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Product Carbon Footprint Accounting Platform Input Data Verification Statement

Client:	**TES-AMM (SINGAPORE) PTE. LTD.** **9 Benoi Sector** **Singapore 629844** **SINGAPORE**
Responsible Party:	**SK TES PTE. LTD.** **9 Benoi Sector, Singapore 629844, SINGAPORE**
Platform Related to Verified Input Data:	**Carbon Loop Calculator**
Verification Criteria:	**The input data used to calculate the metric "Avoided GHG emission associated with TES-AMM circular service from Recycling and reuse" used in responsible party's platform Carbon Loop Calculator, including quantity of raw materials, virgin material extraction emission factor, recycling rate, asset weight, landfill emission factor, combustion emission factor, downstream processing emission factor, and years of 1st and 2nd life, are verified in compliance with the requirements of ISO 14067:2018, ISO 14040:2006, ISO 14044:2006;** **The input data used to calculate metrics "Emissions from site processing", "Emissions from transport", and "Energy used for processing" used in responsible party's platform Carbon Loop Calculator in compliance with the requirements of the GHG Protocol Corporate Standard**
Materiality:	**Deviation is less than 5% of total emissions**
Level of Assurance:	**Reasonable assurance level**
Verification Conclusion:	**The input data used to calculate the metric "Avoided GHG emission associated with TES-AMM circular service from Recycling and reuse" used in responsible party's platform Carbon Loop Calculator from 2025-01-01 to 2025-12-31 meet the requirements of ISO 14067:2018, ISO 14040:2006, ISO 14044:2006, and that the data and information are based on historical fact and reliable source and there is no major discrepancy.** **- The input data used to calculate the metrics "Emissions from site processing", "Emissions from transport", and "Energy used for processing" used in responsible party's platform Carbon Loop Calculator from 2025-01-01 to 2025-12-31 meet the requirements of GHG Protocol Corporate Standard, and that the data and information are based on historical fact and there is no major discrepancy.**

The objective of product carbon footprint accounting platform input data verification is to confirm the accuracy and conformity of the input data in the verification scope according to verification criteria. The product carbon footprint accounting platform input data verification statement is issued by TÜV SÜD, acting as the third-party, based upon the information provided from the responsible party. The data and information supporting the verified input data were historical and from reliable source in nature. The responsible party is responsible for the verified input data and its conformity with the applicable specified requirements. This statement does not relieve the responsible party from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations.

Issue Date: 2026-10-23

(April He)

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Verification Scope: **The input parameters of the metrics (the metrics referenced herein are detailed in Table 1) used in responsible party's platform Carbon Loop Calculator from 2025-01-01 to 2025-12-31.**
The site-specific input data used to calculate "Emissions from site processing", "Emissions from transport", and "Energy used for processing" metrics has been independently verified by TÜV SÜD.

Table 1 Metrics and input parameters used in responsible party's platform Carbon Loop Calculator

No.	Metric	Input Parameter
1	Avoided GHG emission associated with TES-AMM circular service: Recycling	*quantity of raw materials; virgin material extraction EF; recycling rate; asset weight; landfill EF; combustion EF; emissions from site processing; downstream processing EF*
2	Avoided GHG emission associated with TES-AMM circular service: Reuse	*manufacturing EF; years of 1st life; years of 2nd life; emissions from site processing*
3	Emissions from site processing: Used in No.1&2 Metrics	*scope1 emissions; scope2 emissions; scope3 emissions; total volume processed*
4	Emissions from transport	*scope 1 mobile emissions; scope 3 category 4 emissions; total distance travelled*
5	Energy used for processing	*total energy used; total volume processed*

***Scope1 emission parameter in the "Emissions from site processing" excludes scope 1 mobile emissions**
***Scope3 emission parameter in the "Emissions from site processing" excludes and scope 3 category 4 emissions**
***The method for selecting site-specific data used by the platform to calculate the metrics "Emissions from site processing", "Emissions from transport", and "Energy used for processing" is detailed in the Research Manual On the Lifecycle Assessment of Information Technology Devices Including Analysis of Their First and Second Life (Revision No. 1.2), which has been independently validated by TÜV SÜD.**

Verification Findings:

- The input data used to calculate the metrics "Emissions from site processing", "Emissions from transport", and "Energy used for processing" is defined as site-specific data. The specific values for each site are presented in Tables 2 to Table 4.

Table 2 Input Parameters for "Emissions from Site Processing" metrics for each site

Site	Total asset processed by site (kg)	Scope 1 Emissions ($kgCO_2e$)	Scope 2 Emissions ($kgCO_2e$)	Scope 3 Emissions ($kgCO_2e$)
TES-AMM Australia Pty Limited (NSW(Sydney))	3549944	23268.2	149300.0	392592.1
TES-AMM Australia Pty Limited (Queensland)	70455	5879.0	8841.3	36523.7
TES-AMM Australia Pty Limited (Victoria)	2910337	19328.6	60600.0	329981.8

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Site	Total asset processed by site(kg)	Scope 1 Emissions ($kgCO_2e$)	Scope 2 Emissions ($kgCO_2e$)	Scope 3 Emissions ($kgCO_2e$)
TES-AMM (Beijing) Co. Limited	2690459	32177.0	191370.1	292616.5
TES-AMM (Guangzhou) Company Limited	8667803	23833.2	205090.2	632172.8
TES-AMM Corporation (China) LTD	23188247	86584.8	1475573.4	3024311.8
TES-AMM(Suzhou)E-waste Solutions Co. Limited	31345709	92983.1	508242.4	634437.3
TES-AMM Central Europe GmBH (Herten)	3273945	12861.2	105737.8	1959285.6
TES-AMM Central Europe GmBH (Recklinghausen)	923850	342674.4	98908.7	1915571.6
TES-AMM Espana Asset Recovery and Recycling SL	165816	3676.7	9805.2	920720.9
TES Sustainable Battery Solutions France	221201	3649.5	2719.6	94037.1
Integrations Et Services	0	0.0	2166.1	518783.8
TES-AMM SAS	219146	4123.1	4716.1	1049192.6
TES-AMM (H.K) Limited (On Luk Mun)	297522	56354.1	40404.0	51418.4
PT TES-AMM Indonesia	9914203	9933.6	37416.3	478351.1
TES-AMM Italia SRL	92760	0.0	8119.0	74600.3
TES-AMM Japan K.K.	766810	58992.4	191002.0	358299.5
TES-AMM(Cambodia) Co. Limited	24175	88.8	2838.6	10414.5
TES-AMM(Malaysia) Sendirian Berhad (Johor Bahru)	1106105	168327.0	219995.3	235174.2
TES-AMM(Malaysia) Sendirian Berhad (Penang)	97686	2331.7	14879.9	48350.6
TES Sustainable Battery Solutions B.V.	504280	4361.1	34342.7	311865.2
TES-AMM Philippines Inc	124525	2222.1	14907.7	40840.2
TES Total Environmental Solutions AB	193968	14190.0	0.00	345002.7
TES-AMM (Singapore) Private Limited (Benoi sector)	7589821	113939.3	397131.8	1574993.3
TES-AMM (Singapore) Private Limited (Pioneer Place)	387839	0.0	77223.8	103652.5

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Site	Total asset processed by site(kg)	Scope 1 Emissions ($kgCO_2e$)	Scope 2 Emissions ($kgCO_2e$)	Scope 3 Emissions ($kgCO_2e$)
TES B Private Limited	2493420	22745.2	368358.2	527714.3
Total Environmental Solutions Co. Limited	7936596	50713.8	43943.1	463685.8
TES-AMM(Taiwan)Co. Limited	874827	31367.7	16041.3	70443.3
TES UK Limited	915805	144289.9	0.0	5729617.9
TES-AMM (Europe) Limited	4537755	117989.6	48493.4	257323.8
TES USA Inc (Atlanta)	1541840	15421.6	0.0	1951122.4
TES USA Inc (Las Vegas)	2529638	1460.1	0.0	860812.7
TES USA Inc (Seattle)	2013593	391866.6	57920.6	804054.2
TES USA Inc (Virginia)	6398633	124523.6	135086.4	1715854.7
TES-AMM (Vietnam) Company Limited (Hanoi)	7736	40.0	4400.6	88395.2
TES-AMM (Vietnam) Company Limited (HoChiMinh)	95522	2361.0	6454.2	26112.0
GenPlus Pte Limited	N/A	2234.2	15774.5	1473027.8

Table 3 Input Parameters for "Energy used for processing" metrics for each site

Unit: GJ

Site	Total Non-renewable Energy Used (scope 1-fuels)	Total Non-renewable Energy Used (scope 2-electricity/heat)	Total Renewable Energy Used (electricity/heat)
TES-AMM Australia Pty Limited (NSW(Sydney))	353.8	978.2	0.0
TES-AMM Australia Pty Limited (Queensland)	87.0	39.3	0.0
TES-AMM Australia Pty Limited (Victoria)	285.1	252.4	157.9
TES-AMM(Beijing)Co. Limited	494.7	1130.1	0.0
TES-AMM (Guangzhou) company Limited	390.7	1211.2	0.0
TES-AMM Corporation (China) LTD	1399.3	8714.0	1562.4
TES-AMM (Suzhou)E-waste Solutions Co. Limited	1383.4	3001.4	2160.0
TES-AMM Central Europe GmBH (Herten)	203.5	3035.4	0.0
TES-AMM Central Europe GmBH (Recklinghausen)	4446.8	707.9	0.0
TES-AMM Espana Asset Recovery and Recycling SL	54.5	229.2	0.0

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Site	Total Non-renewable Energy Used (scope 1-fuels)	Total Non-renewable Energy Used (scope 2-electricity/heat)	Total Renewable Energy Used (electricity/heat)
TES Sustainable Battery Solutions France	48.4	457.3	0.0
Integrations Et Services	0.0	364.2	0.0
TES-AMM SAS	60.9	793.0	0.0
TES-AMM (H.K) Limited (On Luk Mun)	282.5	238.5	0.0
PT TES-AMM Indonesia	151.2	168.4	0.0
TES-AMM Italia SRL	0	66.2	0.0
TES-AMM Japan K.K.	906.4	1595.4	0.0
TES-AMM(Cambodia) Co. Limited	1.4	18.1	0.0
TES-AMM(Malaysia) Sendirian Berhad (Johor Bahru)	2156.8	1070.2	0.0
TES-AMM(Malaysia) Sendirian Berhad (Penang)	38.1	72.4	0.0
TES Sustainable Battery Solutions B.V.	71.5	3359.6	0.0
TES-AMM Philippines Inc	32.8	77.4	0.0
TES Total Environmental Solutions AB	210.3	0.0	394.4
TES-AMM (Singapore) Private Limited (Benoi sector)	1166.6	3556.4	2649.8
TES-AMM (Singapore) Private Limited (Pioneer Place)	0.0	691.6	0.0
TES B Private Limited	368.8	3298.7	1548.6
Total Environmental Solutions Co. Limited	756.2	396.5	345.8
TES-AMM(Taiwan)Co. Limited	484.5	121.8	0.0
TES UK Limited	2278.7	0.0	1762.6
TES-AMM(Europe) Limited	1779.2	554.2	0.0
TES USA Inc (Atlanta)	273.9	0.0	487.4
TES USA Inc (Las Vegas)	25.9	0.0	838.8
TES USA Inc (Seattle)	6097.0	723.5	85.4
TES USA Inc (Virginia)	2211.6	1807.7	0.0
TES-AMM (Vietnam) Company Limited (Hanoi)	0.0	25.1	0.0

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Site	Total Non-renewable Energy Used (scope 1 -fuels)	Total Non-renewable Energy Used (scope 2-electricity/heat)	Total Renewable Energy Used (electricity/heat)
TES-AMM(Vietnam) Company Limited (HoChiMinh)	0.0	35.2	0.0
GenPlus Pte Limited	40.9	141.3	0.0

Table 4 Input Parameters for "Emissions from transport" metrics for each site

Site	Emissions($kgCO_2e$)		Distance (km)	
	Scope 1 mobile	Scope 3 Category 4	Scope 1 mobile	Scope 3 Category 4
TES-AMM Australia Pty Limited (NSW (Sydney))	23270.0	89316.0	59985.1	2498395.0
TES-AMM Australia Pty Limited (Queensland)	5880.0	25.0	14937.7	2184.0
TES-AMM Australia Pty Limited (Victoria)	19330.0	142338.0	45987.2	4880338.0
TES-AMM(Beijing) Co. Limited	32180.0	44385.0	95855.0	48369.0
TES-AMM (Guangzhou) company Limited	23830.0	284579.0	161785.3	269288.0
TES-AMM Corporation (China) LTD	86520.0	1356180.0	405084.1	757136.0
TES-AMM (Suzhou) E-waste Solutions Co. Limited	92980.0	12691.0	57126.0	19021.0
TES-AMM Central Europe GmBH (Herten)	12840.0	1646571.0	0.0	2627356.0
TES-AMM Central Europe GmBH (Recklinghausen)	284040.0	1295971.0	947534.0	2089629.0
TES-AMM Espana Asset Recovery and Recycling SL	3680.0	856680.0	14480.5	5914.0
TES Sustainable Battery Solutions France	2950.0	13615.0	19006.0	0.0
Integrations Et Services	0.0	494736.0	0.0	1400.0
TES-AMM SAS	4120.0	744062.0	13620.0	178177.0
TES-AMM (H.K) Limited (On Luk Mun)	19140.0	14139.0	37365.0	471.0
PT TES-AMM Indonesia	9800.0	374708.0	13155.0	365987.0
TES-AMM Italia SRL	0.0	56432.0	0.0	72716.0
TES-AMM Japan K.K.	58990.0	138228.0	171653.0	70196.0

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Site	Emissions($kgCO_2e$)		Distance(km)	
	Scope 1 mobile	Scope 3 Category 4	Scope 1 mobile	Scope 3 Category 4
TES-AMM (Cambodia)Co. Limited	70.0	0.0	1700.0	0.0
TES-AMM(Malaysia) Sendirian Berhad (Johor Bahru)	145770.0	43708.0	219582.0	56805.0
TES-AMM(Malaysia) Sendirian Berhad (Penang)	2320.0	818.0	11000.0	1050.0
TES Sustainable Battery Solutions B.V.	4360.0	24202.0	27227.0	0.0
TES-AMM Philippines Inc	2220.0	16601.0	2604.0	50022.0
TES Total Environmental Solutions AB	14190.0	280794.0	44598.0	277631.0
TES-AMM (Singapore)Private Limited (Benoi sector)	77650.0	123605.0	72328.0	362830.0
TES-AMM (Singapore) Private Limited (Pioneer Place)	0.0	228.0	0.0	251.0
TES B Private Limited	0.0	264.0	0.0	260.0
Total Environmental Solutions Co. Limited	50713.8	190921.0	107065.1	174505.0
TES-AMM(Taiwan) Co. Limited	31370.0	10299.0	100933.0	3466.0
TES UK Limited	94220.0	5426434.0	375615.6	315752.0
TES-AMM(Europe) Limited	104980.0	8797.0	646869.8	5056.0
TES USA Inc (Atlanta)	0.0	1342944.0	0.0	1343831.0
TES USA Inc (Las Vegas)	0.0	528822.0	0.0	529171.0
TES USA Inc (Seattle)	286280.0	272874.0	977128.1	273054.0
TES USA Inc (Virginia)	0.0	1048745.0	0.0	1049438.0
TES-AMM (Vietnam) Company Limited (Hanoi)	0.0	71247.0	0.0	120919.0
TES-AMM(Vietnam) Company Limited (HoChiMinh)	0.0	15559.0	0.0	23586.0
GenPlus Pte Limited	2230.0	0.0	N/A	N/A

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- For the input parameters of secondary data and emission factors, the data mainly consists of recognized reliable databases (e.g., the Ecoinvent database). However, due to the limited availability of internationally recognized datasets for certain secondary data inputs, responsible party has relied on a combination of publicly available literature and internal expertise to source these parameters. They have been checked as relevant and representative for the verification period. Please refer to Table 5 for details.

- The input parameter "asset weight" has not been checked back to its primary data sources (e.g., weighing records, on-site documents). However, this parameter has been confirmed to be derived from responsible party's internal asset management system, Circle, which ensures the traceability of weight data for all incoming assets processed by the organization.

Table 5 The information of the input parameter of secondary data and emission factors

Input Parameter Name	Data Source
quantity of raw materials	Extract the percentage of each raw material component corresponding to the assets from the ecoQuery 3.10 database, scientific studies and internal research. Then multiply this percentage by the weight of the asset.
virgin material extraction EF	Ecoinvent 3.9.1 cutoff database
recycling rate	1.Basic metals (aluminum,zinc,etc.): External research. 2.Plastics: Primarily sourced from the U.S.Department of Energy website. 3. Complex components:The percentage table of constituent components obtained from the ecoQuery 3.10 database,scientific studies and internal research was multiplied by the basic material recovery rate to obtain.
downstream processing EF	Ecoinvent database 3.10 and external scientific studies
landfillEF and combustion EF	GHG Conversion Factors from Department for Energy Security and Net Zero in UK
manufacturing EF	Ecoinvent 3.9.1 cutoff database and external scientific studies
years of 1st and 2nd life	Internal TES Circle system data and external research

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