UNFCCC COP 19

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

<table>
<thead>
<tr>
<th>Years</th>
<th>Renewable (MW)</th>
<th>Total (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>13,144.60</td>
<td>40,564.80</td>
</tr>
<tr>
<td>2007</td>
<td>13,564.10</td>
<td>40,835.70</td>
</tr>
<tr>
<td>2008</td>
<td>14,222.15</td>
<td>41,817.20</td>
</tr>
<tr>
<td>2009</td>
<td>15,422.10</td>
<td>44,761.17</td>
</tr>
<tr>
<td>2010</td>
<td>17,245.60</td>
<td>49,524.10</td>
</tr>
<tr>
<td>2011</td>
<td>18,980.00</td>
<td>52,911.10</td>
</tr>
<tr>
<td>2012</td>
<td>22,032.20</td>
<td>57,059.41</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Aimed Installed capacity (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro</td>
<td>36,000</td>
</tr>
<tr>
<td>Wind</td>
<td>20,000</td>
</tr>
<tr>
<td>Geothermal</td>
<td>600</td>
</tr>
<tr>
<td>Solar</td>
<td>600</td>
</tr>
</tbody>
</table>
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
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 Status
- **Certified**: 18%
- **Listed**: 82%

### Table: Project Types and Emission Reductions

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Number</th>
<th>Annual Emission Reduction (tCO2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro</td>
<td>124</td>
<td>7.181.723</td>
</tr>
<tr>
<td>Wind</td>
<td>64</td>
<td>5.603.468</td>
</tr>
<tr>
<td>Biogas</td>
<td>6</td>
<td>514.789</td>
</tr>
<tr>
<td>Geothermal</td>
<td>6</td>
<td>405.309</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>5</td>
<td>151.432</td>
</tr>
<tr>
<td>Landfill</td>
<td>13</td>
<td>2.473.093</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>218</strong></td>
<td><strong>16.329.814</strong></td>
</tr>
</tbody>
</table>

*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...