

BVNK

# Sustainability indicators for Euro Coin

Disclosures in accordance with  
Article 66 (5) MiCAR.

## Preamble

### About the Crypto Asset Service Provider (CASP)

Name of the CASP: System Pay Services (Malta) Limited  
 Street and number: TRQ SANT'ANDRIJA, Malta  
 City: SAN GILJAN  
 Country: Malta  
 LEI: 984500640Z8ADE893D04

### About this report

This disclosure serves as evidence of compliance with the regulatory requirements of MiCAR 66 (5). This requirement obliges crypto asset service providers to disclose significant adverse factors affecting the climate and the environment. In particular, this disclosure complies with the requirements of "Commission Regulation (EU) 2025/422 of December 17, 2024, supplementing Regulation (EU) 2023/1114 of the European Parliament and of the Council with regard to regulatory technical standards specifying the content, methods and presentation of information relating to sustainability indicators related to climate-related and other environmental impacts." The optional information specified in Article 6, par. 8 (a) to (d) DR 2025/422 is not included.

This report is valid until material changes occur in the data, which will result in an immediate adjustment of this report.

## Sustainability indicators

**Euro Coin** 

### Quantitative information

Field	Value	Unit
S.1 Name	System Pay Services (Malta) Limited	/
S.2 Relevant legal entity identifier	984500640Z8ADE893D04	/
S.3 Name of the crypto-asset	Euro Coin	/
S.6 Beginning of the period to which the disclosure relates	2024-11-19	/
S.7 End of the period to which the disclosure relates	2025-11-19	/
S.8 Energy consumption	692.89496	kWh/a

### Qualitative information

#### S.4 Consensus Mechanism

The crypto-asset's Proof-of-Stake (PoS) consensus mechanism, introduced with The Merge in 2022, replaces mining with validator staking. Validators must stake at least 32 ETH every block a validator

is randomly chosen to propose the next block. Once proposed the other validators verify the blocks integrity.

The network operates on a slot and epoch system, where a new block is proposed every 12 seconds, and finalization occurs after two epochs (~12.8 minutes) using Casper-FFG. The Beacon Chain coordinates validators, while the fork-choice rule (LMD-GHOST) ensures the chain follows the heaviest accumulated validator votes. Validators earn rewards for proposing and verifying blocks, but face slashing for malicious behavior or inactivity. PoS aims to improve energy efficiency, security, and scalability, with future upgrades like Proto-Danksharding enhancing transaction efficiency.

## **S.5 Incentive Mechanisms and Applicable Fees**

The crypto-asset's PoS system secures transactions through validator incentives and economic penalties. Validators stake at least 32 ETH and earn rewards for proposing blocks, attesting to valid ones, and participating in sync committees. Rewards are paid in newly issued ETH and transaction fees.

Under EIP-1559, transaction fees consist of a base fee, which is burned to reduce supply, and an optional priority fee (tip) paid to validators. Validators face slashing if they act maliciously and incur penalties for inactivity.

This system aims to increase security by aligning incentives while making the crypto-asset's fee structure more predictable and deflationary during high network activity.

## **S.9 Energy consumption sources and methodologies**

The energy consumption of this asset is aggregated across multiple components:

To determine the energy consumption of a token, the energy consumption of the network(s) ethereum is calculated first. For the energy consumption of the token, a fraction of the energy consumption of the network is attributed to the token, which is determined based on the activity of the crypto-asset within the network. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is used - if available - to determine all implementations of the asset in scope. The mappings are updated regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle, we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.

This report was provided by:

# Crypto Risk Metrics

The IDW PS 951-certified SaaS tool “Crypto Risk Metrics” supports regulated financial institutions in the risk-based assessment of cryptocurrencies, Delta-1 Certificates (“Crypto ETPs”) and tokenized securities. ESG data, market conformity checks and KARBV-compliant price data complete the product range.

As a professional compliance expert, we provide support with:

**ESG data for  
crypto-assets**

**White Papers for  
crypto-assets**

**Risk  
management**

**Compliant  
price data**

**Market  
conformity check**