

Declaration Owner

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Product

Zurn Sensor Faucets in Chrome finish

Functional Unit

One (1) lavatory faucet in an average commercial environment with a Reference Service Life of 10 years in a building with an Estimated Service Life of 75 years

EPD Number and Period of Validity

SCS-EPD-10743
EPD Valid September 22, 2026 through September 21, 2031

Product Category Rule

Sustainable Minds PCR Part A: Life Cycle Assessment Calculation Rules and Report Requirements. Version 4.0. February 2026.

Sustainable Minds PCR Part B: Product group definition - Commercial/public metered and manual lavatory faucets. Version 3.0. March 08, 2024

Program Operator

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Address:	511 W. Freshwater Way, Milwaukee, WI 53204, USA.
Declaration Number:	SCS-EPD-10743
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LCA Practitioner:	Asifur Rahman, SCS Consulting Services
LCA Software and LCI database:	OpenLCA 2.5 software and the Ecoinvent v3.12 database
Product's Intended Application:	For use with lavatory fixtures primarily for hand washing or simple rinsing.
Product RSL:	10 Years (ESL 75 Years)
Markets of Applicability:	North America
EPD Type:	Product-Specific
EPD Scope:	Cradle-to-Grave
LCIA Method and Version:	EF 3.1, CML-IA Baseline and TRACI 2.2
Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071	☐ internal ☒external
LCA Reviewer:	Lindita Bushi, Ph.D., Athena Sustainable Materials Institute
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PCR Review conducted by:	Hugues Imbeault-Tétreault, Rebe Feraldi, Rifat Karim
Independent verification of the declaration and data, according to ISO 14025 and the PCR	☐ internal ☒ external
EPD Verifier:	Lindita Bushi, Ph.D., Athena Sustainable Materials Institute

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Disclaimers: *This EPD conforms to ISO 14025, 14040, 14044, and ISO 21930.*

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.*

In accordance with ISO 21930:2017, EPDs are comparable only if they comply with the core PCR, use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works. The owner of the declaration shall be liable for the underlying information and evidence; SCS shall not be liable with respect to manufacturer information, life cycle assessment data, and evidence supplied or made available to SCS.

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1. ABOUT Zurn

Zurn Elkay Water Solutions supplies a wide range of clean water solutions for drinking water, hygiene and sustainable water management. Operating for over a century and headquartered in Milwaukee, Wisconsin, Zurn Elkay works to deliver products and systems that enhance and ensure water quality, safety, hygiene, flow control and conservation. The company's wide range of product portfolio includes products, such as flush valves, electronic faucets, sink systems, soap dispensing systems, and vitreous china fixtures for commercial, industrial, and institutional markets worldwide.
The Zurn sensor faucets manufactured for Zurn Elkay Water Solutions at four different manufacturing facilities in (i) Indonesia for the models ZG6913, ZG6915, and ZG6920, (ii) Vietnam for the models ZG6922, ZG6950, ZG6953, ZG6955, and ZG6956, (iii) Taiwan for the model ZG6951, and (iv) Thailand for the model Z6957-XL.

2. PRODUCT

2.1 Product Description

A commercial faucet is a plumbing fixture designed to discharge a specific volume of water into a lavatory that is turned on mechanically or electronically and intended to be installed in non-residential bathrooms that are exposed to walk-in traffic. The volume or cycle duration can be fixed or adjustable. Zurn sensor faucet products belong to the Commercial Plumbing Fixtures specification code, CSI code 22 42 39 and the UNSPSC code 30181700. The products under study include the following shown below.

Table 1. *Zurn sensor faucet models represented in this EPD including flow rates.*

Sensor Faucet Model	Main Features	Finish options	Flow Rates: gpm [Lpm]
ZG6913 	AquaSense® Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered.	Chrome	0.35 [1.3], 0.5 [1.9], 1.0 [3.8], 1.5 [5.7]
ZG6915 	AquaSense® 4 in. Base Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]
ZG6920 	AquaSense® 5-3/8 in. Gooseneck Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7] 2.0 [7.6]
ZG6922 	AquaSense® Wall Mount 5-3/8 in. Gooseneck Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7] 2.0 [7.6]
ZG6950 	Serio Series® Sensor Faucet With Gear-driven ceramic cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]
ZG6951 	Fulmer Series® Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]

Sensor Faucet Model		Main Features	Finish options	Flow Rates: gpm [Lpm]
ZG6953		Camaya Series® Sensor Faucet with Gear-driven Ceramic Cartridge, Hydropower, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]
ZG6955		Serio Series® 4 in. Base Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]
ZG6956		Cumberland Series® Sensor Faucet With Gear-driven Ceramic Cartridge, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]
Z6957-XL		Wall-Mounted Battery Powered Sensor Faucet Solenoid-driven, battery powered	Chrome	0.35 [1.3], 0.5 [1.9] 1.0 [3.8], 1.5 [5.7]

2.2 Application

The sensor faucets are designed for use with lavatory fixtures as the dispensing unit for water for hand washing or simple rinsing. The faucets are primarily installed in commercial, industrial, and institutional markets worldwide.

2.3 Material Composition

Table 2. *Material components of Zurn sensor faucets in chrome finish.*

Material Group	ZG6913		ZG6915		ZG6920		ZG6922		ZG6950	
	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass
Brass	0.92	65.8%	1.00	66.6%	0.92	65.7%	0.92	65.6%	1.18	67.9%
Stainless Steel	0.113	8.07%	0.123	8.16%	0.113	8.05%	0.113	8.05%	0.144	8.32%
Aluminium	-	-	-	-	-	-	0.002	0.14%	0.003	0.17%
Battery	0.20	14.3%	0.20	13.3%	0.20	14.3%	0.20	14.3%	0.20	11.5%
Cable	0.051	3.65%	0.055	3.69%	0.051	3.64%	0.051	3.63%	0.065	3.76%
Electronics	0.099	7.04%	0.107	7.12%	0.099	7.02%	0.098	7.02%	0.126	7.26%
EPDM	$1.15x10^{-4}$	0.01%	$1.25x10^{-4}$	0.01%	$1.15x10^{-4}$	0.01%	$1.15x10^{-4}$	0.01%	$1.47x10^{-4}$	0.01%
Plastic	$5.88x10^{-4}$	0.04%	$6.38x10^{-4}$	0.04%	$5.88x10^{-4}$	0.04%	$5.86x10^{-4}$	0.04%	$7.51x10^{-4}$	0.04%
Rubber	0.005	0.39%	0.006	0.39%	0.005	0.39%	0.005	0.38%	0.007	0.40%
Metal Coating	0.010	0.68%	0.011	0.71%	0.013	0.93%	0.011	0.80%	0.011	0.62%
Total	**1.400**	**100%**	**1.504**	**100%**	**1.403**	**100%**	**1.400**	**100%**	**1.735**	**100%**

Material Group	ZG6951		ZG6953		ZG6955		ZG6956		Z6957-XL	
	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass
Brass	0.87	64.0%	1.14	67.6%	1.53	69.7%	1.05	66.9%	0.64	61.1%
Stainless Steel	0.107	7.85%	0.140	8.28%	0.187	8.55%	0.129	8.20%	0.078	7.48%
Aluminium	-	-	0.002	0.12%	0.003	0.14%	0.003	0.19%	-	-
Battery	0.20	14.6%	0.20	11.9%	0.20	9.1%	0.20	12.7%	0.20	19.2%
Cable	0.048	3.55%	0.063	3.74%	0.085	3.86%	0.058	3.70%	0.048	4.65%
Electronics	0.093	6.84%	0.122	7.22%	0.163	7.45%	0.112	7.15%	0.068	6.53%
EPDM	$1.09x10^{-4}$	0.01%	$1.43x10^{-4}$	0.01%	$1.91x10^{-4}$	0.01%	$1.32x10^{-4}$	0.01%	$7.95x10^{-5}$	0.01%
Plastic	$2.29x10^{-2}$	1.67%	$7.27x10^{-4}$	0.04%	$9.75x10^{-4}$	0.04%	$6.71x10^{-4}$	0.04%	$4.05x10^{-4}$	0.04%
Rubber	0.005	0.38%	0.007	0.40%	0.009	0.41%	0.006	0.39%	0.004	0.36%
Metal Coating	0.014	1.03%	0.013	0.75%	0.014	0.66%	0.011	0.69%	0.007	0.69%
Total	**1.366**	**100%**	**1.687**	**100%**	**2.192**	**100%**	**1.573**	**100%**	**1.042**	**100%**

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2.4 Flow Diagram

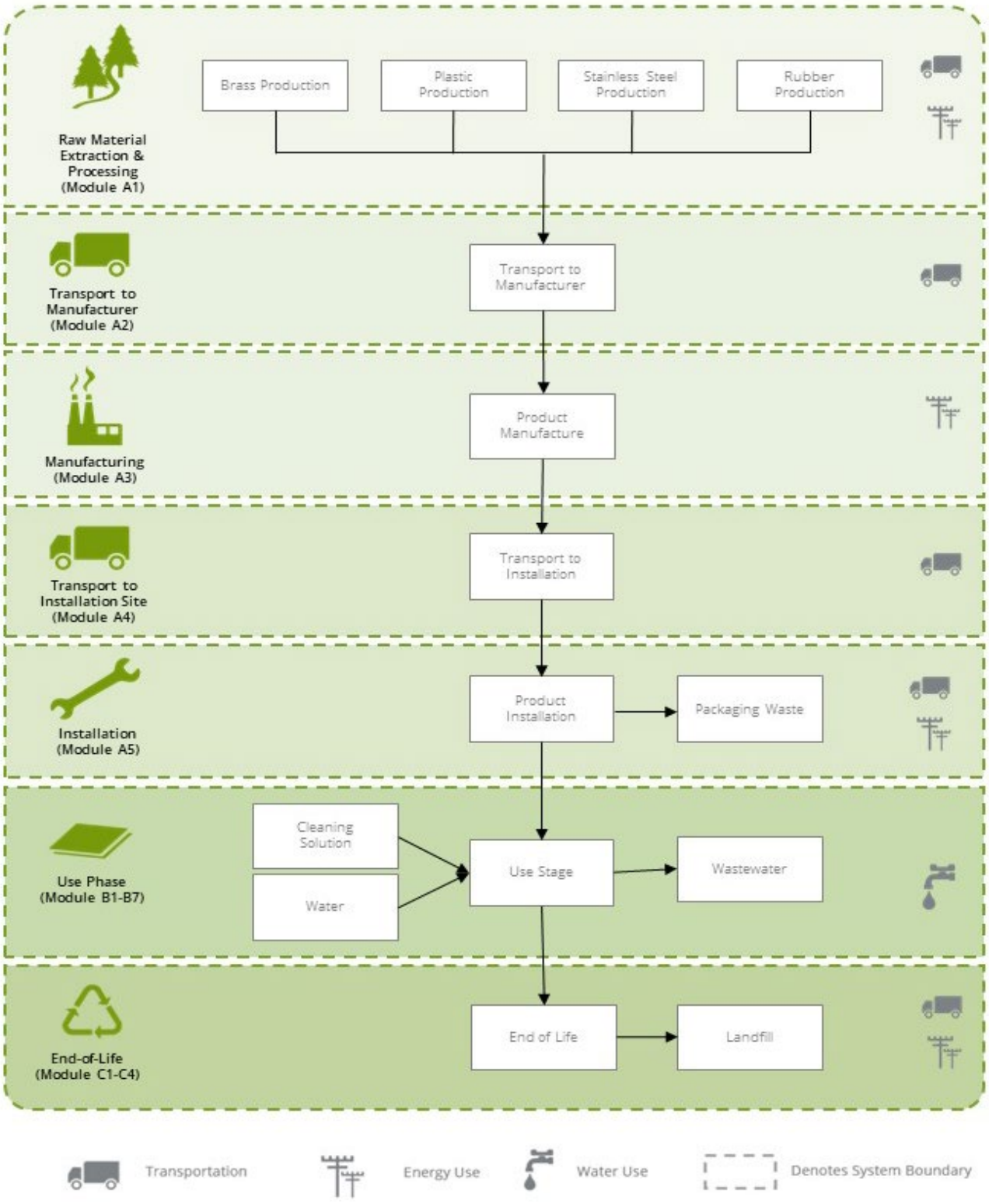


Figure 1. *Flow diagram for the Zurn sensor faucets with chrome finish.*

3. LCA: METHODOLOGICAL FRAMEWORK

3.1 Functional Unit

The functional unit used in the study is one (1) installed unit with a reference service life (RSL) of 10 years. The building estimated service life (ESL) is assumed to be 75-years.

Table 3. *Zurn sensor faucets (Chrome) functional unit properties.*

Sensor Faucet Model	Mass (Kg)	Functional Unit	RSL (years)	ESL (years)
ZG6913	1.40	one (1) installed product	10	75
ZG6915	1.504			
ZG6920	1.403			
ZG6922	1.40			
ZG6950	1.735			
ZG6951	1.366			
ZG6953	1.687			
ZG6955	2.192			
ZG6956	1.573			
Z6957-XL	1.042			

3.2 System Boundary

The scope of the EPD is cradle-to-grave, including raw material extraction and processing; raw material transportation; product manufacture, including packaging; product distribution; installation; use; and end-of-life.

Table 4. *Zurn sensor faucet system boundaries.*

Product			Construction Process		Use							End-of-life				Benefits and loads beyond the system boundary
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material extraction and processing	Transport to manufacturer	Manufacturing	Transport	Construction - installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse, recovery and/or recycling potential
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MND

X = Included in system boundary
MND = Module not declared

3.3 Allocation

Manufacturing resource use was allocated to the products based on mass. Impacts from transportation were allocated based on the mass of material and distance transported. No burdens are allocated across the system boundary with secondary material, secondary fuel or recovered energy flows arising from waste

3.4 Cut-off criteria

As per PCR, processes contributing greater than 1% of the total environmental impact for each indicator are included in the inventory. No data gaps were allowed which were expected to significantly affect the outcome of the indicator results.

3.5 Data Sources

Primary data, including supplier locations, were provided by the manufacturers for their facilities. The principal source of secondary LCI data is the Ecoinvent v3.12 database.

Table 5. *LCI datasets and associated databases used to model the Zurn Sensor Faucets (Chrome).*

Component	Dataset	Data Source	Publication Date
Product			
Brass	market for brass | brass | Cutoff, U - RoW	Ecoinvent 3.12	2025
	market for casting, brass | casting, brass | Cutoff, U - GLO	Ecoinvent 3.12	2025
Steel	market for steel, chromium steel 18/8, hot rolled | steel, chromium steel 18/8, hot rolled | Cutoff, U - RoW	Ecoinvent 3.12	2025
	market for metal working, average for chromium steel product manufacturing | metal working, average for chromium steel product manufacturing | Cutoff, U - GLO	Ecoinvent 3.12	2025
Plastic	market for glass fibre reinforced plastic, polyamide, injection moulded | glass fibre reinforced plastic, polyamide, injection moulded | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for acrylonitrile-butadiene-styrene copolymer | acrylonitrile-butadiene-styrene copolymer | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for nylon 6-6 | nylon 6-6 | Cutoff, U - RoW	Ecoinvent 3.12	2025
	market for polycarbonate | polycarbonate | Cutoff, U - RoW	Ecoinvent 3.12	2025
Battery	market for battery, Li-ion, LFP, rechargeable | battery, Li-ion, LFP, rechargeable | Cutoff, U - GLO	Ecoinvent 3.12	2025
	AA Alkaline Battery, Zn-MnO_2, custom dataset developed within Ecoinvent	Ecoinvent 3.12	2025
Sensor Electronics	Market for printed wiring board, for surface mounting, Pb free surface | printed wiring board, for surface mounting, Pb free surface | Cutoff, U-GLO	Ecoinvent 3.12	2025
	market for capacitor, for surface-mounting | capacitor, for surface-mounting | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for electronic component, active, unspecified | electronic component, active, unspecified | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for electronic component, passive, unspecified | electronic component, passive, unspecified | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for integrated circuit, memory type | integrated circuit, memory type | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for light emitting diode | light emitting diode | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for resistor, surface-mounted | resistor, surface-mounted | Cutoff, U - GLO	Ecoinvent 3.12	2025
Rubber	market for synthetic rubber | synthetic rubber | Cutoff, U - GLO	Ecoinvent 3.12	2025
EPDM	market for acrylonitrile-butadiene-styrene copolymer | acrylonitrile-butadiene-styrene copolymer | Cutoff, U - GLO	Ecoinvent 3.12	2025
Aluminium	market for aluminium, primary, ingot | aluminium, primary, ingot | Cutoff, U-RoW	Ecoinvent 3.12	2025
	market for section bar extrusion, aluminium | section bar extrusion, aluminium | Cutoff, U - GLO	Ecoinvent 3.12	2025
Cable	market for cable, unspecified | cable, unspecified | Cutoff, U - GLO	Ecoinvent 3.12	2025
Recycled Brass	market for brass | brass | Cutoff, U - RoW	Ecoinvent 3.12	2025
	market for lead smelter slag | lead smelter slag | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for scrap copper | scrap copper | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for casting, brass | casting, brass | Cutoff, U - GLO	Ecoinvent 3.12	2025
	market for zinc scrap, post-consumer | zinc scrap, post-consumer | Cutoff, U - GLO	Ecoinvent 3.12	2025
Metal Coating (Chrome)	hard chromium coating, electroplating, steel substrate, 0.14 mm thickness | hard chromium coat, electroplating, steel substrate, 0.14 mm thickness | Cutoff, U-GLO	Ecoinvent 3.12	2025
Packaging			
Paper	market for kraft paper | kraft paper | Cutoff, U-RoW	Ecoinvent 3.12	2025
Cardboard	market for corrugated board box | corrugated board box | Cutoff, U-RoW	Ecoinvent 3.12	2025
Plastic	market for glass fibre reinforced plastic, polyamide, injection moulded | glass fibre reinforced plastic, polyamide, injection moulded | Cutoff, U-GLO	Ecoinvent 3.12	2025

Component	Dataset	Data Source	Publication Date
	market for polyvinylfluoride | polyvinylfluoride | Cutoff, U-GLO	Ecoinvent 3.12	2025
Transport			
Truck	market for transport, freight, lorry 16-32 metric ton, EURO4 | transport, freight, lorry 16-32 metric ton, EURO4 | Cutoff, U - RoW	Ecoinvent 3.12	2025
Ship	market for transport, freight, sea, container ship | transport, freight, sea, container ship | Cutoff, U - GLO	Ecoinvent 3.12	2025
Manufacture			
Electricity (Indonesia)	market for electricity, medium voltage | electricity, medium voltage | Cutoff, U - Indonesia	Ecoinvent 3.12	2025
Electricity (Vietnam)	market for electricity, medium voltage | electricity, medium voltage | Cutoff, U - Vietnam	Ecoinvent 3.12	2025
Electricity (Taiwan)	market for electricity, medium voltage | electricity, medium voltage | Cutoff, U - Taiwan	Ecoinvent 3.12	2025
Electricity (Thailand)	market for electricity, medium voltage | electricity, medium voltage | Cutoff, U - Thailand	Ecoinvent 3.12	2025
Water	market for tap water | tap water | Cutoff, U -RoW	Ecoinvent 3.12	2025
Natural Gas	heat production, natural gas, at industrial furnace >100kW | heat, district or industrial, natural gas | Cutoff, U - RoW	Ecoinvent 3.12	2025
Light Fuel Oil	market for light fuel oil | light fuel oil | Cutoff, U - RoW	Ecoinvent 3.12	2025
Use Phase			
Soap	market for soap | soap | Cutoff, U -GLO	Ecoinvent 3.12	2025
Water	market for tap water | tap water | Cutoff, U	Ecoinvent 3.12	2025
Electricity for water supply and treatment	market group for electricity, medium voltage | electricity, medium voltage | Cutoff, U - US	Ecoinvent 3.12	2025
Natural Gas	market for heat, district or industrial, natural gas | heat, district or industrial, natural gas | Cutoff, U - RoW	Ecoinvent 3.12	2025
Waste			
Hazardous Waste	market for hazardous waste, for incineration | hazardous waste, for incineration | Cutoff, U - RoW	Ecoinvent 3.12	2025
Landfill	market for inert waste, for final disposal | inert waste, for final disposal | Cutoff, U - RoW	Ecoinvent 3.12	2025
Wastewater	market for wastewater, average | wastewater, average | Cutoff, U - RoW	Ecoinvent 3.12	2025

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3.6 Data Quality

Table 6. *Data Quality Assessment.*

Data Quality Parameter	Data Quality Discussion
Time-related Coverage: Age of data and the minimum length of time over which data is collected	All the manufacturers for Zurn provided primary data on product manufacturing at their facilities for operations not older than 2024. The manufacturers provided primary data on product assembly for the sensor electronics, brass components, and other assembly parts. Representative datasets (secondary data) for upstream and background processes are generally less than 5 years old.
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 Ecoinvent country-specific grid-mixes dataset in this study. Surrogate data used in the assessment are representative of global or US operations and are considered sufficiently similar to actual processes.
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 component 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 v3.12 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 the 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 all the manufacturing facilities represent a 12-month 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 v3.12 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 was not available for all suppliers and the study relied upon the use of existing representative datasets. These datasets contained relatively recent data (<5 years) but lacked geographical representativeness. Uncertainty related to the impact assessment methods used in the study are high. The impact assessment methodology includes impact potentials, which lack characterization of providing and receiving environments or tipping points.

3.7 Period under review

The period of review is based on a 12-month period from July 2024 through June 2025 for the Indonesia facility, January to December 2025 for the Vietnam and Thailand facilities, and January to December 2024 for the Taiwan facility.

3.8 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.

3.9 Estimates and Assumptions

- A weighted average recycled brass content of 66.4% was calculated based on data provided by brass parts suppliers located primarily in Vietnam, Taiwan, and Thailand.
- The coating finish (Chrome) for the sensor faucets were modeled based on process description from the Zurn suppliers and using secondary datasets for the processes from the Ecoinvent (v3.12) database.
- Country-specific Ecoinvent electricity datasets were used to estimate resource use and emissions from electricity use at the manufacturing facilities.
- Product transport from point of purchase to the building site is assumed to be 800 km as required by the Part B PCR.
- Product installation is assumed to be manual, requiring no additional materials or energy use.
- Transport of the packaging waste at installation is assumed to be 100 km as required by the Part B PCR.
- Transport of the product at end-of-life to waste processing and disposal is assumed to be 100 km as required by the Part B PCR.
- The Reference Service Life (RSL) of the products was modeled as 10 years, as required by the Part B PCR.
- The Estimated Service Life (ESL) of the building/construction works was assumed to be 75 years, as required by the Part B PCR.
- The maintenance of the products is assumed to include daily cleaning with a cleaning solution of 10 ml of 1% sodium lauryl sulfate solution as specified in the Part B PCR.
- The products are assumed not to require any repair (B3), except for the ZG6957-XL, which requires backup batteries and solenoid replacement every 5 years.
- No refurbishment (B5) is required under normal operating conditions over the RSL, hence no impacts assumed.
- The products are assumed to require no replacement during the 10-year RSL, but in accordance with the Part A PCR and Part B PCR, requires replacement 6.5 times over the 75-year ESL.
- The use phase modules are modeled for the building/construction works ESL of 75 years.
- For the product end-of-life, the recycling and disposal of parts used in the product is based on manufacturer provided information.

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4. LCA: TECHNICAL INFORMATION AND SCENARIOS

4.1 Manufacture

The faucet spouts for the Zurn sensor faucets with chrome finish are manufactured at four different facilities in (i) Indonesia, (ii) Vietnam, (iii) Taiwan, and (iv) Thailand. The sensor electronics are assembled using parts from suppliers to produce the finished faucet assembly. This module also includes the packaging for the components as well as the packaging for the final products prior to shipping. The manufacturer provided primary data for twelve months of data including production, resource use and electricity consumption, and waste generation at the facilities. Electricity consumption is modeled using modified Ecoinvent datasets for the country-specific grid-mix for the facility.

4.2 Packaging

Table 7. *Zurn Sensor Faucets (Chrome) packaging per functional unit.*

Material Group	ZG6913		ZG6915		ZG6920		ZG6922		ZG6950	
	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass
Paper	0.20	55.1%	0.20	55.1%	0.20	55.1%	0.20	63.9%	0.20	63.9%
Cardboard	0.163	44.9%	0.163	44.9%	0.163	44.9%	0.113	36.1%	0.113	36.1%
Plastic	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%
Total	**0.363**	**100%**	**0.363**	**100%**	**0.363**	**100%**	**0.313**	**100%**	**0.313**	**100%**
Material Group	**ZG6951**		**ZG6953**		**ZG6955**		**ZG6956**		**Z6957-XL**	
	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass	Mass (kg)	% Mass
Paper	0.20	63.1%	0.20	63.9%	0.20	63.9%	0.20	63.9%	0.26	74.7%
Cardboard	0.113	35.7%	0.113	36.1%	0.113	36.1%	0.113	36.1%	0.088	25.3%
Plastic	$3.91x10^{-3}$	1.23%	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%	$1.00x10^{-5}$	0.003%	-	-
Total	**0.317**	**100%**	**0.313**	**100%**	**0.313**	**100%**	**0.313**	**100%**	**0.348**	**100%**

4.3 Transportation

Table 8. *Zurn sensor faucets transportation (road and ship) summary*

Name	Unit	Indonesia Facility	Vietnam Facility	Taiwan Facility	Thailand Facility
Vehicle Type	-	Freight Truck	Freight Truck	Freight Truck	Freight Truck
Liters of fuel	l/100 km	18.7	18.7	18.7	18.7
Fuel type	-	Diesel	Diesel	Diesel	Diesel
Total Transport Distance	**km**	**950**	**1,057**	**942**	**1,090**
Factory to Port	km	*43*	*150*	*35*	*90*
Port to Distribution	km	*107*	*107*	*107*	*200*
Point of purchase to installation (per PCR)	km	*800*	*800*	*800*	*800*
Capacity utilization	%	50	50	50	50
Vehicle Type	-	Ocean Freighter	Ocean Freighter	Ocean Freighter	Ocean Freighter
Liters of fuel	l/100 km	0.41	0.41	0.41	0.41
Fuel type	-	Heavy Fuel Oil	Heavy Fuel Oil	Heavy Fuel Oil	Heavy Fuel Oil
Total Transport Distance	**km**	**14,625**	**12,800**	**11,600**	**24,000**
Port to Port	km	*14,625*	*12,800*	*11,600*	*24,000*
Gross mass of products transported including packaging	kg	ZG6913: 1.763 ZG6915: 1.713 ZG6920: 1.766	ZG6922: 1.713 ZG6950: 2.048 ZG6953: 2.0 ZG6955: 2.505 ZG6956: 1.886	ZG6951: 1.683	Z 6957 XL: 1.39

4.4 Installation

Installation of the product is included in the life cycle of the sensor faucets. The installation of the sensor faucets is completed using manual labor and does not require additional ancillary materials. Waste is generated from the disposal of the packaging material and is modeled as required in the Part A PCR. Table 9 and 10 summarize the modeling parameters and the packaging waste respectively for the product installation phase.

Table 9. *Zurn sensor faucets installation summary.*

Name	Unit	Value
Ancillary materials	kg	0
Net freshwater consumption specified by water source and fate	m^3	0
Other resources	kg	0
Electricity consumption	kwh	0
Other energy carriers	MJ	0
Product loss per functional unit	kg	0
Waste materials at the construction site before waste processing, generated by product installation	kg	0
Output materials resulting from on-site waste processing	kg	0

Table 10. *Packaging waste (from installation) summary for the Zurn sensor faucets.*

Sensor Faucet Model	Total Mass of Packaging Waste	Mass of packaging waste specified by type			Biogenic carbon contained in packaging (kg CO2)	Direct emissions (kg)	VOC emissions (µg/m^3)
		Recycle (kg)	Landfill (kg)	Incineration (kg)			
ZG6913	0.363	0.247	0.093	0.022	0.182	0	0
ZG6915	0.363	0.247	0.093	0.022	0.182	0	0
ZG6920	0.363	0.247	0.093	0.022	0.182	0	0
ZG6922	0.313	0.213	0.080	0.019	0.157	0	0
ZG6950	0.313	0.213	0.080	0.019	0.157	0	0
ZG6951	0.317	0.215	0.081	0.019	0.157	0	0
ZG6953	0.313	0.213	0.080	0.019	0.157	0	0
ZG6955	0.313	0.213	0.080	0.019	0.157	0	0
ZG6956	0.313	0.213	0.080	0.019	0.157	0	0
Z6957-XL	0.348	0.237	0.089	0.021	0.174	0	0

4.5 Use

Table 11. *Zurn sensor faucets maintenance summary.*

Maintenance	Unit	Value
Description of process	-	Daily cleaning with 10 ml 1% sodium lauryl sulfate solution
Maintenance cycle/RSL	Days (events)/RSL	2,600
Maintenance cycle/RSL	Days (events)/ESL	19,500
Net freshwater consumption		
Tap water	m^3/RSL	0.03
Ancillary materials		
Sodium lauryl sulfate (soap)	Kg/RSL	0.263
Other resources	kg	0
Energy input	kWh	0
Other energy carriers	kWh	0
Power output of equipment	kW	0
Waste materials from maintenance	kg	0
Direst emissions to ambient air, soil, and water	kg	0
Further assumptions for scenario development	-	-

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As per the manufacturer, the Z6957-XL faucet needs backup AA batteries and solenoid replacement generally every 5 years, or once during their RSL. The relevant information for the Repair (Module B3) module for the Z6957-XL faucet only is provided below.

Table 12. Use phase repair (Module B3) summary for the Zurn Z6957-XL sensor faucet, per ESL

Repair	Unit	Z6957-XL (Chrome)
Repair process information	-	Per manufacturer, the AA alkaline backup batteries and the Solenoid may need replacement to repair product
Inspection process information	-	N/A
Repair cycle	Cycles/RSL	1
Repair cycle	Cycles/ESL	7
Net freshwater consumption	m^3	0
Ancillary materials	kg	1.099
Backup Battery	kg	*0.644*
Solenoid	Kg	*0.455*
Energy input	kWh	0
Waste materials from repair	kg	1.099
Landfill	kg	*1.099*
Direct emissions to ambient air, soil, and water	kg	0
Further assumption for scenario development	-	-

Table 13. *Zurn sensor faucets replacement summary.*

Replacement	Unit	Value
Reference Service Life	Years	10
Replacement cycle (ESL/RSL)-1	-	6.5
Energy input	kWh	0
Net freshwater consumption	m^3	0
Ancillary materials	kg	0
Replacement of materials (kg/RSL)		
ZG6913	Kg/RSL	1.40
ZG6915	Kg/RSL	1.504
ZG6920	Kg/RSL	1.403
ZG6922	Kg/RSL	1.40
ZG6950	Kg/RSL	1.735
ZG6951	Kg/RSL	1.366
ZG6953	Kg/RSL	1.687
ZG6955	Kg/RSL	2.192
ZG6956	Kg/RSL	1.573
Z6957-XL	Kg/RSL	1.042
Direct emissions to ambient air, soil, and water	Kg/RSL	0
Further assumptions for scenario development	-	-

Table 14. *Use phase operational energy (B6) use summary for the Zurn Chrome sensor faucets*

Operational Energy Use (B6)	Unit	Zurn Sensor Faucets				
		0.35 gpm (1.3 Lpm)	0.5 gpm (1.9 Lpm)	1.0 gpm (3.8 Lpm)	1.5 gpm (5.7 Lpm)	2.0 gpm (7.6 Lpm)
Energy input	kWh/RSL	3,306	4,723	9,446	14,170	18,893
	kWh/ESL	24,797	35,424	70,849	106,273	141,697
Equipment power output	kW	0	0	0	0	0
Characteristic performance	-	-				
Direct emissions to ambient air, soil, water	kg	0	0	0	0	0
Further assumptions for scenario development (per PCR part B for lavatories[11])	water use is assumed 70% hot water, 30% cold water heating for hot water is assumed 33% electricity (0.1765 kwh per gallon), 67% natural gas (0.8784 Mcf per 1000 gallons)					
Duration of Use (minutes)	0.25					
Number of uses per day	90					
Number of use days per year	260					
Number of uses per year	23400					

Table 15. *Use phase operational water (B7) summary for Zurn chrome sensor faucets (gpm = gallons per minute, Lpm = Liters per minute)*

Operational Water Use (B7)	Unit	Zurn Sensor Faucets				
		0.35 gpm (1.3 Lpm)	0.5 gpm (1.9 Lpm)	1.0 gpm (3.8 Lpm)	1.5 gpm (5.7 Lpm)	2.0 gpm (7.6 Lpm)
Net freshwater consumption						
City water to sewer	m^3 per RSL	78	111	221	332	443
	m^3 per ESL	581	830	1661	2491	3322
Ancillary materials	kg	0	0	0	0	0
Energy input	kWh	0	0	0	0	0
Equipment power output	kW	0	0	0	0	0
Characteristic performance	-	-			-	
Direct emissions to ambient air, soil, water	kg	0	0	0	0	0
Further assumptions for scenario development (per PCR part B for lavatories[1])	A weighted average composite factor of 0.00364 KWh/gallon, or 0.000961 KWh/liter for electricity usage for water distribution and wastewater collection and treatment was used. The weighted average factor is estimated based on data published by the Electric Power Research Institute (EPRI)[2] and weighted average composite factors established by the EPA.[3,4]					
Duration of Use (minutes)	0.25					
Number of uses per day	90					
Number of operating days per year	260					
Number of uses per year	23400					

[1] Sustainable Minds PCR Part B: Product group definition - Commercial/public metered and manual lavatory faucets. Version 3.0. March 08, 2024

[2] EPRI, Water & Sustainability (Volume 4): U.S. Electricity Consumption for Water Supply & Treatment -- The Next Half Century, March 2002.

[3] U.S. Environmental Protection Agency (EPA), Office of Water (4606) Drinking Water Treatment, June 2004 https://transparencycatalog.com/assets/uploads/files/2009_08_28_sdwa_fs_30ann_treatment_web.pdf.

[4] U.S. Environmental Protection Agency (EPA), Clean Watersheds Needs Survey 2012 Report to Congress. https://www.epa.gov/sites/default/files/2015-12/documents/cwns_2012_report_to_congress-508-opt.pdf. https://www.safeplumbing.org/files/safeplumbing.org/documents/resources/PMI-Kitchen-and-Bath-Fixture-Fitting-PCR-Guidance-Document.pdf.

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4.6 End-of-Life

Table 16. *Zurn sensor faucets (Chrome) end-of-life summary.*

End-of-life		Unit	ZG6913	ZG6915	ZG6920	ZG6922	ZG6950
Assumptions for scenario development			Manual deconstruction, followed by 100 km truck transport to final disposal in landfill				
Collection process	Collected separately	kg	0	0	0	0	0
	Collected with mixed construction waste	kg	1.4	1.504	1.403	1.4	1.735
Recovery	Reuse	kg	0	0	0	0	0
	Recycling	kg	0.880	0.955	0.880	0.877	1.124
	Landfill	kg	0.520	0.549	0.523	0.523	0.611
	Incineration	kg	0	0	0	0	0
	Incineration with energy recovery	kg	0	0	0	0	0
	Energy conversion	-	-	-	-	-	-
Disposal	Product of material for final deposition	kg	0.520	0.549	0.523	0.523	0.611
Removals of biogenic carbon (excluding packaging)		kg CO_2	0	0	0	0	0
End-of-life		**Unit**	**ZG6951**	**ZG6953**	**ZG6955**	**ZG6956**	**Z6957-XL**
Assumptions for scenario development			Manual deconstruction, followed by 100 km truck transport to final disposal in landfill				
Collection process	Collected separately	kg	0	0	0	0	0
	Collected with mixed construction waste	kg	1.366	1.687	2.192	1.573	1.042
Recovery	Reuse	kg	0	0	0	0	0
	Recycling	kg	0.835	1.088	1.459	1.004	0.607
	Landfill	kg	0.531	0.599	0.733	0.569	0.435
	Incineration	kg	0	0	0	0	0
	Incineration with energy recovery	kg	0	0	0	0	0
	Energy conversion	-	-	-	-	-	-
Disposal	Product of material for final deposition	kg	0.531	0.599	0.733	0.569	0.435
Removals of biogenic carbon (excluding packaging)		kg CO_2	0	0	0	0	0

5. LCA: RESULTS

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. All LCA results are stated to three significant figures in agreement with the PCR for this product and therefore the sum of the total values may not exactly equal 100%.

Category indicator results for the sensor faucets in chrome finishes are summarized for the functional unit of one (1) installed unit with a reference service life (RSL) of 10 year by life cycle phase in the sections below for the Estimated Service Life (ESL) of 75-years as required by the PCR.

Results for Operational Energy (B6) and Water (B7) Use are shown separately and reported for the available flow rate applications. The following environmental impact category indicators are reported using characterization factors using the CML-IA and the TRACI 2.2 impact assessment method. Additionally, global warming potentials are reported using the EF 3.1 methodology, based on IPCC 2021 (AR 6), as described in EN 15804.[5]

[5] CEN (2021): EN 15804:A1:2012+A2:2019/AC:2021, Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products.

Table 17. *Mandatory Environmental Impact Assessment Categories.*

CML-IA Impact Category	Unit	TRACI 2.2 Impact Category	Unit
Global Warming Potential (GWP) – IPCC 2013	kg CO_2 eq	Global Warming Potential (GWP) – IPCC 2007	kg CO_2 eq
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC 11 eq	Ozone Depletion Potential (ODP)	kg CFC 11 eq
Acidification Potential of soil and water (AP)	kg SO_2 eq	Acidification Potential (AP)	kg SO_2 eq
Eutrophication Potential (EP)	kg $(PO_4)^{3-}$ eq	Eutrophication Potential: Freshwater (EP: Freshwater)	kg P eq
Photochemical Oxidant Creation Potential (POCP)	kg C_2H_4 eq	Eutrophication Potential: Marine (EP: Marine)	kg N eq
Abiotic depletion potential (ADP-fossil fuels) for fossil resources	MJ, LHV	Smog Formation Potential (SFP)	kg O_3 eq
Global Warming Potential (IPCC AR 6)	**Unit**		
Global Warming Potential (GWP_{total})	kg CO_2 eq		
Global Warming Potential - fossil fuels (GWP_{fossil})	kg CO_2 eq		
Global Warming Potential – ($GWP_{biogenic}$)	kg CO_2 eq		
Global Warming Potential - land use and land use change (GWP_{luluc})	kg CO_2 eq		

These impact categories are globally deemed mature enough to be included in Type III environmental declarations. Other categories are being developed and defined and LCA should continue making advances in their development. However, the EPD users shall not use additional measures for comparative purposes.

The following inventory parameters, specified by the PCR, are also reported.

Table 18. *Additional Transparency Categories.*

Resources	Unit	Waste and Outflows	Unit
RPR_E: Renewable primary resources used as energy carrier (fuel)	MJ, LHV	**HWD:** Hazardous waste disposed	kg
RPR_M: Renewable primary resources with energy content used as material	MJ, LHV	**NHWD:** Non-hazardous waste disposed	kg
RPR_{total}: Total use of renewable Primary Resources with energy content	MJ, LHV	**HLRW:** High-level Radioactive waste, conditioned, to final repository	kg
$NRPR_E$: Non-renewable primary resources used as an energy carrier (fuel)	MJ, LHV	**ILLRW:** Low -level Radioactive waste, conditioned, to final repository	kg
$NRPR_M$: Non-renewable primary resources with energy content used as material	MJ, LHV	**CRU:** Components for re-use	kg
$NRPR_{total}$: Total use of non-renewable Primary Resources with energy content	MJ, LHV	**MR:** Materials for recycling	kg
SM: Secondary materials	kg	**MER:** Materials for energy recovery	kg
RSF: Renewable secondary fuels	MJ, LHV	**EE:** Recovered energy exported from the product system	MJ, LHV
NRSF: Non-renewable secondary fuels	MJ, LHV		
RE: Recovered energy	MJ, LHV		
FW: Use of new freshwater resources	m^3		

Carbon emissions and removals are also reported in line with the PCR, as shown below.

Table 19. *Additional carbon emissions and removals indicators.*

Carbon emissions and removals indicators	Unit	Carbon emissions and removals indicators	Unit
BCRP: Biogenic carbon removals from product	kg CO_2	**CCE:** Carbon emissions from calcination	kg CO_2
BCEP: Biogenic carbon emissions from product	kg CO_2	**CCR:** Carbon removals from calcination	kg CO_2
BCRK: Biogenic carbon removals from packaging	kg CO_2	**CBCEW:** Carbon emissions from combustion of waste from renewable sources used in production	kg CO_2
BCEK: Biogenic carbon removals from packaging	kg CO_2	**CWNR:** Carbon emissions from combustion of waste from non-renewable sources used in production processes	kg CO_2

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Zurn Sensor Faucets (Chrome) Results (EF 3.1 GWP indicators)

Table 20. *Results on GWP indicators (EF 3.1) for the sensor faucets in chrome finish.*

EF 3.1 GWP indicators	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
ZG6913 (Chrome)												
GWP_{total}	kg CO_2 eq	13.6	$7.40x10^{-2}$	0.486	**14.1**	0.600	$5.78x10^{-2}$	3.08	96.4	$2.80x10^{-2}$	$2.34x10^{-2}$	$9.52x10^{-3}$
GWP_{fossil}	kg CO_2 eq	13.4	$7.40x10^{-2}$	0.861	**14.4**	0.599	$5.77x10^{-2}$	2.66	98.1	$2.80x10^{-2}$	$2.33x10^{-2}$	$9.48x10^{-3}$
$GWP_{biogenic}$	kg CO_2 eq	$8.54x10^{-2}$	$5.26x10^{-6}$	-0.378	**-0.292**	$7.00x10^{-5}$	$5.14x10^{-5}$	-4.86	-1.90	$9.20x10^{-6}$	$3.80x10^{-5}$	$1.31x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.61x10^{-2}$	$3.69x10^{-5}$	$2.01x10^{-3}$	**$2.82x10^{-2}$**	$2.94x10^{-4}$	$2.07x10^{-5}$	5.28	0.186	$1.27x10^{-5}$	$6.45x10^{-5}$	$2.45x10^{-5}$
ZG6915 (Chrome)												
GWP_{total}	kg CO_2 eq	14.6	$8.07x10^{-2}$	0.486	**15.2**	0.635	$5.78x10^{-2}$	3.08	104	$3.01x10^{-2}$	$2.55x10^{-2}$	$1.00x10^{-2}$
GWP_{fossil}	kg CO_2 eq	14.5	$8.07x10^{-2}$	0.861	**15.4**	0.634	$5.77x10^{-2}$	2.66	105	$3.01x10^{-2}$	$2.54x10^{-2}$	$1.00x10^{-2}$
$GWP_{biogenic}$	kg CO_2 eq	$9.26x10^{-2}$	$5.64x10^{-6}$	-0.378	**-0.285**	$7.42x10^{-5}$	$5.14x10^{-5}$	-4.86	-1.85	$9.88x10^{-6}$	$4.13x10^{-5}$	$1.38x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.83x10^{-2}$	$4.02x10^{-5}$	$2.01x10^{-3}$	**$3.04x10^{-2}$**	$3.11x10^{-4}$	$2.07x10^{-5}$	5.28	0.200	$1.37x10^{-5}$	$7.01x10^{-5}$	$2.58x10^{-5}$
ZG6920 (Chrome)												
GWP_{total}	kg CO_2 eq	14.0	$7.41x10^{-2}$	0.486	**14.6**	0.601	$5.78x10^{-2}$	3.08	99.4	$2.81x10^{-2}$	$2.42x10^{-2}$	$9.57x10^{-3}$
GWP_{fossil}	kg CO_2 eq	13.9	$7.41x10^{-2}$	0.861	**14.8**	0.600	$5.77x10^{-2}$	2.66	101	$2.81x10^{-2}$	$2.41x10^{-2}$	$9.53x10^{-3}$
$GWP_{biogenic}$	kg CO_2 eq	$8.82x10^{-2}$	$5.25x10^{-6}$	-0.378	**-0.289**	$7.02x10^{-5}$	$5.14x10^{-5}$	-4.86	-1.88	$9.22x10^{-6}$	$3.92x10^{-5}$	$1.32x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.71x10^{-2}$	$3.69x10^{-5}$	$2.01x10^{-3}$	**$2.91x10^{-2}$**	$2.94x10^{-4}$	$2.07x10^{-5}$	5.28	0.192	$1.27x10^{-5}$	$6.65x10^{-5}$	$2.46x10^{-5}$
ZG6922 (Chrome)												
GWP_{total}	kg CO_2 eq	13.8	$2.51x10^{-2}$	3.60	**17.4**	0.583	$4.99x10^{-2}$	3.08	118	$2.80x10^{-2}$	$2.34x10^{-2}$	$9.57x10^{-3}$
GWP_{fossil}	kg CO_2 eq	13.7	$2.50x10^{-2}$	3.95	**17.7**	0.582	$4.98x10^{-2}$	2.66	119	$2.80x10^{-2}$	$2.33x10^{-2}$	$9.53x10^{-3}$
$GWP_{biogenic}$	kg CO_2 eq	$8.65x10^{-2}$	$5.41x10^{-6}$	-0.359	**-0.272**	$6.81x10^{-5}$	$4.44x10^{-5}$	-4.86	-1.77	$9.20x10^{-6}$	$3.79x10^{-5}$	$1.32x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.66x10^{-2}$	$1.19x10^{-5}$	$1.77x10^{-3}$	**$2.84x10^{-2}$**	$2.86x10^{-4}$	$1.78x10^{-5}$	5.28	0.187	$1.27x10^{-5}$	$6.43x10^{-5}$	$2.46x10^{-5}$
ZG6950 (Chrome)												
GWP_{total}	kg CO_2 eq	16.4	$2.99x10^{-2}$	3.60	**20.1**	0.696	$4.99x10^{-2}$	3.08	136	$4.10x10^{-2}$	$3.00x10^{-2}$	$1.12x10^{-2}$
GWP_{fossil}	kg CO_2 eq	16.3	$2.98x10^{-2}$	3.95	**20.3**	0.696	$4.98x10^{-2}$	2.66	137	$4.10x10^{-2}$	$2.98x10^{-2}$	$1.11x10^{-2}$
$GWP_{biogenic}$	kg CO_2 eq	0.105	$6.54x10^{-6}$	-0.359	**-0.254**	$8.14x10^{-5}$	$4.44x10^{-5}$	-4.86	-1.65	$1.35x10^{-5}$	$4.86x10^{-5}$	$1.54x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$3.20x10^{-2}$	$1.41x10^{-5}$	$1.77x10^{-3}$	**$3.38x10^{-2}$**	$3.41x10^{-4}$	$1.78x10^{-5}$	5.28	0.223	$1.86x10^{-5}$	$8.25x10^{-5}$	$2.87x10^{-5}$

EF 3.1 GWP indicators	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
ZG6951 (Chrome)												
GWP_{total}	kg CO_2 eq	14.0	$3.20x10^{-2}$	18.0	**32.1**	0.572	$4.99x10^{-2}$	3.08	213	$2.74x10^{-2}$	$2.22x10^{-2}$	$9.72x10^{-3}$
GWP_{fossil}	kg CO_2 eq	13.9	$3.20x10^{-2}$	18.2	**32.2**	0.572	$4.98x10^{-2}$	2.66	214	$2.73x10^{-2}$	$2.21x10^{-2}$	$9.68x10^{-3}$
$GWP_{biogenic}$	kg CO_2 eq	$8.66x10^{-2}$	$7.25x10^{-6}$	-0.198	**-0.111**	$6.69x10^{-5}$	$4.44x10^{-5}$	-4.86	-0.720	$8.98x10^{-6}$	$3.61x10^{-5}$	$1.34x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.71x10^{-2}$	$1.51x10^{-5}$	$1.72x10^{-2}$	**$4.43x10^{-2}$**	$2.81x10^{-4}$	$1.79x10^{-5}$	5.28	0.291	$1.24x10^{-5}$	$6.12x10^{-5}$	$2.50x10^{-5}$
ZG6953 (Chrome)												
GWP_{total}	kg CO_2 eq	16.6	$2.92x10^{-2}$	3.60	**20.2**	0.680	$4.99x10^{-2}$	3.08	136	$3.38x10^{-2}$	$2.90x10^{-2}$	$1.10x10^{-2}$
GWP_{fossil}	kg CO_2 eq	16.4	$2.92x10^{-2}$	3.95	**20.4**	0.680	$4.98x10^{-2}$	2.66	138	$3.38x10^{-2}$	$2.89x10^{-2}$	$1.09x10^{-2}$
$GWP_{biogenic}$	kg CO_2 eq	0.105	$6.39x10^{-6}$	-0.359	**-0.254**	$7.95x10^{-5}$	$4.44x10^{-5}$	-4.86	-1.65	$1.11x10^{-5}$	$4.70x10^{-5}$	$1.51x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$3.23x10^{-2}$	$1.38x10^{-5}$	$1.77x10^{-3}$	**$3.40x10^{-2}$**	$3.33x10^{-4}$	$1.78x10^{-5}$	5.28	0.224	$1.53x10^{-5}$	$7.98x10^{-5}$	$2.82x10^{-5}$
ZG6955 (Chrome)												
GWP_{total}	kg CO_2 eq	20.6	$2.92x10^{-2}$	3.60	**24.2**	0.852	$4.99x10^{-2}$	3.08	164	$4.39x10^{-2}$	$3.89x10^{-2}$	$1.34x10^{-2}$
GWP_{fossil}	kg CO_2 eq	20.4	$2.92x10^{-2}$	3.95	**24.4**	0.851	$4.98x10^{-2}$	2.66	165	$4.39x10^{-2}$	$3.87x10^{-2}$	$1.34x10^{-2}$
$GWP_{biogenic}$	kg CO_2 eq	0.134	$6.39x10^{-6}$	-0.359	**-0.225**	$9.95x10^{-5}$	$4.44x10^{-5}$	-4.86	-1.46	$1.44x10^{-5}$	$6.31x10^{-5}$	$1.84x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$4.05x10^{-2}$	$1.38x10^{-5}$	$1.77x10^{-3}$	**$4.23x10^{-2}$**	$4.18x10^{-4}$	$1.78x10^{-5}$	5.28	0.279	$1.99x10^{-5}$	$1.07x10^{-4}$	$3.45x10^{-5}$
ZG6956 (Chrome)												
GWP_{total}	kg CO_2 eq	15.1	$2.75x10^{-2}$	3.60	**18.7**	0.641	$4.99x10^{-2}$	3.08	126	$3.15x10^{-2}$	$2.68x10^{-2}$	$1.04x10^{-2}$
GWP_{fossil}	kg CO_2 eq	14.9	$2.75x10^{-2}$	3.95	**18.9**	0.641	$4.98x10^{-2}$	2.66	128	$3.15x10^{-2}$	$2.66x10^{-2}$	$1.04x10^{-2}$
$GWP_{biogenic}$	kg CO_2 eq	$9.53x10^{-2}$	$5.99x10^{-6}$	-0.359	**-0.264**	$7.49x10^{-5}$	$4.44x10^{-5}$	-4.86	-1.71	$1.03x10^{-5}$	$4.34x10^{-5}$	$1.43x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$2.92x10^{-2}$	$1.30x10^{-5}$	$1.77x10^{-3}$	**$3.09x10^{-2}$**	$3.14x10^{-4}$	$1.78x10^{-5}$	5.28	0.204	$1.43x10^{-5}$	$7.36x10^{-5}$	$2.68x10^{-5}$

EF 3.1 GWP indicators	Unit	Life Cycle Module											
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B3	B4	C2	C3	C4
ZG6957-XL (Chrome)													
GWP_{total}	kg CO_2 eq	10.4	$2.14x10^{-2}$	0.434	**10.8**	0.473	$5.51x10^{-2}$	3.08	21.2	74.1	$2.09x10^{-2}$	$1.62x10^{-2}$	$7.96x10^{-3}$
GWP_{fossil}	kg CO_2 eq	10.3	$2.14x10^{-2}$	0.730	**11.0**	0.472	$5.51x10^{-2}$	2.66	21.0	75.5	$2.09x10^{-2}$	$1.61x10^{-2}$	$7.93x10^{-3}$
$GWP_{biogenic}$	kg CO_2 eq	$6.27x10^{-2}$	$2.14x10^{-6}$	-0.299	**-0.237**	$5.52x10^{-5}$	$4.91x10^{-5}$	-4.86	0.145	-1.54	$6.85x10^{-6}$	$2.62x10^{-5}$	$1.09x10^{-5}$
GWP_{luluc}	kg CO_2 eq	$1.96x10^{-2}$	$1.06x10^{-5}$	$3.00x10^{-3}$	**$2.27x10^{-2}$**	$2.32x10^{-4}$	$1.97x10^{-5}$	5.28	$3.84x10^{-2}$	0.149	$9.47x10^{-6}$	$4.45x10^{-5}$	$2.05x10^{-5}$

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Zurn Sensor Faucets (Chrome) Results (CML, TRACI 2.2, Resource Use, and Waste/Output indicators)

Table 21. *LCIA indicator results for the ZG6913 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	13.4	$7.36x10^{-2}$	0.880	**14.4**	0.596	$5.76x10^{-2}$	7.90	98.1	$2.79x10^{-2}$	$2.33x10^{-2}$	$9.44x10^{-3}$
ODP	kg CFC-11 eq	$3.98x10^{-7}$	$8.21x10^{-10}$	$1.39x10^{-8}$	**$4.13x10^{-7}$**	$6.64x10^{-9}$	$8.49x10^{-10}$	$1.05x10^{-7}$	$2.74x10^{-6}$	$3.06x10^{-10}$	$2.80x10^{-10}$	$1.49x10^{-10}$
AP	kg SO_2 eq	0.219	$1.04x10^{-3}$	$3.16x10^{-3}$	**0.223**	$7.25x10^{-3}$	$7.26x10^{-5}$	$2.26x10^{-2}$	1.50	$8.90x10^{-5}$	$1.18x10^{-4}$	$3.82x10^{-5}$
EP	kg CO_2 eq	0.103	$1.51x10^{-4}$	$2.91x10^{-3}$	**0.107**	$1.14x10^{-3}$	$6.72x10^{-5}$	$3.46x10^{-2}$	0.701	$3.52x10^{-5}$	$3.87x10^{-5}$	$1.61x10^{-5}$
POCP	kg C_2H_4 eq	$8.54x10^{-3}$	$3.05x10^{-5}$	$1.70x10^{-4}$	**$8.74x10^{-3}$**	$2.20x10^{-4}$	$3.54x10^{-6}$	$4.45x10^{-3}$	$5.83x10^{-2}$	$4.29x10^{-6}$	$4.63x10^{-6}$	$1.99x10^{-6}$
ADPE	kg Sb eq	$1.11x10^{-3}$	$6.93x10^{-8}$	$7.91x10^{-7}$	**$1.11x10^{-3}$**	$6.24x10^{-7}$	$2.85x10^{-8}$	$1.20x10^{-5}$	$7.25x10^{-3}$	$4.28x10^{-8}$	$3.11x10^{-8}$	$1.14x10^{-8}$
ADPF	MJ	149	0.947	7.64	**157**	7.77	0.293	24.3	1,080	0.383	0.312	0.164
TRACI 2.2												
GWP	kg CO_2 eq	13.3	$7.31x10^{-2}$	0.872	**14.3**	0.592	$5.75x10^{-2}$	7.95	97.5	$2.76x10^{-2}$	$2.31x10^{-2}$	$9.34x10^{-3}$
ODP	kg CFC-11 eq	$4.24x10^{-7}$	$1.08x10^{-9}$	$1.57x10^{-8}$	**$4.41x10^{-7}$**	$8.74x10^{-9}$	$9.23x10^{-10}$	$1.10x10^{-7}$	$2.94x10^{-6}$	$4.02x10^{-10}$	$3.68x10^{-10}$	$1.97x10^{-10}$
AP	kg SO_2 eq	0.203	$1.12x10^{-3}$	$3.50x10^{-3}$	**0.207**	$7.87x10^{-3}$	$7.82x10^{-5}$	$2.57x10^{-2}$	1.40	$1.08x10^{-4}$	$1.40x10^{-4}$	$4.67x10^{-5}$
EP: Freshwater	kg P eq	$2.16x10^{-2}$	$4.85x10^{-6}$	$4.94x10^{-4}$	**$2.21x10^{-2}$**	$4.33x10^{-5}$	$1.47x10^{-5}$	$1.75x10^{-3}$	0.144	$2.88x10^{-6}$	$2.58x10^{-6}$	$9.18x10^{-7}$
EP: Marine	Kg N eq	$5.78x10^{-2}$	$8.89x10^{-4}$	$2.44x10^{-3}$	**$6.12x10^{-2}$**	$6.33x10^{-3}$	$5.51x10^{-5}$	$3.11x10^{-2}$	0.441	$1.09x10^{-4}$	$1.41x10^{-4}$	$4.99x10^{-5}$
SFP	Kg O_3 eq	1.25	$2.17x10^{-2}$	$5.36x10^{-2}$	**1.32**	0.154	$1.30x10^{-3}$	0.279	9.67	$2.65x10^{-3}$	$3.44x10^{-3}$	$4.99x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	26.0	$1.03x10^{-2}$	9.19	**35.2**	$8.95x10^{-2}$	$1.17x10^{-2}$	162	230	$5.42x10^{-3}$	$6.26x10^{-3}$	$2.07x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_E$	MJ	173	0.957	8.05	**182**	7.85	0.304	32.3	1,240	0.388	0.319	0.167
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.158	$1.02x10^{-4}$	$8.15x10^{-3}$	**0.167**	$8.91x10^{-4}$	$1.40x10^{-4}$	0.313	1.09	$5.49x10^{-5}$	$5.30x10^{-5}$	$9.64x10^{-5}$
Waste and Output Indicators												
HWD	kg	$3.41x10^{-3}$	$5.75x10^{-6}$	$1.10x10^{-6}$	**$3.42x10^{-3}$**	$4.84x10^{-5}$	$6.73x10^{-6}$	$3.34x10^{-4}$	$2.31x10^{-2}$	$2.64x10^{-6}$	$2.09x10^{-6}$	$1.10x10^{-6}$
NHWD	kg	1.17	$2.26x10^{-2}$	0.389	**1.58**	0.220	0.347	0.444	17.6	$1.81x10^{-2}$	$1.67x10^{-2}$	0.525
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.247	0.00	7.33	0.00	0.880	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 22. *LCIA indicator results for the ZG6915 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	14.5	$8.03x10^{-2}$	0.880	**15.4**	0.631	$5.76x10^{-2}$	7.90	105	$3.00x10^{-2}$	$2.53x10^{-2}$	$9.96x10^{-3}$
ODP	kg CFC-11 eq	$4.30x10^{-7}$	$8.96x10^{-10}$	$1.39x10^{-8}$	**$4.45x10^{-7}$**	$7.03x10^{-9}$	$8.49x10^{-10}$	$1.05x10^{-7}$	$2.95x10^{-6}$	$3.29x10^{-10}$	$3.05x10^{-10}$	$1.57x10^{-10}$
AP	kg SO_2 eq	0.235	$1.14x10^{-3}$	$3.16x10^{-3}$	**0.239**	$7.68x10^{-3}$	$7.26x10^{-5}$	$2.26x10^{-2}$	1.60	$9.56x10^{-5}$	$1.29x10^{-4}$	$4.04x10^{-5}$
EP	kg CO_2 eq	0.112	$1.65x10^{-4}$	$2.91x10^{-3}$	**0.115**	$1.21x10^{-3}$	$6.72x10^{-5}$	$3.46x10^{-2}$	0.754	$3.78x10^{-5}$	$4.21x10^{-5}$	$1.70x10^{-5}$
POCP	kg C_2H_4 eq	$9.16x10^{-3}$	$3.34x10^{-5}$	$1.70x10^{-4}$	**$9.36x10^{-3}$**	$2.32x10^{-4}$	$3.54x10^{-6}$	$4.45x10^{-3}$	$6.25x10^{-2}$	$4.61x10^{-6}$	$5.03x10^{-6}$	$2.10x10^{-6}$
ADPE	kg Sb eq	$1.20x10^{-3}$	$7.53x10^{-8}$	$7.91x10^{-7}$	**$1.20x10^{-3}$**	$6.61x10^{-7}$	$2.85x10^{-8}$	$1.20x10^{-5}$	$7.80x10^{-3}$	$4.60x10^{-8}$	$3.37x10^{-8}$	$1.20x10^{-8}$
ADPF	MJ	160	1.03	7.64	**169**	8.22	0.293	24.3	1,160	0.411	0.339	0.174
TRACI 2.2												
GWP	kg CO_2 eq	14.4	$7.97x10^{-2}$	0.872	**15.3**	0.627	$5.75x10^{-2}$	7.95	105	$2.97x10^{-2}$	$2.51x10^{-2}$	$9.86x10^{-3}$
ODP	kg CFC-11 eq	$4.58x10^{-7}$	$1.18x10^{-9}$	$1.57x10^{-8}$	**$4.75x10^{-7}$**	$9.25x10^{-9}$	$9.23x10^{-10}$	$1.10x10^{-7}$	$3.16x10^{-6}$	$4.32x10^{-10}$	$4.00x10^{-10}$	$2.08x10^{-10}$
AP	kg SO_2 eq	0.217	$1.23x10^{-3}$	$3.50x10^{-3}$	**0.222**	$8.33x10^{-3}$	$7.82x10^{-5}$	$2.57x10^{-2}$	1.50	$1.16x10^{-4}$	$1.53x10^{-4}$	$4.93x10^{-5}$
EP: Freshwater	kg P eq	$2.34x10^{-2}$	$5.28x10^{-6}$	$4.94x10^{-4}$	**$2.39x10^{-2}$**	$4.58x10^{-5}$	$1.47x10^{-5}$	$1.75x10^{-3}$	0.156	$3.09x10^{-6}$	$2.80x10^{-6}$	$9.69x10^{-7}$
EP: Marine	Kg N eq	$6.21x10^{-2}$	$9.73x10^{-4}$	$2.44x10^{-3}$	**$6.55x10^{-2}$**	$6.71x10^{-3}$	$5.51x10^{-5}$	$3.11x10^{-2}$	0.472	$1.17x10^{-4}$	$1.53x10^{-4}$	$5.26x10^{-5}$
SFP	Kg O_3 eq	1.35	$2.37x10^{-2}$	$5.36x10^{-2}$	**1.42**	0.163	$1.30x10^{-3}$	0.279	10.4	$2.85x10^{-3}$	$3.74x10^{-3}$	$5.26x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	28.1	$1.13x10^{-2}$	9.19	**37.3**	$9.48x10^{-2}$	$1.17x10^{-2}$	162	244	$5.83x10^{-3}$	$6.81x10^{-3}$	$2.19x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	28.1	$1.13x10^{-2}$	9.19	**37.3**	$9.48x10^{-2}$	$1.17x10^{-2}$	162	244	$5.83x10^{-3}$	$6.81x10^{-3}$	$2.19x10^{-3}$
$NRPR_E$	MJ	186	1.04	8.05	**195**	8.31	0.304	32.3	1,330	0.417	0.346	0.176
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	186	1.04	8.05	**195**	8.31	0.304	32.3	1,330	0.417	0.346	0.176
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.171	$1.11x10^{-4}$	$8.15x10^{-3}$	**0.179**	$9.43x10^{-4}$	$1.40x10^{-4}$	0.313	1.17	$5.90x10^{-5}$	$5.76x10^{-5}$	$1.02x10^{-4}$
Waste and Output Indicators												
HWD	kg	$3.65x10^{-3}$	$6.27x10^{-6}$	$1.16x10^{-6}$	**$3.66x10^{-3}$**	$5.12x10^{-5}$	$6.73x10^{-6}$	$3.34x10^{-4}$	$2.46x10^{-2}$	$2.84x10^{-6}$	$2.28x10^{-6}$	$1.16x10^{-6}$
NHWD	kg	1.25	$2.45x10^{-2}$	0.389	**1.67**	0.233	0.347	0.444	18.4	$1.95x10^{-2}$	$1.81x10^{-2}$	0.555
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.247	0.00	7.81	0.00	0.955	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table 23. *LCIA indicator results for the ZG6920 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	13.9	$7.37x10^{-2}$	0.880	**14.8**	0.597	$5.76x10^{-2}$	7.90	101	$2.79x10^{-2}$	$2.40x10^{-2}$	$9.49x10^{-3}$
ODP	kg CFC-11 eq	$4.01x10^{-7}$	$8.23x10^{-10}$	$1.39x10^{-8}$	**$4.15x10^{-7}$**	$6.65x10^{-9}$	$8.49x10^{-10}$	$1.05x10^{-7}$	$2.75x10^{-6}$	$3.07x10^{-10}$	$2.89x10^{-10}$	$1.50x10^{-10}$
AP	kg SO_2 eq	0.221	$1.04x10^{-3}$	$3.16x10^{-3}$	**0.225**	$7.27x10^{-3}$	$7.26x10^{-5}$	$2.26x10^{-2}$	1.51	$8.91x10^{-5}$	$1.22x10^{-4}$	$3.85x10^{-5}$
EP	kg CO_2 eq	0.105	$1.51x10^{-4}$	$2.91x10^{-3}$	**0.108**	$1.14x10^{-3}$	$6.72x10^{-5}$	$3.46x10^{-2}$	0.708	$3.53x10^{-5}$	$3.99x10^{-5}$	$1.62x10^{-5}$
POCP	kg C_2H_4 eq	$8.61x10^{-3}$	$3.06x10^{-5}$	$1.70x10^{-4}$	**$8.81x10^{-3}$**	$2.20x10^{-4}$	$3.54x10^{-6}$	$4.45x10^{-3}$	$5.88x10^{-2}$	$4.30x10^{-6}$	$4.78x10^{-6}$	$2.00x10^{-6}$
ADPE	kg Sb eq	$1.11x10^{-3}$	$6.93x10^{-8}$	$7.91x10^{-7}$	**$1.12x10^{-3}$**	$6.25x10^{-7}$	$2.85x10^{-8}$	$1.20x10^{-5}$	$7.25x10^{-3}$	$4.29x10^{-8}$	$3.20x10^{-8}$	$1.14x10^{-8}$
ADPF	MJ	154	0.949	7.64	**162**	7.78	0.293	24.3	1,110	0.384	0.322	0.165
TRACI 2.2												
GWP	kg CO_2 eq	13.8	$7.32x10^{-2}$	0.872	**14.7**	0.593	$5.75x10^{-2}$	7.95	100	$2.77x10^{-2}$	$2.38x10^{-2}$	$9.39x10^{-3}$
ODP	kg CFC-11 eq	$4.27x10^{-7}$	$1.08x10^{-9}$	$1.57x10^{-8}$	**$4.44x10^{-7}$**	$8.75x10^{-9}$	$9.23x10^{-10}$	$1.10x10^{-7}$	$2.96x10^{-6}$	$4.03x10^{-10}$	$3.80x10^{-10}$	$1.98x10^{-10}$
AP	kg SO_2 eq	0.205	$1.12x10^{-3}$	$3.50x10^{-3}$	**0.209**	$7.88x10^{-3}$	$7.82x10^{-5}$	$2.57x10^{-2}$	1.41	$1.08x10^{-4}$	$1.45x10^{-4}$	$4.70x10^{-5}$
EP: Freshwater	kg P eq	$2.18x10^{-2}$	$4.85x10^{-6}$	$4.94x10^{-4}$	**$2.23x10^{-2}$**	$4.33x10^{-5}$	$1.47x10^{-5}$	$1.75x10^{-3}$	0.146	$2.89x10^{-6}$	$2.66x10^{-6}$	$9.23x10^{-7}$
EP: Marine	Kg N eq	$5.89x10^{-2}$	$8.91x10^{-4}$	$2.44x10^{-3}$	**$6.22x10^{-2}$**	$6.34x10^{-3}$	$5.51x10^{-5}$	$3.11x10^{-2}$	0.448	$1.09x10^{-4}$	$1.46x10^{-4}$	$5.01x10^{-5}$
SFP	Kg O_3 eq	1.28	$2.17x10^{-2}$	$5.36x10^{-2}$	**1.35**	0.155	$1.30x10^{-3}$	0.279	9.84	$2.66x10^{-3}$	$3.55x10^{-3}$	$5.01x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	26.8	$1.04x10^{-2}$	9.19	**36.0**	$8.97x10^{-2}$	$1.17x10^{-2}$	162	235	$5.44x10^{-3}$	$6.46x10^{-3}$	$2.09x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	26.8	$1.04x10^{-2}$	9.19	**36.0**	$8.97x10^{-2}$	$1.17x10^{-2}$	162	235	$5.44x10^{-3}$	$6.46x10^{-3}$	$2.09x10^{-3}$
$NRPR_E$	MJ	179	0.958	8.05	**188**	7.86	0.304	32.3	1,280	0.389	0.329	0.167
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	179	0.958	8.05	**188**	7.86	0.304	32.3	1,280	0.389	0.329	0.167
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.161	$1.02x10^{-4}$	$8.15x10^{-3}$	**0.169**	$8.92x10^{-4}$	$1.40x10^{-4}$	0.313	1.11	$5.50x10^{-5}$	$5.47x10^{-5}$	$9.70x10^{-5}$
Waste and Output Indicators												
HWD	kg	$3.43x10^{-3}$	$5.76x10^{-6}$	$1.10x10^{-6}$	**$3.44x10^{-3}$**	$4.85x10^{-5}$	$6.73x10^{-6}$	$3.34x10^{-4}$	$2.32x10^{-2}$	$2.65x10^{-6}$	$2.16x10^{-6}$	$1.10x10^{-6}$
NHWD	kg	1.18	$2.26x10^{-2}$	0.389	**1.60**	0.220	0.347	0.444	17.7	$1.82x10^{-2}$	$1.72x10^{-2}$	0.528
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.247	0.00	7.33	0.00	0.880	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 24. *LCIA indicator results for the ZG6922 faucet in Chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	13.7	$2.49x10^{-2}$	3.95	**17.7**	0.579	$4.98x10^{-2}$	7.90	119	$2.79x10^{-2}$	$2.32x10^{-2}$	$9.49x10^{-3}$
ODP	kg CFC-11 eq	$4.00x10^{-7}$	$2.76x10^{-10}$	$1.83x10^{-8}$	**$4.18x10^{-7}$**	$6.45x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$2.77x10^{-6}$	$3.06x10^{-10}$	$2.79x10^{-10}$	$1.50x10^{-10}$
AP	kg SO_2 eq	0.219	$1.98x10^{-4}$	$2.99x10^{-2}$	**0.249**	$7.05x10^{-3}$	$6.27x10^{-5}$	$2.26x10^{-2}$	1.67	$8.90x10^{-5}$	$1.18x10^{-4}$	$3.85x10^{-5}$
EP	kg CO_2 eq	0.104	$4.00x10^{-5}$	$1.16x10^{-2}$	**0.116**	$1.11x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	0.759	$3.52x10^{-5}$	$3.86x10^{-5}$	$1.62x10^{-5}$
POCP	kg C_2H_4 eq	$8.56x10^{-3}$	$6.67x10^{-6}$	$1.11x10^{-3}$	**$9.68x10^{-3}$**	$2.13x10^{-4}$	$3.05x10^{-6}$	$4.45x10^{-3}$	$6.44x10^{-2}$	$4.29x10^{-6}$	$4.61x10^{-6}$	$2.00x10^{-6}$
ADPE	kg Sb eq	$1.11x10^{-3}$	$3.18x10^{-8}$	$1.56x10^{-6}$	**$1.11x10^{-3}$**	$6.06x10^{-7}$	$2.46x10^{-8}$	$1.20x10^{-5}$	$7.23x10^{-3}$	$4.28x10^{-8}$	$3.09x10^{-8}$	$1.14x10^{-8}$
ADPF	MJ	151	0.333	41.3	**193**	7.55	0.253	24.3	1,310	0.383	0.311	0.165
TRACI 2.2												
GWP	kg CO_2 eq	13.6	$2.47x10^{-2}$	3.92	**17.5**	0.575	$4.96x10^{-2}$	7.95	119	$2.76x10^{-2}$	$2.30x10^{-2}$	$9.39x10^{-3}$
ODP	kg CFC-11 eq	$4.26x10^{-7}$	$3.62x10^{-10}$	$2.24x10^{-8}$	**$4.49x10^{-7}$**	$8.49x10^{-9}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$2.98x10^{-6}$	$4.02x10^{-10}$	$3.67x10^{-10}$	$1.98x10^{-10}$
AP	kg SO_2 eq	0.203	$2.20x10^{-4}$	$2.94x10^{-2}$	**0.233**	$7.64x10^{-3}$	$6.75x10^{-5}$	$2.57x10^{-2}$	1.57	$1.08x10^{-4}$	$1.40x10^{-4}$	$4.70x10^{-5}$
EP: Freshwater	kg P eq	$2.17x10^{-2}$	$2.17x10^{-6}$	$2.04x10^{-3}$	**$2.37x10^{-2}$**	$4.20x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.155	$2.88x10^{-6}$	$2.57x10^{-6}$	$9.23x10^{-7}$
EP: Marine	Kg N eq	$5.84x10^{-2}$	$1.86x10^{-4}$	$1.26x10^{-2}$	**$7.11x10^{-2}$**	$6.15x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.505	$1.09x10^{-4}$	$1.41x10^{-4}$	$5.01x10^{-5}$
SFP	Kg O_3 eq	1.26	$4.54x10^{-3}$	0.300	**1.57**	0.150	$1.13x10^{-3}$	0.279	11.2	$2.65x10^{-3}$	$3.43x10^{-3}$	$5.01x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	26.4	$4.26x10^{-3}$	17.3	**43.8**	$8.70x10^{-2}$	$1.01x10^{-2}$	162	285	$5.42x10^{-3}$	$6.24x10^{-3}$	$2.09x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	26.4	$4.26x10^{-3}$	17.3	**43.8**	$8.70x10^{-2}$	$1.01x10^{-2}$	162	285	$5.42x10^{-3}$	$6.24x10^{-3}$	$2.09x10^{-3}$
$NRPR_E$	MJ	176	0.337	41.8	**218**	7.63	0.263	32.3	1,480	0.388	0.317	0.167
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	176	0.337	41.8	**218**	7.63	0.263	32.3	1,480	0.388	0.317	0.167
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.160	$4.28x10^{-5}$	$1.23x10^{-2}$	**0.172**	$8.65x10^{-4}$	$1.21x10^{-4}$	0.313	1.12	$5.49x10^{-5}$	$5.28x10^{-5}$	$9.70x10^{-5}$
Waste and Output Indicators												
HWD	kg	$3.42x10^{-3}$	$2.18x10^{-6}$	$1.21x10^{-4}$	**$3.54x10^{-3}$**	$4.70x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$2.34x10^{-2}$	$2.64x10^{-6}$	$2.09x10^{-6}$	$1.10x10^{-6}$
NHWD	kg	1.18	$1.25x10^{-2}$	0.463	**1.65**	0.213	0.299	0.444	17.7	$1.81x10^{-2}$	$1.66x10^{-2}$	0.528
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.247	0.00	7.33	0.00	0.880	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table 25. *LCIA indicator results for the ZG6950 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	16.3	$2.97x10^{-2}$	3.95	**20.2**	0.693	$4.98x10^{-2}$	7.90	137	$4.08x10^{-2}$	$2.98x10^{-2}$	$1.11x10^{-2}$
ODP	kg CFC-11 eq	$4.87x10^{-7}$	$3.28x10^{-10}$	$1.83x10^{-8}$	**$5.06x10^{-7}$**	$7.71x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$3.35x10^{-6}$	$4.48x10^{-10}$	$3.58x10^{-10}$	$1.75x10^{-10}$
AP	kg SO_2 eq	0.268	$2.32x10^{-4}$	$2.99x10^{-2}$	**0.298**	$8.43x10^{-3}$	$6.27x10^{-5}$	$2.26x10^{-2}$	1.99	$1.30x10^{-4}$	$1.52x10^{-4}$	$4.49x10^{-5}$
EP	kg CO_2 eq	0.127	$4.74x10^{-5}$	$1.16x10^{-2}$	**0.139**	$1.32x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	0.913	$5.15x10^{-5}$	$4.95x10^{-5}$	$1.89x10^{-5}$
POCP	kg C_2H_4 eq	$1.05x10^{-2}$	$7.85x10^{-6}$	$1.11x10^{-3}$	**$1.16x10^{-2}$**	$2.55x10^{-4}$	$3.05x10^{-6}$	$4.45x10^{-3}$	$7.70x10^{-2}$	$6.27x10^{-6}$	$5.92x10^{-6}$	$2.34x10^{-6}$
ADPE	kg Sb eq	$1.38x10^{-3}$	$3.81x10^{-8}$	$1.56x10^{-6}$	**$1.38x10^{-3}$**	$7.25x10^{-7}$	$2.46x10^{-8}$	$1.20x10^{-5}$	$8.98x10^{-3}$	$6.26x10^{-8}$	$3.97x10^{-8}$	$1.33x10^{-8}$
ADPF	MJ	180	0.397	41.3	**222**	9.02	0.253	24.3	1,510	0.560	0.399	0.193
TRACI 2.2												
GWP	kg CO_2 eq	16.2	$2.95x10^{-2}$	3.92	**20.1**	0.687	$4.96x10^{-2}$	7.95	136	$4.04x10^{-2}$	$2.95x10^{-2}$	$1.10x10^{-2}$
ODP	kg CFC-11 eq	$5.18x10^{-7}$	$4.32x10^{-10}$	$2.24x10^{-8}$	**$5.41x10^{-7}$**	$1.01x10^{-8}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$3.60x10^{-6}$	$5.88x10^{-10}$	$4.71x10^{-10}$	$2.31x10^{-10}$
AP	kg SO_2 eq	0.248	$2.57x10^{-4}$	$2.94x10^{-2}$	**0.277**	$9.14x10^{-3}$	$6.75x10^{-5}$	$2.57x10^{-2}$	1.86	$1.57x10^{-4}$	$1.80x10^{-4}$	$5.49x10^{-5}$
EP: Freshwater	kg P eq	$2.70x10^{-2}$	$2.60x10^{-6}$	$2.04x10^{-3}$	**$2.91x10^{-2}$**	$5.03x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.189	$4.21x10^{-6}$	$3.29x10^{-6}$	$1.08x10^{-6}$
EP: Marine	Kg N eq	$7.02x10^{-2}$	$2.19x10^{-4}$	$1.26x10^{-2}$	**$8.30x10^{-2}$**	$7.36x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.590	$1.59x10^{-4}$	$1.80x10^{-4}$	$5.86x10^{-5}$
SFP	Kg O_3 eq	1.53	$5.33x10^{-3}$	0.300	**1.83**	0.179	$1.13x10^{-3}$	0.279	13.2	$3.88x10^{-3}$	$4.40x10^{-3}$	$5.86x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	31.8	$5.10x10^{-3}$	17.3	**49.2**	0.104	$1.01x10^{-2}$	162	320	$7.94x10^{-3}$	$8.01x10^{-3}$	$2.44x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	31.8	$5.10x10^{-3}$	17.3	**49.2**	0.104	$1.01x10^{-2}$	162	320	$7.94x10^{-3}$	$8.01x10^{-3}$	$2.44x10^{-3}$
$NRPR_E$	MJ	209	0.402	41.8	**251**	9.12	0.263	32.3	1,700	0.567	0.407	0.196
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	209	0.402	41.8	**251**	9.12	0.263	32.3	1,700	0.567	0.407	0.196
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.194	$5.12x10^{-5}$	$1.23x10^{-2}$	**0.206**	$1.03x10^{-3}$	$1.21x10^{-4}$	0.313	1.35	$8.03x10^{-5}$	$6.78x10^{-5}$	$1.13x10^{-4}$
Waste and Output Indicators												
HWD	kg	$4.14x10^{-3}$	$2.61x10^{-6}$	$1.21x10^{-4}$	**$4.26x10^{-3}$**	$5.62x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$2.81x10^{-2}$	$3.87x10^{-6}$	$2.68x10^{-6}$	$1.29x10^{-6}$
NHWD	kg	1.42	$1.50x10^{-2}$	0.488	**1.92**	0.255	0.299	0.444	20.4	$2.65x10^{-2}$	$2.13x10^{-2}$	0.617
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.213	0.00	8.69	0.00	1.12	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 26. *LCIA indicator results for the ZG6951 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	13.9	$3.18x10^{-2}$	18.2	**32.1**	0.569	$4.98x10^{-2}$	7.90	213	$2.72x10^{-2}$	$2.21x10^{-2}$	$9.64x10^{-3}$
ODP	kg CFC-11 eq	$4.01x10^{-7}$	$3.52x10^{-10}$	$2.03x10^{-7}$	**$6.04x10^{-7}$**	$6.33x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$3.98x10^{-6}$	$2.99x10^{-10}$	$2.66x10^{-10}$	$1.52x10^{-10}$
AP	kg SO_2 eq	0.215	$2.39x10^{-4}$	$5.77x10^{-2}$	**0.273**	$6.92x10^{-3}$	$6.28x10^{-5}$	$2.26x10^{-2}$	1.82	$8.68x10^{-5}$	$1.12x10^{-4}$	$3.91x10^{-5}$
EP	kg CO_2 eq	0.103	$5.01x10^{-5}$	$5.42x10^{-2}$	**0.157**	$1.09x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	1.03	$3.43x10^{-5}$	$3.67x10^{-5}$	$1.64x10^{-5}$
POCP	kg C_2H_4 eq	$8.39x10^{-3}$	$8.18x10^{-6}$	$2.42x10^{-3}$	**$1.08x10^{-2}$**	$2.10x10^{-4}$	$3.06x10^{-6}$	$4.45x10^{-3}$	$7.18x10^{-2}$	$4.18x10^{-6}$	$4.39x10^{-6}$	$2.03x10^{-6}$
ADPE	kg Sb eq	$1.08x10^{-3}$	$4.14x10^{-8}$	$6.33x10^{-6}$	**$1.09x10^{-3}$**	$5.96x10^{-7}$	$2.47x10^{-8}$	$1.20x10^{-5}$	$7.06x10^{-3}$	$4.18x10^{-8}$	$2.94x10^{-8}$	$1.16x10^{-8}$
ADPF	MJ	154	0.426	209	**363**	7.41	0.253	24.3	2,410	0.374	0.296	0.168
TRACI 2.2												
GWP	kg CO_2 eq	13.8	$3.16x10^{-2}$	18.1	**31.9**	0.565	$4.96x10^{-2}$	7.95	212	$2.70x10^{-2}$	$2.19x10^{-2}$	$9.53x10^{-3}$
ODP	kg CFC-11 eq	$4.27x10^{-7}$	$4.63x10^{-10}$	$2.64x10^{-7}$	**$6.92x10^{-7}$**	$8.34x10^{-9}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$4.56x10^{-6}$	$3.92x10^{-10}$	$3.49x10^{-10}$	$2.01x10^{-10}$
AP	kg SO_2 eq	0.200	$2.66x10^{-4}$	$5.94x10^{-2}$	**0.259**	$7.51x10^{-3}$	$6.76x10^{-5}$	$2.57x10^{-2}$	1.74	$1.05x10^{-4}$	$1.33x10^{-4}$	$4.77x10^{-5}$
EP: Freshwater	kg P eq	$2.13x10^{-2}$	$2.82x10^{-6}$	$1.26x10^{-2}$	**$3.39x10^{-2}$**	$4.13x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.221	$2.81x10^{-6}$	$2.44x10^{-6}$	$9.37x10^{-7}$
EP: Marine	Kg N eq	$5.82x10^{-2}$	$2.27x10^{-4}$	$3.20x10^{-2}$	**$9.04x10^{-2}$**	$6.05x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.629	$1.06x10^{-4}$	$1.34x10^{-4}$	$5.09x10^{-5}$
SFP	Kg O_3 eq	1.26	$5.54x10^{-3}$	0.747	**2.01**	0.147	$1.13x10^{-3}$	0.279	14.1	$2.59x10^{-3}$	$3.26x10^{-3}$	$5.09x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	26.7	$5.51x10^{-3}$	13.2	**39.9**	$8.55x10^{-2}$	$1.01x10^{-2}$	162	260	$5.29x10^{-3}$	$5.94x10^{-3}$	$2.12x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	26.7	$5.51x10^{-3}$	13.2	**39.9**	$8.55x10^{-2}$	$1.01x10^{-2}$	162	260	$5.29x10^{-3}$	$5.94x10^{-3}$	$2.12x10^{-3}$
$NRPR_E$	MJ	179	0.431	244	**424**	7.49	0.263	32.3	2,810	0.378	0.302	0.170
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	179	0.431	244	**424**	7.49	0.263	32.3	2,810	0.378	0.302	0.170
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.159	$5.54x10^{-5}$	$4.93x10^{-2}$	**0.208**	$8.50x10^{-4}$	$1.21x10^{-4}$	0.313	1.36	$5.36x10^{-5}$	$5.02x10^{-5}$	$9.85x10^{-5}$
Waste and Output Indicators												
HWD	kg	$3.35x10^{-3}$	$2.81x10^{-6}$	$6.72x10^{-4}$	**$4.03x10^{-3}$**	$4.62x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$2.66x10^{-2}$	$2.58x10^{-6}$	$1.99x10^{-6}$	$1.12x10^{-6}$
NHWD	kg	1.16	$1.64x10^{-2}$	0.418	**1.59**	0.210	0.302	0.444	17.4	$1.77x10^{-2}$	$1.58x10^{-2}$	0.537
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.213	0.00	8.69	0.00	1.12	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table 27. *LCIA indicator results for the ZG6953 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	16.4	$2.91x10^{-2}$	3.95	**20.4**	0.676	$4.98x10^{-2}$	7.90	138	$3.36x10^{-2}$	$2.88x10^{-2}$	$1.09x10^{-2}$
ODP	kg CFC-11 eq	$4.88x10^{-7}$	$3.22x10^{-10}$	$1.83x10^{-8}$	**$5.06x10^{-7}$**	$7.53x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$3.35x10^{-6}$	$3.69x10^{-10}$	$3.47x10^{-10}$	$1.72x10^{-10}$
AP	kg SO_2 eq	0.263	$2.28x10^{-4}$	$2.99x10^{-2}$	**0.293**	$8.23x10^{-3}$	$6.27x10^{-5}$	$2.26x10^{-2}$	1.96	$1.07x10^{-4}$	$1.47x10^{-4}$	$4.41x10^{-5}$
EP	kg CO_2 eq	0.126	$4.64x10^{-5}$	$1.16x10^{-2}$	**0.138**	$1.29x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	0.905	$4.24x10^{-5}$	$4.79x10^{-5}$	$1.85x10^{-5}$
POCP	kg C_2H_4 eq	$1.03x10^{-2}$	$7.70x10^{-6}$	$1.11x10^{-3}$	**$1.14x10^{-2}$**	$2.49x10^{-4}$	$3.05x10^{-6}$	$4.45x10^{-3}$	$7.58x10^{-2}$	$5.17x10^{-6}$	$5.73x10^{-6}$	$2.29x10^{-6}$
ADPE	kg Sb eq	$1.35x10^{-3}$	$3.73x10^{-8}$	$1.56x10^{-6}$	**$1.35x10^{-3}$**	$7.08x10^{-7}$	$2.46x10^{-8}$	$1.20x10^{-5}$	$8.79x10^{-3}$	$5.16x10^{-8}$	$3.84x10^{-8}$	$1.31x10^{-8}$
ADPF	MJ	181	0.389	41.3	**223**	8.81	0.253	24.3	1,520	0.461	0.386	0.189
TRACI 2.2												
GWP	kg CO_2 eq	16.3	$2.88x10^{-2}$	3.92	**20.3**	0.671	$4.96x10^{-2}$	7.95	137	$3.33x10^{-2}$	$2.86x10^{-2}$	$1.08x10^{-2}$
ODP	kg CFC-11 eq	$5.19x10^{-7}$	$4.23x10^{-10}$	$2.24x10^{-8}$	**$5.42x10^{-7}$**	$9.91x10^{-9}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$3.60x10^{-6}$	$4.85x10^{-10}$	$4.56x10^{-10}$	$2.26x10^{-10}$
AP	kg SO_2 eq	0.244	$2.53x10^{-4}$	$2.94x10^{-2}$	**0.273**	$8.93x10^{-3}$	$6.75x10^{-5}$	$2.57x10^{-2}$	1.84	$1.30x10^{-4}$	$1.74x10^{-4}$	$5.38x10^{-5}$
EP: Freshwater	kg P eq	$2.67x10^{-2}$	$2.54x10^{-6}$	$2.04x10^{-3}$	**$2.87x10^{-2}$**	$4.91x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.187	$3.47x10^{-6}$	$3.19x10^{-6}$	$1.06x10^{-6}$
EP: Marine	Kg N eq	$6.99x10^{-2}$	$2.15x10^{-4}$	$1.26x10^{-2}$	**$8.27x10^{-2}$**	$7.18x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.587	$1.31x10^{-4}$	$1.75x10^{-4}$	$5.74x10^{-5}$
SFP	Kg O_3 eq	1.52	$5.23x10^{-3}$	0.300	**1.83**	0.175	$1.13x10^{-3}$	0.279	13.1	$3.20x10^{-3}$	$4.26x10^{-3}$	$5.74x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	31.9	$4.99x10^{-3}$	17.3	**49.2**	0.102	$1.01x10^{-2}$	162	321	$6.54x10^{-3}$	$7.75x10^{-3}$	$2.39x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	31.9	$4.99x10^{-3}$	17.3	**49.2**	0.102	$1.01x10^{-2}$	162	321	$6.54x10^{-3}$	$7.75x10^{-3}$	$2.39x10^{-3}$
$NRPR_E$	MJ	211	0.393	41.8	**253**	8.90	0.263	32.3	1,710	0.467	0.394	0.192
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	211	0.393	41.8	**253**	8.90	0.263	32.3	1,710	0.467	0.394	0.192
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.193	$5.01x10^{-5}$	$1.23x10^{-2}$	**0.205**	$1.01x10^{-3}$	$1.21x10^{-4}$	0.313	1.34	$6.61x10^{-5}$	$6.56x10^{-5}$	$1.11x10^{-4}$
Waste and Output Indicators												
HWD	kg	$4.08x10^{-3}$	$2.55x10^{-6}$	$1.21x10^{-4}$	**$4.20x10^{-3}$**	$5.49x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$2.77x10^{-2}$	$3.19x10^{-6}$	$2.59x10^{-6}$	$1.27x10^{-6}$
NHWD	kg	1.40	$1.47x10^{-2}$	0.488	**1.90**	0.249	0.299	0.444	20.1	$2.19x10^{-2}$	$2.06x10^{-2}$	0.605
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.213	0.00	8.46	0.00	1.09	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 28. *LCIA indicator results for the ZG6955 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	20.4	$2.91x10^{-2}$	3.95	**24.4**	0.847	$4.98x10^{-2}$	7.90	165	$4.37x10^{-2}$	$3.86x10^{-2}$	$1.33x10^{-2}$
ODP	kg CFC-11 eq	$6.13x10^{-7}$	$3.22x10^{-10}$	$1.83x10^{-8}$	**$6.31x10^{-7}$**	$9.43x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$4.18x10^{-6}$	$4.80x10^{-10}$	$4.65x10^{-10}$	$2.10x10^{-10}$
AP	kg SO_2 eq	0.336	$2.28x10^{-4}$	$2.99x10^{-2}$	**0.366**	$1.03x10^{-2}$	$6.27x10^{-5}$	$2.26x10^{-2}$	2.45	$1.39x10^{-4}$	$1.97x10^{-4}$	$5.39x10^{-5}$
EP	kg CO_2 eq	0.161	$4.64x10^{-5}$	$1.16x10^{-2}$	**0.173**	$1.62x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	1.13	$5.51x10^{-5}$	$6.42x10^{-5}$	$2.27x10^{-5}$
POCP	kg C_2H_4 eq	$1.31x10^{-2}$	$7.70x10^{-6}$	$1.11x10^{-3}$	**$1.42x10^{-2}$**	$3.12x10^{-4}$	$3.05x10^{-6}$	$4.45x10^{-3}$	$9.46x10^{-2}$	$6.71x10^{-6}$	$7.68x10^{-6}$	$2.81x10^{-6}$
ADPE	kg Sb eq	$1.75x10^{-3}$	$3.73x10^{-8}$	$1.56x10^{-6}$	**$1.75x10^{-3}$**	$8.87x10^{-7}$	$2.46x10^{-8}$	$1.20x10^{-5}$	$1.14x10^{-2}$	$6.70x10^{-8}$	$5.15x10^{-8}$	$1.60x10^{-8}$
ADPF	MJ	225	0.389	41.3	**267**	11.0	0.253	24.3	1,820	0.599	0.518	0.232
TRACI 2.2												
GWP	kg CO_2 eq	20.3	$2.88x10^{-2}$	3.92	**24.2**	0.841	$4.96x10^{-2}$	7.95	164	$4.33x10^{-2}$	$3.83x10^{-2}$	$1.32x10^{-2}$
ODP	kg CFC-11 eq	$6.52x10^{-7}$	$4.23x10^{-10}$	$2.24x10^{-8}$	**$6.75x10^{-7}$**	$1.24x10^{-8}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$4.48x10^{-6}$	$6.30x10^{-10}$	$6.11x10^{-10}$	$2.77x10^{-10}$
AP	kg SO_2 eq	0.310	$2.53x10^{-4}$	$2.94x10^{-2}$	**0.340**	$1.12x10^{-2}$	$6.75x10^{-5}$	$2.57x10^{-2}$	2.28	$1.68x10^{-4}$	$2.33x10^{-4}$	$6.58x10^{-5}$
EP: Freshwater	kg P eq	$3.46x10^{-2}$	$2.54x10^{-6}$	$2.04x10^{-3}$	**$3.66x10^{-2}$**	$6.15x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.239	$4.51x10^{-6}$	$4.28x10^{-6}$	$1.29x10^{-6}$
EP: Marine	Kg N eq	$8.77x10^{-2}$	$2.15x10^{-4}$	$1.26x10^{-2}$	**0.101**	$9.00x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.715	$1.70x10^{-4}$	$2.34x10^{-4}$	$7.03x10^{-5}$
SFP	Kg O_3 eq	1.93	$5.23x10^{-3}$	0.300	**2.23**	0.219	$1.13x10^{-3}$	0.279	16.0	$4.16x10^{-3}$	$5.71x10^{-3}$	$7.03x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	40.3	$4.99x10^{-3}$	17.3	**57.6**	0.127	$1.01x10^{-2}$	162	375	$8.49x10^{-3}$	$1.04x10^{-2}$	$2.92x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	40.3	$4.99x10^{-3}$	17.3	**57.6**	0.127	$1.01x10^{-2}$	162	375	$8.49x10^{-3}$	$1.04x10^{-2}$	$2.92x10^{-3}$
$NRPR_E$	MJ	262	0.393	41.8	**304**	11.2	0.263	32.3	2,060	0.607	0.529	0.235
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	262	0.393	41.8	**304**	11.2	0.263	32.3	2,060	0.607	0.529	0.235
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.245	$5.01x10^{-5}$	$1.23x10^{-2}$	**0.257**	$1.27x10^{-3}$	$1.21x10^{-4}$	0.313	1.68	$8.60x10^{-5}$	$8.79x10^{-5}$	$1.36x10^{-4}$
Waste and Output Indicators												
HWD	kg	$5.13x10^{-3}$	$2.55x10^{-6}$	$1.21x10^{-4}$	**$5.26x10^{-3}$**	$6.87x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$3.47x10^{-2}$	$4.14x10^{-6}$	$3.48x10^{-6}$	$1.55x10^{-6}$
NHWD	kg	1.76	$1.47x10^{-2}$	0.488	**2.26**	0.312	0.299	0.444	23.9	$2.84x10^{-2}$	$2.77x10^{-2}$	0.741
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.213	0.00	10.9	0.00	1.46	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table 29. *LCIA indicator results for the ZG6956 faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module										
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B4	C2	C3	C4
CML IA-Baseline												
GWP	kg CO_2 eq	14.9	$2.74x10^{-2}$	3.95	**18.9**	0.638	$4.98x10^{-2}$	7.90	128	$3.13x10^{-2}$	$2.66x10^{-2}$	$1.03x10^{-2}$
ODP	kg CFC-11 eq	$4.42x10^{-7}$	$3.03x10^{-10}$	$1.83x10^{-8}$	**$4.61x10^{-7}$**	$7.10x10^{-9}$	$7.33x10^{-10}$	$1.05x10^{-7}$	$3.05x10^{-6}$	$3.44x10^{-10}$	$3.20x10^{-10}$	$1.63x10^{-10}$
AP	kg SO_2 eq	0.243	$2.16x10^{-4}$	$2.99x10^{-2}$	**0.274**	$7.76x10^{-3}$	$6.27x10^{-5}$	$2.26x10^{-2}$	1.83	$9.99x10^{-5}$	$1.35x10^{-4}$	$4.18x10^{-5}$
EP	kg CO_2 eq	0.115	$4.38x10^{-5}$	$1.16x10^{-2}$	**0.127**	$1.22x10^{-3}$	$5.81x10^{-5}$	$3.46x10^{-2}$	0.835	$3.95x10^{-5}$	$4.42x10^{-5}$	$1.76x10^{-5}$
POCP	kg C_2H_4 eq	$9.51x10^{-3}$	$7.28x10^{-6}$	$1.11x10^{-3}$	**$1.06x10^{-2}$**	$2.35x10^{-4}$	$3.05x10^{-6}$	$4.45x10^{-3}$	$7.07x10^{-2}$	$4.82x10^{-6}$	$5.29x10^{-6}$	$2.18x10^{-6}$
ADPE	kg Sb eq	$1.25x10^{-3}$	$3.50x10^{-8}$	$1.56x10^{-6}$	**$1.25x10^{-3}$**	$6.68x10^{-7}$	$2.46x10^{-8}$	$1.20x10^{-5}$	$8.12x10^{-3}$	$4.81x10^{-8}$	$3.55x10^{-8}$	$1.24x10^{-8}$
ADPF	MJ	165	0.366	41.3	**207**	8.31	0.253	24.3	1,410	0.430	0.356	0.180
TRACI 2.2												
GWP	kg CO_2 eq	14.8	$2.72x10^{-2}$	3.92	**18.8**	0.633	$4.96x10^{-2}$	7.95	127	$3.11x10^{-2}$	$2.64x10^{-2}$	$1.02x10^{-2}$
ODP	kg CFC-11 eq	$4.71x10^{-7}$	$3.98x10^{-10}$	$2.24x10^{-8}$	**$4.94x10^{-7}$**	$9.35x10^{-9}$	$7.97x10^{-10}$	$1.10x10^{-7}$	$3.28x10^{-6}$	$4.52x10^{-10}$	$4.20x10^{-10}$	$2.15x10^{-10}$
AP	kg SO_2 eq	0.225	$2.39x10^{-4}$	$2.94x10^{-2}$	**0.255**	$8.42x10^{-3}$	$6.75x10^{-5}$	$2.57x10^{-2}$	1.72	$1.21x10^{-4}$	$1.60x10^{-4}$	$5.11x10^{-5}$
EP: Freshwater	kg P eq	$2.43x10^{-2}$	$2.39x10^{-6}$	$2.04x10^{-3}$	**$2.64x10^{-2}$**	$4.63x10^{-5}$	$1.27x10^{-5}$	$1.75x10^{-3}$	0.172	$3.24x10^{-6}$	$2.94x10^{-6}$	$1.00x10^{-6}$
EP: Marine	Kg N eq	$6.42x10^{-2}$	$2.03x10^{-4}$	$1.26x10^{-2}$	**$7.70x10^{-2}$**	$6.77x10^{-3}$	$4.76x10^{-5}$	$3.11x10^{-2}$	0.547	$1.22x10^{-4}$	$1.61x10^{-4}$	$5.46x10^{-5}$
SFP	Kg O_3 eq	1.39	$4.95x10^{-3}$	0.300	**1.70**	0.165	$1.13x10^{-3}$	0.279	12.2	$2.98x10^{-3}$	$3.93x10^{-3}$	$5.46x10^{-5}$
Resource Use Indicators												
RPR_E	MJ	29.0	$4.69x10^{-3}$	17.3	**46.4**	$9.58x10^{-2}$	$1.01x10^{-2}$	162	302	$6.10x10^{-3}$	$7.15x10^{-3}$	$2.27x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	29.0	$4.69x10^{-3}$	17.3	**46.4**	$9.58x10^{-2}$	$1.01x10^{-2}$	162	302	$6.10x10^{-3}$	$7.15x10^{-3}$	$2.27x10^{-3}$
$NRPR_E$	MJ	192	0.370	41.8	**234**	8.40	0.263	32.3	1,580	0.436	0.364	0.182
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	192	0.370	41.8	**234**	8.40	0.263	32.3	1,580	0.436	0.364	0.182
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.176	$4.71x10^{-5}$	$1.23x10^{-2}$	**0.189**	$9.53x10^{-4}$	$1.21x10^{-4}$	0.313	1.24	$6.17x10^{-5}$	$6.05x10^{-5}$	$1.06x10^{-4}$
Waste and Output Indicators												
HWD	kg	$3.77x10^{-3}$	$2.40x10^{-6}$	$1.21x10^{-4}$	**$3.90x10^{-3}$**	$5.18x10^{-5}$	$5.81x10^{-6}$	$3.34x10^{-4}$	$2.57x10^{-2}$	$2.97x10^{-6}$	$2.39x10^{-6}$	$1.20x10^{-6}$
NHWD	kg	1.29	$1.38x10^{-2}$	0.488	**1.80**	0.235	0.299	0.444	19.1	$2.04x10^{-2}$	$1.90x10^{-2}$	0.575
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.213	0.00	7.91	0.00	1.00	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 30. *LCIA indicator results for the Z6957-XL faucet in chrome finish.*

LCIA Indicator	Unit	Life Cycle Module											
		A1	A2	A3	A1-A3 Total	A4	A5	B2	B3	B4	C2	C3	C4
CML IA-Baseline													
GWP	kg CO_2 eq	9.36	$2.13x10^{-2}$	0.743	**10.1**	0.470	$5.50x10^{-2}$	7.90	21.0	69.5	$2.08x10^{-2}$	$1.60x10^{-2}$	$7.89x10^{-3}$
ODP	kg CFC-11 eq	$2.94x10^{-7}$	$2.37x10^{-10}$	$1.61x10^{-8}$	**$3.11x10^{-7}$**	$5.23x10^{-9}$	$8.10x10^{-10}$	$1.05x10^{-7}$	$1.57x10^{-7}$	$2.06x10^{-6}$	$2.28x10^{-10}$	$1.93x10^{-10}$	$1.25x10^{-10}$
AP	kg SO_2 eq	0.165	$2.74x10^{-4}$	$2.53x10^{-3}$	**0.168**	$5.72x10^{-3}$	$6.93x10^{-5}$	$2.26x10^{-2}$	$9.24x10^{-2}$	1.13	$6.62x10^{-5}$	$8.17x10^{-5}$	$3.20x10^{-5}$
EP	kg CO_2 eq	$7.59x10^{-2}$	$4.17x10^{-5}$	$2.98x10^{-3}$	**$7.89x10^{-2}$**	$8.98x10^{-4}$	$6.42x10^{-5}$	$3.46x10^{-2}$	$9.68x10^{-2}$	0.520	$2.62x10^{-5}$	$2.67x10^{-5}$	$1.35x10^{-5}$
POCP	kg C_2H_4 eq	$6.47x10^{-3}$	$8.19x10^{-6}$	$1.52x10^{-4}$	**$6.63x10^{-3}$**	$1.73x10^{-4}$	$3.38x10^{-6}$	$4.45x10^{-3}$	$4.24x10^{-2}$	$4.43x10^{-2}$	$3.19x10^{-6}$	$3.19x10^{-6}$	$1.67x10^{-6}$
ADPE	kg Sb eq	$8.35x10^{-4}$	$2.15x10^{-8}$	$7.07x10^{-7}$	**$8.35x10^{-4}$**	$4.92x10^{-7}$	$2.72x10^{-8}$	$1.20x10^{-5}$	$4.74x10^{-4}$	$5.43x10^{-3}$	$3.19x10^{-8}$	$2.14x10^{-8}$	$9.50x10^{-9}$
ADPF	MJ	104	0.276	9.26	**114**	6.12	0.280	24.3	242	787	0.285	0.215	0.138
TRACI 2.2													
GWP	kg CO_2 eq	9.31	$2.11x10^{-2}$	0.736	**10.1**	0.467	$5.48x10^{-2}$	7.95	20.9	69.1	$2.06x10^{-2}$	$1.59x10^{-2}$	$7.81x10^{-3}$
ODP	kg CFC-11 eq	$3.13x10^{-7}$	$3.12x10^{-10}$	$2.01x10^{-8}$	**$3.33x10^{-7}$**	$6.89x10^{-9}$	$8.81x10^{-10}$	$1.10x10^{-7}$	$1.97x10^{-7}$	$2.22x10^{-6}$	$2.99x10^{-10}$	$2.54x10^{-10}$	$1.64x10^{-10}$
AP	kg SO_2 eq	0.153	$2.96x10^{-4}$	$2.88x10^{-3}$	**0.156**	$6.20x10^{-3}$	$7.47x10^{-5}$	$2.57x10^{-2}$	$9.51x10^{-2}$	1.06	$8.01x10^{-5}$	$9.68x10^{-5}$	$3.91x10^{-5}$
EP: Freshwater	kg P eq	$1.56x10^{-2}$	$1.49x10^{-6}$	$5.83x10^{-4}$	**$1.62x10^{-2}$**	$3.41x10^{-5}$	$1.41x10^{-5}$	$1.75x10^{-3}$	$1.04x10^{-2}$	0.105	$2.14x10^{-6}$	$1.78x10^{-6}$	$7.68x10^{-7}$
EP: Marine	Kg N eq	$4.24x10^{-2}$	$2.37x10^{-4}$	$2.35x10^{-3}$	**$4.50x10^{-2}$**	$4.99x10^{-3}$	$5.26x10^{-5}$	$3.11x10^{-2}$	$5.08x10^{-2}$	0.327	$8.10x10^{-5}$	$9.73x10^{-5}$	$4.17x10^{-5}$
SFP	Kg O_3 eq	0.898	$5.78x10^{-3}$	$5.20x10^{-2}$	**0.956**	0.122	$1.25x10^{-3}$	0.279	1.34	7.05	$1.98x10^{-3}$	$2.37x10^{-3}$	$4.17x10^{-5}$
Resource Use Indicators													
RPR_E	MJ	18.2	$3.12x10^{-3}$	9.89	**28.1**	$7.06x10^{-2}$	$1.12x10^{-2}$	162	34.1	183	$4.04x10^{-3}$	$4.32x10^{-3}$	$1.73x10^{-3}$
RPR_M	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ	18.2	$3.12x10^{-3}$	9.89	**28.1**	$7.06x10^{-2}$	$1.12x10^{-2}$	162	34.1	183	$4.04x10^{-3}$	$4.32x10^{-3}$	$1.73x10^{-3}$
$NRPR_E$	MJ	121	0.279	9.57	**131**	6.19	0.290	32.3	285	895	0.289	0.220	0.139
$NRPR_M$	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ	121	0.279	9.57	**131**	6.19	0.290	32.3	285	895	0.289	0.220	0.139
SM	kg	0.618	0.00	0.00	**0.618**	0.00	0.00	0.00	0.00	4.02	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m^3	0.115	$3.10x10^{-5}$	$9.54x10^{-3}$	**0.125**	$7.02x10^{-4}$	$1.34x10^{-4}$	0.313	0.185	0.817	$4.09x10^{-5}$	$3.65x10^{-5}$	$8.07x10^{-5}$
Waste and Output Indicators													
HWD	kg	$2.72x10^{-3}$	$1.70x10^{-6}$	$4.65x10^{-5}$	**$2.77x10^{-3}$**	$3.81x10^{-5}$	$6.42x10^{-6}$	$3.34x10^{-4}$	$3.51x10^{-3}$	$1.83x10^{-2}$	$1.97x10^{-6}$	$1.44x10^{-6}$	$9.19x10^{-7}$
NHWD	kg	0.894	$7.36x10^{-3}$	0.506	**1.41**	0.173	0.333	0.444	1.92	15.5	$1.35x10^{-2}$	$1.15x10^{-2}$	0.440
HLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	**0.00**	0.00	0.237	0.00	0.00	5.49	0.00	0.607	0.00
MER	kg	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EE	MJ	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Zurn Sensor Faucets in Chrome finish -Results on Carbon Emissions and Removals

Table 31. *Results on carbon emissions and removals for the Zurn ZG6913, ZG 6915, and ZG 6920 faucets (Chrome finish).*

Module	BCRP	BCEP	BCRK	BCEK	CCE	CCR	CBCEW	CWNR
	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2
A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A3	0.00	0.00	-0.67	0.00	0.00	0.00	0.00	0.00
A1-A3 Total:	**0.00**	**0.00**	**-0.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B4	0.00	0.00	-4.33	4.33	0.00	0.00	0.00	0.00
B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 32. *Results on carbon emissions and removals for the Zurn ZG6922, ZG6950, ZG6951, ZG6953, ZG6955, and ZG 6956 faucets (Chrome finish).*

Module	BCRP	BCEP	BCRK	BCEK	CCE	CCR	CBCEW	CWNR
	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2
A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A3	0.00	-0.57	0.00	0.00	0.00	0.00	0.00	0.00
A1-A3 Total:	**0.00**	**-0.57**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B4	0.00	-3.71	3.71	0.00	0.00	0.00	0.00	0.00
B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 33. *Results on carbon emissions and removals for the Zurn Z6957-XL faucet (Chrome finish).*

Module	BCRP	BCEP	BCRK	BCEK	CCE	CCR	CBCEW	CWNR
	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2	kg CO_2
A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A3	0.00	0.00	-0.64	0.00	0.00	0.00	0.00	0.00
A1-A3 Total:	**0.00**	**0.00**	**-0.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A5	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B4	0.00	0.00	-4.16	4.16	0.00	0.00	0.00	0.00
B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Zurn Sensor Faucets in Chrome finish (B6 – Operational Energy Use)

Table 34. *Results on GWP indicators (EF 3.1) of Operational Energy Use for Zurn Sensor Faucets per ESL.*

Module B6		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP_{total}	kg CO_2 eq	5,650	8,080	16,200	24,200	32,300
GWP_{fossil}	kg CO_2 eq	5,640	8,060	16,100	24,200	32,200
$GWP_{biogenic}$	kg CO_2 eq	12.7	18.1	36.2	54.3	72.4
GWP_{luluc}	kg CO_2 eq	1.71	2.45	4.89	7.34	9.79

Table 35. *CML-IA Impact Results of Operational Energy Use for Zurn sensor faucets in chrome finish per ESL.*

Module B6		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP	kg CO_2 eq	5,590	7,990	16,000	24,000	32,000
ODP	kg CFC-11 eq	$4.32x10^{-5}$	$6.18x10^{-5}$	$1.24x10^{-4}$	$1.85x10^{-4}$	$2.47x10^{-4}$
AP	kg SO_2 eq	8.79	12.6	25.1	37.7	50.2
EP	kg PO_4^{3-} eq	9.30	13.3	26.6	39.9	53.1
POCP	kg C_2H_4 eq	0.551	0.787	1.57	2.36	3.15
ADPE	kg Sb eq	$1.97x10^{-3}$	$2.82x10^{-3}$	$5.64x10^{-3}$	$8.46x10^{-3}$	$1.13x10^{-2}$
ADPF	MJ	75,300	108,000	215,000	323,000	430,000

Table 36. *TRACI 2.2 Impact Results of Operational Energy Use for Zurn sensor faucets in chrome finish per ESL..*

Module B6		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP	kg CO_2 eq	5,550	7,920	15,800	23,800	31,700
ODP	kg CFC-11 eq	$5.62x10^{-5}$	$8.03x10^{-5}$	$1.61x10^{-4}$	$2.41x10^{-4}$	$3.21x10^{-4}$
AP	kg SO_2 eq	9.12	13.0	26.0	39.1	52.1
EP: Freshwater	kg P eq	2.38	3.39	6.79	10.2	13.6
EP: Marine	kg N eq	5.61	8.01	16.0	24.0	32.0
SFP	kg O_3 eq	132	188	376	564	752

Table 37. *Resource use indicator results of Operational Energy Use for Zurn sensor faucets in chrome finish per ESL.*

Module B6		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
RPR_E	MJ, LHV	6,200	8,860	17,700	26,600	35,400
RPR_M	MJ, LHV	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ, LHV	6,200	8,860	17,700	26,600	35,400
$NRPR_E$	MJ, LHV	92,000	131,000	263,000	394,000	526,000
$NRPR_M$	MJ, LHV	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ, LHV	92,000	131,000	263,000	394,000	526,000
SM	kg	0.00	0.00	0.00	0.00	0.00
RSF	MJ, LHV	0.00	0.00	0.00	0.00	0.00
NRSF	MJ, LHV	0.00	0.00	0.00	0.00	0.00
RE	MJ, LHV	0.00	0.00	0.00	0.00	0.00
FW	m^3	19.8	28.3	56.6	84.9	113

Table 38. *Waste and Output indicators of Operational Energy Use for Zurn sensor faucets in chrome finish per ESL.*

Module B6		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
HWD	kg	0.00	0.00	0.00	0.00	0.00
NHWD	kg	0.00	0.00	0.00	0.00	0.00
HLRW	kg	0.00	0.00	0.00	0.00	0.00
ILLRW	kg	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	0.00	0.00
MER	kg	0.00	0.00	0.00	0.00	0.00
EE	MJ, LHV	0.00	0.00	0.00	0.00	0.00

Zurn Sensor Faucets in Chrome finish (B7 – Operational Water Use)

Table 39. *Results on GWP indicators (EF 3.1) of Operational Water Use for Zurn Sensor Faucets per ESL.*

Module B7		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP_{total}	kg CO_2 eq	634	906	1,810	2,720	3,620
GWP_{fossil}	kg CO_2 eq	532	760	1,520	2,280	3,040
$GWP_{biogenic}$	kg CO_2 eq	102	145	291	436	581
GWP_{luluc}	kg CO_2 eq	0.449	0.642	1.28	1.93	2.57

Table 40. *CML-IA Impact Results of Operational Water Use for Zurn sensor faucets in chrome finish per ESL.*

Module B7		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP	kg CO_2 eq	548	783	1,570	2,350	3,130
ODP	kg CFC-11 eq	$3.30x10^{-6}$	$4.72x10^{-6}$	$9.44x10^{-6}$	$1.42x10^{-5}$	$1.89x10^{-5}$
AP	kg SO_2 eq	1.80	2.57	5.15	7.72	10.3
EP	kg PO_4^{3-} eq	17.6	25.2	50.3	75.5	101
POCP	kg C_2H_4 eq	$9.75x10^{-2}$	0.139	0.279	0.418	0.557
ADPE	kg Sb eq	$1.05x10^{-3}$	$1.50x10^{-3}$	$2.99x10^{-3}$	$4.49x10^{-3}$	$5.98x10^{-3}$
ADPF	MJ	5,990	8,550	17,100	25,700	34,200

Table 41. *TRACI 2.2 Impact Results of Operational Water Use for Zurn sensor faucets in chrome finish per ESL.*

Module B7		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
GWP	kg CO_2 eq	543	775	1,550	2,330	3,100
ODP	kg CFC-11 eq	$3.96x10^{-6}$	$5.66x10^{-6}$	$1.13x10^{-5}$	$1.70x10^{-5}$	$2.26x10^{-5}$
AP	kg SO_2 eq	1.88	2.69	5.38	8.07	10.8
EP: Freshwater	kg P eq	2.13	3.05	6.10	9.14	12.2
EP: Marine	kg N eq	5.72	8.18	16.4	24.5	32.7
SFP	kg O_3 eq	24.4	34.9	69.8	105	140

Table 42. *Resource use indicator results of Operational Water Use for Zurn sensor faucets in chrome finish per ESL.*

Module B7		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
RPR_E	MJ, LHV	785	1,120	2,240	3,360	4,490
RPR_M	MJ, LHV	0.00	0.00	0.00	0.00	0.00
RPR_{Total}	MJ, LHV	785	1,120	2,240	3,360	4,490
$NRPR_E$	MJ, LHV	7,680	11,000	21,900	32,900	43,900
$NRPR_M$	MJ, LHV	0.00	0.00	0.00	0.00	0.00
$NRPR_{Total}$	MJ, LHV	7,680	11,000	21,900	32,900	43,900
SM	kg	0.00	0.00	0.00	0.00	0.00
RSF	MJ, LHV	0.00	0.00	0.00	0.00	0.00
NRSF	MJ, LHV	0.00	0.00	0.00	0.00	0.00
RE	MJ, LHV	0.00	0.00	0.00	0.00	0.00
FW	m^3	4.05	5.79	10.6	16.4	21.2

Table 43. *Waste and Output indicators of Operational Water Use for Zurn sensor faucets in chrome finish per ESL.*

Module B7		0.35 gpm (1.3 lpm)	0.5 gpm (1.9 lpm)	1.0 gpm (3.8 lpm)	1.5 gpm (5.7 lpm)	2.0 gpm (7.6 lpm)
HWD	kg	0.00	0.00	0.00	0.00	0.00
NHWD	Kg	0.00	0.00	0.00	0.00	0.00
HLRW	Kg	0.00	0.00	0.00	0.00	0.00
ILLRW	Kg	0.00	0.00	0.00	0.00	0.00
CRU	kg	0.00	0.00	0.00	0.00	0.00
MR	kg	0.00	0.00	0.00	0.00	0.00
MER	kg	0.00	0.00	0.00	0.00	0.00
EE	MJ, LHV	0.00	0.00	0.00	0.00	0.00

6. LCA: INTERPRETATION

The contribution analysis of the LCIA was completed without regard to the replacement module (B4) as it simply represents modules A1 through A5 and modules C1 through C4 repeated 6.5 times for the required number of replacements over the estimated building lifetime. The analysis also examined modules B6 and B7, Operational Energy Use and Operation Water Use separately as these modules are dependent on the flow rate of the product model selected and represent an overwhelming contribution to the environmental impact potentials across all categories.

When examining the results without modules B4, B6 and B7, the results for all the sensor faucet models in chrome finish, except for ZG6951 and Z6957-XL, are dominated by the raw material module (A1), followed by the product maintenance module (B2), with the manufacturing module (A3) also showing significant impacts. However, when examining the same results for the ZG6951 sensor faucet, the results are dominated across impact categories by the raw material module (A1), with the manufacturing module (A3) showing as the next significant contributor. For the GWP (CML and TRACI), and ADPF (CML) categories, the manufacturing module (A3) was the highest contributor, followed by raw material module (A1). The product maintenance module (B2) was the third highest contributor across all the categories. This difference points to the manufacturing location of the ZG6951 faucets versus the manufacturing location of the other faucets. For the Z6957-XL sensor faucet (chrome), the product repair module (B3) was highest contributor across all impact indicators (CML and TRACI) except ADPE, followed by the raw material (A1) and the manufacturing (A3) modules. For this faucet model, the parts replacement throughout the ESL contributes significantly towards the overall environmental impacts.

Figures 2 through 11 show the contribution analysis of the CML-IA and TRACI 2.2 impact indicator results for the sensor faucets in chrome finish without modules B4, B6, and B7.

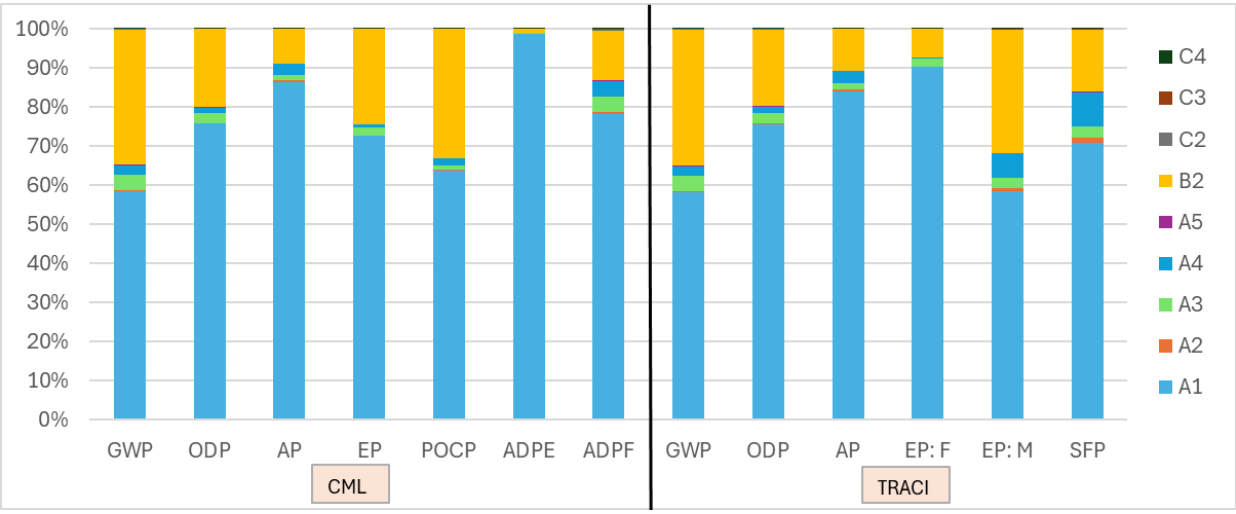


Figure 2. *Contribution analysis for the Zurn ZG6913 sensor faucet in Chrome finish (without modules B4, B6, and B7).*

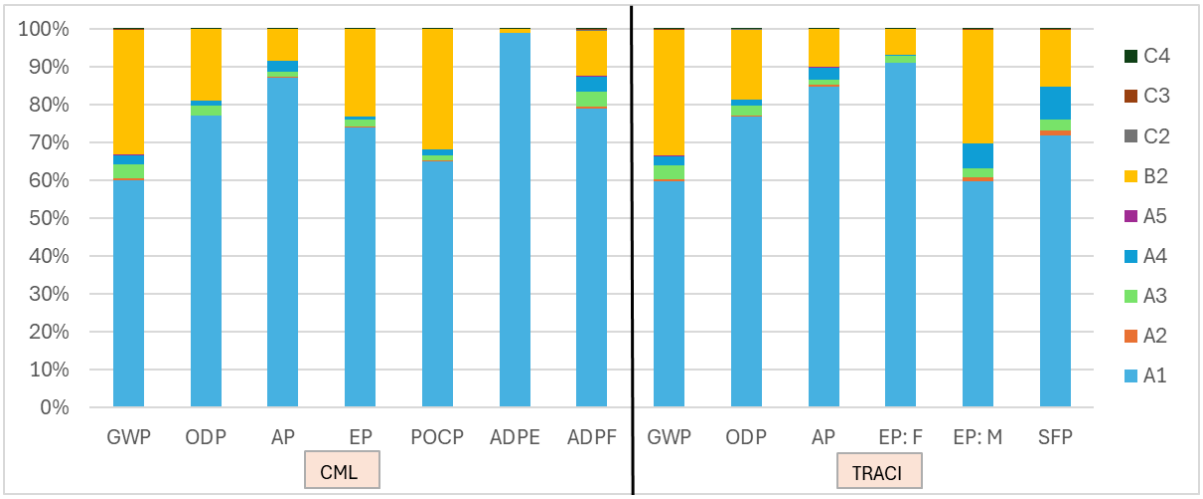


Figure 3. *Contribution analysis for the Zurn ZG6915 sensor faucet in Chrome finish (without modules B4, B6, and B7).*

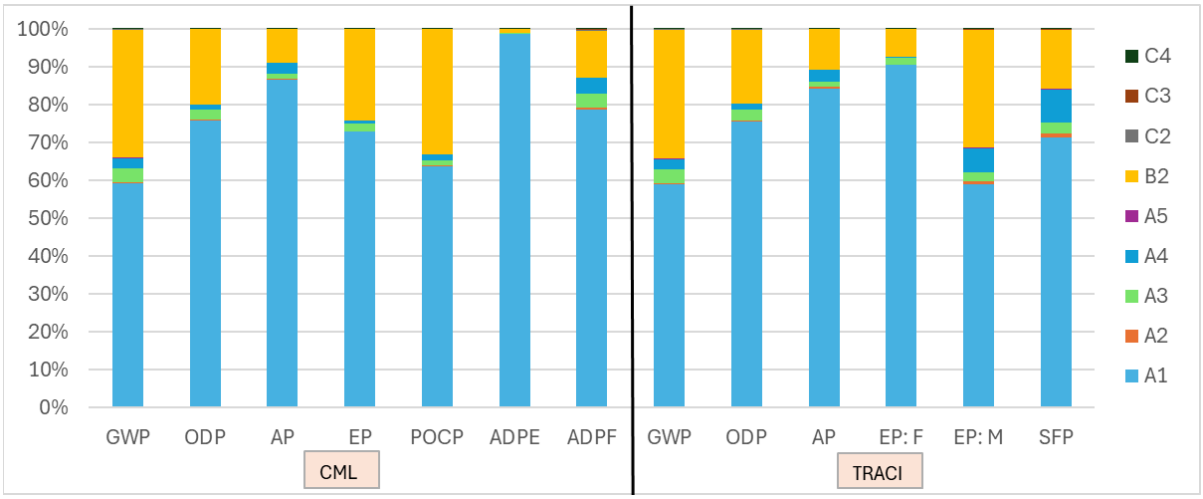


Figure 4. *Contribution analysis for the Zurn ZG6920 sensor faucet in Chrome finish (without modules B4, B6, and B7).*



Figure 5. *Contribution analysis for the Zurn ZG6922 sensor faucet in Chrome finish (without modules B4, B6, and B7).*



Figure 6. *Contribution analysis for the Zurn ZG6950 sensor faucet in Chrome finish (without modules B4, B6, and B7).*



Figure 7. *Contribution analysis for the Zurn ZG6951 sensor faucet in Chrome finish (without modules B4, B6, and B7).*

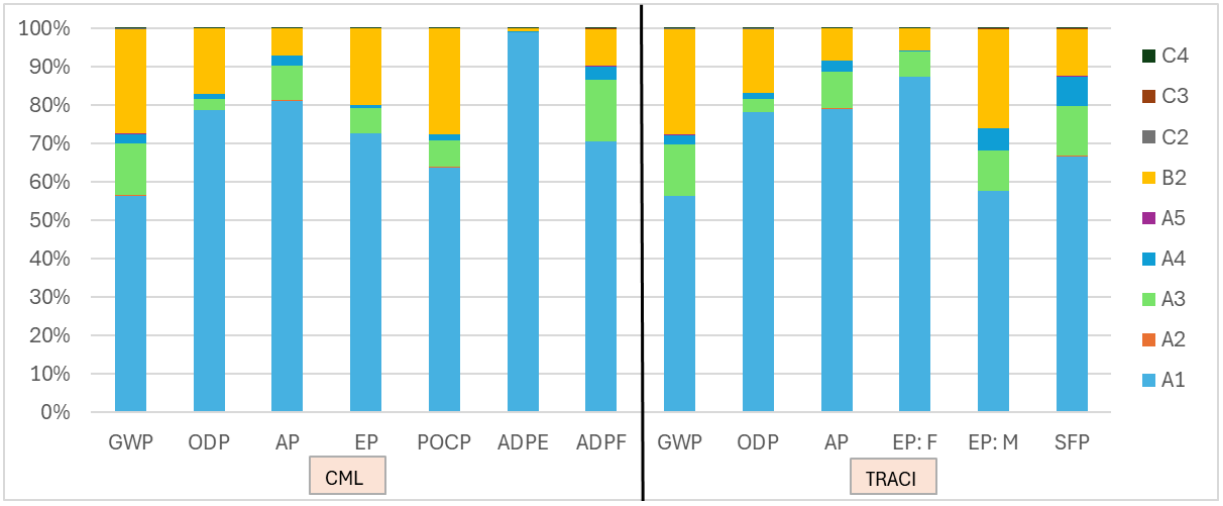


Figure 8. *Contribution analysis for the Zurn ZG6953 sensor faucet in Chrome finish (without modules B4, B6, and B7).*



Figure 9. *Contribution analysis for the Zurn ZG6955 sensor faucet in Chrome finish (without modules B4, B6, and B7).*



Figure 10. *Contribution analysis for the Zurn ZG6956 sensor faucet in Chrome finish (without modules B4, B6, and B7).*

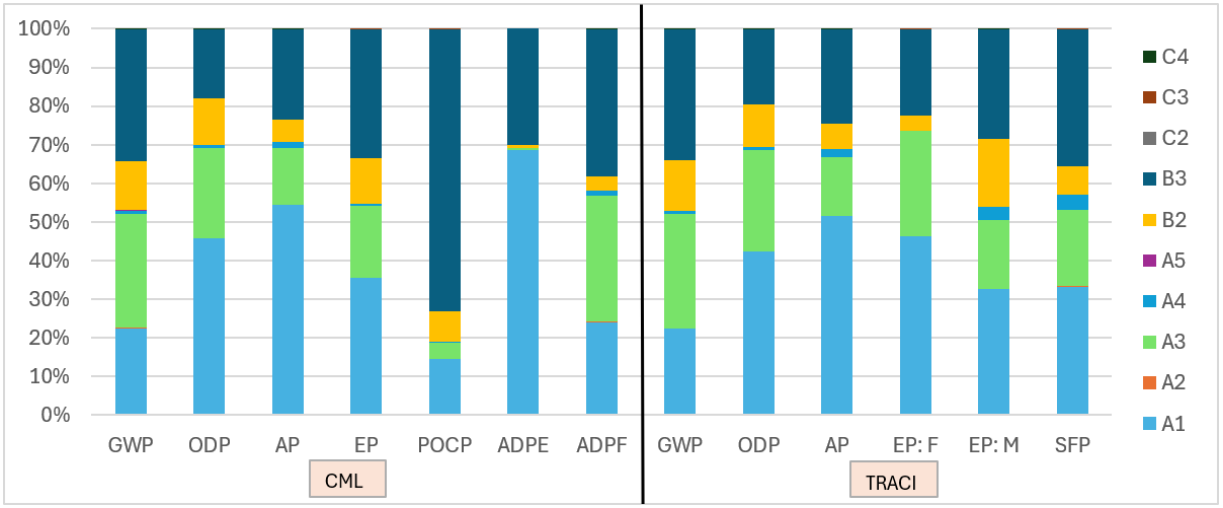


Figure 11. *Contribution analysis for the Zurn Z6957-XL sensor faucet in Chrome finish (without modules B4, B6, and B7).*

7. ADDITIONAL ENVIRONMENTAL INFORMATION

No environmental or health impacts are expected due to extraordinary effects including fire and/or water damage and product destruction.

For more information on Zurn Elkay's sustainability programs, including products and operations, please visit Zurn Elkay Sustainability. zurnelkay.com/sustainability

8. REFERENCES

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- Sustainable Minds PCR Part B: Product group definition - Commercial/public metered and manual lavatory faucets. Version 3.0. March 08, 2024.

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