



# TÜRKİYE'S ROADMAP IN COMBATING CLIMATE CHANGE





# GLOBAL EMISSION DATA

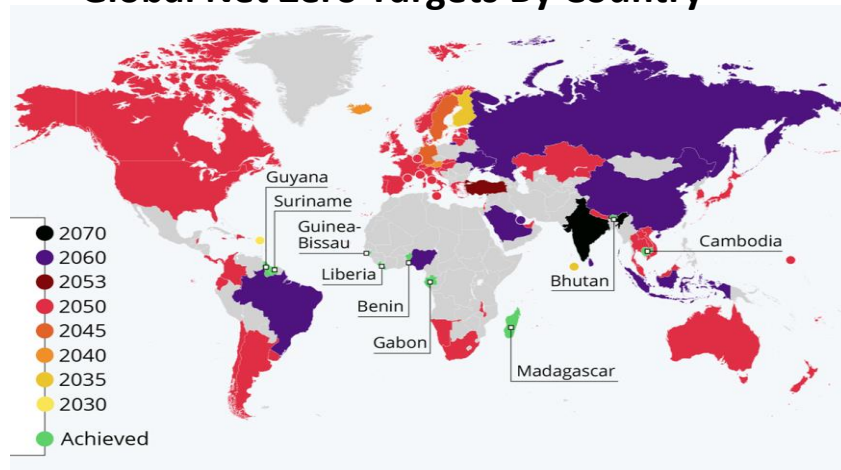
## 1750-2020 EMISSIONS

Country	Emission (%)
USA	% 24,56
EU-27	% 17,1
China	% 13,89
Russia	% 6,9
England	% 4,61
Japon	% 3,9
<b>Türkiye</b>	<b>% 0,64</b>

## 2021 EMISSIONS

Country	Emission (%)
China	%25,1
USA	%10,8
India	%7,1
EU-27	%6,2
Russia	%4,4
Japon	%2
<b>Türkiye</b>	<b>%1,1</b>

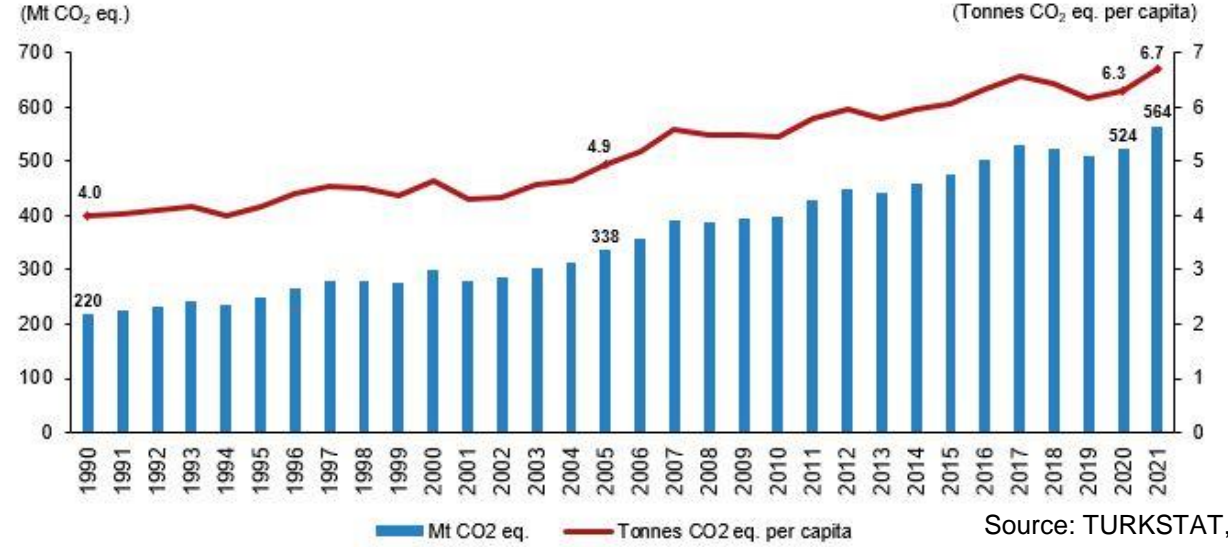
## Global Net Zero Targets By Country



Source: Climate Watch

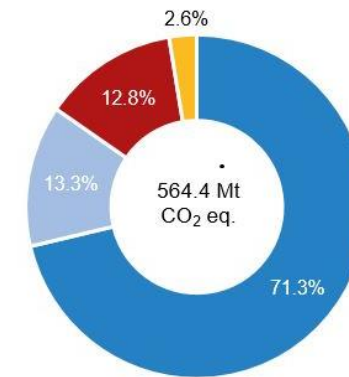


# TÜRKİYE'S GREENHOUSE GAS EMISSIONS INVENTORY



Source: TURKSTAT, 2023

## Greenhouse gas emission shares by sector, 2021



■ Energy ■ Industrial Processes and Product Use ■ Agriculture ■ Waste



## UNITED NATIONS 76TH GENERAL ASSEMBLY

OUR PRESIDENT, H.E. MR. RECEP TAYYİP ERDOĞAN, ANNOUNCED THAT TÜRKİYE WILL APPROVE THE PARIS AGREEMENT AT THE 76TH GENERAL ASSEMBLY OF THE UNITED NATIONS ON SEPTEMBER 21, 2021.

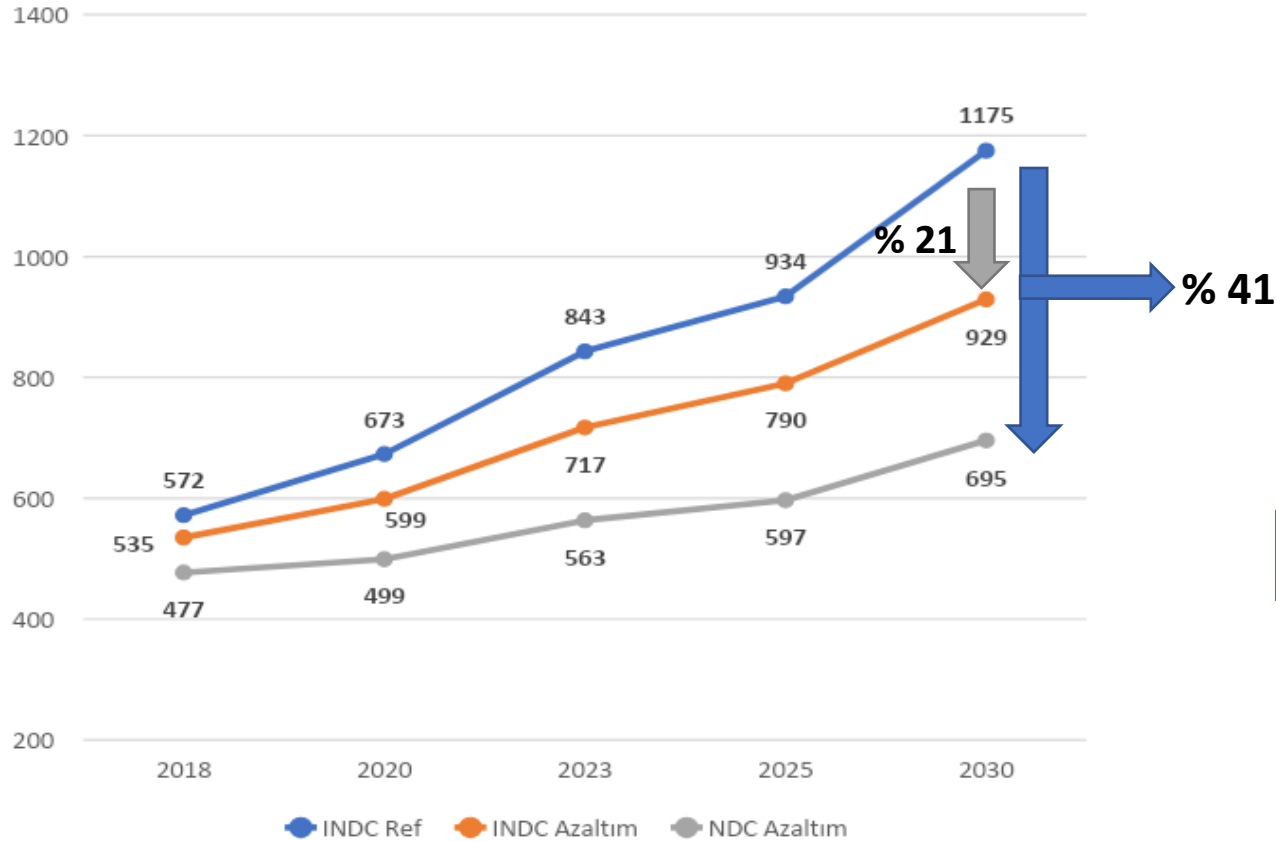
“ In his speech after the Cabinet Meeting held on September 27, 2021, our President announced our **2053 net zero emission target** and thus started **the green development transition**. ”





## NATIONALLY DETERMINED CONTRIBUTION (NDC)

Total Greenhouse Gas Emissions inc. LULUCF  
(Mtons of CO2 eq.)



- Türkiye's NDC is updated in line with our 2053 Net Zero Emissions Target.(2023)
- It includes 7 different sectors across the economy:  
(Energy, Industry, Transportation, Agriculture, Waste, Buildings, LULUCF)

### Strategy and Action Plans:

- Climate Change Strategy and Action Plans on mitigation and adaptation (2024-2030)
- Long Term Climate Change Strategy (2053)



# CLIMATE ACTION TOOLS FOR TÜRKİYE

## GENERAL TOOLS

- Draft Climate Law
- Türkiye Green Deal Action Plan
- Türkiye National Energy Plan
- Transport and Logistics Master Plan 2053
- Industrial Sectors Low Carbon Pathways (iron and steel, aluminium, cement, fertiliser)

## MITIGATION

- Nationally determined contribution (NDC) (with an adaptation component)
- 2053 Long Term Climate Change Strategy (LTS) (with an adaptation component)
- Climate Change Mitigation Strategy and Action Plan 2024-2030

## ADAPTATION

- Climate Model for 2100
- Vulnerability and risk assessments
- Climate Change Adaptation Strategy and Action Plan (2024-2030)
- Local level climate change actions

## FINANCE, INVESTMENT AND IMPLEMENTATION TOOLS

- Emission Trading System (ETS)
- National Green Taxonomy



# CLIMATE LAW



## **DRAFT CLIMATE LAW**

**5 Section**

**4**

**Temporary  
Article**

**20 Article**

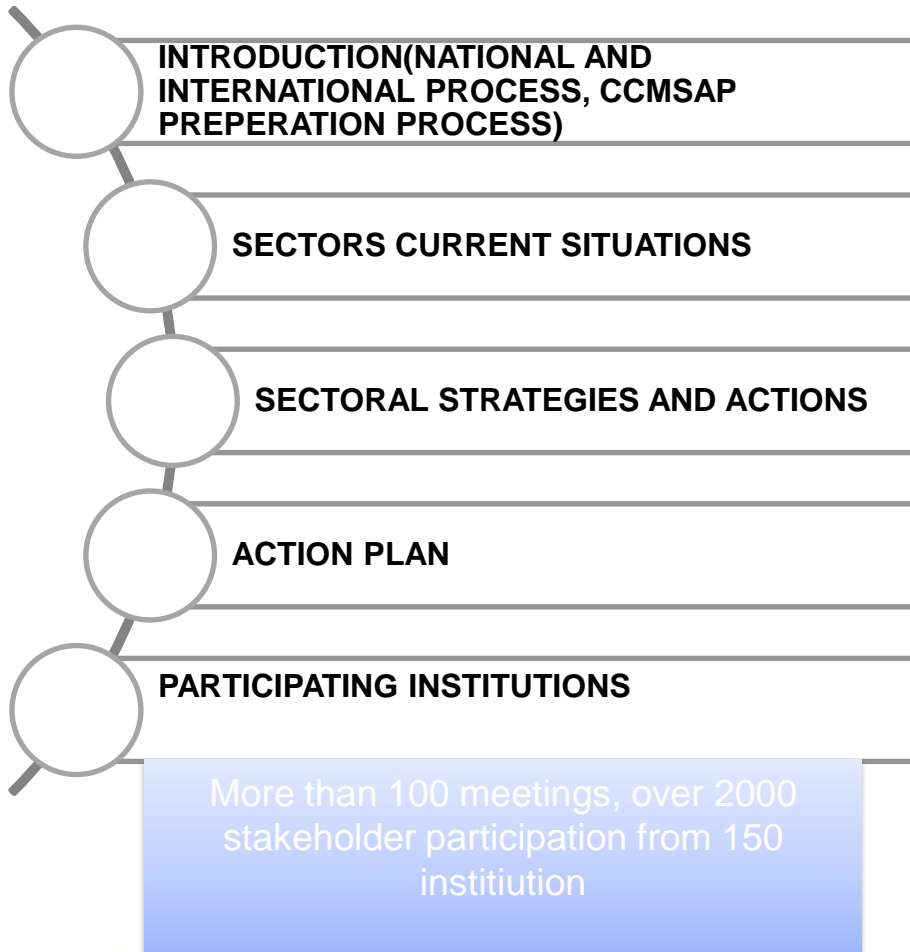
- It will strengthen Türkiye's commitments on climate change on a legal basis.
- Within the scope of the Nationally Determined Contribution and Net Zero Emission Goal, provisions have been made for the regulation of the duties and responsibilities of ministries regarding mitigation and adaptation activities through regulations, as well as the establishment of planning and implementation tools.
- The Climate Law includes provisions regarding the Emission Trading System and Offsetting, as well as regulations concerning revenues generated and their utilization, inspections, sanctions, and various other provisions related to climate action.



# MITIGATION ACTION PLAN SCOPE AND CONTENT



## CONTENT OF PLAN



PLAN SCOPE: 7 mitigation sectors and just transition and carbon pricing topics.

**49 strategies and 265 actions**

<b>Energy</b> 5 strategies, 37 actions	<b>Industry</b> 8 strategies, 32 action	<b>Buildings</b> 6 strategies, 18 actions
<b>Transportation</b> 4 strategies, 36 actions	<b>Waste</b> 9 strategies, 34 actions	<b>Agriculture</b> 7 strategies, 27 actions
<b>LULUCF</b> 5 strategies, 49 actions	<b>Carbon Pricing</b> 4 strategies, 20 actions	<b>Just Transition</b> 1 strategy, 7 actions



# MONITORING AND EVALUATION



- An online monitoring system will be established (47 responsible institutions/organizations)
- [Integration with Climate Portal will be provided.](#)
- Indicators determined for each action will be monitored on an annual basis.
- Annual Monitoring and Evaluation Report(MER)

## Sample Action Format

Sector	Transportation
Strategy	S.3. Use of sustainable/clean energy sources in transportation systems
Action	S.3.7. Planning and development of charging station infrastructure in the required number and location on the road network for the widespread use of electric vehicles
Responsible Institution	Ministry of Transport and Infrastructure Ministry of Industry and Trade Ministry of Energy and Natural Resources
Implementantion Period	2023-2030
Tracking Indicator	Number of vehicle charging stations(pieces) Incentive amount(given)

## Climate Portal where the online monitoring system will be built

The screenshot displays the Climate Portal website. The header includes the logo of the Ministry of Environment, Urbanization and Climate Change of Turkey, the text 'iklim portal', and navigation links for 'GİRİŞ' and 'TR | EN'. Below the header, there are sections for 'Haber ve Duyurular' (News and Announcements) and 'En Son Eklenenler' (Latest News). The 'Haber ve Duyurular' section lists several news items, including 'İklim Değişikliği Zirvesi 2023: Yeşil Dönüşüm İstanbul'da gerçekleştirildi', 'Ulusal İklim Değişikliğine Uyum Stratejisi ve Eylem Planı İstişare Toplantıları', 'Finans Mekanizmaları ve Modellemeleri İstişare Toplantıları', 'COP26'da İklim Uyum Günü', 'Muğla İklim Değişikliğine Uyum Stratejisi ve Eylem Planı İstişare Toplantıları', 'Tam Başvuru Bilgilendirme Günleri', and 'Afetlerin Yaşandığı Samsun ve Muğla'nın İklim Değişikliğine Uyum İçin Strateji ve Eylem Planı'. The 'En Son Eklenenler' section lists several news items, including 'KÜRESEL İKLİM POLİTİKALARI', 'Su Kaynakları Yönetimi ve İklim Değişikliği', 'Avrupa Birliği İklim Politikaları', 'Türkiye'de Atık, Atıksu ve Hava Kalitesi Yönetiminde İklim Değişikliği Kapsamı Yerel Çözümler', 'İklim Değişikliği ile Mücadelede Gençliğin Sorumluluğu', 'Yerel İklim Eylem Planlaması ve Türkiye Pratikleri', and '8. Ulusal Bildirim ve 5. İki Yıllık Rapor'. The website also features logos for 'İKLİM DEĞİŞİKLİĞİ BAŞKANLIĞI', 'iklime uyum', 'İKLİMİ DUY', 'ATLAS', 'Climate ADAPT', and 'Gerri Bildirim'.





# ENERGY TRANSITION



- Türkiye's **installed power generation** capacity has reached **107.2 GW by January 2024**
- 56% of total capacity is based on renewables
- Renewables met more than half of the power demand in January 2024
- In power generation capacity, **Türkiye is the 12th in the world and the 5th in Europe**
- Large additions to the solar and wind power generation capacity by 2035
- New technologies to utilise by 2035: **Nuclear power, batteries, electrolysers**
- **EV market share will be %35 by 2030**
- 16% reduction in primary energy use and **100 Mt reduction in GHG emissions by 2030**

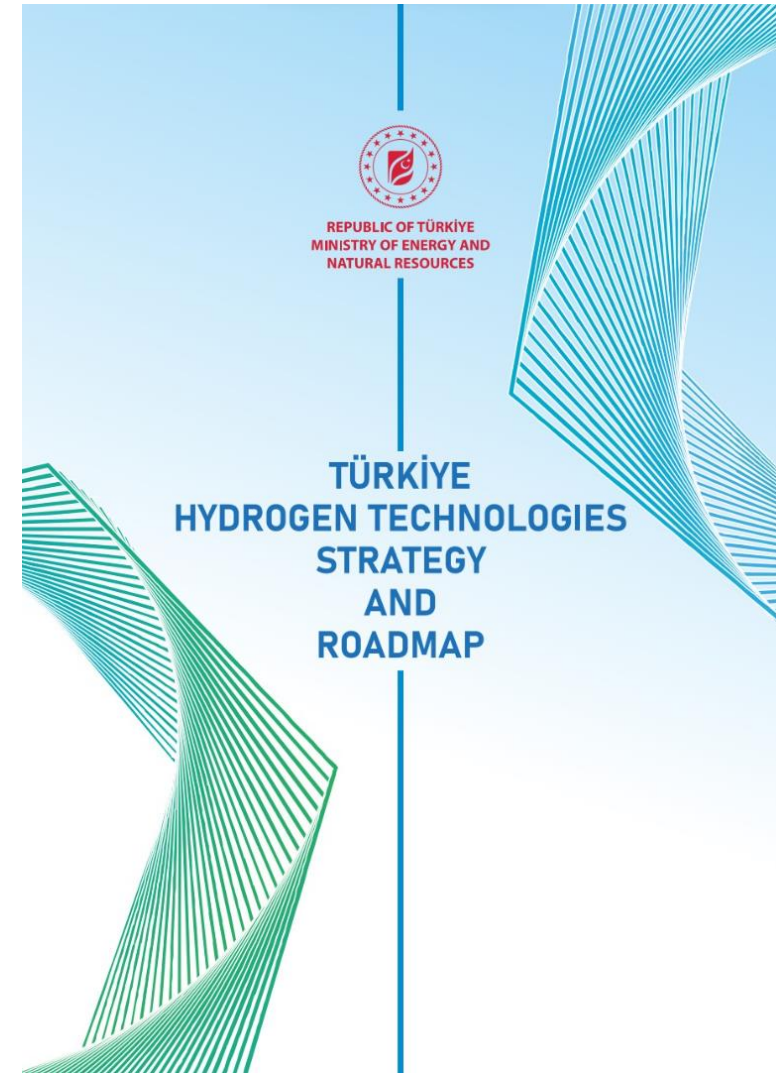
Source/Technology	2024 (GW)	2035 (GW)
Solar	11.7	53
Wind	11.8	30
Nuclear	-	7.2
Battery	-	7.5
Electrolyser	-	5
Demand side management	-	1.7



# HYDROGEN

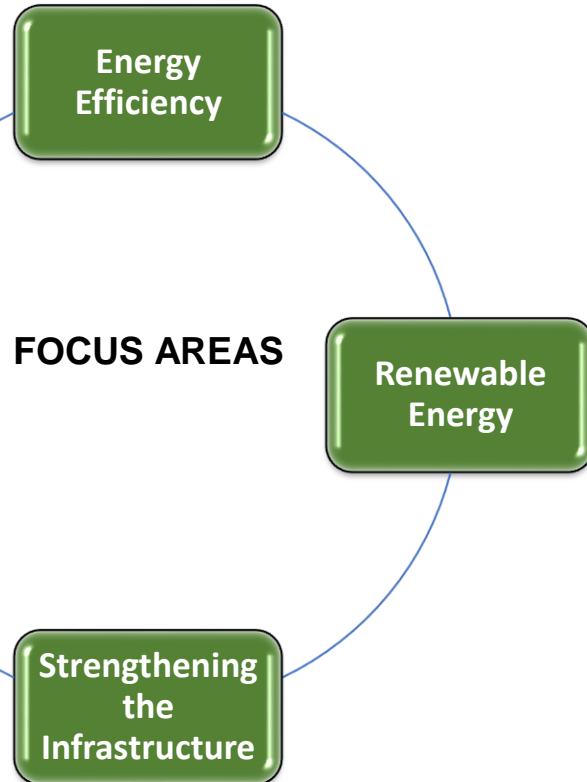


- One of the priority areas in the energy transition
- Key element of the economic development while achieving 2053 net zero target
- **The Hydrogen Technologies Strategy and Roadmap** has been developed
- Aiming for \$2.4/kgH by 2035 and \$1.2/kgH by 2053
- Increasing **the electrolyser capacity to 5 GW by 2035 and 70 GW by 2053**





# SECTORAL STRATEGIES: ENERGY SUPPLY



## ENERGY

- S.1. Reducing the **carbon intensity** of electricity generation
- S.2. Matching the electricity sector with other sectors and supporting **demand side participation**
- S.3 Strengthening the electrical infrastructure, increasing efficiency and **reducing the technical loss rate** in transmission and distribution
- S.4. Expanding the use of **low-carbon production technologies** in electricity generation and strengthening alternatives
- S.5. Creating a **carbon capture, use and storage** roadmap to reduce unavoidable greenhouse gas emissions



# THANK YOU...

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