

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

N	Field	Content
General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	648800OC79779MZX1E44
S.3	Name of the cryptoasset	BNB Chain
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	127776.77668
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

All registered MiCA white papers for this asset can be found in ESMA's Interim MiCA Register: www.esma.europa.eu/esmas-activities/digital-finance-and-innovation/markets-crypto-assets-regulation-mica#InterimMiCARegister

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General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	648800OC79779MZX1E44
S.3	Name of the cryptoasset	Bitcoin
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	148816409305.47226
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do 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 %	34.912904615
S.11	Energy intensity (energy used per validated transaction) in kWh	3.89801
S.12	Scope 1 DLT GHG emissions – Controlled (per year) in t CO ₂ eq	0
S.13	Scope 2 DLT GHG emissions – Purchased (per year) in t CO ₂ eq	58569585.80798
S.14	GHG intensity (emissions per validated transaction) in kg CO ₂ eq	1.53414
Sources and methodologies		
S.15	Key energy sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not

		account for any offsetting of energy consumption or other market-based mechanism as of today.
S.16	Key GHG sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

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General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	648800OC79779MZX1E44
S.3	Name of the cryptoasset	Ethereum
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4610409.29782
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do 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 %	32.498508697
S.11	Energy intensity (energy used per validated transaction) in kWh	0.00025
S.12	Scope 1 DLT GHG emissions – Controlled (per year) in t CO ₂ eq	0
S.13	Scope 2 DLT GHG emissions – Purchased (per year) in t CO ₂ eq	1439.82306
S.14	GHG intensity (emissions per validated transaction) in kg CO ₂ eq	0.00008
Sources and methodologies		
S.15	Key energy sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024

		2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.
S.16	Key GHG sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

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General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	648800OC79779MZX1E44
S.3	Name of the cryptoasset	Polygon
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	169117.79908
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

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General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	648800OC79779MZX1E44
S.3	Name of the cryptoasset	Solana
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13529689.53877
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do 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 %	32.802663232
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 ₂ eq	0
S.13	Scope 2 DLT GHG emissions – Purchased (per year) in t CO ₂ eq	4441.04544
S.14	GHG intensity (emissions per validated transaction) in kg CO ₂ eq	0
Sources and methodologies		
S.15	Key energy sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024

		2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.
S.16	Key GHG sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

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General information		
S.1	Name	Lightspark Payments Europe AS
S.2	Relevant legal entity identifier	6488O0OC79779MZX1E44
S.3	Name of the cryptoasset	USDC
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2026-06-17
S.7	End of the period to which the disclosure relates	2026-06-30
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	67958.24315
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: carbon-ratings.com/dl/whitepaper-mica-methods-2024 and docs.mica.api.carbon-ratings.com . We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

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