

Opinion Statement

Water Footprint

Verification Opinion Statement

This is to verify that:

TECO Electric & Machinery Co., LTD.
5F
No. 19-9, San Chong Road
Nan-Kang
Taipei City
11501
Taiwan

東元電機股份有限公司
台灣
台北市
南港區
三重路 19-9 號
5 樓
11501

Holds Statement No:

WFV 014

Verification opinion statement

As a result of carrying out the verification of product water footprint, it is the opinion of BSI that:

- This verification is according to the water scarcity footprint assessment report of TECO ELECTRIC & MACHINERY CO., LTD.
- The system boundary is defined as a product.
- The life cycle stages include raw materials acquiring and manufacturing (cradle to gate) that is consistent with the goal and scope definition.
- The functional unit is defined as one set of IEC IE3 Motor (AEHF series) in different output (每台IEC IE3馬達(AEHF系列) (4P2HP) (4P20HP) (4P150HP)).
- No material misstatements in this ISO 14046:2014 assertion was revealed.

The data quality of product water footprint with water scarcity assessment was verified to be acceptable against the requirements of ISO 14046:2014.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the water footprint are being assessed, the validity of this opinion statement will cease.



For and on behalf of BSI:

Originally registered: 19/09/2016

Latest Issue: 19/09/2016

Expired by: 18/09/2018



...making excellence a habit.

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Statement No: WFV 014

Location

Verification Information

TECO Electric & Machinery Co., LTD.
東元電機股份有限公司

The verification is according to the water scarcity footprint assessment report of TECO ELECTRIC & MACHINERY CO., LTD.

The water scarcity footprint assessment declaration and other related information are as follows:

- The water scarcity footprint assessment with functional unit declaration : one set of IEC IE3 Motor (AEHF series) (4P2HP) 每台 IEC IE3 馬達(AEHF 系列) (4P2HP)

Life Cycle stage	Water withdrawal with functional unit		Water release with functional unit		
	quantities	Unit	Pollutants	quantities	Unit
Material (Indirect)	0.89	M ³ /per set	BOD	0.18	kg BOD/per set
			COD	6.00	kg COD/per set
			SS	0.11	kg SS/per set
Manufacturing (Direct)	0.01	M ³ /per set	BOD	--	kg BOD/per set
			COD	0.0029	kg COD/per set
			SS	0.0003	kg SS/per set
Total	0.90	M ³ /per set	BOD	0.18	kg BOD/per set
			COD	6.00	kg COD/per set
			SS	0.11	kg SS/per set

- The water scarcity footprint assessment with functional unit declaration : one set of IEC IE3 Motor (AEHF series) (4P20HP) 每台 IEC IE3 馬達(AEHF 系列) (4P20HP)

Life Cycle stage	Water withdrawal with functional unit		Water release with functional unit		
	quantities	Unit	Pollutants	quantities	Unit
Material (Indirect)	3.43	M ³ /per set	BOD	0.98	kg BOD/per set
			COD	34.31	kg COD/per set
			SS	0.60	kg SS/per set
Manufacturing (Direct)	0.06	M ³ /per set	BOD	--	kg BOD/per set
			COD	0.017	kg COD/per set
			SS	0.002	kg SS/per set
Total	3.50	M ³ /per set	BOD	0.98	kg BOD/per set
			COD	34.33	kg COD/per set
			SS	0.60	kg SS/per set

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The verification is according to the water scarcity footprint assessment report of TECO ELECTRIC & MACHINERY CO., LTD.

- The water scarcity footprint assessment with functional unit declaration : one set of IEC IE3 Motor (AEHF series) (4P150HP) 每台 IEC IE3 馬達(AEHF 系列) (4P150HP)

Life Cycle stage	Water withdrawal with functional unit		Water release with functional unit		
	quantities	Unit	Pollutants	quantities	Unit
Material (Indirect)	20.48	M ³ /per set	BOD	5.32	kg BOD/per set
			COD	204.66	kg COD/per set
			SS	2.40	kg SS/per set
Manufacturing (Direct)	0.33	M ³ /per set	BOD	--	kg BOD/per set
			COD	0.09	kg COD/per set
			SS	0.01	kg SS/per set
Total	20.81	M ³ /per set	BOD	5.32	kg BOD/per set
			COD	204.75	kg COD/per set
			SS	2.41	kg SS/per set

- The data in this product water footprint inventory report is from January 1, 2015 to December 31, 2015.
- The primary activity data include related facilities from its own processes under the operational control of the organization.
- The secondary data include relative factors from public sources and LCA software SimaPro 8.1.1.

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