USD Coin (USDC)

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

Indicator Code	Field Name	Content
S.1	Name	Payhound Limited
S.2	Relevant legal entity identifier	9845001DD90AF543DC90
S.3	Crypto-Asset Name	USD Coin (USDC)
S.4	Consensus Mechanism	Proof-of-Stake (PoS)
S.4	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus system motivates validators to help secure the blockchain and verify transactions by requiring them to lock up their own cryptocurrency as collateral. Instead of relying on computing power, validators are chosen to add new blocks based on how much crypto they have staked. Honest participants are rewarded with transaction fees, while those who behave dishonestly or attempt to add invalid blocks risk losing a portion of their staked funds. This built-in economic penalty helps prevent misconduct and maintains the integrity of the network.. Applicable fees include. Gas/transaction fees paid by users, varying by network congestion.
S.6	Start of Reporting Period	2023-01-01
S.7	End of Reporting Period	2023-12-31
S.8	Energy Consumption (kWh/year)	12,007.721 kWh
S.9	Energy consumption sources and Methodologies	Energy & transaction data span all 11 supported blockchains (e.g., Ethereum, Solana, Tron) Renewable/non-renewable mix derived from national-level electricity generation data. GHG emissions calculated following GHG Protocol: Scope 2 includes energy purchases only. Waste and resources estimates align with MiCA Annex 2025/422, Sections on WEEE and natural resource use. Metrics are based on Circle's 2023 disclosures, validated by CCRI; methodologies described in a MiCA sustainability indicator methodology document and the MICA whitepaper
S.10	Renewable Energy consumption (percentage of the total amount of energy used per calendar year)	28.21%
S.11	Energy Intensity (energy used per validated transaction in kWh)	0.000109222

Indicator Code	Field Name	Content
S.12	Scope 1 DLT GHG emissions – Controlled (in t CO2eq per year)	0
S.13	Scope 2 DLT GHG emissions – Purchased (in t CO2eq per year) 7	4.5684379
S.14	GHG Intensity (emissions per validated transaction in kg CO2eq)	0.000034879
S.15	Key energy sources and methodologies	Total energy: 12,007.721 kWh annually for maintaining USDC integrity and transactions (source). Energy intensity: Derived directly from MiCA-aligned reporting by Circle and CCRI at 0.00109222 kWh/tx (source). Renewable share: Calculated from Circle's report—28.21% of energy use comes from renewable sources, based on CCRI's methodology and regional grid data . Energy mix sources: CCRI's method combines geolocated node data (via crawlers and public records) with national and international datasets (IEA, EEA, IRENA, GWEC, Ember) to estimate renewable vs non-renewable energy usage, though exact chain-level weighting isn't disclosed.
S.16	Key GHG sources and methodologies	Scope 1: Zero—no direct emissions from USDC validation operations (source). Scope 2: Based on purchased electricity emissions: ● 12,007.721 kWh × regional grid emission factors → 4.5684 t CO_2eq total (source). ● No market-based adjustments (e.g., RECs or carbon offsets) are included. GHG intensity: Emissions per transaction calculated in line with MiCA requirements—0.000034879 kg CO_2eq/tx Crypto2Cash+2Circle+26778953.fs1.hubspotusercontent-na1.net+2. Methodology references: Circle's MiCA white paper and CCRI sources adhere to MiCA alignment .