

TOTO®

Standard EcoPower® Faucet

TEL3LS10 - Single Supply
TEL5LS10 - Thermal Mixing

Ideal for high-traffic commercial spaces, the TOTO Standard EcoPower sensor faucets provide an elegant water conservation solution for LEED option. Powered by water, EcoPower's turbine creates an electrical current that is stored in rechargeable cells to power the Smart Sensor System of the faucet. The EcoPower faucet is available in a single supply or a thermal mixing option.



Performance Dashboard

Features & functionality

- EcoPower® sensor faucet with aerated flow
- Maximum 0.09 gallons per cycle
- Hydropower self-generating system
- Smart Sensor sets its own range; no adjustment required
- On demand, up to 10 seconds while activated
- Easy access screen for quick and easy cleaning
- Self-adjusting faucet with control box and mounting hardware, less supply lines
- 1/2" water supply, male threaded
- Single-hole mount
- ADA compliant

Visit **TOTO** for more product specifications for:
[TEL3LS10](#), [TEL5LS10](#)

CSI MasterFormat™ #22 42 39

Environmental performance

Improved by:

- Powered by the sheer force of running water
- Cleaner restrooms, significant water savings
- Metal parts and electric components are recyclable at the end of service

Certifications & rating systems:

CALGreen® compliant

[See LCA results & interpretation](#)



TOTO's EcoPower® Faucets

TOTO EcoPower sensor faucets are ideal for high-traffic commercial spaces, providing an elegant water conservation solution or LEED option. With as few as 10 uses a day, an EcoPower product's battery can last up to 19 years.



SM Transparency Report™

VERIFICATION

Report

Certified



Self-declared

LCA

3rd party verified



Self-declared

Validity: 10/18/14 – 10/18/17
TOT – 10/18/14 – 003

LCA SCOPE

Cradle to grave

Cradle to gate with options

Cradle to gate

The LCA and Report are independently verified and certified to the SM Transparency Report Framework and ISO 14025.

NSF International

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Morrow, GA 30260
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LCA results & interpretation

TEL3LS10 & TEL5LS10

Scope and summary

- Cradle to grave Cradle to gate with options Cradle to gate

Functional unit

One faucet in an average U.S. commercial environment for 3 years.
One faucet in an average U.S. commercial environment. The period of 3 years is modeled as the period of application based on the average technical lifespan for commercial applications. The economical lifespan of commercial applications can be longer or lower due to aesthetic replacements or more intense use. The implication is that the LCA model assumes that the application ends at year 3 and that the materials will be treated in an end-of-life scenario.

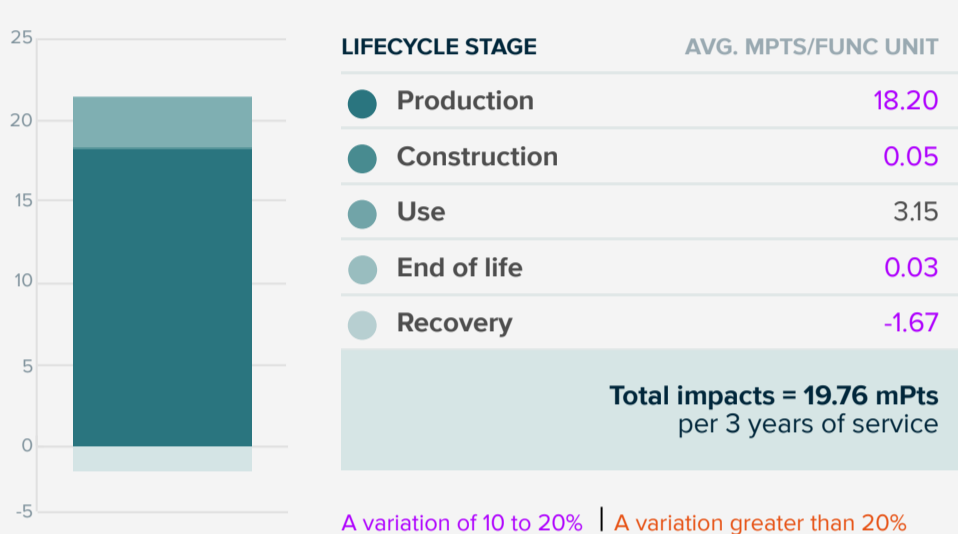
Default use phase scenario

3 years of service in an average U.S. commercial environment with 0.08 gallon/use and 133 uses/day resulting in 12,136 gallons of water.

Material composition greater than 1% by weight

PART	MATERIAL	AVG. % WT.
Packaging	Cardboard	20%
Spout body	Brass (C360000)	11%
Controller body	Brass, Pb free	9%
Controller waterway	Brass, Pb free	7%
Controller cover	ABS	7%
Spout mounting bracket	SUS303	5%
Spout mounting rod	Stainless Steel, SUS304	4%
Spout mounting nut	Brass	4%
Spout hose	PVC	4%
Controller mounting screws	Stainless Steel, SUS303	2%
Manual	Paper	2%
Spout nozzle base	Polyacetal	1%
Spout aerator	Polyacetal	1%
Spout aerator gasket	NBR	1%
Spout nozzle key	Brass	1%
Spout clip	Steel	1%
Generator coil	Copper	1%
	Other	19%

Total impacts by life cycle stages [MPTS/FUNC UNIT]



LCA results

LIFECYCLE STAGE	PRODUCTION	CONSTRUCTION	USE	END OF LIFE	RECOVERY
Information modules: Included Excluded*	A1 Raw Materials	A4 Transportation/Delivery	B1 Use	C1 Deconstruction/Demolition	D1 Recycling
*Installation and deconstruction/demolition are mostly manual. The sanitary fittings should not need repair, maintenance or replacement during the modeled life time.	A2 Transportation	A5 Construction/Installation	B2 Maintenance	C2 Transportation	D2 Recovery
Operational energy use is irrelevant to the life cycle of the modeled product.	A3 Manufacturing		B3 Repair	C3 Waste processing	D3 Reuse
Reuse and energy recovery are not modeled for sanitary fittings.			B4 Replacement	C4 Disposal	
			B5 Refurbishment		
			B6 Operational energy use		
			B7 Operational water use		

SM 2013 Learn about SM Single Score results

Impacts per 10 years of service	18.20 mPts	0.05 mPts	3.15	0.03	-1.67
Materials or processes contributing >20% to total impacts in each lifecycle stage	Brass parts and printed wiring boards together with manufacturing processes such as turning and electroplating.	Disposal of packaging and transportation of the product to installation site or consumer.	Volume of water use during the operation of the product and the embedded energy use (such as electricity) in the water used.	Transport to waste processing, waste processing and disposal of material flows transported to a landfill.	Plastic and metal components' recycling processes

TRACI

A variation of 10 to 20% | A variation greater than 20%

LIFECYCLE STAGE	PRODUCTION	CONSTRUCTION	USE	END OF LIFE	RECOVERY	
Ecological damage						
Impact Category	Unit					
Acidification	SO ₂ eq	7.06E-01	2.91E-03	2.83E-01	1.53E-03	-3.75E-02
Ecotoxicity	CTU _e	2.81E+02	1.17E+00	2.33E+01	2.25E-01	-1.59E+01
Eutrophication	N eq	5.80E-01	6.61E-04	5.91E-03	7.84E-04	-9.41E-03
Global warming	CO ₂ eq	5.30E+01	8.82E-01	4.25E+01	1.07E+00	-1.94E+00
Ozone depletion	CFC-11 eq	5.61E-06	8.81E-09	2.03E-06	1.86E-08	-1.83E-07
Human health damage						
Impact Category	Unit					
Carcinogenics	CTU _h	2.99E-06	6.47E-09	8.81E-07	2.94E-09	-4.92E-07
Non-carcinogenics	CTU _h	1.12E-04	6.19E-08	3.97E-06	2.39E-08	-8.36E-06
Respiratory effects	kg PM _{2.5} eq	8.72E-02	5.73E-05	1.94E-02	1.60E-04	-6.57E-03
Smog	kg O ₃ eq	5.51E+00	7.85E-02	2.12E+00	2.84E-02	-3.43E-01
Resources depletion						
Impact Category	Unit					
Fossil fuel depletion	MJ surplus	6.51E+01	8.39E-01	2.50E+01	2.96E-01	-3.12E+00

References

LCA Background Report

TOTO Sanitary Fittings Products LCA Background Report (public version), August 2014

SM Transparency Report Framework

Part A: Part A: LCA Calculation Rules and Background Report Requirements (Draft V2) (compliant with ISO14040-44, ISO14025 and EN15804)

Part B: Product Group Definition – Commercial Faucets

SM Transparency Reports enable purchasers and users to compare the environmental performance of products on a life cycle basis. They are designed to present information transparently to make the limitations of comparability more understandable. SM Transparency Reports of products that comply with the same Product Group Definition (PGD) and include the same life cycle stages, but are made by different manufacturers, may not sufficiently align to support direct comparisons. They therefore, cannot be used as comparative assertions unless the conditions defined in ISO 14025 Section 6.7.2. 'Requirements for Comparability' are satisfied.

Rating systems

The intent is to reward project teams for selecting products from manufacturers who have verified improved life-cycle environmental performance.

LEED BD+C: New Construction | v4 - LEED v4

MR Building product disclosure and optimization

Environmental product declarations

SM Transparency Report product credit values:

<input type="radio"/> LCA self-declared, Report self-declared	0 product
<input type="radio"/> LCA verified, Report self-declared	1/4 product
<input checked="" type="radio"/> LCA verified, Report certified	1 product

Green Globes for New Construction and Sustainable Interiors

NC 3.5.1.2 Path B: Prescriptive Path from Building Core | NC 3.5.2.2 and SI 4.1.1 Path B: Prescriptive Path for Interior Fit-outs

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How we make it greener

TEL3LS10 & TEL5LS10

Collapse all

See LCA results by lifecycle stage

CONSTRUCTION

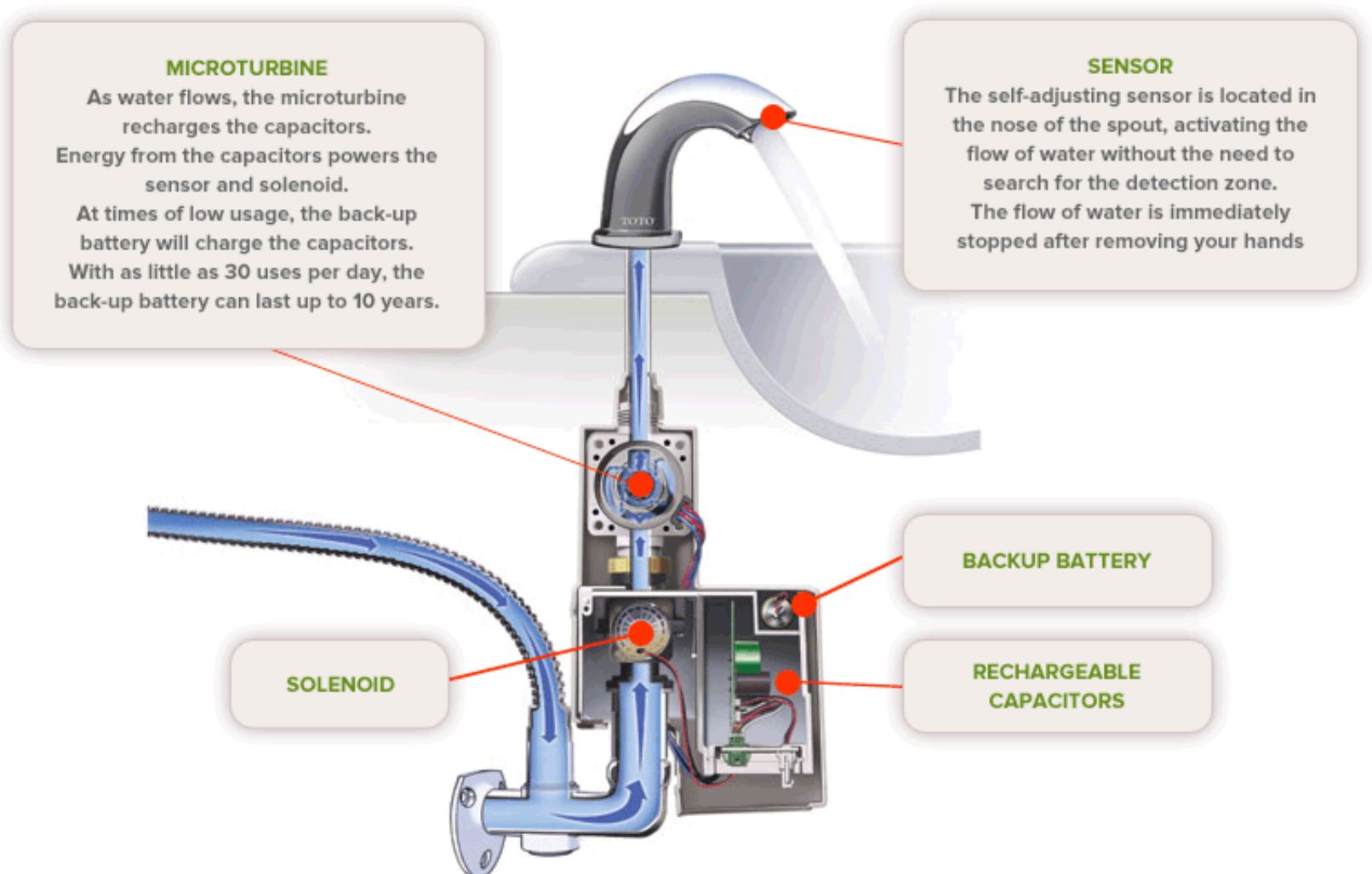


TOTO participates in the UPS Carbon Neutral program. TOTO is a certified SmartWay partner.

USE



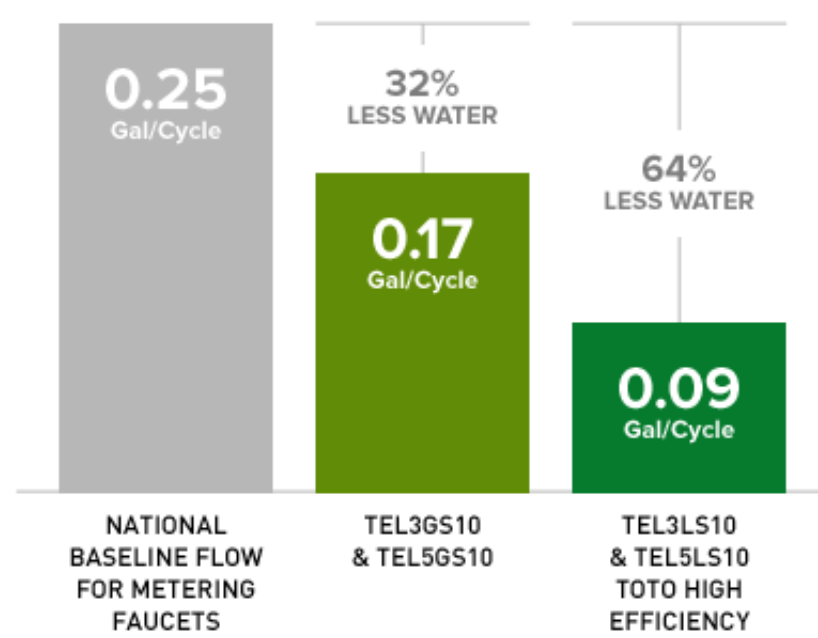
TOTO's Standard EcoPower® Faucets feature the highly regarded EcoPower technology. Engineered to reduce environmental impacts, TOTO's EcoPower products offer water and energy savings without sacrificing performance. Below are some of the features of TOTO's EcoPower technology.



SENSOR: Located in the nose of the faucet, the EcoPower sensor ensures that water flows only when needed. The detection zone is right where you need it, eliminating the need to search with your hands to activate the flow of water. The sensor will stop the flow of water immediately upon removal of the hands from the sensing zone, preventing wasted water.

MICROTURBINE: TOTO's EcoPower technology enables the product to operate 100% off grid. As water flows, the hydro powered microturbine recharges the capacitors for the sensor and solenoid. Less reliance on the back-up battery results in much less battery waste.

SOLENOID: The solenoid mechanism, a water-saving technology, maintains consistent flow rate under a range of supply pressures.



Using the same proven engineering as our legendary EcoPower TEL3/5G series, the low flow TEL3LS10 and TEL5LS10 reinforce TOTO's performance reputation while offering additional water savings.



Metal and electronic parts can be recycled at the end of life.

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