

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

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	Hedera / HBAR																
S.4	Consensus Mechanism	Proof of Stake (PoS)																
S.5	Incentive Mechanisms and Applicable Fees	<table border="1"> <tbody> <tr> <td>Token</td> <td>No</td> </tr> <tr> <td>Block Producer Rewards</td> <td>No</td> </tr> <tr> <td>Staking Rewards</td> <td>Yes</td> </tr> <tr> <td>Delegation Rewards</td> <td>Yes</td> </tr> <tr> <td>Tx Fees</td> <td>Yes</td> </tr> <tr> <td>Gas Fees</td> <td>No</td> </tr> <tr> <td>Tx Burn</td> <td>No</td> </tr> <tr> <td>Gov Rights</td> <td>No</td> </tr> </tbody> </table>	Token	No	Block Producer Rewards	No	Staking Rewards	Yes	Delegation Rewards	Yes	Tx Fees	Yes	Gas Fees	No	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	48,331.79643 kWh per calendar year																

N	Field	Content
General Information		
Sources and methodologies		
S.9	Energy consumption sources and methodologies	<p>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.</p> <p>Full methodology available at: www.micacryptoalliance.com/methodologies/mica-methodologies-for-standardized-sustainability-reporting</p>

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	42.9975311179%
S.11	Energy intensity	0.00033 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	12.73422 t CO ₂ eq per calendar year
S.14	GHG intensity	0.00009 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 border="1"> <thead> <tr> <th>Energy source</th> <th>Percentage {DECIMAL-11/10}</th> </tr> </thead> <tbody> <tr> <td>Bioenergy</td> <td>4.6783556600%</td> </tr> <tr> <td>Coal</td> <td>13.2611190790%</td> </tr> <tr> <td>Flared Methane</td> <td>0.0000000000%</td> </tr> <tr> <td>Gas</td> <td>24.2399942083%</td> </tr> <tr> <td>Hydro</td> <td>9.7520061162%</td> </tr> <tr> <td>Nuclear</td> <td>16.1221519689%</td> </tr> <tr> <td>Other Fossils</td> <td>3.3792036259%</td> </tr> <tr> <td>Other Renewables</td> <td>0.3608071822%</td> </tr> <tr> <td>Solar</td> <td>8.1372188149%</td> </tr> <tr> <td>Vented Methane</td> <td>0.0000000000%</td> </tr> <tr> <td>Wind</td> <td>20.0691433446%</td> </tr> </tbody> </table>	Energy source	Percentage {DECIMAL-11/10}	Bioenergy	4.6783556600%	Coal	13.2611190790%	Flared Methane	0.0000000000%	Gas	24.2399942083%	Hydro	9.7520061162%	Nuclear	16.1221519689%	Other Fossils	3.3792036259%	Other Renewables	0.3608071822%	Solar	8.1372188149%	Vented Methane	0.0000000000%	Wind	20.0691433446%
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S.19	Carbon intensity	0.26348 kg CO ₂ eq per kWh																								
S.22	Generation of waste electrical and electronic equipment (WEEE)	0.10696 t per calendar year																								
S.23	Non-recycled WEEE ratio	62.3410185194%																								
S.24	Generation of hazardous waste	0.00005 t per calendar year																								

S.25	Generation of waste (all types)	0.10696 t per calendar year
S.26	Non-recycled waste ratio (all types)	62.3410185194%
S.27	Waste intensity (all types)	0.00073 g per transaction
S.29	Impact of the use of equipment on natural resources	Land use: 1,552.81629 m ²
S.31	Water use	262.58091 m ³ per calendar year
S.32	Non-recycled water ratio	78.4747931419%
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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