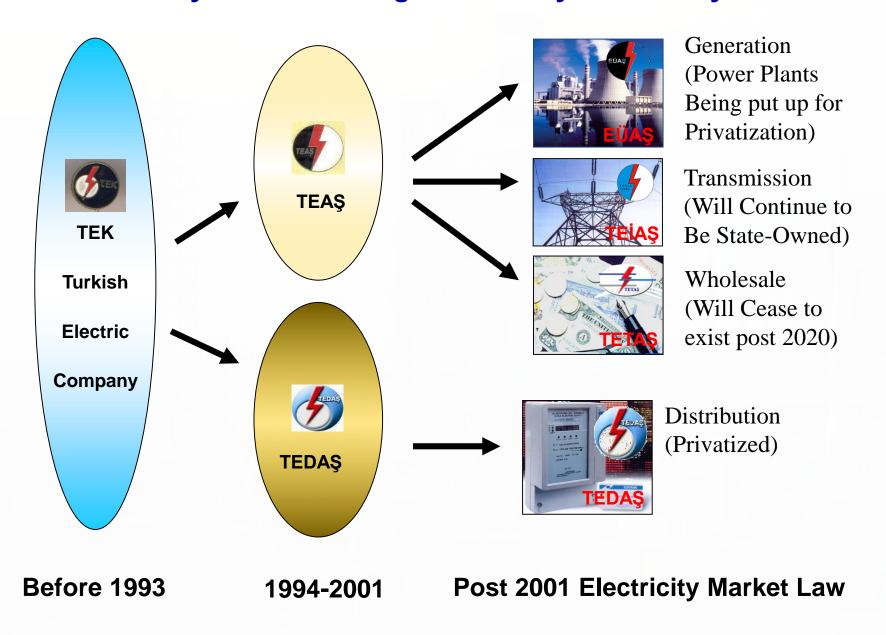


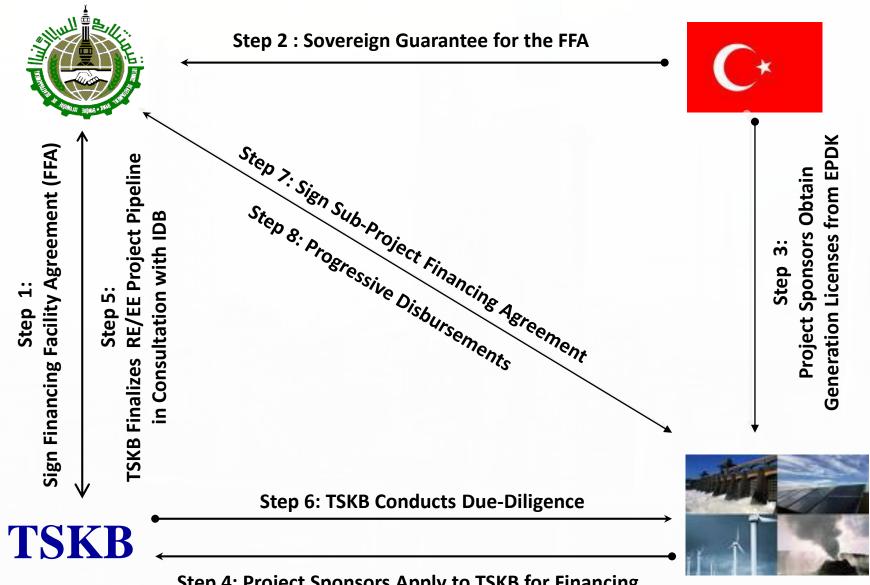
# **Relevance – Key Problem/Challenge**

- > How to improve Energy Supply Security
  - > >76% import dependancy in 2016
  - Significant contribution of energy imports to Current Account Deficit
    - USD 27.1 billion in 2016 (>83%)
    - Total current account deficit: USD 32.6 billion
  - Develop Indigenous Renewable Energy Resources
  - Reduce Energy Intensity
- Emission Targets
  - > 21% by 2030 under UNFCCC

## **Electricity Sector Background: Key State Players**



## **Schematic of IDB Traditional Financing Facility**



**Step 4: Project Sponsors Apply to TSKB for Financing** 



- 22-30 March Appraisal
- 09 May BED Approval as LoF
- 24 June Signing of F/A during IDB Annual Meeting
  25 December LoF F/A declared Effective

# 2011

- No utilization of funds owing to concerns related to double Taxation
- Perceived as un-implementable
- Discussions initiated for a more efficient Results oriented solution

## 2012

- 19 May BED approval to change mode to Results Oriented Restricted Mudaraba Investment Facility
- 04 December Signing of the Restricted Mudaraba Agreement

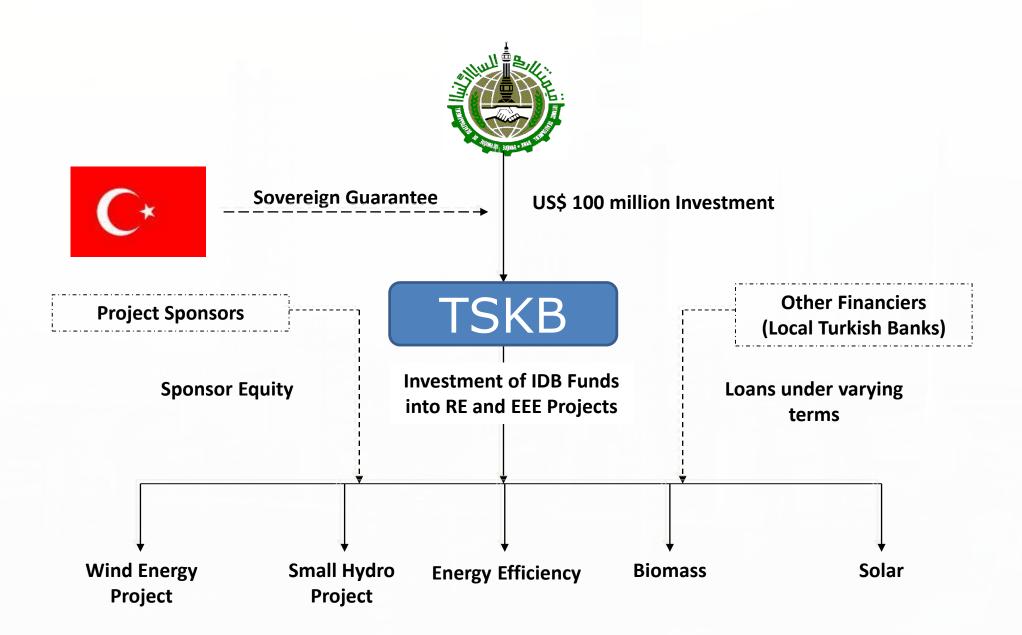
## 2013

- 05 January Declaration of Effectiveness of the Restricted Mudaraba F/A
- 19 February Disbursement of the USD 100 million

# 2016

- June Last project completed
- October Completion of PCR

## **Schematic of TSKB Restricted Mudaraba Investment Facility**



# Sub-Project Eligibility Requirements (RE & EE)

- > Sound based on the economic, technical and financial evaluation
- ➤ Located within Turkey
- Comply with IDB and TSKB rules on sector eligibility, restrictions and/or exclusions
- ➤ Individually identifiable in terms of location, design and benefits
- ➤ Generate environmental benefits such as CO<sub>2</sub> reduction
- ➤ Involve new construction, expansion, rehabilitation or modernization activities
- ➤ Implementable within a period of 3 years

# **Energy Efficiency Sub-Project Eligibility Requirements**

- Modernization, reconstruction and refurbishment of existing plants and facilities which lead to:
  - Energy savings of at least 20%; and/or
  - ➤ Reduction of CO<sub>2</sub>-emissions by at least 20%; and/or
  - ➤ At least 50% of the incremental benefits from the project comes from cost savings in energy consumption.

## **Geographical Distribution**

#### Renewable Energy and Energy Efficiency projects under the Program



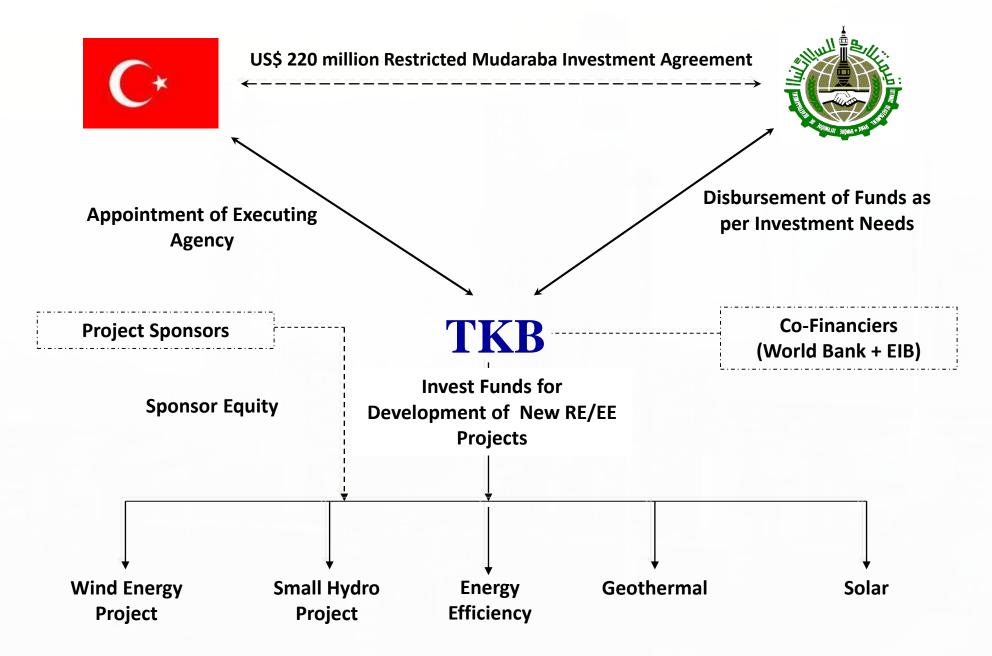
# **Project Development Objectives Achieved**

- Renewable Energy
  - 353.4 MW of new RE Generation added (original target: 150 MW)
    - 49.8 MW Akdenizli HEPP
    - 122.2 MW Goktas-I HEPP
    - 153.4 MW Goktas-II HEPP
    - 27.5 MW Sincik WPP
    - 500 kW Pilot Solar PV project in Turkey
- Energy Efficiency Enhancement (EEE)
  - Six EEE projects Completed in Cement & Steel sectors
    - 20 MW New Heat Recovery Generation
    - Plant Energy Efficiency Improved
- 1 million tons CO<sub>2</sub> equivalent emissions avoided aannually (Original target: 300,000 tons CO<sub>2</sub> equivalent emissions reductions)

### **Success Factors**

- Flexibility
  - Results Oriented Approach (ROA)
    - Focus on Achievement of Project Development Objectives
- Experienced Counterpart
  - TSKB has extensive experience in RE and EEE
- Enabling Environment

## **Schematic of TKB Restricted Mudaraba Investment Facility**



# Thank You