

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus

General information and key indicators [Person drafting the information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism, name and, where available, LEI] acting as [issuer of asset-referenced tokens or of e-money tokens or, for crypto-assets other than asset-referenced tokens or e-money tokens, offeror, person seeking admission to trading of crypto-assets, operator of a trading platform in cases where it draws up the crypto-asset white paper, person drawing up the white paper as referred to in Article 6(1), second subparagraph and 19(1), second subparagraph of Regulation (EU) 2023/1114 or crypto-asset service provider] is providing information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism used to validate transactions in [name of the crypto-asset] [where available, identifier of the crypto-asset] and to maintain the integrity of the distributed ledger of transactions. The information covers the period from [date] to [date] [with estimates used for the period from [date] to [date]].

The validation of transactions in [name of the crypto-asset] and the maintenance of the integrity of the distributed ledger of transactions has led to a total energy consumption of [information referred to in Article 4(3), point (d)] during [last calendar year].

The validation of one transaction in [name of the crypto-asset] has led to a total energy consumption of [information referred to in Article 4(3), point (e)] on average during [last calendar year]. The validation of transactions in [name of the crypto-asset] and the maintenance of the integrity of the distributed ledger of transactions has resulted in [number] tonnes GHG emissions, [information referred to in Article 4(3), point (f)], calculated based on sources owned or controlled by the DLT network nodes (scope 1), and indirect emissions from energy purchased by the DLT network nodes (scope 2), during [last calendar year]

Features of the consensus mechanism[s] relevant for principal adverse impacts on the climate and other environment-related adverse impacts [hyperlink to the part of the white paper containing the description of the consensus mechanism] [Information referred to in Article 4(4)] [When different consensus mechanisms are used for the issuance and for the validation of transactions, the impact of each of the relevant consensus mechanisms should be assessed and disclosed accordingly, reflecting the adverse impact of each consensus mechanism]

Climate and other environment-related indicator

1	2	3	4	5
	Adverse sustainability indicator	Metric	Source of information, review by third parties, use of data providers or external experts	Methodology to calculate metrics from information and data obtained
Energy	Energy consumption	Total amount of energy used, expressed in kilowatt-hours (kWh) per calendar year, for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions		
	Non-renewable energy consumption	Share of energy used generated from nonrenewable sources, expressed as a percentage of the total amount of energy used per calendar year, for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions		
	Energy intensity	Average amount of energy used, in kWh, per validated transaction		
GHG emissions	Scope 1 - Controlled	Scope 1 GHG emissions, expressed in tonnes (t) carbon dioxide equivalent (CO ₂ e) per calendar year for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions		

	Scope 2 – Purchased	Scope 2 GHG emissions, expressed in tCO2e per calendar year for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions		
	GHG intensity	Average GHG emissions (scope 1 and scope 2) per validated transaction, expressed in kilogram (kg) CO2e per transaction (Tx)		
Waste production	Generation of waste electrical and electronic equipment (WEEE)	Total amount of WEEE generated for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions, expressed in tonnes per calendar year		
	Non-recycled WEEE ratio	Share of the total amount of WEEE generated for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions, not recycled per calendar year, expressed as a percentage		
	Generation of hazardous waste	Total amount of hazardous waste generated for the validation of transactions and the maintenance of the integrity of the distributed ledger of transactions, expressed in tonnes per calendar year		
Natural resources (For the purpose of this metric, natural resources shall include but may not be limited to: water, fossil fuels, and critical raw materials.)	Impact of the use of equipment on natural resources	Description of the impact on natural resources of the production, the use and the disposal of the devices of the DLT network nodes		