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

Crypto-asset: NEAR Protocol (NEAR)

N	Field	Content
	General information	
S.1	Name	Northstake ApS
S.2	Relevant legal entity identifier	CVR 42818739
S.3	Name of the crypto-asset	NEAR Protocol (NEAR)
S.4	Consensus Mechanism	Thresholded Proof-of-Stake (TPoS).
S.5	Incentive Mechanisms and Applicable Fees	The NEAR Protocol uses a Proof-of-Stake (PoS) incentive mechanism, where validators earn rewards for securing the network, and delegators stake NEAR tokens with validators to share in these rewards. The protocol has an annual inflation rate of ~5%, mostly allocated to validators. To offset inflation, a portion of transaction fees is burned, reducing the total token supply over time.
S.6	Beginning of the period to which the disclosure relates	2025-01-01
S.7	End of the period to which the disclosure relates	2025-12-31
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	920,279
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	For the calculation of energy consumption, the so-called "bottom-up" approach is being used. The nodes are considered to be the central factor for the energy consumption of the network. These assumptions are made on the basis of empirical findings through the use of public information sites, open-source crawlers and crawlers developed in-house. The main determinants for estimating the hardware used within the network are the requirements for operating the client software. The energy consumption of the hardware devices was measured in certified test laboratories. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) was used to determine all implementations of the asset in scope. Data sourced from Crypto Risk Metrics (crypto-risk-metrics.com). The underlying data covers the period 2024-03-10 to 2025-03-10. All indicators represent estimates. Northstake does not account for any offsetting of energy consumption or other market-based mechanism as of today.
	Supplementary key indicators on energy and GHG emissions	
S.10	Renewable energy consumption (share of energy from renewable generation resources) in %	17.20
S.11	Energy intensity (energy used per validated transaction) in kWh	0.00001
S.12	Scope 1 DLT GHG emissions — Controlled (per year) in t CO_2eq	0
S.13	Scope 2 DLT GHG emissions — Purchased (per year) in t CO_2eq	309.91
S.14	GHG intensity (emissions per validated transaction) in kg CO_2eq	0.00000
	Sources and methodologies	
S.15	Key energy sources and methodologies	To determine the proportion of renewable energy usage, the locations of the nodes are determined using public information sites, open-source crawlers and crawlers developed in-house. If no information is available on the geographic distribution of the nodes, reference networks are used which are comparable in terms of their incentivization structure and

		consensus mechanism. This geo-information is merged with public information from the European Environment Agency (EEA) and thus determined. The intensity is calculated as the marginal energy cost with respect to one more transaction. Source: Crypto Risk Metrics (crypto-risk-metrics.com).
S.16	**Key GHG sources and methodologies**	To determine the GHG emissions, the locations of the nodes are determined using public information sites, open-source crawlers and crawlers developed in-house. If no information is available on the geographic distribution of the nodes, reference networks are used which are comparable in terms of their incentivization structure and consensus mechanism. This geo-information is merged with public information from the European Environment Agency (EEA) and thus determined. The intensity is calculated as the marginal emission with respect to one more transaction. Source: Crypto Risk Metrics (crypto-risk-metrics.com).

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