

The **MiCA Crypto Alliance** has prepared an ESG Factsheet with mandatory, supplementary and optional MiCA-compliant indicators for Thorchain (RUNE).

The **MiCA Crypto Alliance** enables L1 and L2 crypto asset projects, exchanges, and other CASPs to produce state-of-the-art, uniform, MiCA white papers and MiCA sustainability indicators, setting and following best practices.



Exchanges and other CASPs members of the Alliance receive a downloadable, multi-crypto asset file with sustainability indicators with values as the below.

Article 3(1) CDR 2025/422

*"Information that crypto-asset service providers are to make publicly available on their website (...)
It shall be in form of a downloadable file and presented in a way that is easy to read, with characters of readable size and a style of writing that facilitates its understanding and that facilitates comparisons"*

Mandatory Information on principal adverse impacts on the climate

N	Field	Content																
General Information																		
S.1	Name	FalconX Limited																
S.2	Relevant legal entity identifier	984500F6A0762F9LA923																
S.3	Name of the crypto-asset	Thorchain / RUNE																
S.4	Consensus Mechanism	Proof of Stake (Tendermint / CometBFT)																
S.5	Incentive Mechanisms and Applicable Fees	<table><tr><td>Token</td><td>No</td></tr><tr><td>Block Producer Rewards</td><td>Yes</td></tr><tr><td>Staking Rewards</td><td>Yes</td></tr><tr><td>Delegation Rewards</td><td>No</td></tr><tr><td>Tx Fees</td><td>Yes</td></tr><tr><td>Gas Fees</td><td>Yes</td></tr><tr><td>Tx Burn</td><td>No</td></tr><tr><td>Gov Rights</td><td>No</td></tr></table>	Token	No	Block Producer Rewards	Yes	Staking Rewards	Yes	Delegation Rewards	No	Tx Fees	Yes	Gas Fees	Yes	Tx Burn	No	Gov Rights	No
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S.6	Beginning of the period to which the disclosure relates	2026-01-01																
S.7	End of the period to which the disclosure relates	2026-06-23																
Mandatory key indicator on energy consumption																		
S.8	Energy consumption	405,561.40786 kWh per calendar year																

N	Field	Content
General Information		
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). As the base layer is a decentralised network, estimates on individual node power draw are used. Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting

Supplementary Information on the principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
Supplementary key indicators on energy and GHG emissions		
S.10	Renewable energy consumption	38.6019893034%
S.11	Energy intensity	0.01305 kWh per transaction
S.12	Scope 1 DLT GHG emissions – controlled	0 t CO ₂ eq per calendar year
S.13	Scope 2 DLT GHG emissions – purchased	124.31827 t CO ₂ eq per calendar year
S.14	GHG intensity	0.00400 kg CO ₂ eq per transaction
Sources and methodologies		
S.15	Key energy source and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting
S.16	Key GHG sources and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting

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

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Optional Indicators																										
S.17	Energy mix	<table><tr><th>Energy source</th><th>Percentage {DECIMAL-11/10}</th></tr><tr><td>Bioenergy</td><td>3.5440760360%</td></tr><tr><td>Coal</td><td>15.7150207407%</td></tr><tr><td>Flared Methane</td><td>0.0000000000%</td></tr><tr><td>Gas</td><td>30.1948488192%</td></tr><tr><td>Hydro</td><td>8.8975152419%</td></tr><tr><td>Nuclear</td><td>12.8158800683%</td></tr><tr><td>Other Fossils</td><td>2.6722610685%</td></tr><tr><td>Other Renewables</td><td>0.4705328528%</td></tr><tr><td>Solar</td><td>8.0682870886%</td></tr><tr><td>Vented Methane</td><td>0.0000000000%</td></tr><tr><td>Wind</td><td>17.6215780842%</td></tr></table>	Energy source	Percentage {DECIMAL-11/10}	Bioenergy	3.5440760360%	Coal	15.7150207407%	Flared Methane	0.0000000000%	Gas	30.1948488192%	Hydro	8.8975152419%	Nuclear	12.8158800683%	Other Fossils	2.6722610685%	Other Renewables	0.4705328528%	Solar	8.0682870886%	Vented Methane	0.0000000000%	Wind	17.6215780842%
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S.19	Carbon intensity	0.30653 kg CO ₂ eq per kWh																								
S.22	Generation of waste electrical and electronic equipment (WEEE)	0.66867 t per calendar year																								
S.23	Non-recycled WEEE ratio	62.2434722141%																								
S.24	Generation of hazardous waste	0.00033 t per calendar year																								

S.25	Generation of waste (all types)	0.66867 t per calendar year
S.26	Non-recycled waste ratio (all types)	62.2434722141%
S.27	Waste intensity (all types)	0.02152 g per transaction
S.29	Impact of the use of equipment on natural resources	Land use: 10,506.87440 m ²
S.31	Water use	1,801.11201 m ³ per calendar year
S.32	Non-recycled water ratio	74.3835989955%
Sources and methodologies		
S.33	Other energy sources and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting
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S.35	Waste sources and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). As the base layer is a decentralised network, estimates on individual node weight, hazardous components and depreciation rate are used. Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting

S.36	Natural resources sources and methodologies	Data provided by the MiCA Crypto Alliance as a third party, with no deviations from the calculation guidance of Commission Delegated Regulation (EU) 2025/422, Article 6(5). Usage of natural resources is approximated through land use metrics. Land use, water use and water recycling are calculated based on energy mix-specific estimates of purchased electricity land intensity, purchased electricity water intensity, and water recycling rates. Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting
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