



UNFCCC COP 19

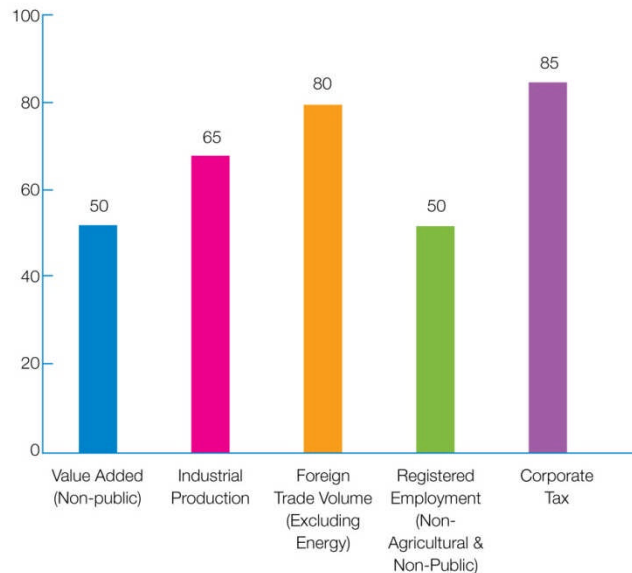
**The case of Turkish Industry on
transition to low carbon economy:
Opportunities and Challenges**

TUSIAD

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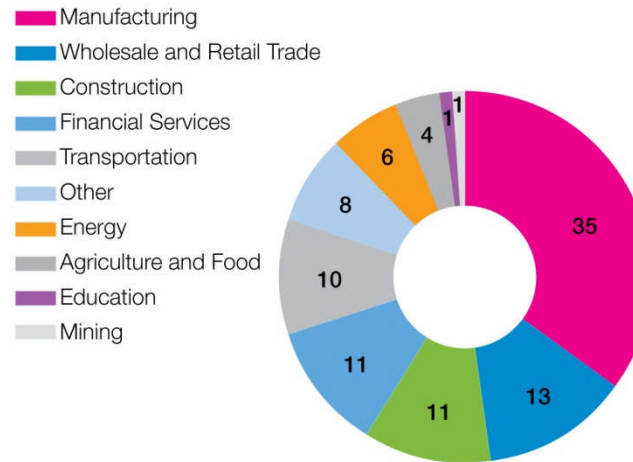
Turkish Industry and Business Association

TÜSİAD's Contributions to the Turkish Economy (%) (*)



(*) TÜSİAD Secretariat General's Estimates

TÜSİAD's Sectoral Activity Profile (%)



- A countable partner in policy making
- Member of the coordination board on climate change



Climate Platform

- **A common initiative by TUSIAD and REC Turkey**
- **Members: 20 major companies from various sectors; such as energy, finance, home appliances, automotive and consumer goods**

Some of its recent activities;

- **Trainings on GHG emission calculation and information management systems for the major installations of leading companies in Turkey**
- **Seminars, e.g. 'Climate Meeting: Future of Carbon Markets'**
- **Various reports, e.g. 'ICT for Sustainable Development'**

Turkish national policy on climate change

- **National Climate Change Strategy 2010 – 2020**

- **Turkey's National Vision:** " ...A country fully integrating climate change-related objectives into its development policies, disseminating energy efficiency, increasing the use of clean and renewable energy resources, actively participating in the efforts for tackling climate change within its special circumstances "

- **Goals:**

- ✓ 30 % share for renewables in total electricity generation mix by 2023
- ✓ 7 % GHG emission cut in energy generation compared to Reference Scenario by 2020
- ✓ Through energy efficiency practices the determined energy saving potential shall be realized at maximum levels in the industry.

...

- **Energy Efficiency Strategy 2011-2023**

- ✓ Decrease energy consumed per unit GDP (energy intensity) by a minimum of 20% by 2023

Policy Instruments

Regulatory Mechanisms and Financial Incentives

- **Renewable Energy Law**
- **Energy Efficiency Law**
 - **Regulation for the Promotion of Efficient Use of Energy and Energy Sources**
- **Regulation on the Program to Support Research and Development Projects in the Energy Sector**
- **Regulation on energy labeling and eco-design**
- **Regulation on energy performance of buildings**

Support Projects and Mechanisms

- Market Transformation of Energy Efficient Appliances in Turkey
- Improving Energy Efficiency in Industry
- Promoting Energy Efficiency in Buildings in Turkey

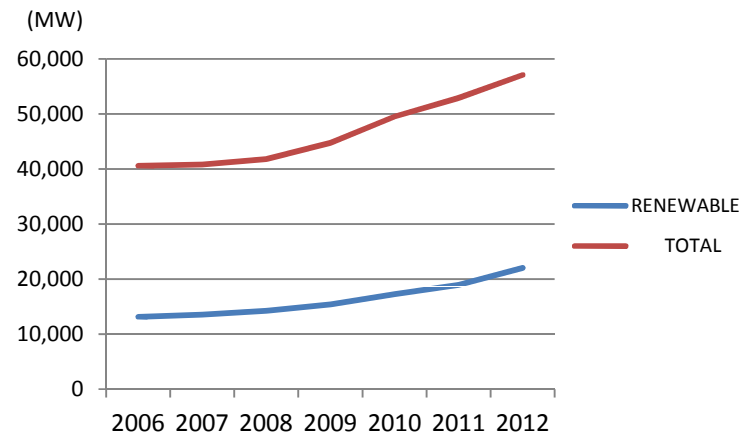
- Turkey Sustainable Energy Financing Facility



Reflections on the Industry - Progress in Renewable Energy Capacity

Turkey enacted renewable energy law in 2005

Installed Power Generation Capacity		
Years	Renewable (MW)	Total (MW)
2006	13,144.60	40,564.80
2007	13,564.10	40,835.70
2008	14,222.15	41,817.20
2009	15,422.10	44,761.17
2010	17,245.60	49,524.10
2011	18,980.00	52,911.10
2012	22,032.20	57,059.41



Source: TEIAS (Turkish Electricity Transmission Company)

Goal for 2023: Increasing the share of renewables above 30 % in total electricity production

Aimed Installed Capacity for 2023	
Energy Source	Aimed Installed capacity (MW)
Hydro	36,000
Wind	20,000
Geothermal	600
Solar	600



Reflections on the Industry

Investment for Innovation - Best Practices

AKÇANSA

Waste Heat Power Generation Plant



ARÇELİK

Cactus Dishwasher



OYAK

**Paper Packaging
Biomass Boiler**



İÇDAŞ

**Sustainable Water Management
Project**



ViTRA

**Waste Heat Recovery at
Ceramic Kilns**



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Capacity Building to Control Carbon Emissions

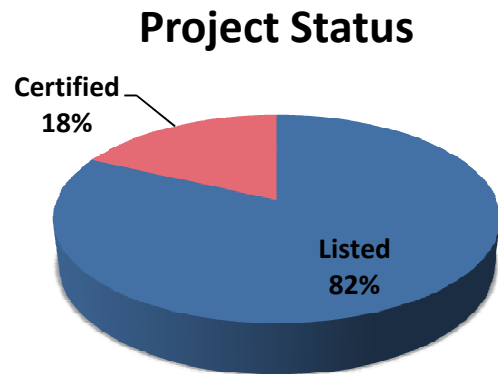
Regulatory Framework

- Regulation on Monitoring of Greenhouse Gas Emissions
- Communique on Monitoring and Reporting of Greenhouse Gas Emissions (draft)
- Communique on Voluntary Carbon Market Project Registration

Challenge

- Ensuring well functioning of MRV structure

Voluntary Carbon Markets



Project Type	Project Number	Annual Emission Reduction (tCO2)
Hydro	124	7.181.723
Wind	64	5.603.468
Biogas	6	514.789
Geothermal	6	405.309
Energy Efficiency	5	151.432
Landfill	13	2.473.093
Total	218	16.329.814

Source: Ministry of Environment and Urbanization, October 2012

Crucial Points for the Effectiveness of Ongoing Efforts

- A global wide strong consensus
- Fair conditions to guarantee level playing field
- Sufficient funding and technology transfer mechanisms

Thank You...

TU SIAD