

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

Ν	Field	Content	
General information			
S.1	Name	tradias GmbH	
S.2	Relevant legal entity identifier	529900FYBTAGIOS54M10	
S.3	Name of the cryptoasset	Arbitrum	
S.4	Consensus Mechanism	Proof of Stake (PoS)	
S.5	Incentive Mechanisms and	A Proof-of-Stake (PoS) consensus mechanism	
0.0	Applicable Fees	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	
<u> </u>	Designing of the period to	network integrity.	
S.6	Beginning of the period to which the disclosure relates	2024-12-15	
S.7	End of the period to which the	2024-12-28	
5.7	disclosure relates	2024-12-28	
		cator on energy consumption	
S.8	Energy consumption (per	4761547.78314	
	year) in kWh		
Sources and methodologies			
S.9	Energy consumption sources	Data provided by CCRI; all indicators are based	
	and methodologies	on a set of assumptions and thus represent	
		estimates; methodology description and	
		overview of input data, external datasets and	
		underlying assumptions available at:	
		https://carbon-ratings.com/dl/whitepaper-mica-	
		methods-2024 and https://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 indic	ators on energy and GHG emissions	
S.10	Renewable energy	27.823	
5.10	consumption (share of energy		
	from renewable generation		
	resources) in %		
S.11	Energy intensity	0.00052	
	(energy used per validated		
	transaction) in kWh		
S.12	Scope 1 DLT GHG emissions -	0	
	Controlled (per year) in t		
	CO2eq		
S.13	Scope 2 DLT GHG emissions -	2185.54252	
	Purchased (per year) in t		
	CO <sub>2</sub> eq		
S.14	GHG intensity	0.00024	
	(emissions per validated		
1	transaction) in kg CO <sub>2</sub> eq		
		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: https://carbon-ratings.com/dl/whitepaper-mica- methods-2024 and https://docs.mica.api.carbon- ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.
5.16	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: https://carbon-ratings.com/dl/whitepaper-mica- methods-2024 and https://docs.mica.api.carbon- ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.