Sustainability report of a product

COMPANY

PRODUCT

PRODUCT TYPE

EAN / SKU

GTIN

Natua Organic Branding Oy

Expresser women's t-shirt

textile

SUMMARY

T-shirt made from GOTS certified organic cotton, printed in Finland with water-based ink.



Competitive Sustainability Features

Certificates/labels, material, cotton & final product: Sustainability facet: climate-change, biodiversity, environment, water, human-rights, decent-work Lifecycle phase: raw-materials	GOTS <i>Data source:</i>	GOTS defines the criteria for organic production, which takes into account not only environmental criteria, such as banning the use of chemical fertilizers and pesticides, efficient recycling of water, but also dimensions of social responsibility. GOTS requires employers in the entire production chain to comply with the criteria set by the International Labor Organization (ILO). Working hours and wages must be reasonable and working conditions safe. In addition, forced labor, child labor, discrimination and other inhumane treatment are prohibited.
Origin of energy used, production, garments: Sustainability facet: climate-change, environment Lifecycle phase: production	Solar energy <i>Data source:</i>	Some suppliers utilize solar energy in energy production.
Energy efficiency, garment printing: Sustainability facet: climate-change, environment Lifecycle phase: production	Air heat pumps, modern equipment <i>Data source:</i>	The production facilities are heated with air heat pumps. Modern equipment ensures maximum energy efficiency. The production process is optimized in a way that enables efficient equipment use and avoids running equipment unnecessarily.

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Environment, production, garment printing: Sustainability facet:	Water-based ink <i>Data source:</i>	Garment printing is done with water-based ink.		
environment, water Lifecycle phase: production				
Environment, production, garment printing:	Chemical free pressure screen washing Data source:	Automating pressure screen washing requires no use of chemicals and the resulting water is also chemical free.		
Sustainability facet: environment, water				
Lifecycle phase: production				
Animal welfare, garments:	No animal derived materials or	The garments do not contain any animal fibers, nor are ingredients or formulations tested on animals.		
Sustainability facet: biodiversity	animal testing <i>Data source:</i>			
Lifecycle phase: raw-materials, production				
Worker wellbeing, production, cotton cultivation, spinning	Own audits & GOTS <i>Data source:</i>	The company makes regular visits to cotton farms and production factories. They also have on-site employees to monitor compliance with their social responsibility standards. GOTS requires employers in the entire		
& ginning, garments:		production chain to comply with the criteria set by the International Labor Organization (ILO). Working hours and		
Sustainability facet: human-rights, decent-work		wages must be reasonable and working conditions safe. In addition, forced labor, child labor, discrimination and		
Lifecycle phase: raw-materials, production		other inhumane treatment are prohibited.		

Minimum Level of Sustainability

EMS, EGBs, modern

equipment

Data source:

Energy efficiency, production, garments:

Sustainability facet: climate-change, environment

Lifecycle phase: production

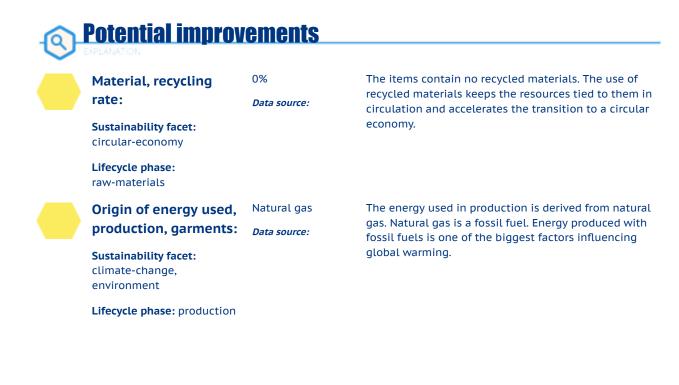
Most suppliers have energy management systems (EMSs) in place to track energy consumption per unit. Exhaust Gas Boilers (EGBs) are also in use use to recover some natural gas losses in a linked boiler system. Suppliers also upgrade to modern, more energy efficient equipment.

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Water use optimization, production, garments:	Closed water cycle <i>Data source:</i>	Some suppliers use a closed water cycle in production, therefore no wastewater is generated. No data available how much of the whole production utilizes closed water cycles.
Sustainability facet: water		
Lifecycle phase: production		
Water treatment, production, garments:	Effluent Treatment Plants	The company's factories have Biological Effluent Treatment Plants that treat the water used in the manufacturing process. In some factories, the treated
Sustainability facet: water, environment	Data source:	wastewater is utilized in e.g. car washing, and
Lifecycle phase: production		
Waste and surplus management, production, garments:	Collecting and utilizing offcuts <i>Data source:</i>	Waste fabric is collected to create recycled yarn for the company's accessory range.
Sustainability facet: circular-economy		
Lifecycle phase: production		
Environmental management, production, garments:	ISO14001 Data source:	ISO 14001 sets out the criteria for an environmental management system and can be certified to. It maps out a framework that a company or organization can follow to set up an effective environmental management
Sustainability facet: environment, climate-change		system. Some suppliers utilize this standard, some are in the implementation process.
Lifecycle phase: production		
Environmental management, production, garments:	Sustainability team <i>Data source:</i>	A four person sustainability team is in charge of the company's sustainability strategy and short term actions.
Sustainability facet: environment, climate-change		
Lifecycle phase: production		
Waste and surplus management, garment printing:	Optimized ink use & recycling <i>Data source:</i>	The precise amount of printing ink is prepared for each job. All excess ink is collected and recycled.
Sustainability facet: environment, water, circular-economy Lifecycle phase: production		

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Certificates/labels, fabric dye: Sustainability facet: environment, water Lifecycle phase: production	GOTS, Standard 100 by Oeko-tex <i>Data source:</i>	Chemical formulators are required to implement product stewardship practices and undergo an on-site audit for environmental management systems, as well as occupational health and safety. Standard 100 by Oeko-tex is used for the assessment of harmful substances in fabrics and confirms that the garments are processed without chemical substances that are harmful to human health and the environment. The standard also prohibits certain potentially harmful substances even where these are not yet legally banned, and it confirms that the products comply with the EU REACH regulation.
Worker wellbeing, production, garments: Sustainability facet: human-rights, decent-work Lifecycle phase: raw-materials, production	Fair Wear Foundation <i>Data source:</i>	Members of the Fair Wear Foundation (FWF) are committed to ensure that employees in clothing production have safe working conditions, decent working hours and wages, employment contracts, etc. The use of child labour is forbidden in production.
Worker wellbeing, production, garment printing: Sustainability facet: human-rights, decent-work	Printing country Finland <i>Data source:</i>	In Finland, labor rights are respected and workers' well-being generally ensured.
Lifecycle phase: production		



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Origin of energy used, garment printing:

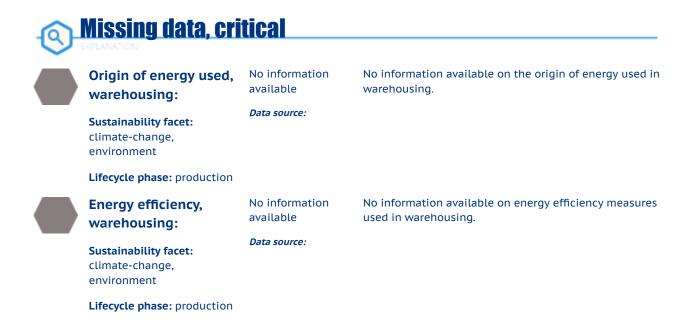
Sustainability facet: climate-change, environment Nuclear power 46,9%, fossil fuels & peat 40,1%, renewable energy 13% Data source:

Lifecycle phase: production

Due to financial reasons, the company needed to switch from a renewable energy-based electricity contract to a standard one. A switch back to renewable energy-based electricity will be made once it's possible. Energy produced with fossil fuels is one of the biggest factors influencing global warming. Renewable energy sources are a less emission-intensive alternative to fossil energy sources. Utilizing additional renewable energy such as wind- or solar energy is the most sustainable choice. Additional renewable energy is a form of energy that can be added and its usage accelerates the transition to fossil free energy production.

O Sustainability issues and risks

No significant sustainability issues detected from the material available.



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0	Missing data, no	n critical	
	Logistics transport fuel	No information available	There is no information available on the fuel used in logistics during different stages of production.
	Sustainability facet: climate-change	Data source:	Logistics are still very dependent on fossil fuels and cause about 7% of the world's carbon dioxide emissions. Logistics are estimated to grow almost fourfold by 2050, so the transition to low-carbon
	Lifecycle phase: logistics		modes of transport is critical in terms of carbon dioxide emissions.
	Logistics optimization	No information available	There is no information available on how logistics are optimized. Logistics can be optimized in several ways,
	Sustainability facet: climate-change	Data source:	which can significantly reduce carbon dioxide emissions. Such means include vehicle maintenance, driver training, loading, route selection and
	Lifecycle phase: logistics		scheduling. Optimizing logistics can also improve business profitability.



Material:	Cotton <i>Data source:</i>	The items are made of cotton. Cotton cultivation is very water-intensive. Cotton cultivation brings monoculture, which leads to biodiversity loss. In addition, child and forced labor is often used in the cotton production chain. However, it should be noted that replacing virgin cotton fiber is currently difficult, so its use is justified in certain situations. In these cases, however, the use of GOTS and Fair Trade certified cotton is recommended.
Material, origin, cotton:	India <i>Data source:</i>	The organic cotton originates from India.
Manufacturing country, material, cotton ginning:	India <i>Data source:</i>	Cotton ginning is done in India.
Manufacturing country, material, cotton spinning:	Bangladesh <i>Data source:</i>	The cotton is spun into yarn in Bangladesh.
Manufacturing country, material, garments:	Bangladesh <i>Data source:</i>	The cotton is made into fabric, dyed, sewn and finished in Bangladesh.

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Manufacturing country, garment printing:	Finland <i>Data source:</i>	The garments are printed in Finland.
Transportation mode, materials, garments:	Sea freight or road transport <i>Data source:</i>	Materials and finished garments are shipped via sea freight and using road transport.
Transportation mode, printed garments:	Road transport <i>Data source:</i>	Items are sent to customers using road transport.
Certificates/labels, garments:	Standard 100 by Oeko-tex <i>Data source:</i>	Standard 100 by Oeko-tex is used for the assessment of harmful substances in fabrics and confirms that the garments are processed without chemical substances that are harmful to human health and the environment. The standard also prohibits certain potentially harmful substances even where these are not yet legally banned, and it confirms that the products comply with the EU REACH regulation.

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