

**Declaration Owner**

Innovant

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CROSS Benching workstation

Functional Unit

The functional unit is one square meter of floorspace, serving the function of providing office workstation for a 10-year period.

EPD Number and Period of Validity

SCS-EPD-08055

EPD Valid July 14, 2022 through July 13, 2027

Product Category Rule

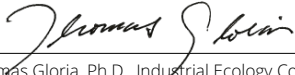
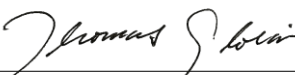
Product Category Rule for Environmental Product Declarations
BIFMA PCR for Office Furniture Workspace Products: UNCPC 3814.

Program Operator

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Address:	37 West 20th Street, 2nd Floor, New York, NY 10011
Declaration Number:	SCS-EPD-08055
Declaration Validity Period:	Valid July 14, 2022 through July 13, 2027
Program Operator:	SCS Global Services
Declaration URL Link:	https://www.scsglobalservices.com/certified-green-products-guide
Product:	CROSS Benching
LCA Practitioner:	Wan Ping Chua, SCS Global Services
LCA Software:	OpenLCA v1.10.3 & Ecoinvent v3.8
Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071	<input type="checkbox"/> internal <input checked="" type="checkbox"/> external
LCA Reviewer:	 Thomas Gloria, Ph.D., Industrial Ecology Consultants
Product Category Rule:	Product Category Rule for Environmental Product Declarations BIFMA PCR for Office Furniture Workspace Products: UNCPC 3814.
PCR Review conducted by:	TBD
Independent verification of the declaration and data, according to ISO 14025 and the PCR	<input type="checkbox"/> internal <input checked="" type="checkbox"/> external
EPD Verifier:	 Thomas Gloria, Ph.D., Industrial Ecology Consultants
Declaration Contents:	<p>About Innovant 2</p> <p>Product Specifications..... 2</p> <p>Key Environmental Parameters 2</p> <p>Product Material Composition 3</p> <p>Product Life Cycle Flow Diagram 4</p> <p>Life Cycle Assessment Overview 4</p> <p>Life Cycle Inventory and Environmental Parameters..... 6</p> <p>Life Cycle Impact Assessment 6</p> <p>Supporting Technical Information..... 7</p> <p>Additional Environmental Information 12</p> <p>References 13</p>
<p>Disclaimers: This EPD conforms to ISO 14025, 14040, and 14044.</p> <p>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.</p> <p>Accuracy of Results: Due to PCR constraints, this EPD provides estimations of potential impacts that are inherently limited in terms of accuracy.</p> <p>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.</p>	

About Innovant

Since 1990, Innovant has been a pioneer in the design and manufacture of office furniture for the open plan work environment. Starting with our roots in the niche world of trading desk design and installation, Innovant has matured into a product and thought leader in collaborative furniture design, developing tailored workstation, conference, and CROSS Benching solutions for some of the world's most prestigious corporate clients.

Product Specifications

CROSS Benching merges sit to stand desking with personal storage, collaboration stations, and architectural millwork to create workstations that collectively deliver the driving aesthetic of an office. Sophisticated cabling and technology management are concealed within the beautifully detailed architectural elements. CROSS Benching has four workstations, each of which includes an electric standing desk, totaling a power draw of 1.2 kW-hr (based on each desk being continuously adjusted for an hour, which is unlikely during normal use). The table below specifies the physical footprint of the Innovant CROSS Benching workstation. CROSS Benching seats 4 users at one time.

Table 1. *Physical footprint of the Innovant CROSS Benching workstation, per workstation unit.*

Physical Footprint	Innovant CROSS Benching
Floor Space Area	9.03 m ²
Worksurface Area	5.95 m ²
Storage Volume	1.49 m ³

Key Environmental Parameters

Table 2. *Key Environmental Parameters, over the life cycle of the Innovant CROSS Benching, per functional unit.*

Parameter	Innovant CROSS Benching
Primary Energy Demand (MJ)	5,820
Recycled content	55%

Product Material Composition

The primary materials include fiberboard, particleboard, plywood, steel, aluminum, plastics, adhesives, stains, varnishes and paints, fabric, and electrical components from various suppliers. Packaging materials consist of plastic, corrugated board, paperboard, and lumber.

Table 3. Material content for the Innovant CROSS Benching in kg per square meter and percent of total mass.

Material	kg/m ²	Percent
Medium Density Fiberboard	68.7	58.3%
Steel	18.9	16.1%
Drawer boxes with slides (finished furniture)	13.2	11.2%
Veneer	4.9	4.2%
Stains, varnishes, and paints	3.9	3.3%
Particleboard	3.1	2.6%
Adhesives	1.7	1.4%
Electrical Components	1.5	1.3%
High Pressure Laminate	1.1	1.0%
Textile	0.3	0.2%
Aluminum	0.3	0.2%
Polyvinyl chloride (PVC)	0.1	0.1%
Polyethylene terephthalate (PET)	0.1	0.1%
Total Product	118	100%

Table 4. Material content for the Innovant CROSS Benching Packaging in kg per square meter and percent of total mass.

Material	kg/m ²	Percent
Wood	9.0	78.7%
Corrugated / paperboard	1.8	16.2%
Polyethylene (PE)	0.6	4.9%
Polypropylene (PP)	0.03	0.2%
Total Product	11	100%



Life Cycle Assessment Overview

System Boundary

The scope of the EPD is cradle-to-grave, including raw material extraction and processing, transportation, product manufacture, product delivery, installation and use, and product disposal. The life cycle phases included in the EPD scope are described below and illustrated in Figure 1.

- *Raw Materials Processing (Sourcing/Extraction)* – This stage includes extraction of virgin materials and reclamation of non-virgin feedstock. Resource use and emissions associated with both extraction of the raw materials and product component manufacturing are included. The impacts associated with transport of the product component materials to the manufacturing facility are also included in this stage.
- *Manufacturing* – This stage includes all the relevant manufacturing processes and flows, including the impacts from energy use, resource use and emissions at the manufacturing facility, and disposal of scrap data produced. Production of capital goods, infrastructure, manufacturing equipment, and personnel-related activities are not included. This stage also includes the production of the product packaging materials, as well as the production of finishing materials applied (stains, varnishes and paints). The products are manufactured at the Innovant facility in Islandia, New York (NY), utilizing primary data for annual production, resource use, electricity consumption and waste generation.
- *Distribution, Installation and Use* – This stage includes delivery of the product to the point of installation (downstream transportation), and installation and use of the products. A weighted average transportation distance to the installation site of 413 miles (~664 km) was used. The impacts associated with packaging disposal are also included with the installation phase as per PCR requirements. Impacts associated with the installation and use of the products are negligible.
- *Disposal stage* – The end-of-life stage includes demolition of the products, transport of the products to waste treatment facilities, waste processing and associated emissions as the product degrades in a landfill or is burned in an incinerator. Assumptions for the product and packaging end-of-life are based on the US EPA's disposal statistics for municipal solid waste (MSW) for 2018 (published 2020). Transportation for end-of-life scenarios was modeled using the EPA WARM model assumption of 20 miles (~32 km), from the point of product use to a landfill, material recovery center, or waste incinerator. Impacts associated with the demolition of the products are assumed negligible.

Product Life Cycle Flow Diagram

A flow diagram of the product system, including system boundaries, is provided in Figure 1.

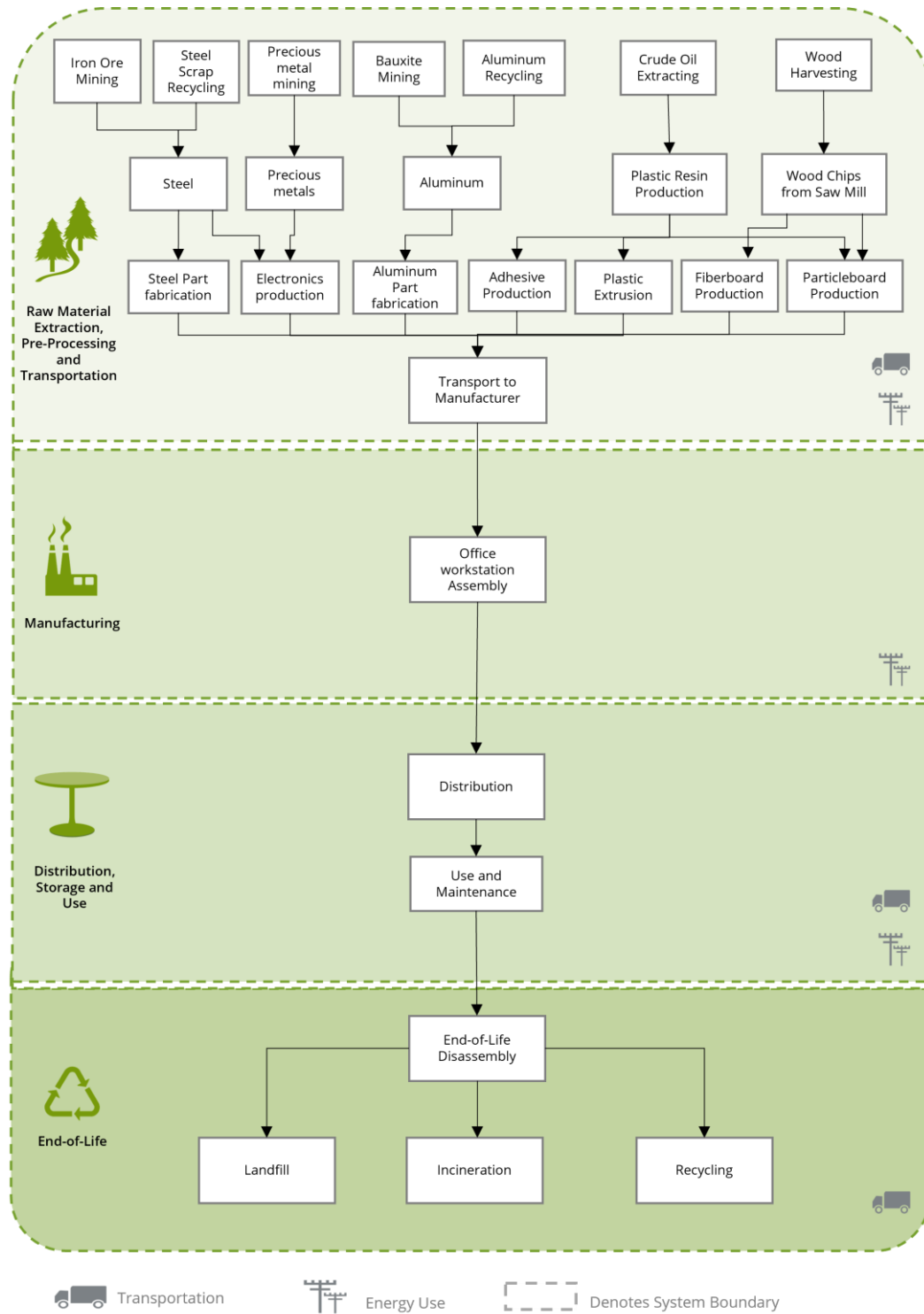


Figure 1. Flow diagram representing the major unit operations in the life cycle of the Innovant CROSS Benching.

Life Cycle Inventory and Environmental Parameters

The resource use and emissions from each step of the product life cycle are summed to obtain the life cycle inventory results. Table 5 summarizes the results for additional parameters (energy and net freshwater use) as specified in the PCR. The LCIA and inventory flow results were calculated using the OpenLCA v1.10.3 model and summarized for the functional unit from cradle-to-grave. Where necessary, the higher heating value is used for energy flow calculations

Table 5. Energy use and net freshwater use for one (1) square meter of the Innovant CROSS Benching over a 10-yr time horizon. Results reported in MJ are calculated using higher heating values. All values are rounded to three significant digits.

Parameter	Raw Material	Manufacturing	Distribution	Disposal	Total
Primary Energy Demand (MJ)	4340	1210	226	36.9	5820
	74.67%	20.81%	3.89%	0.63%	100%
Renewable Primary Energy (MJ)	1260	403	2.44	0.60	1670
	75.7%	24.2%	0.146%	0.036%	100%
Non-renewable Primary Energy (MJ)	3080	807	224	36.3	4150
	74.3%	19.5%	5.39%	0.875%	100%
Net Fresh Water Use (kg)	3040	464	25.4	22.4	3550
	85.6%	13.1%	0.716%	0.630%	100%

Life Cycle Impact Assessment

The LCA conforms to ISO 14040/44 and the PCR. The following impact indicators, specified by the PCR, are reported below:

TRACI 2.1 Impact Category	Unit
Global Warming Potential (GWP) – 100-year horizon	kg CO ₂ eq
Global Warming Potential (GWP) – 20-year horizon	kg CO ₂ eq
Ozone Depletion Potential (ODP)	kg CFC 11 eq
Acidification Potential (AP)	kg SO ₂ eq
Eutrophication Potential (EP)	kg N eq
Smog Formation Potential (SFP)	kg O ₃ eq

Results of the Life Cycle Assessment are presented below. It is noted that LCA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

Table 6. Life Cycle Impact Assessment (LCIA) results for one (1) square meter of the Innovant CROSS Benching over a 10-yr time horizon. All values are rounded to three significant digits.

Impact Category	Raw Material	Manufacturing	Distribution	Disposal	Total
Global Warming Potential (kg CO ₂ eq) – 100yr	199	43.8	14.8	10.5	268
	74.3%	16.3%	5.50%	3.89%	100%
Global Warming Potential (kg CO ₂ eq) – 20yr	233	53.0	16.2	25.6	328
	71.1%	16.2%	4.93%	7.80%	100%
Acidification Potential (kg SO ₂ eq)	1.01	0.152	6.35x10 ⁻²	1.30x10 ⁻²	1.23
	81.5%	12.3%	5.15%	1.06%	100%
Eutrophication Potential (kg N eq)	0.805	7.44x10 ⁻²	5.98x10 ⁻²	0.545	1.48
	54.2%	5.0%	4.02%	36.7%	100%
Smog Formation Potential (kg O ₃ eq)	13.9	2.12	1.54	0.327	17.9
	77.7%	11.8%	8.61%	1.83%	100%
Ozone Depletion Potential (kg CFC-11 eq)	2.66x10 ⁻⁵	4.85x10 ⁻⁶	3.25x10 ⁻⁶	4.68x10 ⁻⁷	3.51x10 ⁻⁵
	75.6%	13.8%	9.24%	1.33%	100%

Supporting Technical Information

Cut-off criteria

According to the PCR, processes contributing greater than 1% of the total environmental impact indicator for each impact are included in the inventory. No data gaps were allowed which were expected to significantly affect the outcome of the indicator results. There were no relevant datasets the upstream production of a wool fabric component of the product, and it was thus excluded. As the wool fabric comprises less than 0.1% of the overall product weight, the impact of this exclusion is not significant. No other known flows are deliberately excluded from this EPD.

Period under review

The period of review is calendar year 2021.

Allocation

Manufacturing resource use was allocated to the products based on product weight. Impacts from transportation were allocated based on the mass of material and distance transported.

The product system includes some recycled materials, which were 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.

Estimates and Assumptions

- For end-of-life, disposal of the product and product packaging is modeled based on 2018 statistics (published 2020) for municipal solid waste generation and disposal in the United States, from the US Environmental Protection Agency. These data provide recycling rate estimates for household and municipal waste, durable and non-durable goods, as well as for packaging and containers.
- For final disposal of the product and packaging materials at end-of-life, all materials are assumed to be transported 20 miles by diesel truck to either a landfill, incineration facility, or material reclamation facility (for recycling). Datasets representing disposal in a landfill and waste incineration are from Ecoinvent.

- Modeling of recycled materials follows the recycled content method (also known as 100-0 method or cut-off method) whereby only the burdens of reprocessing the waste material are allocated to the system from the use of the recycled material.
- Electricity and resource use at the production facility was allocated to the Innovant CROSS Benching based on weight utilizing annual utilities data for calendar year 2021 provided by the manufacturer.
- The Islandia, NY, facility is located in the EPA eGRID NYLI sub-region. An Ecoinvent inventory dataset was modified to reflect the eGRID energy mix for NYLI to estimate resource use and emissions from electricity use at the facility.
- Primary data for upstream component fabrication were not available. Representative LCI datasets from the Ecoinvent database were used to model processing for fiberboard, finished furniture, steel, aluminum, plastic, materials components and electrical components.
- For some electrical components, there were no datasets which provided exact matches. Reasonable estimates for the component parts were made and modelled using existing Ecoinvent datasets.
- The high-pressure laminate components were modelled based on component parts of the material. Processing and energy requirements were modelled using a proxy Ecoinvent dataset for melamine impregnated paper production.
- Stains, varnishes, and paints were modelled as component chemicals based on data provided in material safety data sheets.
- There are some trace formaldehyde emissions from fiberboards during the use phase of the workstations. However, these trace emissions were not modelled as they are not expected to be significant.

It should also be noted that LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

The PCR allows for the results for several inventory flows related to construction products to be reported as “other parameters”. These are aggregated inventory flows, and do not characterize any potential impact; results should be interpreted taking into account this limitation.

Background Data

Primary data were provided by Innovant for the Islandia, NY, manufacturing facility. The sources of secondary LCI data are the Ecoinvent database.

Table 7. Data sources for the CROSS Benchmarking product system.

Component	Dataset	Data Source	Publication Date
PRODUCT			
Fiberboard			
MDF	medium density fibreboard production, uncoated medium density fibreboard Cutoff, U - RoW;	EI v3.8	2021
Particleboard	particleboard production, uncoated, average glue mix particleboard, uncoated Cutoff, U - RoW	EI v3.8	2021
Veneer			
Veneer	hardwood forestry, oak, sustainable forest management sawlog and veneer log, hardwood, measured as solid wood under bark Cutoff, U - RoW	EI v3.8	2021
Wooden Furniture			
Drawers and slides	furniture production, wooden furniture, wooden Cutoff, U - GLO	EI v3.8	2021
Steel			
Steel sheet	market for steel, low-alloyed steel, low-alloyed Cutoff, U - GLO market for sheet rolling, steel sheet rolling, steel Cutoff, U - GLO	EI v3.8	2021
Steel tubing, hardware	market for steel, low-alloyed steel, low-alloyed Cutoff, U - GLO market for metal working, average for steel product manufacturing metal working, average for steel product manufacturing Cutoff, U - GLO		
Aluminum			
Aluminum Z clip	market for metal working, average for aluminium product manufacturing metal working, average for aluminium product manufacturing Cutoff, U - GLO market for metal working, average for aluminium product manufacturing metal working, average for aluminium product manufacturing Cutoff, U - GLO	EI v3.8	2021
Aluminum bar	market for aluminium, primary, ingot aluminium, primary, ingot Cutoff, U - IAI Area, North America market for aluminium scrap, new aluminium scrap, new Cutoff, U - RoW market for metal working, average for aluminium product manufacturing metal working, average for aluminium product manufacturing Cutoff, U - GLO	EI v3.8	2021
High Pressure Laminate			
Kraft Paper	market for kraft paper kraft paper Cutoff, U - RoW melamine impregnated paper production paper, melamine impregnated Cutoff, U - RoW (Energy requirements only)	EI v3.8	2021
Phenolic resin	market for phenolic resin phenolic resin Cutoff, U - RoW	EI v3.8	2021
Polyester resin	market for polyester resin, unsaturated polyester resin, unsaturated Cutoff, U - RoW	EI v3.8	2021
Electronical Components			
Lifting kit	market for steel, low-alloyed steel, low-alloyed Cutoff, U - GLO market for metal working, average for steel product manufacturing metal working, average for steel product manufacturing Cutoff, U - GLO market for powder coat, steel powder coat, steel Cutoff, U - GLO market for acrylonitrile-butadiene-styrene copolymer acrylonitrile-butadiene-styrene copolymer Cutoff, U - GLO market for injection moulding injection moulding Cutoff, U - GLO market for electronics, for control units electronics, for control units Cutoff, U - GLO	EI v3.8	2021
Power center, accessories, and power strip	market for acrylonitrile-butadiene-styrene copolymer acrylonitrile-butadiene-styrene copolymer Cutoff, U - GLO market for injection moulding injection moulding Cutoff, U - GLO market for aluminium, primary, ingot aluminium, primary, ingot Cutoff, U - IAI Area, North America market for aluminium scrap, new aluminium scrap, new Cutoff, U - RoW market for metal working, average for aluminium product manufacturing metal working, average for aluminium product manufacturing Cutoff, U - GLO	EI v3.8	2021

Component	Dataset	Data Source	Publication Date
Power center, accessories, and power strip	market for steel, chromium steel 18/8 steel, chromium steel 18/8 Cutoff, U – GLO market for metal working, average for chromium steel product manufacturing metal working, average for chromium steel product manufacturing Cutoff, U - GLO market for powder coat, aluminium sheet powder coat, aluminium sheet Cutoff, U – GLO market for powder coat, steel powder coat, steel Cutoff, U – GLO market for anodising, aluminium sheet anodising, aluminium sheet Cutoff, U - GLO market for power adapter, for laptop power adapter, for laptop Cutoff, U – GLO market for cable, unspecified cable, unspecified Cutoff, U – GLO market for printed wiring board, for power supply unit, desktop computer, Pb free printed wiring board, for power supply unit, desktop computer, Pb free Cutoff, U - GLO	EI v3.8	2021
Plastics			
Polyvinyl chloride (PVC)	market for polyvinylchloride, suspension polymerised polyvinylchloride, suspension polymerised Cutoff, U – GLO extrusion, plastic pipes extrusion, plastic pipes Cutoff, U - RoW	EI v3.8	2021
Polyethylene terephthalate (PET)	market for polyethylene terephthalate, granulate, amorphous polyethylene terephthalate, granulate, amorphous Cutoff, U – GLO extrusion, plastic pipes extrusion, plastic pipes Cutoff, U - RoW	EI v3.8	2021
Textile			
Polyester fabric	textile production, non woven polyester, needle punched textile, non-woven polyester Cutoff, U – RoW market for bleaching and dyeing, yarn bleaching and dyeing, yarn Cutoff, U – GLO	EI v3.8	2021
Finishing materials			
Stains, varnishes and paints	market for butyl acetate butyl acetate Cutoff, U – RoW market for toluene diisocyanate toluene diisocyanate Cutoff, U - RoW market for chemical, organic chemical, organic Cutoff, U – GLO market for toluene, liquid toluene, liquid Cutoff, U – RoW market for isobutyl acetate isobutyl acetate Cutoff, U – GLO market for methyl ethyl ketone methyl ethyl ketone Cutoff, U - RoW market for ethanol, without water, in 99.7% solution state, from ethylene ethanol, without water, in 99.7% solution state, from ethylene Cutoff, U – RoW market for ethyl benzene ethyl benzene Cutoff, U – RoW market for naphtha naphtha Cutoff, U – RoW market for solvent, organic solvent, organic Cutoff, U – GLO market for xylene xylene Cutoff, U – RoW market for silicon, metallurgical grade silicon, metallurgical grade Cutoff, U – GLO	EI v3.8	2021
Powder coat	coating powder production coating powder Cutoff, U - RoW	EI v3.8	2021
PACKAGING			
Wood	EUR-flat pallet production EUR-flat pallet Cutoff, U - RoW	EI v3.8	2021
Corrugated box	corrugated board box production corrugated board box Cutoff, U - RoW	EI v3.8	2021
Cornerboard	white lined chipboard carton production white lined chipboard carton Cutoff, U - RoW	EI v3.8	2021
Packaging plastic	packaging film production, low density polyethylene packaging film, low density polyethylene Cutoff, U - RoW	EI v3.8	2021
Polypropylene foam	market for polypropylene, granulate polypropylene, granulate Cutoff, U - GLO	EI v3.8	2021
RESOURCES			
Grid electricity	Electricity, medium voltage, per kWh – NYLI subregion	EI v3.8; eGRID	2021; 2018
Natural gas	heat production, natural gas, at boiler modulating >100kW heat, district or industrial, natural gas Cutoff, U - RoW	EI v3.8	2021
Propane	market for propane propane Cutoff, U - GLO	EI v3.8	2021
Argon	market for argon, liquid argon, liquid Cutoff, U - RoW	EI v3.8	2021
TRANSPORTATION			
Road transport	market for transport, freight, lorry 16-32 metric ton, EURO4 transport, freight, lorry 16-32 metric ton, EURO4 Cutoff, U - RoW	EI v3.8	2021

Data Quality

The data quality assessment addressed the following parameters: time-related coverage, geographical coverage, technological coverage, precision, completeness, representativeness, consistency, reproducibility, sources of data, and uncertainty.

Table 8. Data quality assessment for the Innovant CROSS Benchmarking.

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 2017). 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 the US. Surrogate data used in the assessment are representative of global or European operations. Data representative of European operations are considered sufficiently similar to actual processes. Data representing product disposal are based on regional 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 fabrication 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	All assumptions, models, and data sources are documented. However, as the life cycle inventory has not been included, there is limited reproducibility.
Sources of the Data: Description of all primary and secondary data sources	Data representing energy use at Innovant's manufacturing facility represents 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 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 manufacturing stage data is high as the precise data on the energy and resource use could not be gathered, and mass-based allocation was necessary. 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.

Additional Environmental Information



Innovant supports a healthy indoor environment through emissions testing. Innovant CROSS Benching is 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.



References

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