Project Timeline

Start Date: October 2022



Objectives

To develop policy diagnostics on circular economy for Türkiye through conducting analysis on the: (i) macroeconomic impacts of circular economy policies; (ii) exposure to evolving circular economy policies in major trade partners; (iii) prioritization of the industrial sectors that can accelerate the CE transition.

These diagnostics are intended to generate knowledge, inform, and scale-up policy dialogue and strategic engagement on green growth and climate change with the Government of Türkiye with a specific focus on supporting a resilient, sustainable and inclusive long-term growth.

Key Questions Addressed

- . How can Türkiye make the transition to a CE with minimal negative or even positive impacts on growth, jobs and GHG emissions?
- . What does an effective policy package for CE transition look like?
- . How will the EU's and Türkiye's CE policies affect trade?
- . Which economic sectors should Türkiye prioritize for the CE transition?
- . How can these sectors be supported in the adoption of circular business models?

Main Agencies and Partners

- . Strategy and Budget Office of the Presidency (SBO)
- . Ministry of Industry and Technology, Ministry of Trade (MoT)
- . Ministry of Environment, Urbanization and Climate (MoEUCC).

Key Activities

CGE Model:

- Costs of different CE policy bundles and their impacts on primary/ secondary material use and CO₂ emissions

- Reductions of material use by up to 14 percent possibly by 2030 (compared to baseline)

Trade Analysis:

- Impact of EU CE policies on Türkiye's industry

- GVC-CE analysis for two prioritized sectors: textiles and apparel, and automotive

- Recommendations for trade policy, human capital and supplier development, standards, and infrastructure

Prioritization of Industrial Sectors:

- Network analysis assessing sectors most critical for CE transition - Recommendations for promoting targeted linkages between sectors, developing policies to support circular industries, and fostering private sector involvement

Circular Economy in Turkiye Green PASA (P174569) Pillar: Policies for a Circular Economy (CE)

Closing Date: December 2024

Change

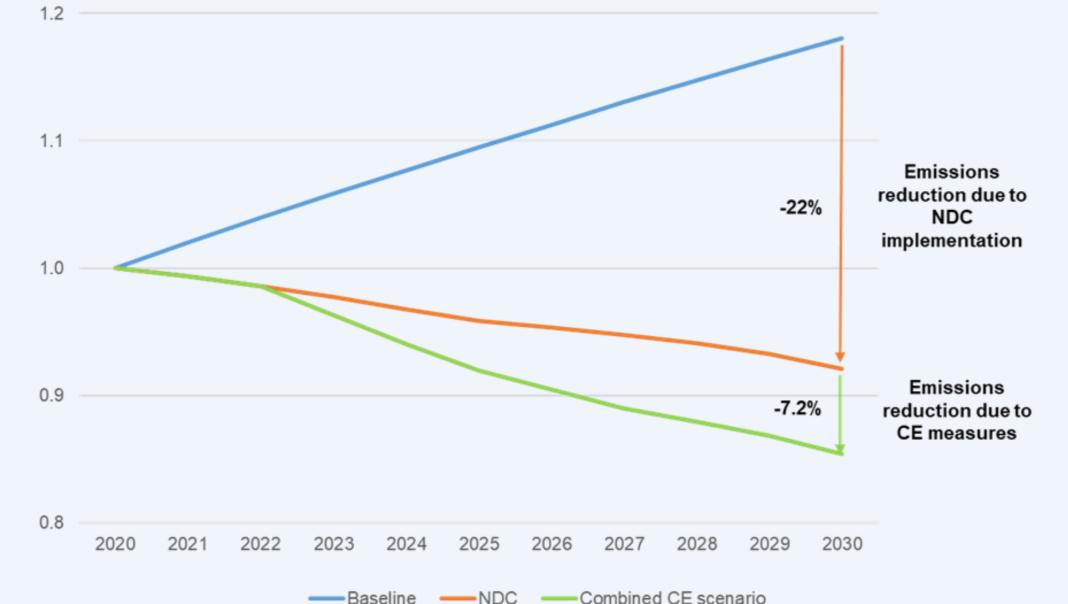
. Paper 1: Circular Economy Transition in Türkiye: Impacts and Interactions (drafted)

Outputs

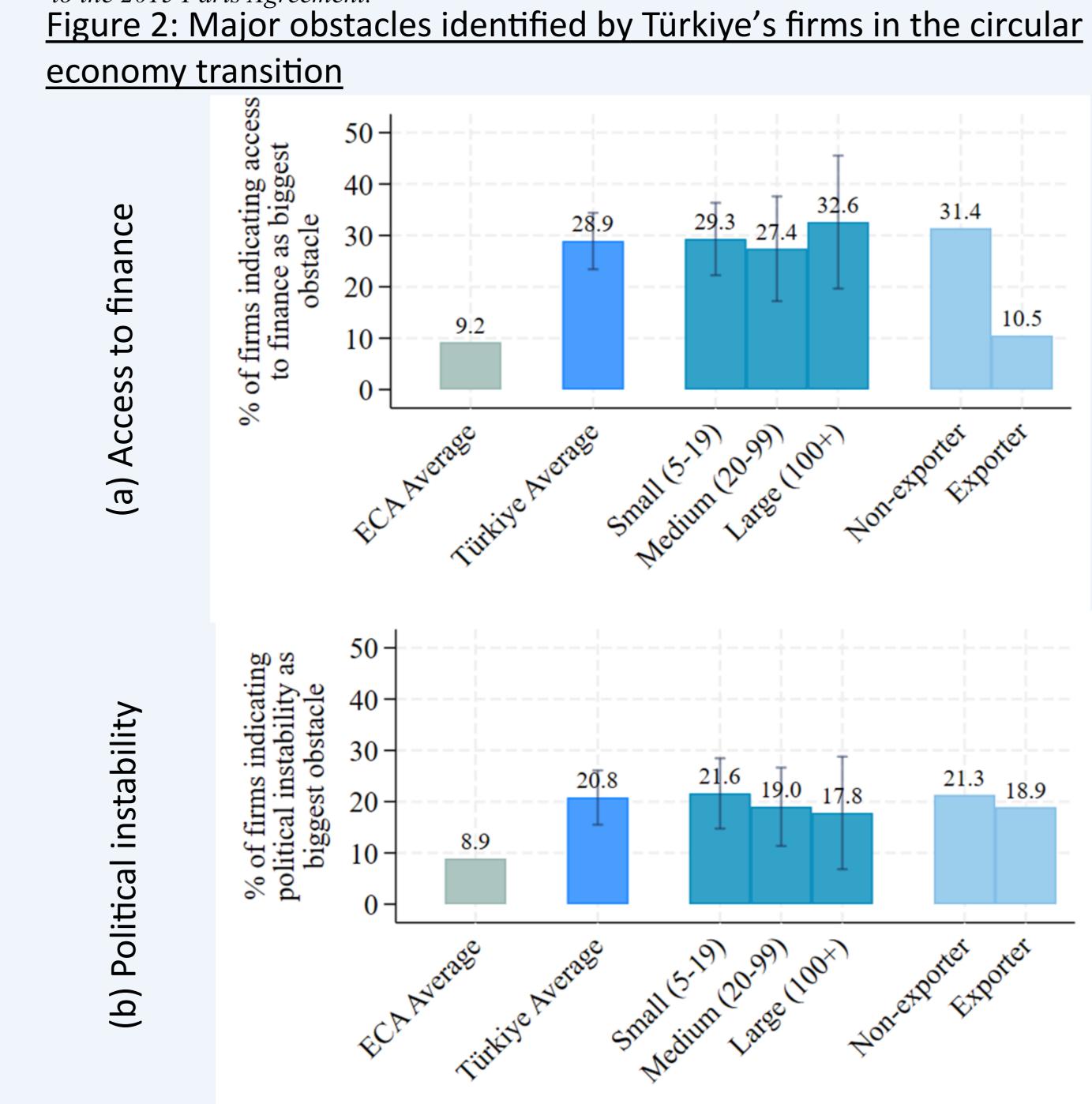
- . Paper 2: Türkiye's Circular Economy Transition in the EU's Global Value Chains Ecosystem (drafted)
- . Paper 3: Building a Competitive Circular Economy: Prioritizing Industries for Accelerated Development in Türkiye (drafted)
- . Summary Paper of the above (ongoing)

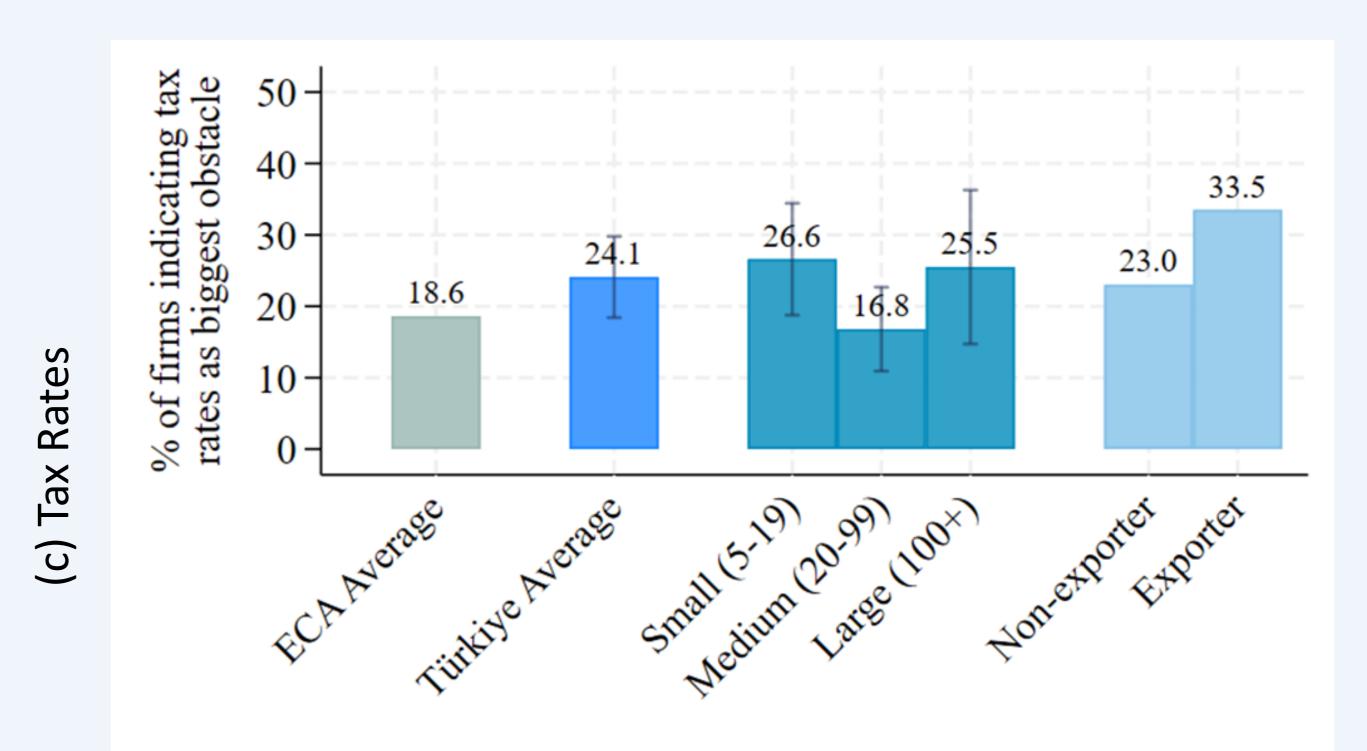
Some Selected Preliminary Results

Figure 1: Economy-wide CO₂ emissions from fossil fuels under different scenarios (2020=1)



Note: This graph shows how a bundle of circular economy measures can further decrease CO_2 emissions in Türkiye, in addition to CO_2 emissions reductions already achieved through the implementation of the Nationally Determined Contribution (NDC), Türkiye's commitment to the 2015 Paris Agreement.





Note: This figure shows the percent of firms that identify access or the cost of finance (panel a)), political instability (panel b)), or tax rates (panel c)) as a "major" or "very severe" obstacle. The panels display average shares across surveyed ECA economies, in Türkiye, and within firm size groups and export exposure in Türkiye. 95% confidence intervals are included whenever in*ference is possible.*

Figure 3: A strategic blueprint for the transition to a competitive circular economy in Türkiye

The table presents a strategic blueprint for the transition to a competitive circular economy in Türkiye with examples from the six sectors with the highest circular economy potential (chemicals, non-metal minerals, metal basics, wood, mining, and plastics). Examples of these sectors' prospects are given for four central pillars: (i) Strengthening CE Inter-Industry Relationships; (ii) Adoption of CE Practices and Technology; (iii) Sustainable CE Regulations; and (iv) Promotion of Fair Competition in the CE Market. Each sector's prospects within these pillars are gauged on a green-yellow-red scale, representing the potential for engagement and value creation within the context of associated risks and mitigating economic potential gaps. The table only provides hypothetical examples with a macroscopic lens.

Hypothetical sector exam- ples for CE transition	Strengthen- ing CE Inter -Industry Relation- ships	Adoption of CE Prac- tices and Technology	Sustaina- ble CE Regula- tions	Promotion of Fair Competi- tion in the CE Market
Green (Lower risk to engage CE practices, Low- er efforts to create CE val- ue)	Collabora- tive plat- forms in the chemical and pharma- ceutical in- dustry	Public- private in- centives in the mining and quarry- ing sector	Product steward- ship measures in the non- metal min- eral indus- try	Fair market regulations in the fabri- cated metal industry
Yellow (Moderate risk to engage in CE practices, Moderate ef- forts to create CE value)	Symbiotic relationships in the wood and forestry industry	Education and training programs in the plastics industry	Sustainabil- ity stand- ards in mining and quarrying	Fair access to second- ary materials in the non- metal min- erals indus- try
Red (Higher risk to engage in CE practices, Higher efforts to create CE value)	Resource and infor- mation flow mechanisms in the plas- tics industry	R&D initia- tives in the chemical and phar- maceutical industry	Waste re- duction measures in mining and quarrying	Consumer education and protec- tion policies in the wood and forestry industry

