



TÜRKİYE RÜZGAR ENERJİSİ BİRLİĞİ
TURKISH WIND ENERGY ASSOCIATION



4th IRAN Wind Energy Conference

Tehran, 19.07.2016

TURKISH WIND ENERGY ASSOCIATION (TWEA)

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About Turkish Wind Energy Association (TWEA)

Turkish Wind Energy Association was established in 1992 with the decision of the Council of Ministers by the Republic of Turkey, Ministry of Energy and Natural Resources, it is the strongest non-governmental organization in relation to Wind Energy in Turkey. The aim is to add Turkey's Wind Energy potential to its economy. TWEA is also the official member of both the Global Wind Energy Council (GWEC) and the Wind Europe.

TUREB works for gaining extensive use of Wind Energy Potential in Turkey to the country's economy, coordinated with General Directorate of Renewable Energy (YEGM), Turkish Electricity Transmission Company (TEİAŞ), General Directorate of Energy Affairs (EİGM), Energy Market Regulatory Authority (EMRA) and Ministry of Energy.

T.C.
ENERJİ VE
TABİİ KAYNAKLAR
BAKANLIĞI



EPDK
ENERJİ PİYASASI
DÜZENLEME KURUMU



REPUBLIC OF TURKEY
PRIME MINISTRY
INVESTMENT
SUPPORT AND PROMOTION
AGENCY

Wind[®]
EUROPE

GWEC
GLOBAL WIND ENERGY COUNCIL



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About Turkish Wind Energy Association (TWEA)

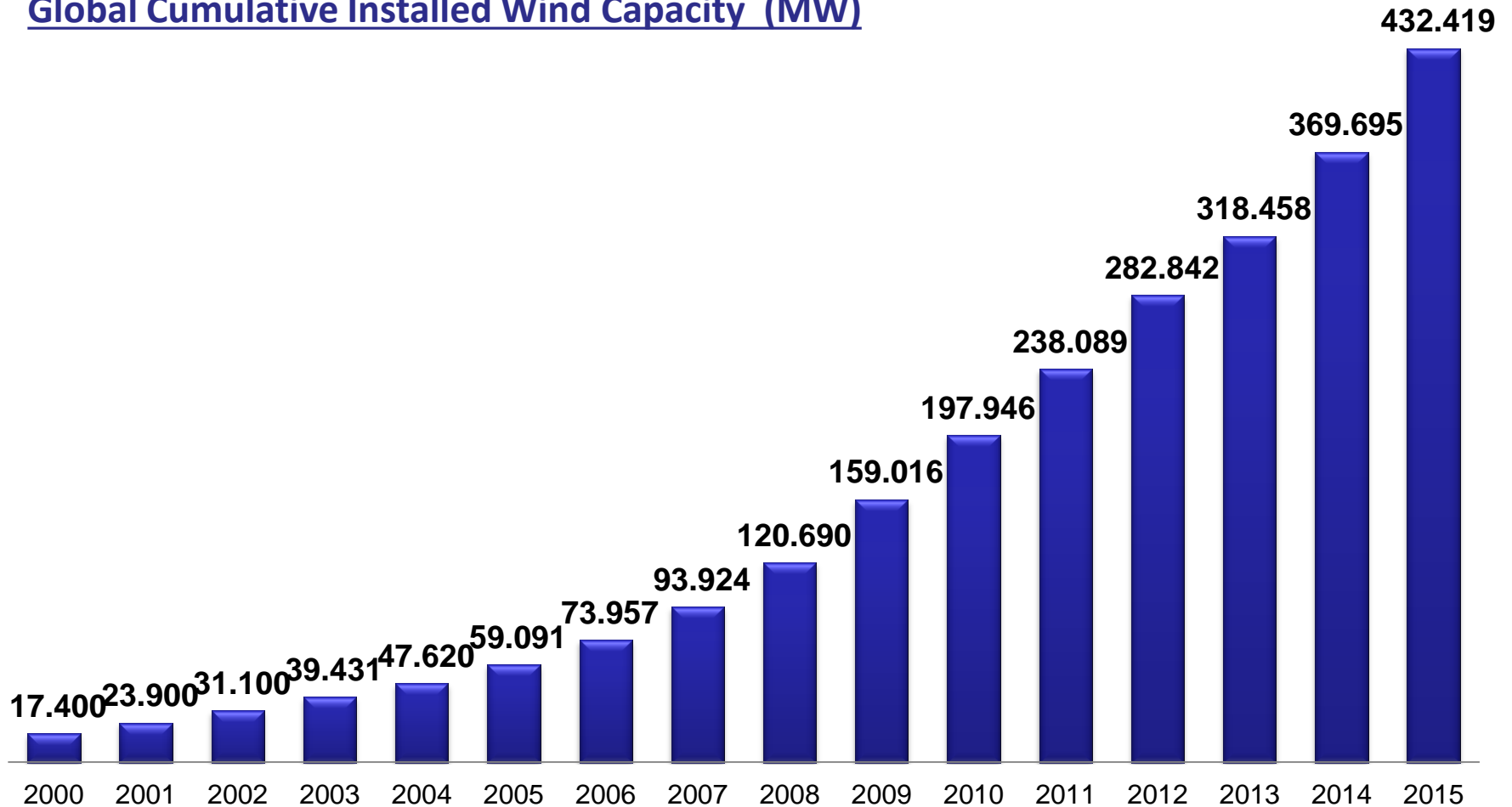




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Global Cumulative Installed Wind Capacity (MW)



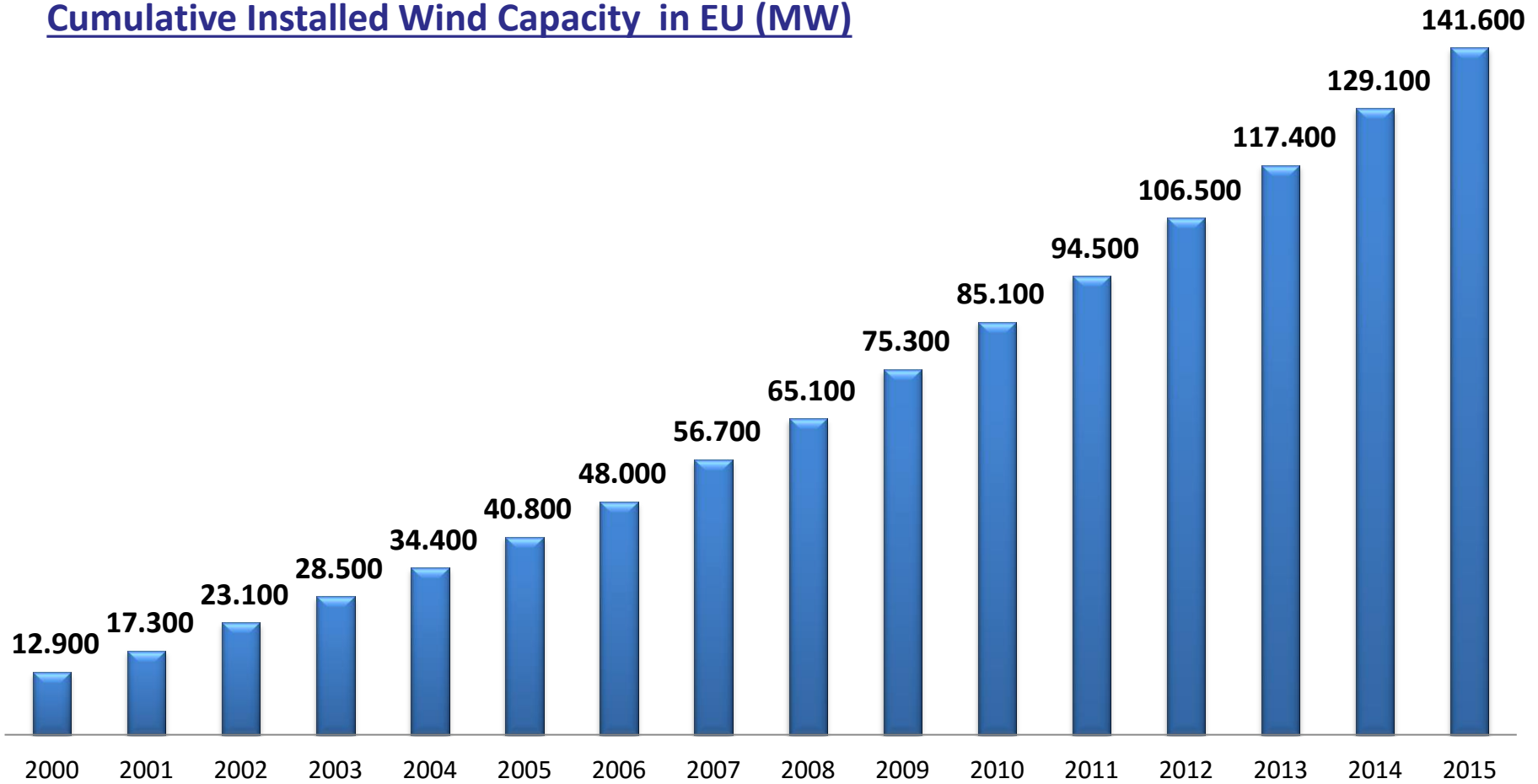
Source: GWEC



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Cumulative Installed Wind Capacity in EU (MW)



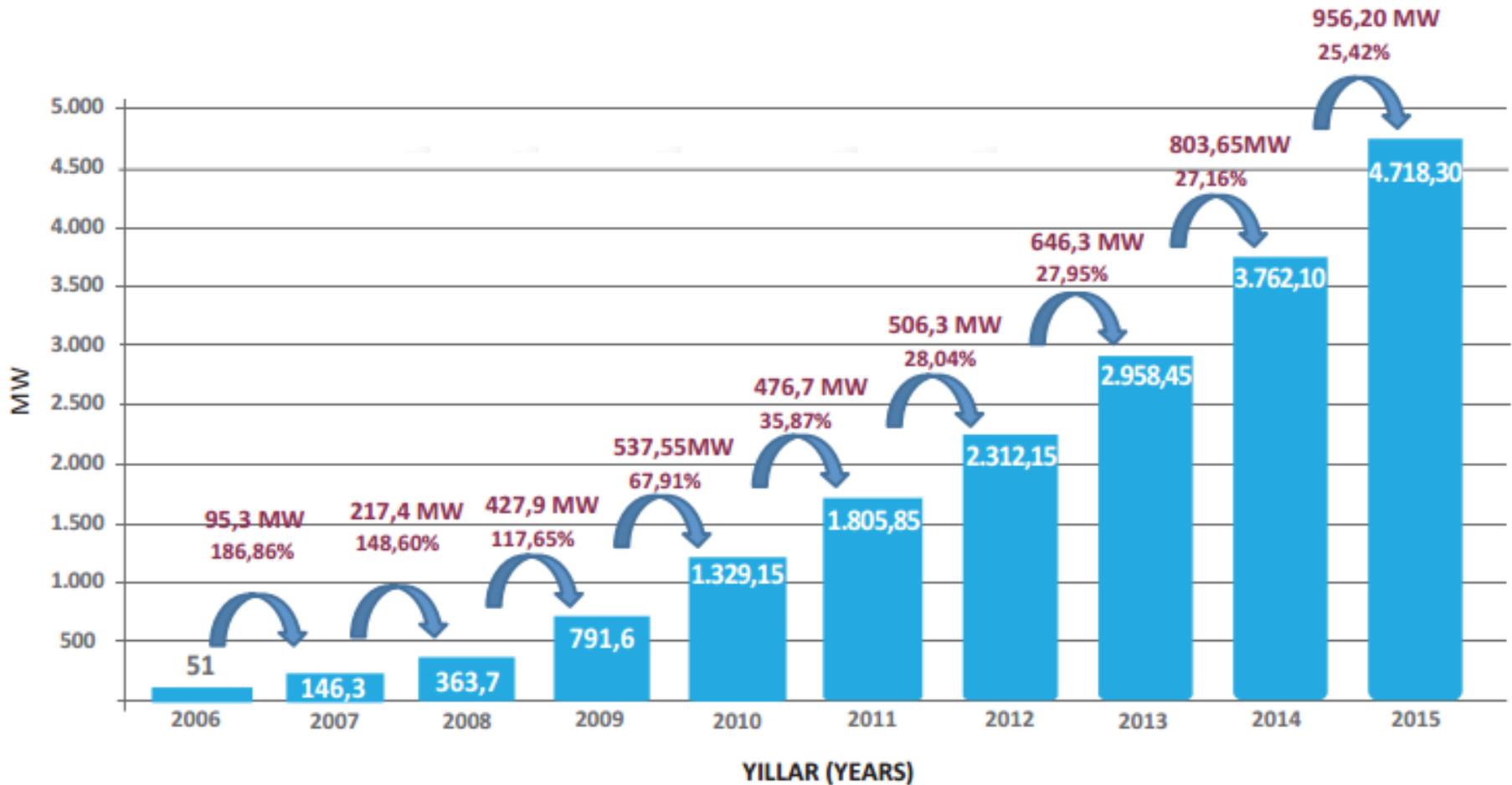
Source: Wind Europe



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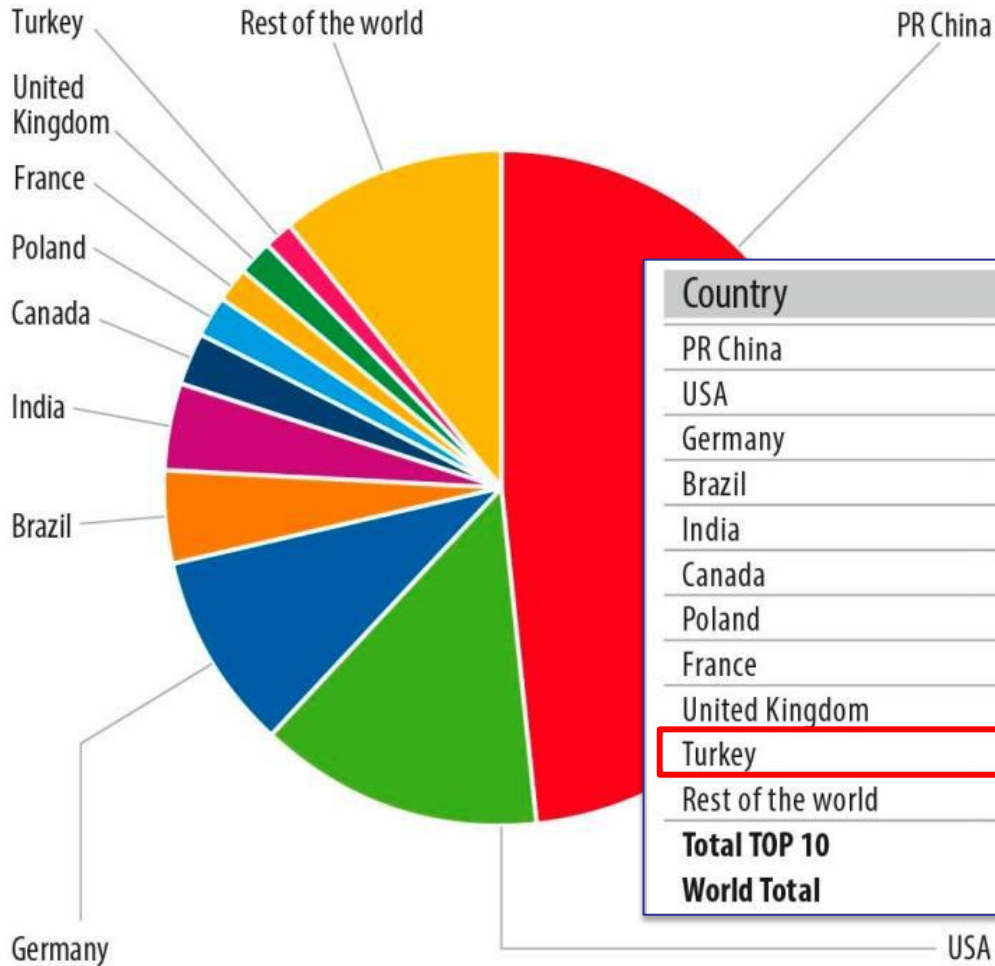


Annual and Cumulative Installed Wind Capacity in TURKEY





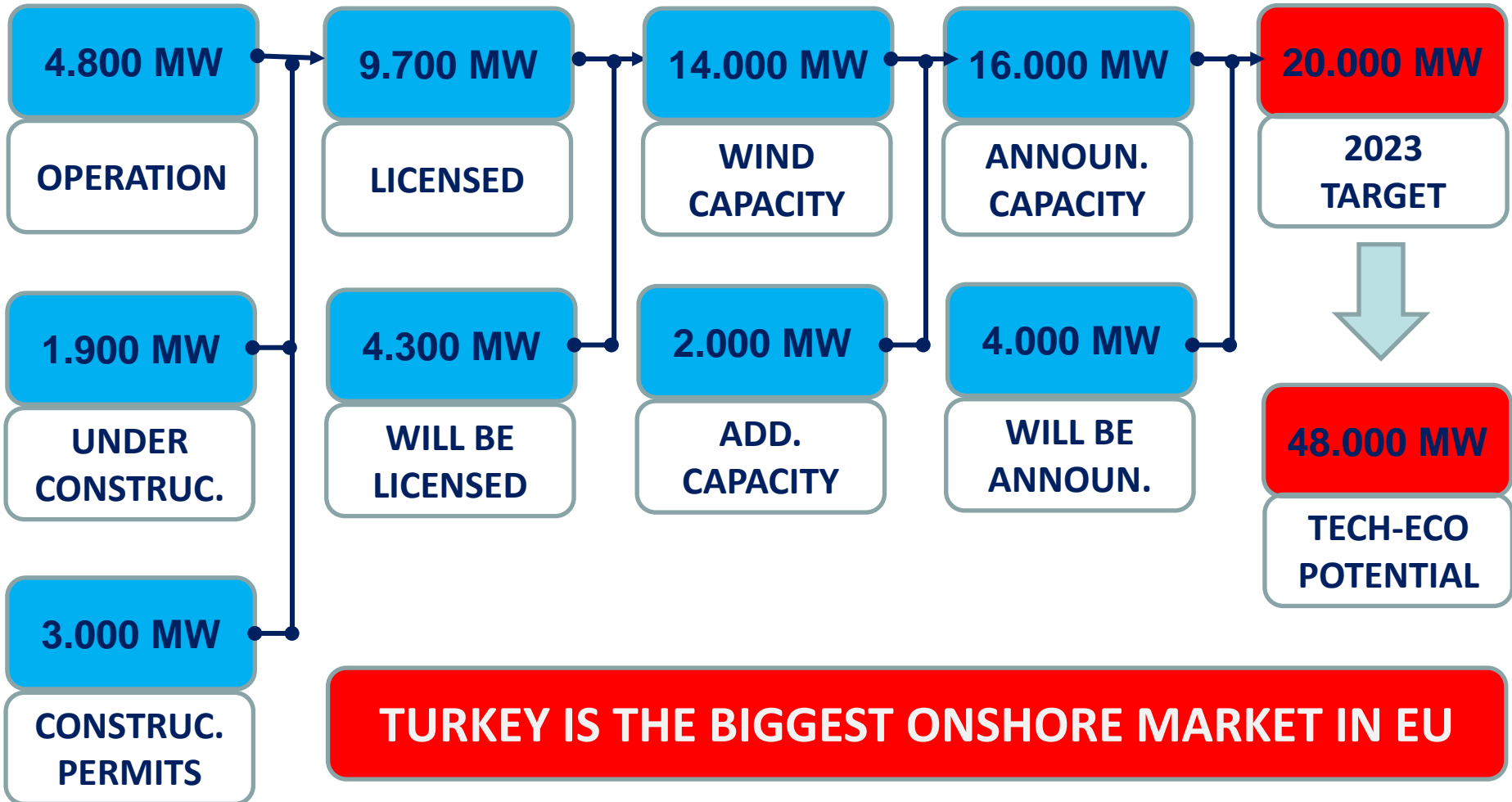
TOP 10 NEW INSTALLED CAPACITY JAN-DEC 2015



Country	MW	% Share
PR China	30,753	48.5
USA	8,598	13.5
Germany	6,013	9.5
Brazil	2,754	4.3
India	2,623	4.1
Canada	1,506	2.4
Poland	1,266	2.0
France	1,073	1.7
United Kingdom	975	1.5
Turkey	956	1.5
Rest of the world	6,950	11.0
Total TOP 10	56,517	89
World Total	63,467	100



Wind Sector with numbers in TURKEY



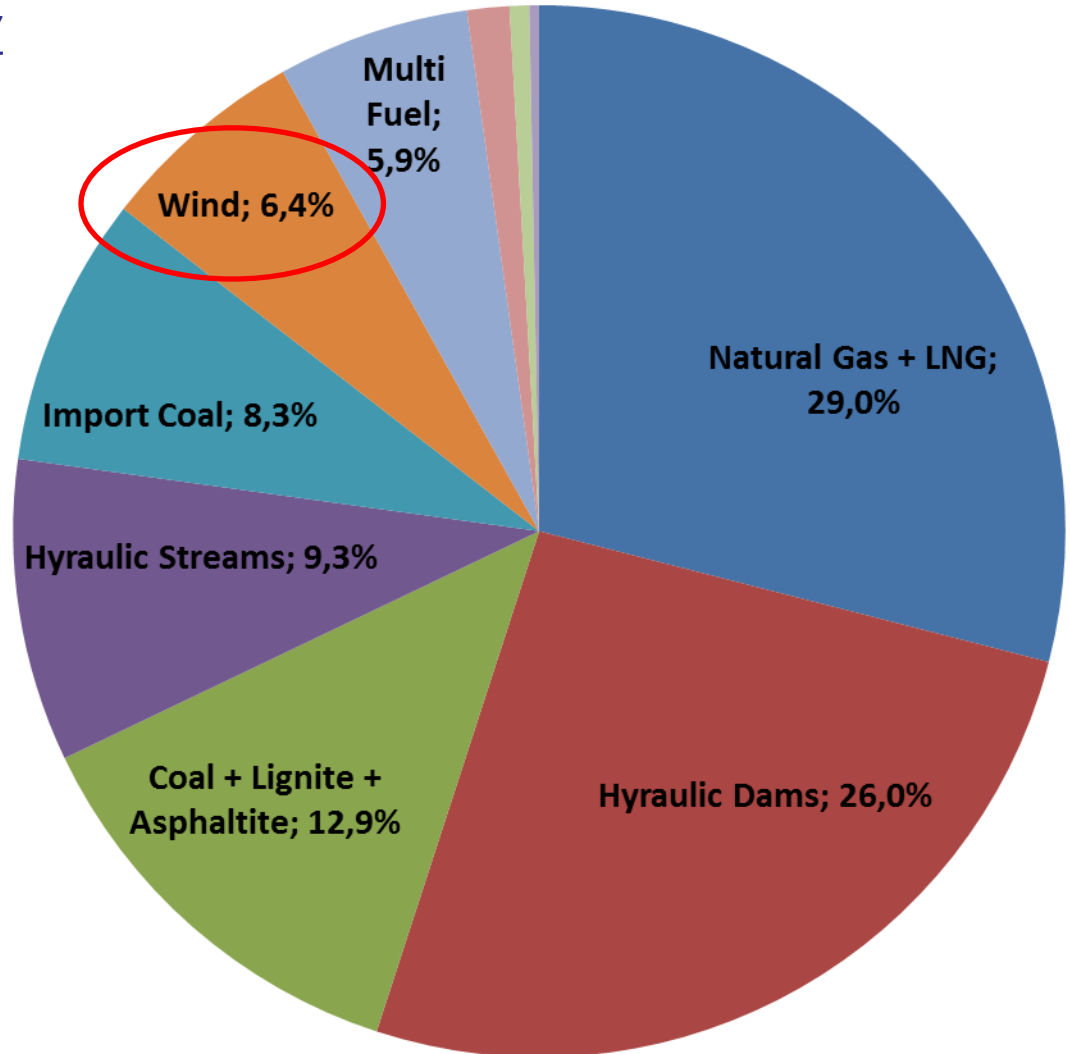
TURKEY IS THE BIGGEST ONSHORE MARKET IN EU



Electricity Energy Mix in TURKEY

73.147 MW
TOTAL INSTALLED CAPACITY

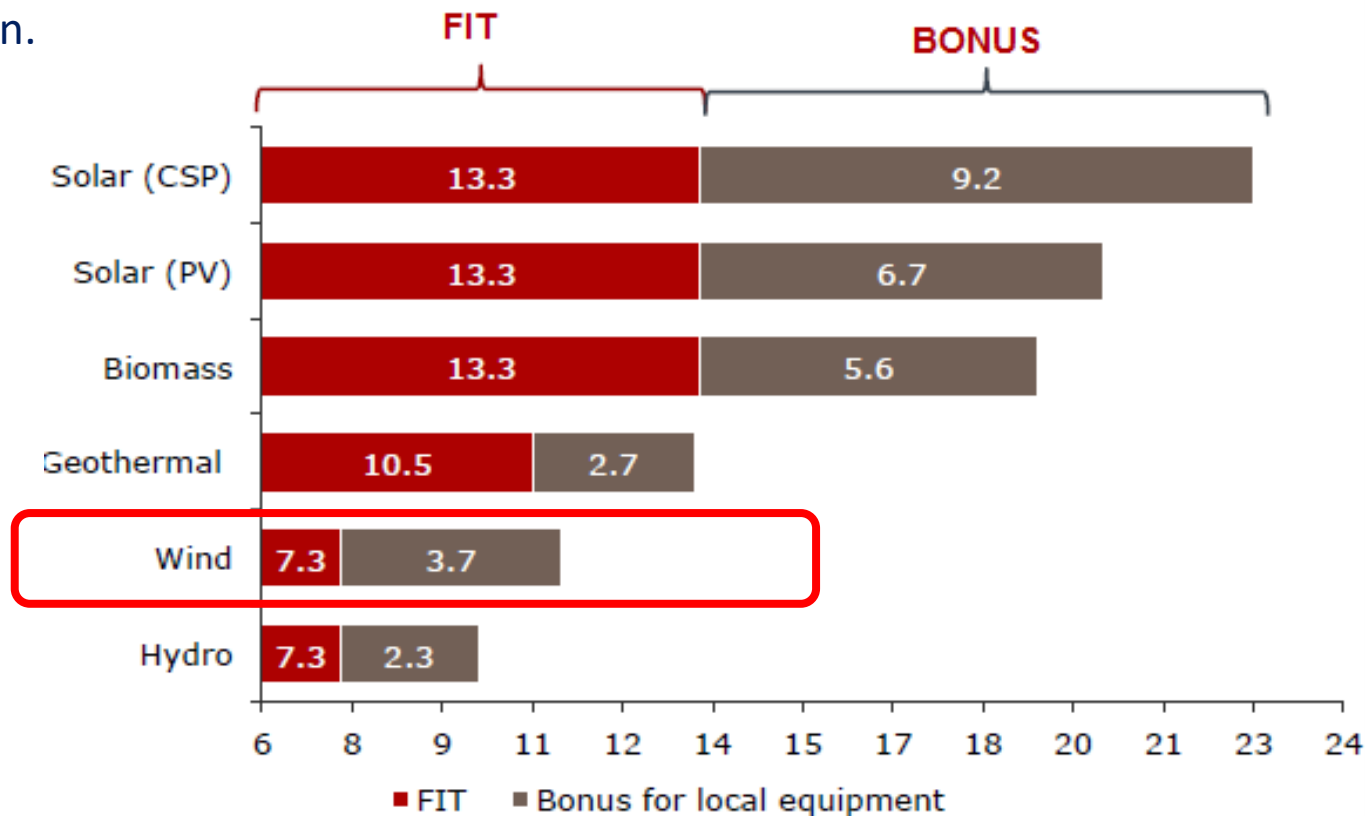
4.718 MW
WIND INSTALLED CAPACITY





Feed-in Tariff and Local Equipment Bonus in Renewables

In Turkey, renewable electricity production is mainly promoted through a guaranteed feed-in tariff mechanism. The Renewable Energy Support Mechanism's feed-in tariff for renewable energy sources is between **7,3 – 13,3 USD cents/kWh** for 10 years of operation.





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Feed-in Tariff and Local Equipment Bonus for Wind Energy

Feed-in tariff

- **7,3** USD cent/kWh

Local Content

Blade

- **0,8** USD cent/kWh

Generator and power electronics

- **1,0** USD cent/kWh

Turbine tower

- **0,6** USD cent/kWh

All of the mechanical equipment in rotor and nacelle groups (excluding payments made for the wing group and the generator and power electronics)

- **1,3** USD cent/kWh

TOTAL

11 USD cent/kWh



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Incentives for Renewable Energy

- ✓ 85 % Discount in the Treasury Land Lease Fees for 10 Years After Commissioning.
- ✓ 99 % Discount for Licensing Fee and Annual License Fee for first 8 years operation
- ✓ Priority in the Grid System Connection
- ✓ VAT Exemption for Domestic Equipment for Investment Support Certificate Holders
- ✓ VAT, Custom Taxes, Resource Support Utilization Fund Payment Exemptions in imports for Investment Support Certificate Holders



Wind Power Plant Procedure in Turkey

➤ Project Site Research	3 Months	}	1. Year
➤ Land Knowledge Acquisition	3 Months		
➤ Permission of Measurement Station	3 Months		
➤ Const. and Approval of Measurement Station	3 Months	}	2. Year
➤ Wind Measurements	12 Months		
➤ Wind Measurements Reports	3 Months	}	3. Year
➤ Preparations and License Application to EMRA	3 Months		
➤ Research and Evaluation Process	12-18 Months	}	4-5. Year
➤ Tender Process for Grid Capacity	3 Months		
➤ Term of the Pre-license	3 Months	}	5-6. Year
➤ Construction Permission and other Requirements	18-24 Months		
➤ Term of the License	3 Months	}	7-8. Year
➤ Construction Period	12-18 Months		
➤ Commission Process	3 Months	}	8-9. Year



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Cooperation Opportunities between Iran and Turkey

- ✓ Wind Power Plant Investments.
- ✓ Wind Industry Cooperation.
- ✓ Access to EU Grid via Turkey.
- ✓ Construction of the Energy Projects.
- ✓ We will be very happy to develop long term cooperation with our neighbour brothers



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WORLD ENERGY COUNCIL

ISTANBUL 2016



23rd

WORLD ENERGY
CONGRESS

Embracing New Frontiers

09-13 OCTOBER 2016 / ISTANBUL



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V. TÜRKİYE RÜZGAR ENERJİSİ KONGRESİ
. TURKISH WIND ENERGY CONGRESS



2-3 KASIM 2016
NOVEMBER

JW Marriott, ANKARA

Destekleyenler / Supporters

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PRIME MINISTRY
INVESTMENT
SUPPORT AND PROMOTION
AGENCY

Wind
EUROPE

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Thank you ...



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