



Technology Executive Committee

02 April 2024

Twenty-eighth meeting

16–19 April 2024 (19 April TEC-CTCN Advisory Board Joint session)

## **Draft concept note for Technology Day on transformative industry**

### **Cover note**

### **I. Background**

1. As per activity C.3.1 of its rolling workplan (2023-2027), the TEC works to promote low and near zero emission production and products, including in the steel and cement industries, through the support of innovation, enabling environments, sustainable purchasing commitments, and financing to inform the preparation and implementation of NDCs.
2. At TEC 27, the TEC provided guidance to the activity group on transformative industry to finalize the mapping paper on existing initiatives on transformative industry to identify where the TEC could add value<sup>1</sup> and requested the activity group to prepare, on the basis of the mapping paper, a concept note for Technology Day for consideration at TEC 28.

### **II. Scope of the note**

3. The annex to this note contains the draft concept note for Technology Day on transformative industry.

### **III. Expected action by the Technology Executive Committee**

4. The TEC will be invited to consider the draft concept note contained in the annex and provide guidance to the activity group on further work on this matter.

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<sup>1</sup> <https://unfccc.int/ttclear>.

## Annex

### Draft concept note for Technology Day on transformative industry

#### Technology Day on Transformative Industry

##### Driving industrial transformation by tackling hard-to-abate industries in updated NDCs

Part 1: COP 29, Baku, Azerbaijan

Draft concept note

18 March 2024

#### Context

Initially organized by the UNFCCC Technology Executive Committee (TEC) in 2020 and 2021 on adaptation technologies, this year the Technology Day event series returns to the scene with a focus on supporting the integration of hard-to-abate industries in updated NDCs. Organized by the TEC in collaboration with UNIDO, the first part of Technology Day on Transformative Industry will take place in Baku, Azerbaijan during COP 29. The second part of Technology Day on Transformative Industry is planned for 2025 to continue supporting countries with their NDC planning and implementation as regards the steel, cement, and chemical and petrochemical industries.

The industrial sector holds a tremendous potential for reducing greenhouse gas (GHG) emissions as it is directly and indirectly responsible for about 34 per cent of global GHG emissions. Notably, the three primary sectors steel, cement and chemicals & petrochemicals, collectively referred to as hard-to-abate industries, are pivotal in this context as they are responsible for nearly 60 per cent of total industrial energy consumption and contribute to around 70 per cent of the sector's emissions.

#### Objectives

The objectives of the Technology Day on Transformative Industry are to inform countries on technology and policy options for hard-to-abate industries as they update their NDCs for the 2025–2035 period and implement respective NDC targets in line with the Paris Agreement and Sustainable Development Goal 9 on the industry, innovation and infrastructure:

- **Share technology options and showcase innovation:** Provide a platform for industry leaders, technology providers, experts, innovators, investors, and policymakers to share technology options and demonstrate innovative policies, regulations, and other approaches for the decarbonization of hard-to-abate industries;
- **Discuss policy options and integration in updated NDC:** Facilitate discussions on policy options for decarbonizing hard-to-abate industries and ways to effectively set emission reduction targets for those industries in updated NDCs;
- **Foster partnerships:** Explore ways for achieving updated NDC targets on hard-to-abate industries through multi-stakeholder, industry, bilateral, and multilateral partnerships, and collaboration.

The first part of Technology Day on Transformative Industries in 2024 will focus on the steel and cement industry, with a second part planned for 2025 to focus on the chemical and petrochemical industry.

## Draft agenda

### Session 1

#### Driving Industrial Transformation by Tackling Hard-To-Abate Industries in updated NDCs

##### Session 1: Technology and policy options for the steel and cement industries in updated NDCs

Venue: UNFCCC side event room (tbc)

Date: 1<sup>st</sup> week of COP 29 (tbc)

Time: 13:15–14:45 (tbc)

Moderator: TEC Chair

#### 13:15–13:30 High-level opening of the Technology Day on Transformative Industry

13:15–13:20	<b>Opening remarks</b>	TBC
13:20–13:25	<b>Keynote speech</b>	UNFCCC Executive Secretary
13:25–13:30	<b>Keynote speech</b>	UNIDO Director-General

#### 13:30–14:25 Decarbonizing steel and cement industries

13:30–13:35	<b>Publication launch:</b> TEC policy brief on hard-to-abate industries in updated NDCs	TEC Vice-Chair
13:35–13:45	<b>Scene-setting presentation:</b> Technology options and innovative approaches for decarbonizing the steel and cement industries	IEA
13:45–14:05	<b>Panel discussion:</b> Reducing emissions from steel and cement production: What works, what does not?  Moderator: UNIDO presenter	Industry representative/association from developed country Industry representative/association from developing country Technology provider from developed country Technology provider from developing country
14:05–14:25	<b>Panel discussion:</b> Policy options for updated NDCs and ways to integrate steel and cement industry targets  Moderator: TEC Member	Government representative/NDE from developed country Government representative/NDE from developing country Representative from an intergovernmental organization Representative from an UNFCCC observer constituency

#### 14:25–14:45 Discussion with the audience & Closing of the event

## Draft agenda

### Session 2

<b>Driving Industrial Transformation by Tackling Hard-To-Abate Industries in updated NDCs</b> <b>Session 2: Partnerships and collaboration for decarbonizing the steel and cement industries</b>  Venue: Event Partner Pavilion (tbc) Date: 2 <sup>nd</sup> week of COP 29 (tbc) Time: 13:15–14:45 (tbc)  Moderator: TBC		
Opening of the event		
13:15–13:25	Opening remarks	TEC Chair
From Options to Ambition and from Ambition to Action: Decarbonizing the steel and cement industries through partnerships and collaboration		
13:25–13:35	<b>Scene-setting Presentation:</b> Policies, technologies and innovative approaches for decarbonizing the steel and cement industries	UNIDO
13:35–14:00	<b>Panel discussion: From Options to Ambition</b> - Supporting the integration of steel and cement industry targets in updated NDCs. What is the support available, what is the support needed?  Moderator:	UNIDO IDDI NDC Partnership UNDP Developing country representative/NDE Developed country representative/NDE
14:00–14:25	<b>Panel discussion: From Ambition to Action</b> – Supporting the decarbonization of the steel and cement industry through domestic, regional, and international partnerships and collaboration. What has worked, what has not?	Global/national cement association Global/national steel association Net Zero Accelerator/similar initiative Representative of a beneficiary of a domestic/regional initiative Representative of a beneficiary of an international initiative
14:25–14:45	Discussion with the audience & Closing of the event	TEC Chair

### Expected results:

- Increased awareness of policy-makers and industry leaders about policy, technology, and innovation options for decarbonizing the steel and cement industries and support available for efforts in this regard;
- Increased awareness of support needs of policy-makers and industry leaders for setting and implementing ambitious steel and cement sector industry targets;
- Video recording or summary of events to capture insights for broader dissemination and future reference;
- New policy and technology options identified for inclusion in the UNFCCC mitigation policy and technology online repository.