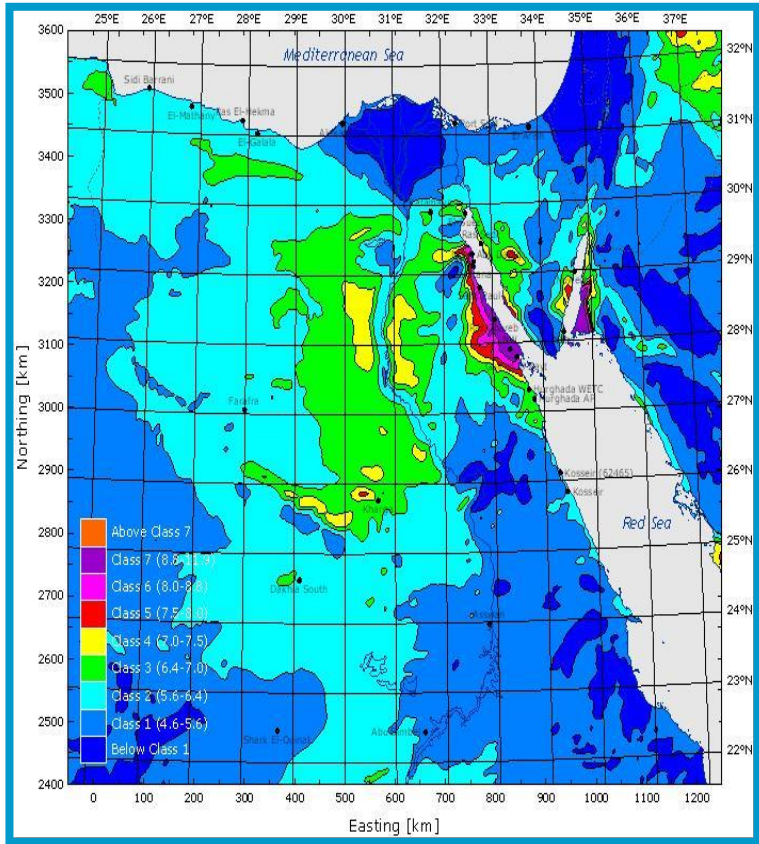
# Investment Environment in Renewable Energy



# Resource Assessment

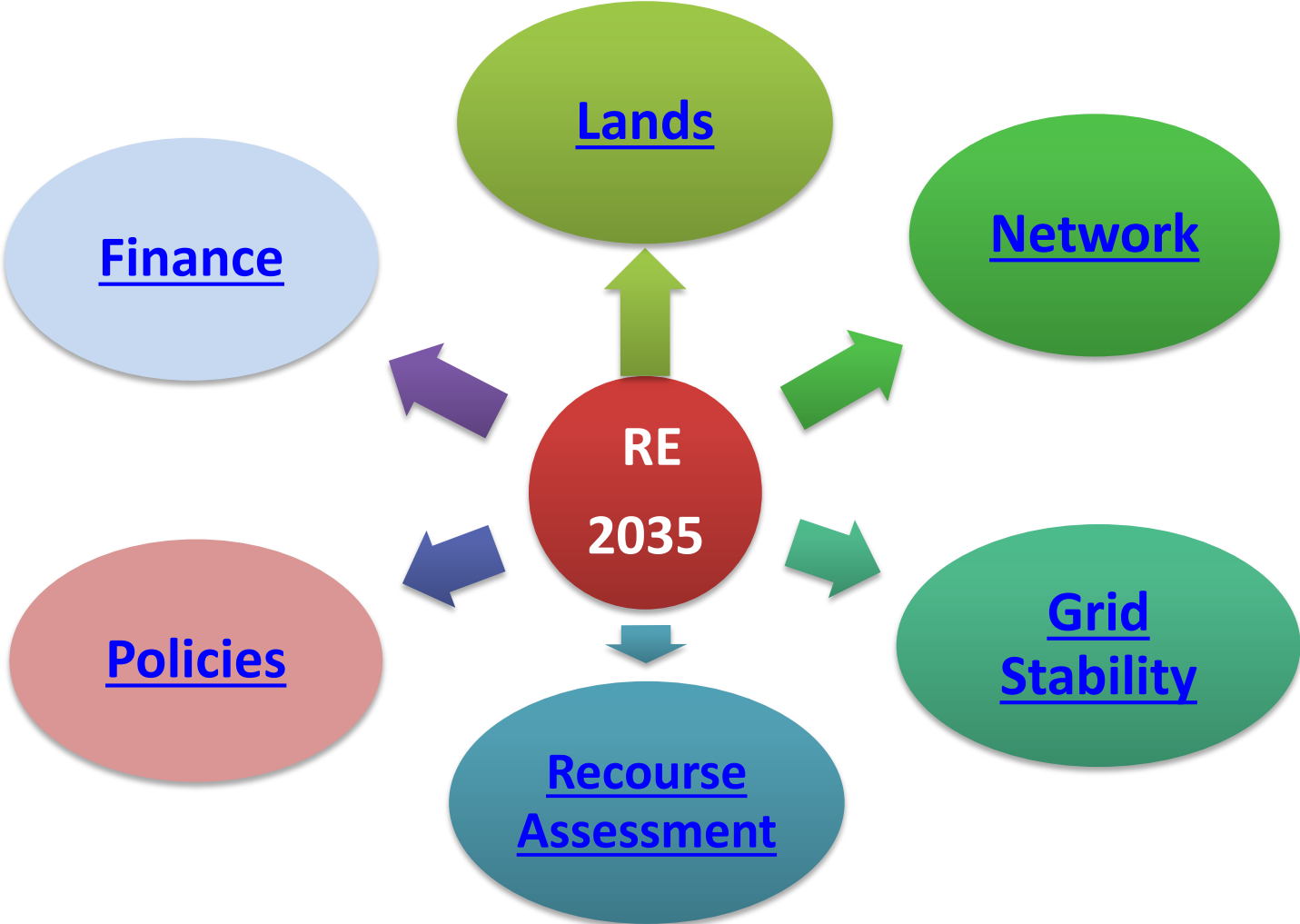


Egypt Solar Atlas - 2018



Egypt wind Atlas – 2005

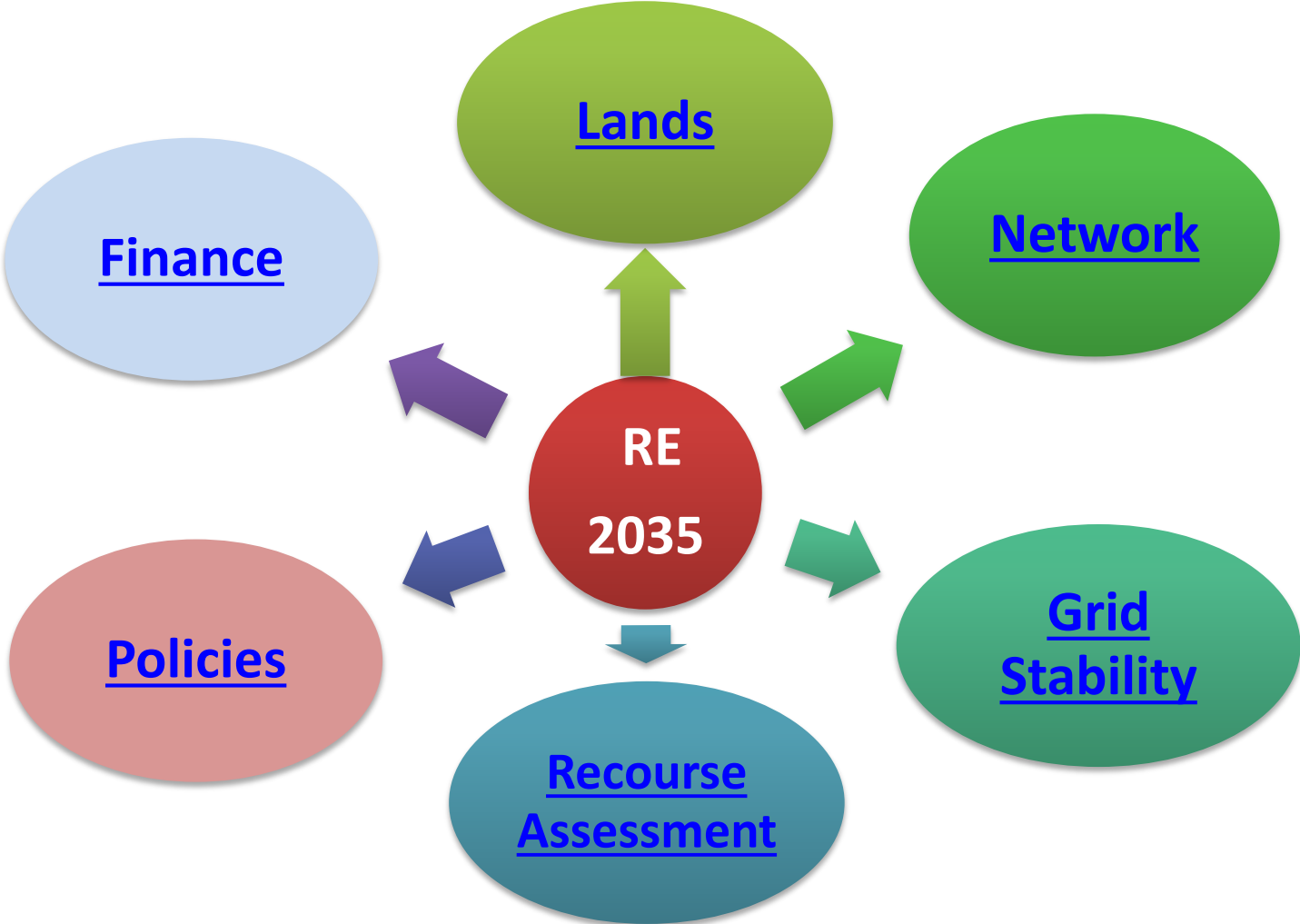
# Investment Environment in Renewable Energy



# Policies



# Investment Environment in Renewable Energy



# Finance

## To achieve The 2035 RE Targets:

Technology	Wind	PV	CSP	Total/y
Capacities / year	1100	2000	600	3700
Needed Finance (Mio. \$) / year	1100	1600	1800	4500





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# Key Messages

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- 1) Large-scale Renewable energy projects are one of the main elements to attract Foreign Direct Investments,**
- 2) There are plenty investment opportunities for renewable energy IPP projects.**
- 3) Renewable energy SMEs will have a recognized role during the coming period.**
- 4) Solar pumping is one of the most promising areas for investment.**





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# Thank You

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