Furnishing Knowledge®

Declaration Owner

KI
1330 Bellevue Street, Green Bay, WI 54302
www.ki.com

KI is a contract furniture company that manufactures innovative furniture and movable wall systems for educational, university, business and government market.

Products

Athens	*Portico*
Connection Zone	*Toggle*
InTandem	*Trek*
Pillar	*Workup*
Pirouette	*Worksurface only*

Functional Unit

The functional unit is one table, serving the function of a typical office table for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life. The reference unit used in the study is one complete table.

EPD Number and Period of Validity

SCS-EPD-08357
EPD Valid November 3, 2022 through November 2, 2027

Product Category Rule

Product Category Rule for Furniture, Except Seats and Mattresses Product Group Classification: UN CPC Codes 3812/3813/3814. International EPD® System. 2012:19. Version 2.01. August 2019.

Program Operator

SCS Global Services
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Declaration Owner:	KI
Address:	1330 Bellevue Street, Green Bay, WI
Declaration Number:	SCS-EPD-08357
Declaration Validity Period:	EPD Valid November 3, 2022 through November 2, 2027
Program Operator:	SCS Global Services
Declaration URL Link:	https://www.scsglobalservices.com/certified-green-products-guide
Product:	Office Tables. See list on cover page.
LCA Practitioner:	Gerard Mansell, PhD., SCS Global Services
LCA Software:	OpenLCA v1.10 & ecoinvent v3.8
Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071	☐ internal ☒ external
LCA Reviewer:	Thomas Gloria, Ph.D., Industrial Ecology Consultants
Product Category Rule:	Product Category Rule for Furniture, Except Seats and Mattresses Product Group Classification: UN CPC Codes 3812/3813/3814. International EPD® System. 2012:19. Version 2.01. August 2019.
PCR Review conducted by:	Thomas Gloria Ph.D., Industrial Ecology Consultants
Independent verification of the declaration and data, according to ISO 14025 and the PCR	☐ internal ☒ external
EPD Verifier:	Thomas Gloria, Ph.D., Industrial Ecology Consultants
Declaration Contents:	

Disclaimers: *This EPD conforms to ISO 14025, 14040 and 14044. The EPD owner has the sole ownership, liability, and responsibility for the EPD.*

Scope of Results Reported: *The PCR requirements limit the scope of the LCA metrics such that the results exclude environmental and social performance benchmarks and thresholds, and exclude impacts from the depletion of natural resources, land use ecological impacts, ocean impacts related to greenhouse gas emissions, risks from hazardous wastes and impacts linked to hazardous chemical emissions.*

Accuracy of Results: *Due to PCR constraints, this EPD provides estimations of potential impacts that are inherently limited in terms of accuracy.*

Comparability: *The PCR this EPD was based on was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.*

EPD Validity: *An EPD should provide current information, and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at https://www.scsglobalservices.com/*

ABOUT KI

At KI, we believe knowing our customers helps us serve them better. We listen. We observe. We understand that each customer has unique needs. So, we pride ourselves on helping our customers make smart contract furniture decisions by offering expert advice, design options and personalized solutions.

Since 1941, we've positioned KI as the contract furniture company that best understands the contract furniture industry and is committed to providing customers with the smart solutions. By targeting specific markets with solutions for business furniture, university furniture, educational furniture, healthcare furniture and government furniture, we can quickly respond to our customers' unique needs – including the choice to procure contract furniture according to what fits their ordering and fulfillment process. That's why we say we offer far more than furniture. We're Furnishing Knowledge.

PRODUCT DESCRIPTION

KI Office Tables are manufactured at an ISO 9001 facility in Bonduel, Wisconsin. A description of each product included in this EPD is shown below.

Athens

Athens tables bring people together, inspiring conversation and collaboration. Whether it's to grab a bite to eat or engage in lively conversation, the Athens table is perfect for cafes, lounges, student unions - anywhere people gather. Designed to complement virtually any decor, Athens cafeteria tables are available in a variety of sizes and finishes. Built to last, Athens bases are constructed of steel for superior wear versus cast-iron bases.

Connection Zone

Connection Zone's unique telescoping base supports change. Worksurfaces may be easily removed or added to a base - expanding or contracting work areas. Optional privacy screens, dividers and modesty panels enable users to define personal space and establish a higher degree of privacy in open, collaborative environments. Connection Zone Benching's innovative sliding worksurface offers easy access to power and the wire trough underneath the worksurface manages power cabling.

InTandem

The InTandem training table is the easiest way to access power and data for worksurfaces. Technicians can access wires, while users remain at the tables. InTandem training tables can be configured back-to-back or side-by-side. The contemporary table design supports any training environment. InTandem training tables are built tough to endure the day-to-day abuse of training environments. Our quality craftsmanship is backed by a lifetime warranty.

Pillar

Pillar tables are defined by clean lines, a simple leg, and a multitude of configurable top shapes. Simple and straightforward, Pillar tables provide a place to gather, an area to create, or a spot to focus. In education environments, Pillar tables empower learners to take an active role in their learning process. From elementary classrooms to corporate training rooms, users can arrange Pillar tables into endless configurations for that "just right" learning environment.

Pirouette

Designed by Giancarlo Piretti, the innovative articulating leg of Pirouette creates a leg-within-leg nesting solution unlike any other. As Pirouette's top is raised, the legs articulate. When in use, Pirouette's clean design profile sets it apart from standard nesting tables. Pirouette easily reconfigures and nests for simple storage and adaptability. Pirouette's unique design accommodates two-sided usage, giving ample leg room to those seated on either side of a table.

Portico

The clean, simple lines of the Portico table lend a uniform appearance to any room. Portico tables are affordable without sacrificing design options or durability. Portico tables are available in many shapes, sizes and leg styles, giving you the options to define the look and functionality of any environment. Optional casters allow the tables to move effortlessly and quickly. Colored end caps and trim pieces provide subtle accents or sharp contrasts. Specify Portico tables for an enjoyable, functional space at an economical price.

Toggle

Featuring value and versatility at its best, Toggle adjustable tables extend the benefits of electronically-modulated sit-stand work surfaces to everyone. Affordable features and durable design allow Toggle to transform the workplace with healthy flexibility and mass appeal. Toggle tables offer a wide-ranging height adjustment of 26 to 52 inches. Toggle's clean T-base design and absence of a low-hanging crossbar allow the table to be used from both sides, promoting user comfort and enhancing versatility.

Trek

Great design and superior functionality are hallmarks of Trek tables. Trek tables feature a modern look for any application. The angled profile of the Trek leg is a departure from typical floor-hugging bases. Oversized, two-toned glides and casters give the leg a dramatic finish. Unique edges offer subtle visual accents. For multi-purpose rooms that support conferencing or for training rooms with space issues, the flip top Trek table helps maximize limited storage space.

Workup

Movement is natural and necessary, and it should be encouraged in the workplace. Intuitive, height-adjustable work surfaces, such as KI's WorkUp® Adjustable Table, are the ideal solution. WorkUp delivers easy-to-use adjustability with a clean design and consistent profile. Within a classroom, library, or other learning environment, WorkUp offers the unique ability to adapt to users' needs and study styles. WorkUp provides a wide range of height-adjustability within an efficient statement of line.

Worksurface only

KI worksurfaces come in a wide variety of shapes, sizes, edge styles, and laminate options

PRODUCT SPECIFICATIONS

Product specifications of the KI Office Tables included in this EPD are shown in Table 1.

Table 1. *Product specifications of the KI Office Tables.*

Product Name	Worksurface Dimension (in. x in.)	Worksurface Area (sq. ft.)	Table Weight (including packaging) (kg)
Athens	36.25 x 36.25	9.13	46.61
Connection Zone	30.25 x 36.25	7.62	57.10
InTandem	24.25 x 42.25	7.12	46.37
Pillar	36.25 x 36.25	9.13	42.04
Pirouette	30.25 x 60.25	12.7	67.01
Portico	36.25 x 36.25	9.13	42.29
Toggle	35.50 x 35.50	8.75	47.34
Trek	30.25 x 48.25	10.1	41.25
Workup	24.25 x 42.25	7.12	37.56
Worksurface only	36.25 x 36.25	9.13	43.89

MATERIAL COMPOSITION

Table 2. *Material composition of the KI Office Tables and packaging. Results are shown on a mass basis (kg/unit) and as a percent of total. (Models: Athens, Connection Zone, InTandem, Pillar, Pirouette)*

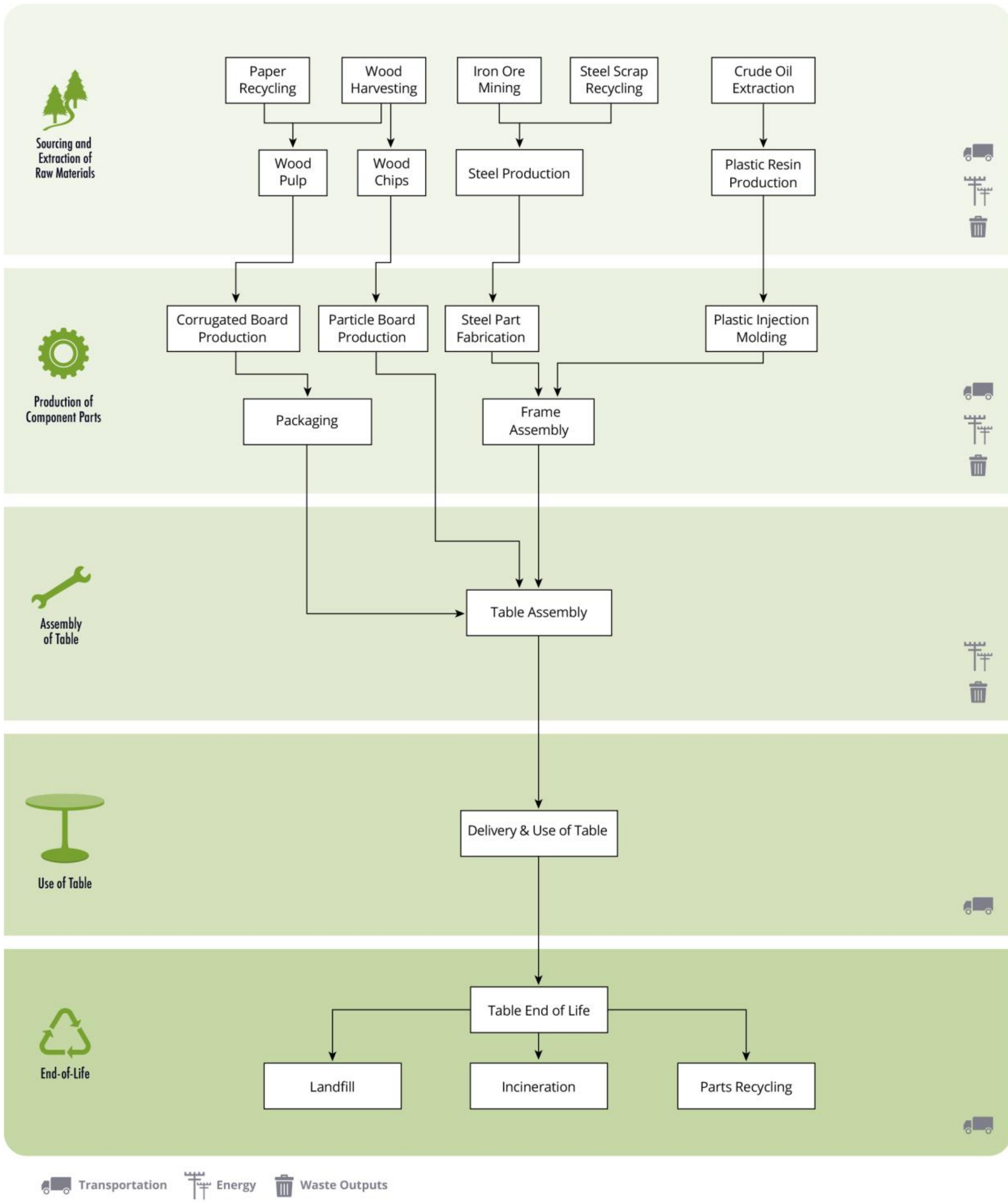
Material	Athens	Connection Zone	InTandem	Pillar	Pirouette
Product					
Particleboard	16.4	16.4	15.3	16.4	28.6
	54%	40%	51%	64%	56%
Steel	11.3	16.7	9.98	7.71	15.2
	37%	41%	33%	30%	30%
Laminate	1.08	2.86	1.85	0.320	0.773
	3.6%	7%	6.1%	1.2%	1.5%
Plastics	1.08	2.86	1.85	0.320	0.773
	3.6%	7%	6.1%	1.2%	1.5%
Other	1.53	4.94	2.98	1.36	6.17
	5%	12%	9.9%	5.3%	12%
Total Product	**30.4**	**40.9**	**30.1**	**25.8**	**50.8**
	100%	**100%**	**100%**	**100%**	**100%**
Packaging					
Corrugate	1.40	1.40	1.40	1.40	1.40
	8.6%	8.6%	8.6%	8.6%	8.6%
Plastic	1.22	1.22	1.22	1.22	1.22
	7.5%	7.5%	7.5%	7.5%	7.5%
Wood	13.6	13.6	13.6	13.6	13.6
	84%	84%	84%	84%	84%
Total Packaging	**16.2**	**16.2**	**16.2**	**16.2**	**16.2**
	100%	**100%**	**100%**	**100%**	**100%**

Table 3. *Material composition of the KI Office Tables and packaging. Results are shown on a mass basis (kg/unit) and as a percent of total. (Models: Portico, Toggle, Trek, Workup, Worksurface only)*

Material	Portico	Toggle	Trek	Workup	Worksurface only
Product					
Particleboard	16.4	19.7	16.4	15.3	26.3
	63%	63%	66%	72%	95%
Steel	7.58	4.55	6.34	0.160	0.00
	29%	15%	25%	0.75%	0%
Laminate	0.680	1.77	0.738	0.540	0.630
	2.6%	5.7%	2.9%	2.5%	2.3%
Plastics	0.680	1.77	0.738	0.540	0.630
	2.6%	5.7%	2.9%	2.5%	2.3%
Other	1.38	5.07	1.52	5.30	0.734
	5.3%	16%	6.1%	25%	2.7%
Total Product	**26.1**	**31.1**	**25.0**	**21.3**	**27.7**
	100%	**100%**	**100%**	**100%**	**100%**
Packaging					
Corrugate	1.40	1.40	1.40	1.40	1.40
	8.6%	8.6%	8.6%	8.6%	8.6%
Plastic	1.22	1.22	1.22	1.22	1.22
	7.5%	7.5%	7.5%	7.5%	7.5%
Wood	13.6	13.6	13.6	13.6	13.6
	84%	84%	84%	84%	84%
Total Packaging	**16.2**	**16.2**	**16.2**	**16.2**	**16.2**
	100%	**100%**	**100%**	**100%**	**100%**

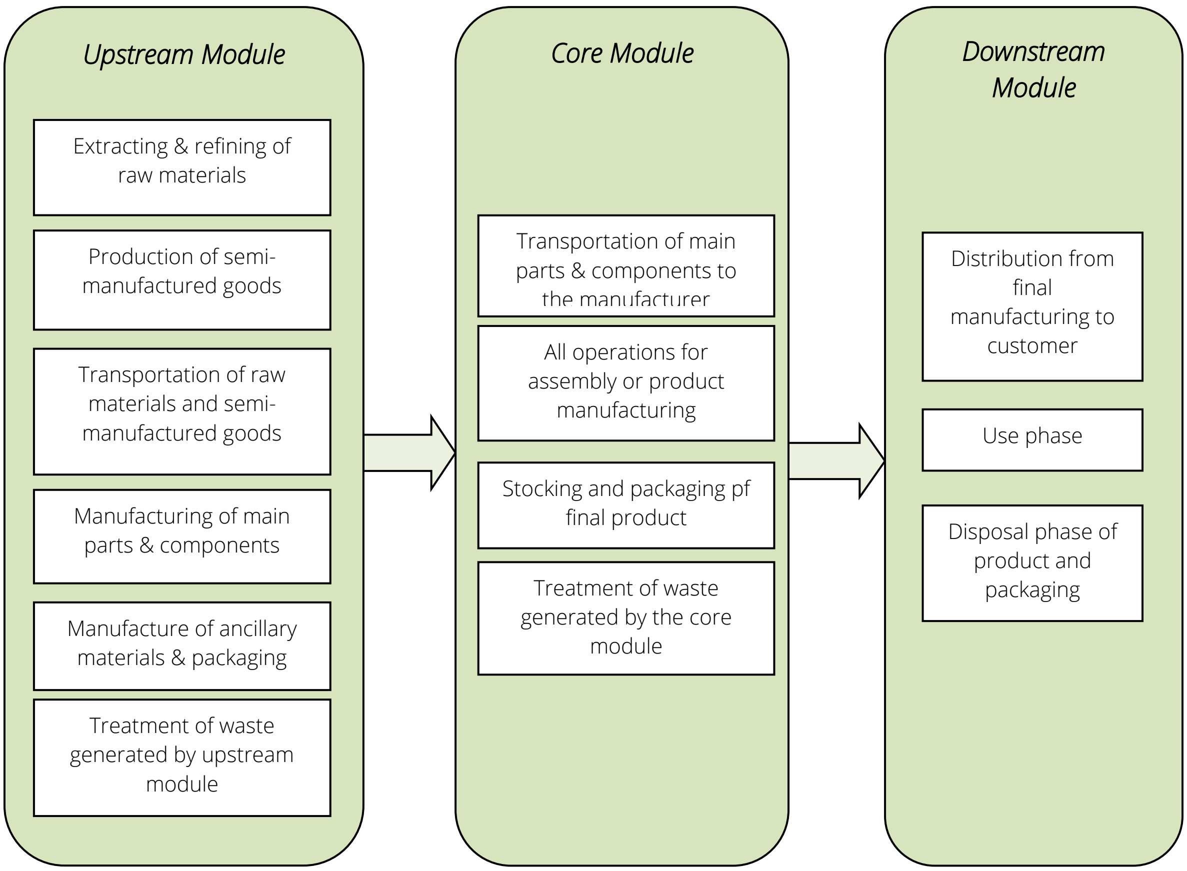
PRODUCT LIFE CYCLE FLOW DIAGRAM

The diagram below is a representation of the most significant contributions to the life cycle of KI Office Tables.



LIFE CYCLE ASSESSMENT STAGES

The system boundary is cradle-to-grave and includes resource extraction and processing, product manufacture and assembly, distribution/transport, use and maintenance, and end-of-life. The diagram below illustrates the life cycle stages included in this EPD.



LIFE CYCLE IMPACT ASSESSMENT

Impact category indicators are calculated using the CML-IA and TRACI 2.1 characterization methods. TRACI 2.1 impact category indicators include global warming potential (100 years), acidification potential, smog potential, ozone depletion potential, and eutrophication potential. CML-IA impact category indicators include global warming potential (100 years), acidification potential, eutrophication potential, Photochemical Ozone Creation potential, ozone depletion potential, and abiotic resource depletion, in accordance with the PCR. In addition, an estimate of the impacts from land use are reported (based on the ReCiPe methodology) as are human toxicity and ecotoxicity impacts (based on the USEtox methodology). The PCR requires that several parameters be reported in the EPD, including resource use, waste categories and output flows, and other environmental information. The results for these parameters per declared unit are also included below. *Note - INA = Indicator Not Assessed.*

Table 4. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Athens*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	67.6	35.8	19.0	122
	%	55%	29%	16%	100%
Acidification	kg SO_2 eq	0.265	0.148	6.17×10^{-2}	0.475
	%	56%	31%	13%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	0.121	6.26×10^{-2}	8.78×10^{-2}	0.271
	%	45%	23%	32%	100%
Photochemical oxidation	kg C_2H_4 eq	2.73×10^{-2}	9.57×10^{-3}	2.69×10^{-3}	3.95×10^{-2}
	%	69%	24%	6.8%	100%
Ozone layer depletion	kg CFC-11 eq	3.94×10^{-6}	1.55×10^{-6}	2.64×10^{-6}	8.14×10^{-6}
	%	48%	19%	32%	100%
Abiotic depletion (fossil fuels)	MJ	6.70×10^{-4}	9.64×10^{-5}	4.74×10^{-5}	8.14×10^{-4}
	%	82%	12%	5.8%	100%
Abiotic depletion	kg Sb eq	822	469	224	1,510
	%	54%	31%	15%	100%
TRACI					
Global warming	kg CO_2 eq	66.8	34.7	18.5	120
	%	56%	29%	15%	100%
Acidification	kg N eq	0.280	0.150	7.29×10^{-2}	0.502
	%	56%	30%	15%	100%
Eutrophication	kg N eq	0.245	0.135	0.221	0.600
	%	41%	22%	37%	100%
Smog formation	kg O_3 eq	4.12	1.88	1.80	7.81
	%	53%	24%	23%	100%
Ozone depletion	kg CFC-11 eq	4.96×10^{-6}	2.07×10^{-6}	3.52×10^{-6}	1.05×10^{-5}
	%	47%	20%	33%	100%
Fossil fuel depletion	MJ surplus	74.4	56.1	32.2	163
	%	46%	34%	20%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	66.6	31.7	16.5	115
	%	58%	28%	14%	100%
Climate change - biogenic	kg CO_2 eq	11.1	10.3	12.6	34.0
	%	33%	30%	37%	100%
Climate change - land use and land transformation	kg CO_2 eq	0.107	3.24×10^{-2}	6.13×10^{-3}	0.146
	%	74%	22%	4.2%	100%
Climate change - CO2 uptake	kg CO_2 eq	-13.4	-34.4	-6.35×10^{-2}	-47.9
	%	28%	72%	0.13%	100%
Other Indicators					
Human toxicity, cancer	cases	3.91×10^{-5}	2.29×10^{-6}	1.17×10^{-6}	4.25×10^{-5}
	%	92%	5.4%	2.7%	100%
Human toxicity, non-cancer	cases	1.52×10^{-5}	8.56×10^{-6}	3.79×10^{-6}	2.76×10^{-5}
	%	55%	31%	14%	100%
Freshwater ecotoxicity	PAF.m^3.day	948,000	1.01×10^{6}	485,000	2.44×10^{6}
	%	39%	41%	20%	100%
Land use	species.yr	7.75×10^{-8}	2.13×10^{-7}	4.75×10^{-9}	2.96×10^{-7}
	%	26%	72%	1.6%	100%
Water use - AWARE	m^3	26.9	13.4	1.28	41.6
	%	65%	32%	3.1%	100%

Table 5. *Resource use and waste flows by life cycle phase for the KI* ***Athens*** *Office Table. Results are shown for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	188	387	2.43	577
	%	33%	67%	0.42%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	198	415	2.48	615
	%	32%	67%	0.4%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	868	479	227	1,570
	%	55%	30%	14%	100%
Use of secondary materials	kg	18.4	0.00	0.00	18.4
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	2.99	1.75	0.154	4.90
	%	61%	36%	3.1%	100%
Wastes					
Hazardous waste disposed	kg	2.83×10^{-3}	3.61×10^{-4}	5.94×10^{-4}	3.78×10^{-3}
	%	75%	9.5%	16%	100%
Non-hazardous waste disposed	kg	18.9	9.35	43.3	71.6
	%	26%	13%	60%	100%
High-level radioactive waste	kg	2.01×10^{-4}	3.49×10^{-5}	1.09×10^{-5}	2.47×10^{-4}
	%	81%	14%	4.4%	100%
Intermediate and low-level radioactive waste	kg	1.67×10^{-3}	3.72×10^{-4}	1.48×10^{-3}	3.52×10^{-3}
	%	47%	11%	42%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	5.03	5.03
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 6. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Connection Zone*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	123	44.9	25.6	194
	%	64%	23%	13%	100%
Acidification	kg SO_2 eq	0.515	0.185	7.59×10^{-2}	0.776
	%	66%	24%	9.8%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	0.211	7.87×10^{-2}	0.105	0.395
	%	54%	20%	27%	100%
Photochemical oxidation	kg C_2H_4 eq	5.26×10^{-2}	1.14×10^{-2}	3.58×10^{-3}	6.76×10^{-2}
	%	78%	17%	5.3%	100%
Ozone layer depletion	kg CFC-11 eq	8.82×10^{-6}	1.88×10^{-6}	3.24×10^{-6}	1.39×10^{-5}
	%	63%	13%	23%	100%
Abiotic depletion (fossil fuels)	MJ	1.31×10^{-3}	1.09×10^{-4}	5.82×10^{-5}	1.47×10^{-3}
	%	89%	7.4%	3.9%	100%
Abiotic depletion	kg Sb eq	1,650	569	275	2,490
	%	66%	23%	11%	100%
TRACI					
Global warming	kg CO_2 eq	122	43.5	24.7	190
	%	64%	23%	13%	100%
Acidification	kg N eq	0.538	0.186	8.97×10^{-2}	0.813
	%	66%	23%	11%	100%
Eutrophication	kg N eq	0.421	0.171	0.263	0.854
	%	49%	20%	31%	100%
Smog formation	kg O_3 eq	8.07	2.25	2.21	12.5
	%	64%	18%	18%	100%
Ozone depletion	kg CFC-11 eq	1.08×10^{-5}	2.50×10^{-6}	4.31×10^{-6}	1.76×10^{-5}
	%	61%	14%	24%	100%
Fossil fuel depletion	MJ surplus	169	67.5	39.5	276
	%	61%	24%	14%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	122	39.5	21.5	183
	%	67%	22%	12%	100%
Climate change - biogenic	kg CO_2 eq	11.7	12.6	15.4	39.7
	%	30%	32%	39%	100%
Climate change - land use and land transformation	kg CO_2 eq	0.193	3.31×10^{-2}	7.56×10^{-3}	0.233
	%	83%	14%	3.2%	100%
Climate change - CO2 uptake	kg CO_2 eq	-12.5	-34.8	-7.83×10^{-2}	-47.4
	%	26%	73%	0.17%	100%
Other Indicators					
Human toxicity, cancer	cases	5.89×10^{-5}	2.66×10^{-6}	1.64×10^{-6}	6.32×10^{-5}
	%	93%	4.2%	2.6%	100%
Human toxicity, non-cancer	cases	2.67×10^{-5}	1.09×10^{-5}	6.46×10^{-6}	4.41×10^{-5}
	%	60%	25%	15%	100%
Freshwater ecotoxicity	PAF.m^3.day	1.70×10^{6}	1.32×10^{6}	917,000	3.94×10^{6}
	%	43%	34%	23%	100%
Land use	species.yr	7.52×10^{-8}	2.15×10^{-7}	5.82×10^{-9}	2.96×10^{-7}
	%	25%	73%	2%	100%
Water use - AWARE	m^3	54.3	15.8	1.61	71.8
	%	76%	22%	2.2%	100%

Table 7. *Resource use and waste flows by life cycle phase for the KI* ***Connection Zone*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	216	394	3.01	613
	%	35%	64%	0.49%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	226	422	3.07	651
	%	35%	65%	0.47%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	1,750	580	278	2,610
	%	67%	22%	11%	100%
Use of secondary materials	kg	15.3	0.00	0.00	15.3
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	5.76	2.16	0.191	8.11
	%	71%	27%	2.4%	100%
Wastes					
Hazardous waste disposed	kg	4.50×10^{-3}	4.29×10^{-4}	7.30×10^{-4}	5.66×10^{-3}
	%	80%	7.6%	13%	100%
Non-hazardous waste disposed	kg	32.6	12.0	53.1	97.7
	%	33%	12%	54%	100%
High-level radioactive waste	kg	3.57×10^{-4}	3.67×10^{-5}	1.36×10^{-5}	4.07×10^{-4}
	%	88%	9%	3.3%	100%
Intermediate and low-level radioactive waste	kg	3.35×10^{-3}	3.98×10^{-4}	1.81×10^{-3}	5.55×10^{-3}
	%	60%	7.2%	33%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	6.12	6.12
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 8. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***InTandem*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	74.8	35.6	20.4	131
	%	57%	27%	16%	100%
Acidification	kg SO_2 eq	0.307	0.147	6.17×10^{-2}	0.516
	%	59%	29%	12%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	0.129	6.22×10^{-2}	9.21×10^{-2}	0.284
	%	46%	22%	32%	100%
Photochemical oxidation	kg C_2H_4 eq	3.20×10^{-2}	9.52×10^{-3}	2.87×10^{-3}	4.44×10^{-2}
	%	72%	21%	6.5%	100%
Ozone layer depletion	kg CFC-11 eq	5.15×10^{-6}	1.55×10^{-6}	2.63×10^{-6}	9.33×10^{-6}
	%	55%	17%	28%	100%
Abiotic depletion (fossil fuels)	MJ	8.14×10^{-4}	9.61×10^{-5}	4.73×10^{-5}	9.57×10^{-4}
	%	85%	10%	4.9%	100%
Abiotic depletion	kg Sb eq	1,010	466	223	1,700
	%	59%	27%	13%	100%
TRACI					
Global warming	kg CO_2 eq	73.9	34.5	19.7	128
	%	58%	27%	15%	100%
Acidification	kg N eq	0.320	0.149	7.29×10^{-2}	0.542
	%	59%	28%	13%	100%
Eutrophication	kg N eq	0.258	0.134	0.232	0.624
	%	41%	21%	37%	100%
Smog formation	kg O_3 eq	4.73	1.87	1.80	8.41
	%	56%	22%	21%	100%
Ozone depletion	kg CFC-11 eq	6.27×10^{-6}	2.06×10^{-6}	3.50×10^{-6}	1.18×10^{-5}
	%	53%	17%	30%	100%
Fossil fuel depletion	MJ surplus	103	55.8	32.1	191
	%	54%	29%	17%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	74.0	31.5	17.2	123
	%	60%	26%	14%	100%
Climate change - biogenic	kg CO_2 eq	9.14	10.3	13.5	32.9
	%	28%	31%	41%	100%
Climate change - land use and land transformation	kg CO_2 eq	0.101	3.24×10^{-2}	6.13×10^{-3}	0.140
	%	72%	23%	4.4%	100%
Climate change - CO2 uptake	kg CO_2 eq	-10.9	-34.4	-6.36×10^{-2}	-45.3
	%	24%	76%	0.14%	100%
Other Indicators					
Human toxicity, cancer	cases	3.56×10^{-5}	2.28×10^{-6}	1.19×10^{-6}	3.90×10^{-5}
	%	91%	5.8%	3.1%	100%
Human toxicity, non-cancer	cases	1.64×10^{-5}	8.51×10^{-6}	4.81×10^{-6}	2.98×10^{-5}
	%	55%	29%	16%	100%
Freshwater ecotoxicity	PAF.m^3.day	1.06×10^{6}	1.00×10^{6}	565,000	2.62×10^{6}
	%	40%	38%	22%	100%
Land use	species.yr	6.36×10^{-8}	2.13×10^{-7}	4.74×10^{-9}	2.82×10^{-7}
	%	23%	76%	1.7%	100%
Water use - AWARE	m^3	35.8	13.3	1.31	50.4
	%	71%	26%	2.6%	100%

Table 9. *Resource use and waste flows by life cycle phase for the KI* ***InTandem*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	166	387	2.45	555
	%	30%	70%	0.44%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	175	415	2.50	592
	%	30%	70%	0.42%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	1,070	477	226	1,770
	%	60%	27%	13%	100%
Use of secondary materials	kg	16.7	0.00	0.00	16.7
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	3.69	1.74	0.155	5.59
	%	66%	31%	2.8%	100%
Wastes					
Hazardous waste disposed	kg	$2.68x10^{-3}$	$3.59x10^{-4}$	$5.93x10^{-4}$	$3.63x10^{-3}$
	%	74%	9.9%	16%	100%
Non-hazardous waste disposed	kg	18.4	9.29	43.8	71.4
	%	26%	13%	61%	100%
High-level radioactive waste	kg	$2.21x10^{-4}$	$3.49x10^{-5}$	$1.10x10^{-5}$	$2.67x10^{-4}$
	%	83%	13%	4.1%	100%
Intermediate and low-level radioactive waste	kg	$1.85x10^{-3}$	$3.71x10^{-4}$	$1.47x10^{-3}$	$3.69x10^{-3}$
	%	50%	10%	40%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	4.19	4.19
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 10. *Life Cycle Impact Assessment Results by life cycle phase for the KI **Pillar** Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	50.6	31.8	17.3	99.7
	%	51%	32%	17%	100%
Acidification	kg SO_2 eq	0.204	0.133	5.59×10^{-2}	0.393
	%	52%	34%	14%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	8.91×10^{-2}	5.56×10^{-2}	8.46×10^{-2}	0.229
	%	39%	24%	37%	100%
Photochemical oxidation	kg C_2H_4 eq	2.10×10^{-2}	8.78×10^{-3}	2.49×10^{-3}	3.23×10^{-2}
	%	65%	27%	7.7%	100%
Ozone layer depletion	kg CFC-11 eq	3.31×10^{-6}	1.41×10^{-6}	2.38×10^{-6}	7.11×10^{-6}
	%	47%	20%	34%	100%
Abiotic depletion (fossil fuels)	MJ	5.38×10^{-4}	9.11×10^{-5}	4.29×10^{-5}	6.72×10^{-4}
	%	80%	14%	6.4%	100%
Abiotic depletion	kg Sb eq	626	425	203	1,250
	%	50%	34%	16%	100%
TRACI					
Global warming	kg CO_2 eq	50.0	30.9	16.7	97.6
	%	51%	32%	17%	100%
Acidification	kg N eq	0.215	0.134	6.60×10^{-2}	0.416
	%	52%	32%	16%	100%
Eutrophication	kg N eq	0.178	0.119	0.214	0.511
	%	35%	23%	42%	100%
Smog formation	kg O_3 eq	3.25	1.72	1.63	6.60
	%	49%	26%	25%	100%
Ozone depletion	kg CFC-11 eq	4.10×10^{-6}	1.88×10^{-6}	3.18×10^{-6}	9.15×10^{-6}
	%	45%	20%	35%	100%
Fossil fuel depletion	MJ surplus	58.8	51.1	29.1	139
	%	42%	37%	21%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	49.9	28.3	14.7	93.0
	%	54%	30%	16%	100%
Climate change - biogenic	kg CO_2 eq	8.62	9.37	12.6	30.6
	%	28%	31%	41%	100%
Climate change - land use and land transformation	kg CO_2 eq	6.07×10^{-2}	3.21×10^{-2}	5.55×10^{-3}	9.83×10^{-2}
	%	62%	33%	5.6%	100%
Climate change - CO2 uptake	kg CO_2 eq	-11.0	-34.2	-5.75×10^{-2}	-45.3
	%	24%	76%	0.13%	100%
Other Indicators					
Human toxicity, cancer	cases	2.71×10^{-5}	2.13×10^{-6}	9.98×10^{-7}	3.02×10^{-5}
	%	90%	7.1%	3.3%	100%
Human toxicity, non-cancer	cases	1.16×10^{-5}	7.52×10^{-6}	3.50×10^{-6}	2.26×10^{-5}
	%	51%	33%	15%	100%
Freshwater ecotoxicity	PAF.m^3.day	723,000	871,000	386,000	1.98×10^{6}
	%	37%	44%	20%	100%
Land use	species.yr	6.40×10^{-8}	2.13×10^{-7}	4.30×10^{-9}	2.81×10^{-7}
	%	23%	76%	1.5%	100%
Water use - AWARE	m^3	23.6	12.3	1.17	37.1
	%	64%	33%	3.2%	100%

Table 11. *Resource use and waste flows by life cycle phase for the KI* ***Pillar*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	150	384	2.21	536
	%	28%	72%	0.41%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	158	412	2.25	572
	%	28%	72%	0.39%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	663	436	205	1,300
	%	51%	33%	16%	100%
Use of secondary materials	kg	16.9	0.00	0.00	16.9
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	2.43	1.57	0.140	4.14
	%	59%	38%	3.4%	100%
Wastes					
Hazardous waste disposed	kg	1.97×10^{-3}	3.31×10^{-4}	5.36×10^{-4}	2.84×10^{-3}
	%	69%	12%	19%	100%
Non-hazardous waste disposed	kg	13.6	8.22	39.9	61.8
	%	22%	13%	65%	100%
High-level radioactive waste	kg	1.48×10^{-4}	3.41×10^{-5}	9.93×10^{-6}	1.92×10^{-4}
	%	77%	18%	5.2%	100%
Intermediate and low-level radioactive waste	kg	1.28×10^{-3}	3.60×10^{-4}	1.33×10^{-3}	2.97×10^{-3}
	%	43%	12%	45%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	3.46	3.46
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 12. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Pirouette*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	132	53.5	29.1	214
	%	61%	25%	14%	100%
Acidification	kg SO_2 eq	0.637	0.219	8.92×10^{-2}	0.945
	%	67%	23%	9.4%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	0.230	9.38×10^{-2}	0.129	0.453
	%	51%	21%	29%	100%
Photochemical oxidation	kg C_2H_4 eq	5.70×10^{-2}	1.31×10^{-2}	4.28×10^{-3}	7.44×10^{-2}
	%	77%	18%	5.7%	100%
Ozone layer depletion	kg CFC-11 eq	1.12×10^{-5}	2.19×10^{-6}	3.80×10^{-6}	1.71×10^{-5}
	%	65%	13%	22%	100%
Abiotic depletion (fossil fuels)	MJ	1.45×10^{-3}	1.20×10^{-4}	6.84×10^{-5}	1.64×10^{-3}
	%	89%	7.3%	4.2%	100%
Abiotic depletion	kg Sb eq	1,760	664	323	2,750
	%	64%	24%	12%	100%
TRACI					
Global warming	kg CO_2 eq	130	51.8	28.0	210
	%	62%	25%	13%	100%
Acidification	kg N eq	0.669	0.219	0.105	0.993
	%	67%	22%	11%	100%
Eutrophication	kg N eq	0.433	0.205	0.325	0.963
	%	45%	21%	34%	100%
Smog formation	kg O_3 eq	10.8	2.61	2.60	16.0
	%	67%	16%	16%	100%
Ozone depletion	kg CFC-11 eq	1.36×10^{-5}	2.92×10^{-6}	5.06×10^{-6}	2.16×10^{-5}
	%	63%	13%	23%	100%
Fossil fuel depletion	MJ surplus	188	78.2	46.4	313
	%	60%	25%	15%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	131	46.8	23.7	201
	%	65%	23%	12%	100%
Climate change - biogenic	kg CO_2 eq	16.0	14.7	20.8	51.4
	%	31%	29%	40%	100%
Climate change - land use and land transformation	kg CO_2 eq	0.129	3.38×10^{-2}	8.89×10^{-3}	0.171
	%	75%	20%	5.2%	100%
Climate change - CO2 uptake	kg CO_2 eq	-19.4	-35.1	-9.22×10^{-2}	-54.7
	%	36%	64%	0.17%	100%
Other Indicators					
Human toxicity, cancer	cases	5.57×10^{-5}	3.00×10^{-6}	1.80×10^{-6}	6.05×10^{-5}
	%	92%	5%	3%	100%
Human toxicity, non-cancer	cases	2.83×10^{-5}	1.32×10^{-5}	6.93×10^{-6}	4.85×10^{-5}
	%	58%	27%	14%	100%
Freshwater ecotoxicity	PAF.m^3.day	1.79×10^{6}	1.62×10^{6}	954,000	4.36×10^{6}
	%	41%	37%	22%	100%
Land use	species.yr	1.16×10^{-7}	2.16×10^{-7}	6.85×10^{-9}	3.39×10^{-7}
	%	34%	64%	2%	100%
Water use - AWARE	m^3	64.8	18.1	1.91	84.8
	%	76%	21%	2.2%	100%

Table 13. *Resource use and waste flows by life cycle phase for the KI* ***Pirouette*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	289	400	3.55	693
	%	42%	58%	0.51%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	305	429	3.62	737
	%	41%	58%	0.49%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	1,880	676	327	2,880
	%	65%	23%	11%	100%
Use of secondary materials	kg	29.4	0.00	0.00	29.4
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	6.36	2.55	0.226	9.13
	%	70%	28%	2.5%	100%
Wastes					
Hazardous waste disposed	kg	4.52×10^{-3}	4.93×10^{-4}	8.57×10^{-4}	5.87×10^{-3}
	%	77%	8.4%	15%	100%
Non-hazardous waste disposed	kg	35.1	14.4	63.6	113
	%	31%	13%	56%	100%
High-level radioactive waste	kg	3.56×10^{-4}	3.83×10^{-5}	1.60×10^{-5}	4.10×10^{-4}
	%	87%	9.3%	3.9%	100%
Intermediate and low-level radioactive waste	kg	4.14×10^{-3}	4.24×10^{-4}	2.13×10^{-3}	6.69×10^{-3}
	%	62%	6.3%	32%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	5.59	5.59
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 14. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Portico*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	48.0	32.0	17.6	97.6
	%	49%	33%	18%	100%
Acidification	kg SO_2 eq	0.191	0.133	5.62×10^{-2}	0.381
	%	50%	35%	15%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	8.35×10^{-2}	5.59×10^{-2}	8.59×10^{-2}	0.225
	%	37%	25%	38%	100%
Photochemical oxidation	kg C_2H_4 eq	1.87×10^{-2}	8.82×10^{-3}	2.51×10^{-3}	3.00×10^{-2}
	%	62%	29%	8.4%	100%
Ozone layer depletion	kg CFC-11 eq	2.89×10^{-6}	1.42×10^{-6}	2.40×10^{-6}	6.71×10^{-6}
	%	43%	21%	36%	100%
Abiotic depletion (fossil fuels)	MJ	4.77×10^{-4}	9.14×10^{-5}	4.31×10^{-5}	6.12×10^{-4}
	%	78%	15%	7.1%	100%
Abiotic depletion	kg Sb eq	594	428	204	1,230
	%	48%	35%	17%	100%
TRACI					
Global warming	kg CO_2 eq	47.5	31.1	17.0	95.6
	%	50%	33%	18%	100%
Acidification	kg N eq	0.202	0.135	6.64×10^{-2}	0.404
	%	50%	33%	16%	100%
Eutrophication	kg N eq	0.166	0.120	0.218	0.504
	%	33%	24%	43%	100%
Smog formation	kg O_3 eq	3.05	1.73	1.64	6.42
	%	47%	27%	26%	100%
Ozone depletion	kg CFC-11 eq	3.65×10^{-6}	1.89×10^{-6}	3.20×10^{-6}	8.73×10^{-6}
	%	42%	22%	37%	100%
Fossil fuel depletion	MJ surplus	55.0	51.4	29.3	136
	%	41%	38%	22%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	47.4	28.5	15.0	90.9
	%	52%	31%	17%	100%
Climate change - biogenic	kg CO_2 eq	8.53	9.42	12.7	30.6
	%	28%	31%	41%	100%
Climate change - land use and land transformation	kg CO_2 eq	5.48×10^{-2}	3.21×10^{-2}	5.58×10^{-3}	9.25×10^{-2}
	%	59%	35%	6%	100%
Climate change - CO2 uptake	kg CO_2 eq	-11.0	-34.2	-5.79×10^{-2}	-45.3
	%	24%	76%	0.13%	100%
Other Indicators					
Human toxicity, cancer	cases	2.65×10^{-5}	2.14×10^{-6}	1.00×10^{-6}	2.96×10^{-5}
	%	89%	7.2%	3.4%	100%
Human toxicity, non-cancer	cases	1.08×10^{-5}	7.58×10^{-6}	3.63×10^{-6}	2.20×10^{-5}
	%	49%	34%	16%	100%
Freshwater ecotoxicity	PAF.m^3.day	674,000	878,000	384,000	1.94×10^{6}
	%	35%	45%	20%	100%
Land use	species.yr	6.39×10^{-8}	2.13×10^{-7}	4.33×10^{-9}	2.81×10^{-7}
	%	23%	76%	1.5%	100%
Water use - AWARE	m^3	21.0	12.4	1.18	34.6
	%	61%	36%	3.4%	100%

Table 15. *Resource use and waste flows by life cycle phase for the KI **Portico** Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	147	384	2.22	533
	%	28%	72%	0.42%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	155	412	2.27	569
	%	27%	72%	0.4%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	626	438	206	1,270
	%	49%	34%	16%	100%
Use of secondary materials	kg	17.0	0.00	0.00	17.0
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	2.22	1.58	0.141	3.94
	%	56%	40%	3.6%	100%
Wastes					
Hazardous waste disposed	kg	1.92×10^{-3}	3.33×10^{-4}	5.40×10^{-4}	2.79×10^{-3}
	%	69%	12%	19%	100%
Non-hazardous waste disposed	kg	13.2	8.28	40.2	61.7
	%	21%	13%	65%	100%
High-level radioactive waste	kg	1.39×10^{-4}	3.42×10^{-5}	9.99×10^{-6}	1.83×10^{-4}
	%	76%	19%	5.5%	100%
Intermediate and low-level radioactive waste	kg	1.21×10^{-3}	3.61×10^{-4}	1.34×10^{-3}	2.91×10^{-3}
	%	42%	12%	46%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	3.45	3.45
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 16. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Toggle*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	66.0	36.4	22.2	125
	%	53%	29%	18%	100%
Acidification	kg SO_2 eq	0.304	0.151	$6.34x10^{-2}$	0.518
	%	59%	29%	12%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	0.110	$6.37x10^{-2}$	0.106	0.279
	%	39%	23%	38%	100%
Photochemical oxidation	kg C_2H_4 eq	$3.05x10^{-2}$	$9.69x10^{-3}$	$3.19x10^{-3}$	$4.34x10^{-2}$
	%	70%	22%	7.4%	100%
Ozone layer depletion	kg CFC-11 eq	$5.76x10^{-6}$	$1.58x10^{-6}$	$2.69x10^{-6}$	$1.00x10^{-5}$
	%	57%	16%	27%	100%
Abiotic depletion (fossil fuels)	MJ	$7.75x10^{-4}$	$9.72x10^{-5}$	$4.85x10^{-5}$	$9.21x10^{-4}$
	%	84%	11%	5.3%	100%
Abiotic depletion	kg Sb eq	1,020	476	229	1,720
	%	59%	28%	13%	100%
TRACI					
Global warming	kg CO_2 eq	65.4	35.3	21.2	122
	%	54%	29%	17%	100%
Acidification	kg N eq	0.316	0.152	$7.50x10^{-2}$	0.544
	%	58%	28%	14%	100%
Eutrophication	kg N eq	0.210	0.137	0.269	0.616
	%	34%	22%	44%	100%
Smog formation	kg O_3 eq	4.92	1.91	1.85	8.68
	%	57%	22%	21%	100%
Ozone depletion	kg CFC-11 eq	$6.89x10^{-6}$	$2.10x10^{-6}$	$3.58x10^{-6}$	$1.26x10^{-5}$
	%	55%	17%	29%	100%
Fossil fuel depletion	MJ surplus	118	56.9	32.8	208
	%	57%	27%	16%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	65.8	32.2	17.8	116
	%	57%	28%	15%	100%
Climate change - biogenic	kg CO_2 eq	9.66	10.5	16.7	36.8
	%	26%	28%	45%	100%
Climate change - land use and land transformation	kg CO_2 eq	$7.72x10^{-2}$	$3.24x10^{-2}$	$6.31x10^{-3}$	0.116
	%	67%	28%	5.4%	100%
Climate change - CO2 uptake	kg CO_2 eq	-13.2	-34.4	$-6.56x10^{-2}$	-47.7
	%	28%	72%	0.14%	100%
Other Indicators					
Human toxicity, cancer	cases	$1.89x10^{-5}$	$2.32x10^{-6}$	$1.13x10^{-6}$	$2.24x10^{-5}$
	%	85%	10%	5%	100%
Human toxicity, non-cancer	cases	$1.38x10^{-5}$	$8.73x10^{-6}$	$5.68x10^{-6}$	$2.82x10^{-5}$
	%	49%	31%	20%	100%
Freshwater ecotoxicity	PAF.m^3.day	923,000	$1.03x10^{6}$	510,000	$2.46x10^{6}$
	%	37%	42%	21%	100%
Land use	species.yr	$7.69x10^{-8}$	$2.13x10^{-7}$	$4.86x10^{-9}$	$2.95x10^{-7}$
	%	26%	72%	1.6%	100%
Water use - AWARE	m^3	40.7	13.6	1.39	55.6
	%	73%	24%	2.5%	100%

Table 17. *Resource use and waste flows by life cycle phase for the KI **Toggle** Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	180	387	2.53	570
	%	32%	68%	0.44%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	191	415	2.58	609
	%	31%	68%	0.42%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	1,080	486	232	1,800
	%	60%	27%	13%	100%
Use of secondary materials	kg	19.1	0.00	0.00	19.1
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	3.76	1.78	0.162	5.70
	%	66%	31%	2.8%	100%
Wastes					
Hazardous waste disposed	kg	$1.77x10^{-3}$	$3.66x10^{-4}$	$6.08x10^{-4}$	$2.74x10^{-3}$
	%	65%	13%	22%	100%
Non-hazardous waste disposed	kg	14.0	9.53	46.0	69.5
	%	20%	14%	66%	100%
High-level radioactive waste	kg	$1.86x10^{-4}$	$3.50x10^{-5}$	$1.14x10^{-5}$	$2.32x10^{-4}$
	%	80%	15%	4.9%	100%
Intermediate and low-level radioactive waste	kg	$1.84x10^{-3}$	$3.74x10^{-4}$	$1.50x10^{-3}$	$3.72x10^{-3}$
	%	50%	10%	40%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	2.68	2.68
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 18. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Trek*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	46.5	31.1	17.4	95.0
	%	49%	33%	18%	100%
Acidification	kg SO_2 eq	0.202	0.130	$5.49x10^{-2}$	0.386
	%	52%	34%	14%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	$7.92x10^{-2}$	$5.43x10^{-2}$	$8.61x10^{-2}$	0.220
	%	36%	25%	39%	100%
Photochemical oxidation	kg C_2H_4 eq	$1.86x10^{-2}$	$8.64x10^{-3}$	$2.48x10^{-3}$	$2.97x10^{-2}$
	%	63%	29%	8.3%	100%
Ozone layer depletion	kg CFC-11 eq	$3.05x10^{-6}$	$1.39x10^{-6}$	$2.34x10^{-6}$	$6.78x10^{-6}$
	%	45%	20%	35%	100%
Abiotic depletion (fossil fuels)	MJ	$4.40x10^{-4}$	$9.02x10^{-5}$	$4.21x10^{-5}$	$5.72x10^{-4}$
	%	77%	16%	7.4%	100%
Abiotic depletion	kg Sb eq	591	417	199	1,210
	%	49%	35%	16%	100%
TRACI					
Global warming	kg CO_2 eq	46.0	30.2	16.8	93.0
	%	49%	33%	18%	100%
Acidification	kg N eq	0.213	0.132	$6.49x10^{-2}$	0.410
	%	52%	32%	16%	100%
Eutrophication	kg N eq	0.153	0.116	0.219	0.488
	%	31%	24%	45%	100%
Smog formation	kg O_3 eq	3.32	1.69	1.60	6.62
	%	50%	26%	24%	100%
Ozone depletion	kg CFC-11 eq	$3.87x10^{-6}$	$1.84x10^{-6}$	$3.12x10^{-6}$	$8.83x10^{-6}$
	%	44%	21%	35%	100%
Fossil fuel depletion	MJ surplus	58.0	50.3	28.6	137
	%	42%	37%	21%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	46.0	27.8	14.7	88.5
	%	52%	31%	17%	100%
Climate change - biogenic	kg CO_2 eq	8.28	9.20	12.8	30.2
	%	27%	30%	42%	100%
Climate change - land use and land transformation	kg CO_2 eq	$6.69x10^{-2}$	$3.20x10^{-2}$	$5.45x10^{-3}$	0.104
	%	64%	31%	5.2%	100%
Climate change - CO2 uptake	kg CO_2 eq	-10.9	-34.2	$-5.66x10^{-2}$	-45.2
	%	24%	76%	0.13%	100%
Other Indicators					
Human toxicity, cancer	cases	$2.26x10^{-5}$	$2.11x10^{-6}$	$9.53x10^{-7}$	$2.56x10^{-5}$
	%	88%	8.2%	3.7%	100%
Human toxicity, non-cancer	cases	$9.99x10^{-6}$	$7.34x10^{-6}$	$3.66x10^{-6}$	$2.10x10^{-5}$
	%	48%	35%	17%	100%
Freshwater ecotoxicity	PAF.m^3.day	619,000	847,000	350,000	$1.82x10^{6}$
	%	34%	47%	19%	100%
Land use	species.yr	$6.40x10^{-8}$	$2.12x10^{-7}$	$4.23x10^{-9}$	$2.81x10^{-7}$
	%	23%	76%	1.5%	100%
Water use - AWARE	m^3	21.2	12.2	1.16	34.6
	%	61%	35%	3.4%	100%

Table 19. *Resource use and waste flows by life cycle phase for the KI* ***Trek*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	143	383	2.17	529
	%	27%	72%	0.41%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	152	411	2.22	565
	%	27%	73%	0.39%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	623	428	201	1,250
	%	50%	34%	16%	100%
Use of secondary materials	kg	16.7	0.00	0.00	16.7
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	2.16	1.54	0.138	3.83
	%	56%	40%	3.6%	100%
Wastes					
Hazardous waste disposed	kg	$1.73x10^{-3}$	$3.26x10^{-4}$	$5.27x10^{-4}$	$2.59x10^{-3}$
	%	67%	13%	20%	100%
Non-hazardous waste disposed	kg	12.9	8.02	39.4	60.4
	%	21%	13%	65%	100%
High-level radioactive waste	kg	$1.29x10^{-4}$	$3.40x10^{-5}$	$9.77x10^{-6}$	$1.73x10^{-4}$
	%	75%	20%	5.7%	100%
Intermediate and low-level radioactive waste	kg	$1.31x10^{-3}$	$3.58x10^{-4}$	$1.31x10^{-3}$	$2.98x10^{-3}$
	%	44%	12%	44%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	3.11	3.11
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 20. *Life Cycle Impact Assessment Results by life cycle phase for the KI* ***Workup*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	31.6	27.9	18.3	77.9
	%	41%	36%	23%	100%
Acidification	kg SO_2 eq	0.151	0.117	5.06×10^{-2}	0.318
	%	47%	37%	16%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	5.15×10^{-2}	4.87×10^{-2}	8.99×10^{-2}	0.190
	%	27%	26%	47%	100%
Photochemical oxidation	kg C_2H_4 eq	1.60×10^{-2}	8.00×10^{-3}	2.71×10^{-3}	2.67×10^{-2}
	%	60%	30%	10%	100%
Ozone layer depletion	kg CFC-11 eq	3.26×10^{-6}	1.27×10^{-6}	2.14×10^{-6}	6.68×10^{-6}
	%	49%	19%	32%	100%
Abiotic depletion (fossil fuels)	MJ	4.23×10^{-4}	8.59×10^{-5}	3.86×10^{-5}	5.48×10^{-4}
	%	77%	16%	7.1%	100%
Abiotic depletion	kg Sb eq	532	382	182	1,100
	%	49%	35%	17%	100%
TRACI					
Global warming	kg CO_2 eq	31.4	27.2	17.4	75.9
	%	41%	36%	23%	100%
Acidification	kg N eq	0.156	0.119	5.98×10^{-2}	0.335
	%	47%	36%	18%	100%
Eutrophication	kg N eq	9.56×10^{-2}	0.103	0.230	0.429
	%	22%	24%	54%	100%
Smog formation	kg O_3 eq	2.45	1.56	1.47	5.49
	%	45%	28%	27%	100%
Ozone depletion	kg CFC-11 eq	3.83×10^{-6}	1.69×10^{-6}	2.85×10^{-6}	8.37×10^{-6}
	%	46%	20%	34%	100%
Fossil fuel depletion	MJ surplus	66.3	46.3	26.1	139
	%	48%	33%	19%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	31.7	25.0	14.0	70.8
	%	45%	35%	20%	100%
Climate change - biogenic	kg CO_2 eq	6.64	8.41	15.2	30.3
	%	22%	28%	50%	100%
Climate change - land use and land transformation	kg CO_2 eq	2.97×10^{-2}	3.18×10^{-2}	5.03×10^{-3}	6.65×10^{-2}
	%	45%	48%	7.6%	100%
Climate change - CO2 uptake	kg CO_2 eq	-9.89	-34.1	-5.24×10^{-2}	-44.0
	%	22%	77%	0.12%	100%
Other Indicators					
Human toxicity, cancer	cases	3.34×10^{-6}	1.98×10^{-6}	8.36×10^{-7}	6.16×10^{-6}
	%	54%	32%	14%	100%
Human toxicity, non-cancer	cases	6.69×10^{-6}	6.50×10^{-6}	4.82×10^{-6}	1.80×10^{-5}
	%	37%	36%	27%	100%
Freshwater ecotoxicity	PAF.m^3.day	470,000	736,000	364,000	1.57×10^{6}
	%	30%	47%	23%	100%
Land use	species.yr	5.71×10^{-8}	2.12×10^{-7}	3.87×10^{-9}	2.73×10^{-7}
	%	21%	78%	1.4%	100%
Water use - AWARE	m^3	26.2	11.3	1.14	38.6
	%	68%	29%	2.9%	100%

Table 21. *Resource use and waste flows by life cycle phase for the KI **Workup** Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	122	381	2.03	505
	%	24%	75%	0.4%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	130	408	2.07	540
	%	24%	76%	0.38%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	570	392	184	1,150
	%	50%	34%	16%	100%
Use of secondary materials	kg	14.4	0.00	0.00	14.4
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	2.19	1.39	0.130	3.72
	%	59%	38%	3.5%	100%
Wastes					
Hazardous waste disposed	kg	5.60×10^{-4}	3.02×10^{-4}	4.83×10^{-4}	1.34×10^{-3}
	%	42%	22%	36%	100%
Non-hazardous waste disposed	kg	5.27	7.11	37.1	49.5
	%	11%	14%	75%	100%
High-level radioactive waste	kg	8.71×10^{-5}	3.34×10^{-5}	9.18×10^{-6}	1.30×10^{-4}
	%	67%	26%	7.1%	100%
Intermediate and low-level radioactive waste	kg	8.87×10^{-4}	3.49×10^{-4}	1.20×10^{-3}	2.43×10^{-3}
	%	36%	14%	49%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	1.38	1.38
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

Table 22. *Life Cycle Impact Assessment Results by life cycle phase for the KI **Worksurface only** Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Impact Category	Unit	Upstream Module	Core Module	Downstream Module	Total
CML					
Global warming	kg CO_2 eq	19.7	33.4	18.3	71.4
	%	28%	47%	26%	100%
Acidification	kg SO_2 eq	$9.77x10^{-2}$	0.139	$5.87x10^{-2}$	0.295
	%	33%	47%	20%	100%
Eutrophication-CML	kg $(PO)_4^{---}$ eq	$3.03x10^{-2}$	$5.84x10^{-2}$	0.106	0.194
	%	16%	30%	54%	100%
Photochemical oxidation	kg C_2H_4 eq	$8.65x10^{-3}$	$9.10x10^{-3}$	$2.63x10^{-3}$	$2.04x10^{-2}$
	%	42%	45%	13%	100%
Ozone layer depletion	kg CFC-11 eq	$1.57x10^{-6}$	$1.47x10^{-6}$	$2.50x10^{-6}$	$5.54x10^{-6}$
	%	28%	27%	45%	100%
Abiotic depletion (fossil fuels)	MJ	$1.78x10^{-4}$	$9.32x10^{-5}$	$4.49x10^{-5}$	$3.16x10^{-4}$
	%	56%	29%	14%	100%
Abiotic depletion	kg Sb eq	320	443	212	975
	%	33%	45%	22%	100%
TRACI					
Global warming	kg CO_2 eq	19.5	32.5	17.6	69.6
	%	28%	47%	25%	100%
Acidification	kg N eq	0.106	0.141	$6.93x10^{-2}$	0.316
	%	33%	45%	22%	100%
Eutrophication	kg N eq	$5.08x10^{-2}$	0.125	0.272	0.448
	%	11%	28%	61%	100%
Smog formation	kg O_3 eq	1.82	1.78	1.72	5.32
	%	34%	34%	32%	100%
Ozone depletion	kg CFC-11 eq	$2.01x10^{-6}$	$1.95x10^{-6}$	$3.33x10^{-6}$	$7.29x10^{-6}$
	%	28%	27%	46%	100%
Fossil fuel depletion	MJ surplus	37.7	53.1	30.5	121
	%	31%	44%	25%	100%
IPCC 2013					
Climate change - fossil	kg CO_2 eq	19.8	29.7	15.5	65.0
	%	30%	46%	24%	100%
Climate change - biogenic	kg CO_2 eq	10.3	9.76	15.7	35.8
	%	29%	27%	44%	100%
Climate change - land use and land transformation	kg CO_2 eq	$2.47x10^{-2}$	$3.22x10^{-2}$	$5.80x10^{-3}$	$6.27x10^{-2}$
	%	39%	51%	9.3%	100%
Climate change - CO2 uptake	kg CO_2 eq	-16.3	-34.3	$-6.04x10^{-2}$	-50.6
	%	32%	68%	0.12%	100%
Other Indicators					
Human toxicity, cancer	cases	$2.04x10^{-6}$	$2.20x10^{-6}$	$7.94x10^{-7}$	$5.03x10^{-6}$
	%	41%	44%	16%	100%
Human toxicity, non-cancer	cases	$4.10x10^{-6}$	$7.94x10^{-6}$	$3.53x10^{-6}$	$1.56x10^{-5}$
	%	26%	51%	23%	100%
Freshwater ecotoxicity	PAF.m^3.day	258,000	926,000	95,600	$1.28x10^{6}$
	%	20%	72%	7.5%	100%
Land use	species.yr	$9.35x10^{-8}$	$2.13x10^{-7}$	$4.52x10^{-9}$	$3.11x10^{-7}$
	%	30%	68%	1.5%	100%
Water use - AWARE	m^3	16.0	12.8	1.25	30.0
	%	53%	43%	4.2%	100%

Table 23. *Resource use and waste flows by life cycle phase for the KI* ***Worksurface only*** *Office Table. Results are shown for one table maintained for a 10-year period, based on the ANSI/BIFMA x5.5 test. Results are equivalent for a 15-year Reference Service Life.*

Parameter	Unit	Upstream Module	Core Module	Downstream Module	Total
Resources					
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	178	385	2.32	565
	%	31%	68%	0.41%	100%
Use of renewable primary energy resources used as raw materials	MJ	0.00	0.00	0.00	0.00
	%	0%	0%	0%	0%
Total use of renewable primary energy resources	MJ	191	413	2.37	606
	%	31%	68%	0.39%	100%
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA
Total use of non-renewable primary energy resources	MJ	334	453	215	1,000
	%	33%	45%	21%	100%
Use of secondary materials	kg	23.9	0.00	0.00	23.9
	%	100%	0%	0%	100%
Use of renewable/non-renewable secondary fuels		Neg.	Neg.	Neg.	Neg.
Recovered energy	MJ	Neg.	Neg.	Neg.	Neg.
Use of net fresh water	m^3	1.33	1.64	0.148	3.12
	%	43%	53%	4.7%	100%
Wastes					
Hazardous waste disposed	kg	3.83×10^{-4}	3.43×10^{-4}	5.61×10^{-4}	1.29×10^{-3}
	%	30%	27%	44%	100%
Non-hazardous waste disposed	kg	4.11	8.68	43.5	56.3
	%	7.3%	15%	77%	100%
High-level radioactive waste	kg	5.29×10^{-5}	3.45×10^{-5}	1.05×10^{-5}	9.78×10^{-5}
	%	54%	35%	11%	100%
Intermediate and low-level radioactive waste	kg	6.03×10^{-4}	3.65×10^{-4}	1.40×10^{-3}	2.36×10^{-3}
	%	26%	15%	59%	100%
Components for re-use	kg	0.00	0.00	0.00	0.00
Materials for recycling	kg	0.00	0.00	1.34	1.34
	%	0%	0%	100%	100%
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.

ADDITIONAL ENVIRONMENTAL INFORMATION

Portico Office Table is 3rd party certified level® 1.

The following KI Office Table products included in this EPD are 3rd party certified level® 2: Athens, Connection Zone, InTandem, Pirouette, Toggle, Trek, and Workup.

INDOOR ADVANTAGE GOLD FURNITURE

KI Office Tables support a healthy indoor environment through emissions testing. The following KI Office Tables are certified Indoor Advantage™ Gold, qualify for LEED low-emitting materials credits, comply with ANSI/BIFMA X7.1/M7.1, and meet CA 01350 air emissions requirements: Athens, Connection Zone, InTandem, Pirouette, Portico, Toggle, Trek, and Workup.

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SUPPORTING TECHNICAL INFORMATION

Unit processes were developed with OpenLCA v1.10 software, drawing upon data from multiple sources. Primary data were provided by KI and some of its suppliers for their manufacturing processes. The primary sources of secondary LCI data are from Ecoinvent Database.

Table 24. *Data sources used for the LCA study.*

Component	Dataset	Data Source	Publication Date
PRODUCT			
Particleboard			
Particleboard	particleboard production, uncoated, average glue mix | particleboard, uncoated | Cutoff, S/RoW	EI v3.8	2021
Steel			
Steel - BOF	steel production, converter, low-alloyed | steel, low-alloyed | Cutoff, S/RoW	EI v3.8	2021
Plastics			
PVC, Polypropylene, Nylon	polypropylene production, granulate | polypropylene, granulate | Cutoff, S/RoW	EI v3.8	2021
	polyvinylchloride production, bulk polymerisation | polyvinylchloride, bulk polymerised | Cutoff, S/RoW	EI v3.8	2021
	nylon 6-6 production | nylon 6-6 | Cutoff, S/RoW	EI v3.8	2021
Laminate			
High Pressure Decorative Laminate	cellulose fibre production | cellulose fibre | Cutoff, S/RoW;	EI v3.8	2021
	urea formaldehyde resin production | urea formaldehyde resin | Cutoff, S/RoW;	EI v3.8	2021
	polyester resin production, unsaturated | polyester resin, unsaturated | Cutoff, S/RoW;	EI v3.8	2021
	acrylic binder production, product in 34% solution state | acrylic binder, without water, in 34% solution state | Cutoff, S/RoW	EI v3.8	2021
Other			
Paper, Coating powder, Adhesives	kraft paper production | kraft paper | Cutoff, S/RoW	EI v3.8	2021
	coating powder production | coating powder | Cutoff, S/RoW	EI v3.8	2021
	polyurethane adhesive production | polyurethane adhesive | Cutoff, S/GLO	EI v3.8	2021
PACKAGING			
Corrugate	containerboard production, linerboard, kraftliner | containerboard, linerboard | Cutoff, S/RoW	EI v3.8	2021
Plastics	packaging film production, low density polyethylene | packaging film, low density polyethylene | Cutoff, S/RoW	EI v3.8	2021
	polypropylene production, granulate | polypropylene, granulate | Cutoff, S/RoW	EI v3.8	2021
Wood	market for EUR-flat pallet | EUR-flat pallet | Cutoff, S/GLO	EI v3.8	2021
TRANSPORT			
Road transport	market for transport, freight, lorry 16-32 metric ton, EURO4 | transport, freight, lorry 16-32 metric ton, EURO4 | Cutoff, S/RoW	EI v3.8	2021
Ship transport	transport, freight, sea, container ship | transport, freight, sea, container ship | Cutoff, S/GLO	EI v3.8	2021
RESOURCES			
Grid electricity	Electricity, medium voltage, per kWh - RFCW/RFCW	EI v3.8; eGRID 2018	2021; 2021
Heat – natural gas	heat production, natural gas, at industrial furnace >100kW | heat, district or industrial, natural gas | Cutoff, S/RoW	EI v3.8	2021
Heat – fuel oil	heat production, heavy fuel oil, at industrial furnace 1MW | heat, district or industrial, other than natural gas | Cutoff, S/RoW; heat production, light fuel oil, at industrial furnace 1MW | heat, district or industrial, other than natural gas | Cutoff, S/RoW	EI v3.8	2021
Heat – propane	propane, burned in building machine | propane, burned in building machine | Cutoff, S/GLO	EI v3.8	2021

Data Quality

Data Quality Parameter	Data Quality Discussion
Time-Related Coverage: Age of data and the minimum length of time over which data is collected	The most recent available data are used, based on other considerations such as data quality and similarity to the actual operations. Typically, these data are less than 5 years old (typically 2016). All of the data used represented an average of at least one year's worth of data collection, and up to three years in some cases. Manufacturer-supplied data (primary data) are based on annual production for 2021.
Geographical Coverage: Geographical area from which data for unit processes is collected to satisfy the goal of the study	The data used in the analysis provide the best possible representation available with current data. Electricity use for product manufacture is modeled using representative data for regional power mixes from the Ecoinvent LCI database. Surrogate data used in the assessment are representative of global or North American operations. Data representative of global operations are considered sufficiently similar to actual processes. Data representing product disposal are based on US statistics.
Technology Coverage: Specific technology or technology mix	For the most part, data are representative of the actual technologies used for processing, transportation, and manufacturing operations. Representative datasets, specific to the type of material, are used to represent the actual processes, as appropriate.
Precision: Measure of the variability of the data values for each data expressed	Precision of results are not quantified due to a lack of data. Data collected for operations were typically averaged for one or more years and over multiple operations, which is expected to reduce the variability of results.
Completeness: Percentage of flow that is measured or estimated	The LCA model included all known mass and energy flows for production of the products. In some instances, surrogate data used to represent upstream and downstream operations may be missing some data which is propagated in the model. No known processes or activities contributing to more than 1% of the total environmental impact for each indicator are excluded.
Representativeness: Qualitative assessment of the degree to which the data set reflects the true population of interest	Data used in the assessment represent typical or average processes as currently reported from multiple data sources and are therefore generally representative of the range of actual processes and technologies for production of these materials. Considerable deviation may exist among actual processes on a site-specific basis; however, such a determination would require detailed data collection throughout the supply chain back to resource extraction.
Consistency: Qualitative assessment of whether the study methodology is applied uniformly to the various components of the analysis	The consistency of the assessment is considered to be high. Data sources of similar quality and age are used; with a bias towards Ecoinvent v3.8 data where available. Different portions of the product life cycle are equally considered.
Reproducibility: Qualitative assessment of the extent to which information about the methodology and data values would allow an independent practitioner to reproduce the results reported in the study	Based on the description of data and assumptions used, this assessment would be reproducible by other practitioners. All assumptions, models, and data sources are documented.
Sources of the Data: Description of all primary and secondary data sources	Data representing energy use at manufacturing facility represent an annual average and are considered of high quality due to the length of time over which these data are collected, as compared to a snapshot that may not accurately reflect fluctuations in production. For secondary LCI data, Ecoinvent v3.8 LCI data are used.
Uncertainty of the Information: Uncertainty related to data, models, and assumptions	Uncertainty related to materials in the products and packaging is low. Actual supplier data for all upstream operations were not available and the study relied upon the use of existing representative datasets. These datasets contained relatively recent data (<10 years) but lacked geographical representativeness. Uncertainty related to the impact assessment methods used in the study are high. The impact assessment method required by the PCR includes impact potentials, which lack characterization of providing and receiving environments or tipping points.

Allocation

Resource use at the Bonduel, Wisconsin facility (e.g., water and energy) was allocated to the product based on the product mass as a fraction of the total facility production.

The furniture product includes recycled materials, which are allocated using the recycled content allocation method (also known as the 100-0 cut off method). Using the recycled content allocation approach, system inputs with recycled content do not receive any burden from the previous life cycle other than reprocessing of the waste material. At end of life, materials which are recycled leave the system boundaries with no additional burden.

Impacts from transportation were allocated based on the mass of material and distance transported.

System Boundaries

The system boundaries of the life cycle assessment for the office tables was cradle-to-grave. A description of the system boundaries for this EPD are as follows:

- **Raw Material Extraction and Processing stage –** This stage includes extraction of virgin materials and reclamation of non-virgin feedstock. This includes the extraction of all raw materials, including the transport to the manufacturing site. Resource use and emissions associated with both the extraction of the raw materials used in the tables, as well as those associated with the processing of raw materials and table component manufacturing are included. Impacts associated with the transport of the processed raw materials to manufacturing facilities (upstream transport) are also included in this stage.
- **Core - Production stage –** This stage includes all the relevant manufacturing processes and flows, excluding production of capital goods, infrastructure, production of manufacturing equipment, and personnel-related activities. This stage includes the impacts from energy use and emissions associated with the processes occurring at Bonduel, WI facility, as well as the production of the product packaging materials.
- **Downstream –**
    - **Distribution, Storage and Use stage –** This stage includes the delivery of the KI Tables to the point of use (downstream transportation), storage of the product and maintenance of the table for a period of 10 years.
    - **Disposal stage –** The end-of-life stage includes transport of the table to material reclamation or waste treatment facilities. Emissions from disposal of table components in a landfill or from incineration are included. Packaging disposal is also included in this phase.

Cut-off criteria

According to the PCR, cumulative omitted mass or energy flows within the product boundary shall not exceed 5%. In the present study, except as noted, all known materials and processes were included in the life cycle inventory.

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