33 Average trading carbon price

Indicator type Core indicator

Published

Versio	ning							
First publication		1/26/2017	Latest update	8/27/20	21			
Area a	nd sub-area							
Area ar	nd sub-area	Mitigation	Environmental	governance a	and regulation			
Presentation								
Tier		1						
Indicator definition and description		Average price paid on the market for 1 ton CO2 equivalent during the reference year.						
Unit of	measure	US dollars per ton of CO2 equivalent						
Coverage		Entities involved in carbon trading						
Spatial aggregation		National economy						
Reference period		Calendar year						
Update frequency		Annual						
Base period		Not applicable						
Disaggı	regation (ope	rational indicators)					
Disaggregation (operational indicators) Comments								
Temporal (by month, by season)								
Other r	elated -indica	ntors (e.g.contextu	al, proxy, other co	re indicators)				
ID			Subindicator			Туре		
66	Average non	n-trading carbon price (carbon tax)			Contextual indicator			
67	Number of C	O2 permits allocat	ted			Contextual indicator		
68	Effective car	oon price				Contextual indicator		
Releva	nce							
Policy context and rationale		A carbon price is a cost applied to carbon pollution to encourage sources of carbon pollution to reduce the amount of greenhouse gas they emit into the atmosphere. Carbon pricing is designed to capture what are known as the external costs of carbon emissions. The indicators is relevant to climate change mitigation policies and measures implemented under the UNFCCC, its Kyoto Protocol and the Paris Agreement under the UNFCCC; particularly relevant in the context of market-based mechanisms under the Kyoto Protocol.						
Related SDG indicator (SDG I.)		Not applicable						
Relatio	n w SDG-I.							

Policy references

Related Sendai

Framework I.

Not applicable

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Document title	Link
Kyoto Protocol (United Nations Climate Change, 1997)	https://unfccc.int/process-and-meetings/the-kyoto-protocol/what-is-the-kyoto-protocol/kyoto-protocol-targets-for-the-first-commitment-period
United Nations Framework Convention on Climate Change (United Nations Climate Change, 1994)	https://unfccc.int/process-and-meetings/the- convention/what-is-the-united-nations-framework- convention-on-climate-change
Paris Agreement (United Nations, 2015)	https://unfccc.int/process-and-meetings/the-paris- agreement/the-paris-agreement

Methodology

Methodology for indicator calculation

The indicators is calculated as weighted average (by volume) of carbon prices paid by companies participating in emmissions trading scheme (ETS) resident in the country, on stock exchanges during the reference year.

Methodology references

Classification syst. Not applicable

Data sources

Main source

Other than official statistics

Explanation

SEEA Accounts that can serve as data sources

UN-FDES

International databases containing this indicator

European Energy Exchange	https://www.eex.com/en/market-	
	data/environmental-markets/eua-primary-	
	<u>auction-spot-download</u>	

Comments

Comments

There are two main types of carbon pricing: emissions trading systems (ETS) and carbon taxes:

• An emissions trading system – also known as a cap-and-trade system – caps the total level of

- An emissions trading system also known as a cap-and-trade system caps the total level of greenhouse gas emissions across a given industry, or the whole economy, and then allocates or auctions emission allowances to companies operating in that sector. By creating supply and demand for emissions allowances, an ETS establishes a market price for greenhouse gas emissions.
- A carbon tax directly sets a price on carbon by defining a tax rate on greenhouse gas emissions or
 more commonly on the carbon content of fossil fuels.

Only the first type of carbon pricing is covered by the indicator.