



ETNA
COFFEE TECHNOLOGIES

FUTURE PROOF

2022 SUSTAINABILITY REPORT

SIMPLY
UNSTOPPABLE

[ETNA-CT.COM](https://etna-ct.com)



**REPAIRABLE
REUSABLE
RECYCLABLE**

SUSTAINABILITY VISION AND OBJECTIVE

Climate change, the scarcity of fossil fuels and resource depletion. Society faces major social changes. ETNA is very aware of its role in this respect and takes its responsibility.



WE CHOOSE SUSTAINABILITY

SIMPLY UNSTOPPABLE

OUR VISION

Sustainability policy involves a multitude of aspects; concern for the environment and climate, responsible use of energy and raw materials, the environment in which you operate as an organisation and the individuals within and beyond the ETNA organisation. Fair coffee has topped the agenda within the professional coffee industry for years, but a fair machine less so.

Last year, when the Corona pandemic and related measures gradually began to unwind, we were faced with a severely disrupted supply chain. In particular, the availability and deliverability of electronics was a significant challenge. These effects, combined with tremendously strong growth, resulted in longer delivery times and increased pressure on individuals within the ETNA organisation.

All our coffee machines are produced at our facility in Doetinchem. Manufacturing in the Netherlands means

we are compliant with Dutch and European legislation. The Working Conditions Act and Working Conditions Regulations contain provisions that workplaces must comply with to ensure safe and healthy working conditions. The CAO Groot Metaal [collective labour agreement for our industry] contains provisions on fair pay and good working conditions. The Corona pandemic and the war in Ukraine have demonstrated the importance of local sourcing. We realise that over-dependence on superpowers like China (electronics) and Russia (gas) poses a risk.

We do not believe in a disposable society, but in the development and production of high-quality, stable products with a long lifespan. Nor do we believe in a business model in which the sale of service parts determines the company's profitability.

We strive to develop products that are stable with as few parts as possible susceptible to malfunctioning or needing replacement.

Triple R is the foundation on which our R&D department develops our products:

- **Repairable:** easily repairable, accessible components.
- **Reusable:** reuse of parts - second life.
- **Recycleable:** optimisation of the recycling percentage.

Recycling is a key area of focus within our industry. As an organisation, we believe it is important to tell the honest story and be fully transparent. That also applies to recycling. Therefore, in 2022, we began preparing materials passports for ETNA's best-selling coffee machines. Each material type is weighed and assessed for recyclability in the materials passport. ETNA is affiliated

with the OPEN foundation and WEEE Netherlands B.V., which organise the collection of electronic equipment and its proper recycling. To finance this process, our customers are charged a disposal fee. Unfortunately, we see that only a small percentage of machines are deposited at the collection points of the OPEN foundation or WEEE Netherlands B.V. By 2023, we are aiming to engage with the OPEN foundation and WEEE Nederland B.V. to make it more attractive and easier for our customers to return coffee machines for recycling.

ETNA remains fully committed to its sustainability ambition to be wholly CO₂ neutral as an organisation by 2030. In 2022, we conducted an initial baseline measurement to determine as objectively as possible what our carbon emissions are annually and identified options to reduce carbon emissions. This CO₂ reduction plan is a key priority for 2023. In 2022, we began using recycled plastics to produce the doors of our machines. We will repeat this monitoring of CO₂ emissions annually to closely track our progress.

Linda van de Maat

Director Operations


Richard Vogelzang

Director Technology

Peter Jager

Director Commerce & Finance

From 2024, listed and large organisations are required to report on their sustainability policy and performance in this regard. Although ETNA, as a medium-sized company, is exempt from the CSRD (Corporate Sustainability Reporting Directive) until 2026 at the earliest, we expect sustainability reporting to become the norm and are therefore preparing for this in advance.



100%
**CO₂ NEUTRAL
PRODUCTION
IN 2030**



CLIMATE CHANGE: WHAT IS THE EU DOING?

The Paris Climate Agreement is a global agreement of the United Nations, signed by almost every country in the world. This contains voluntary agreements to slow down global warming by reducing greenhouse gas emissions (with CO₂ as the main gas). The goal is to limit warming to below 2°C. The EU is a leading player and signatory of the Paris Agreement and established the 'Green Deal' in 2020.

On 14 July 2021, a large package of measures was presented by the European Commission: the Fit for 55, which should achieve the goal of being climate neutral by 2050. The Fit for 55 is part of the Green Deal and still needs to be approved in the European Parliament.

GREEN DEAL OBJECTIVE:

- By 2030, CO₂ emissions must be reduced by 55% from 1990 levels.
- By 2050, the entire European Union should be climate neutral.
- Economic growth without resource depletion.
- No person or region left to its own devices.

To achieve this, there is the EU Climate Act, which is the legal basis of the Green Deal and was formally adopted in 2021. This law requires all EU member states to take action at the national level to meet the 2050 climate goal.

A SELECTION OF THE EUROPEAN MEASURES

- By 2030, all packaging must be recyclable.
- The textile and plastics sectors must not use microplastics from 2030 onwards.
- Consumers should be given a 'right to repair'.
- Companies should be fined for any 'greenwashing'.
- Buildings need to be renovated to reduce carbon emissions and energy consumption.
- European forests must be protected and expanded.
- By 2030, 40% of the generated energy must be clean.
- Investments are committed for installing four million electric car charging points across Europe to encourage the use of electric cars.

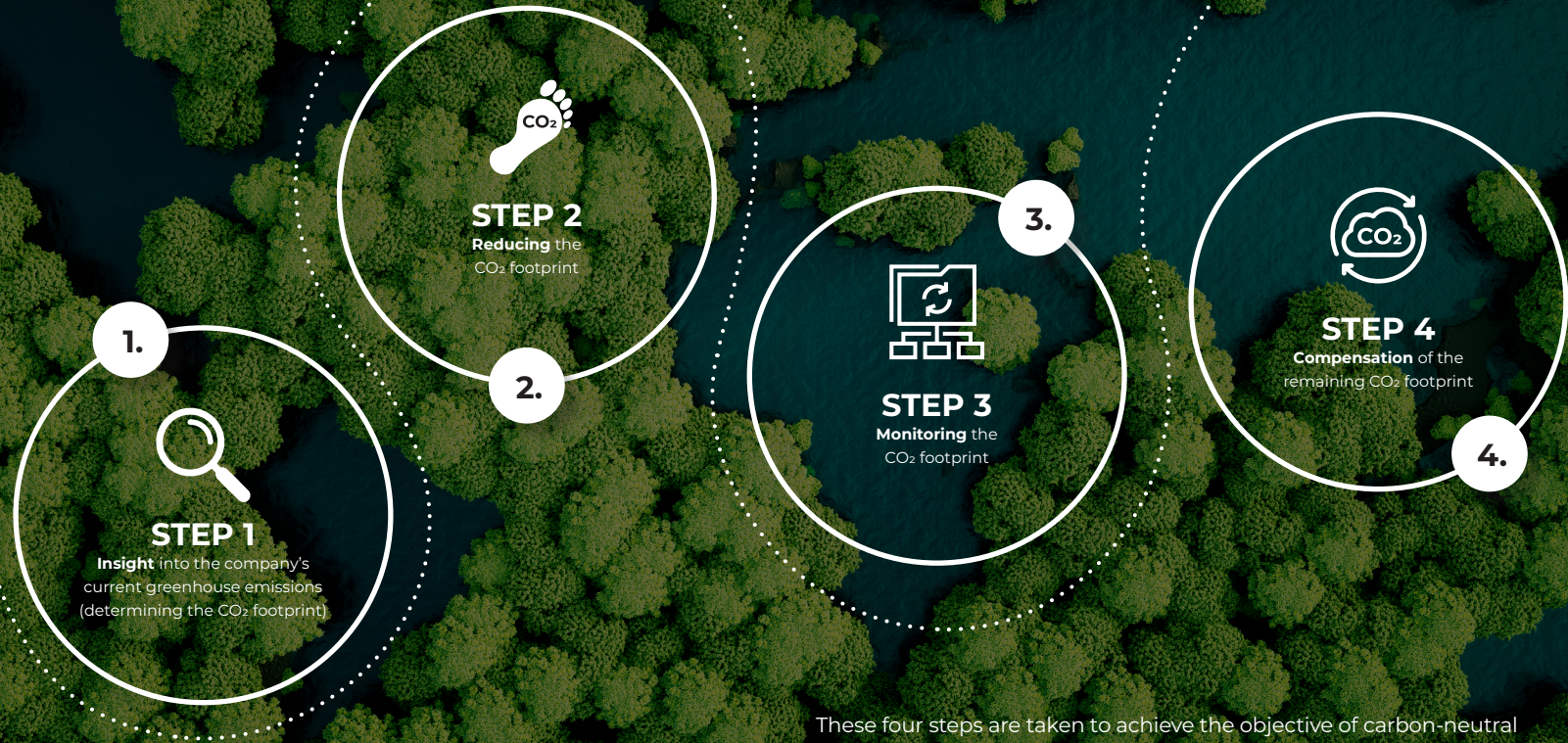
ETNA will align and conform to the above measures where relevant and include actions related to these measures in its roadmap



ETNA'S SUSTAINABILITY ROADMAP

OUR TARGETS FOR 2030

ROADMAP



These four steps are taken to achieve the objective of carbon-neutral operations by 2030.

Naturally, internal and external communication will be an important part.



ETNA & SUSTAINABILITY

As a mid-sized organisation, how can ETNA reduce its carbon footprint?

- Lower mileage on polluting fossil fuel (petrol, diesel or gas)
- Energy consumption and clean energy for heating and lighting buildings
- Optimise waste flows/recycling - Circularity
- CO₂ emissions Supply Chain, Triple R; repair / reuse / recycle
- CO₂ compensation, for example by planting trees



GROWING A FUTURE TOGETHER

SIMPLY UNSTOPPABLE

ETNA'S STATUS AND PROGRESS AT YEAR-END 2022?

PRODUCTION

ETNA is an assembly company. Assembly is an extremely clean and energy-efficient process whereby supplied components and the cabinet are assembled into a functioning coffee machine.

In our operations, we aim to be at the forefront of sustainability. We want the impact of our activities on the climate to be measurable. One of the principles of ETNA's sustainability policy is to reduce its carbon footprint to the greatest extent possible. Measuring our carbon footprint every two years provides insight into ETNA's climate impact and helps determine potential reduction targets and compensation measures.





SOLAR PANELS

In order to structurally reduce gas consumption, ETNA equipped the roof on the production hall with 686 solar panels by December 2021. These panels generate green power and can produce approximately 274,000 kWh per year.

INTERNAL TRANSPORT EQUIPMENT

All internal transport equipment is electric. All forklifts, narrow aisle trucks and pallet trucks are also electrically powered. None of the internal vehicles have fossil-based engines (petrol, gas or diesel).

SEPARATE WASTE FLOWS

We try as much as possible to use multi-use packaging when delivering components. For example, Braumann Mills and Brewers are delivered in wooden returnable packaging. Paper, metals and residual waste are collected and disposed of separately.

LED LIGHTING

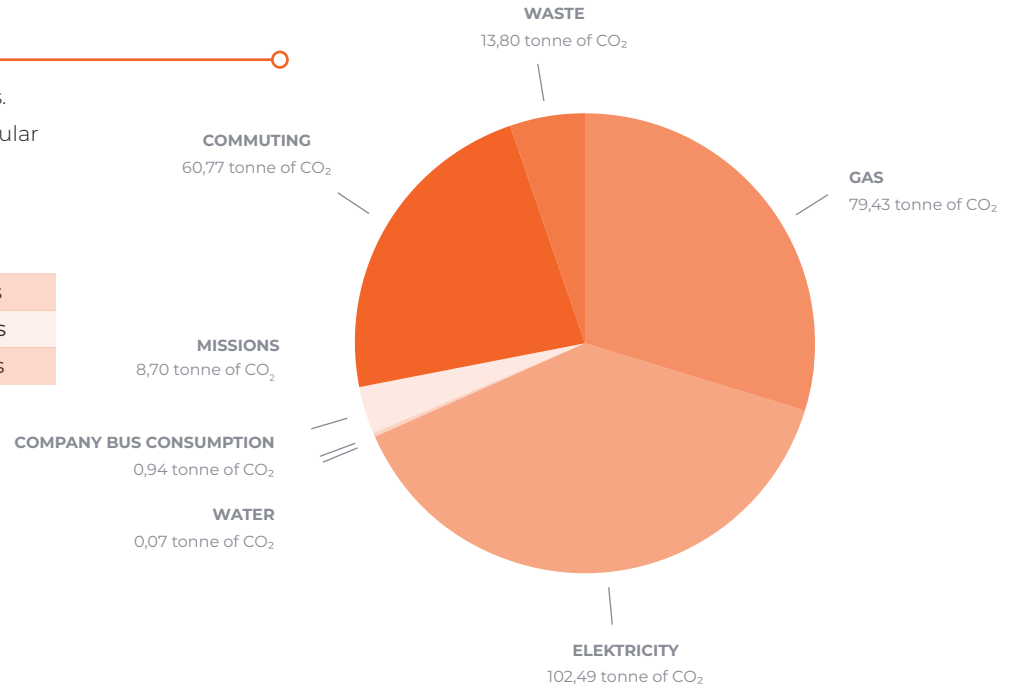
In January 2020, we commissioned a second production hall. To this end, all fluorescent lighting in the production hall was replaced with LED lighting.

CO₂ EMISSION

In 2021, ETNA's total CO₂ emissions amounted to 266 tonnes. The largest source of CO₂ emissions is the building (in particular electricity and gas consumption) and commuting, with respectively:

Electricity:	103 tonnes CO ₂	→ 38% of total emissions
Gas:	79 tonnes CO ₂	→ 30% of total emissions
Commuting:	61 tonnes CO ₂	→ 23% of total emissions

CO₂ EMISSIONS ETNA, 2021



A baseline measurement was carried out in 2022 to assess whether ETNA is still on track to meet the set 2030 reduction target and adjust it where necessary.

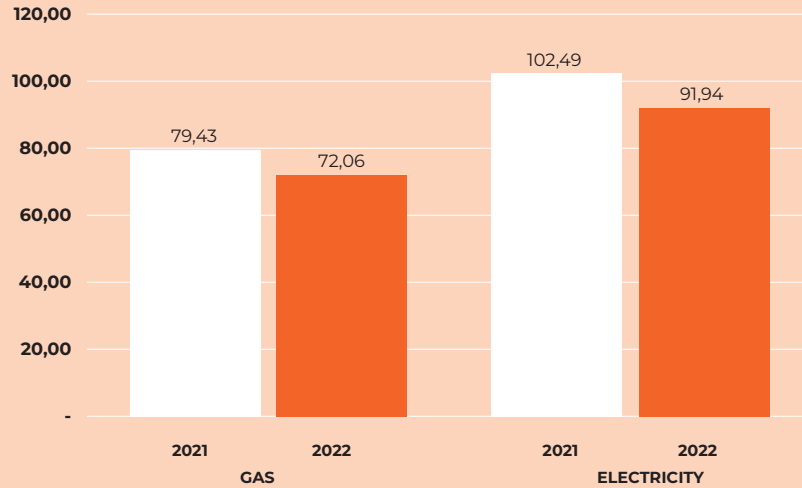
Below are the results of our reference measurement conducted in 2022 regarding the electricity and gas emissions that have the greatest impact on ETNA's emissions:



REFERENCE MEASUREMENT 2022

EMISSION	2021		2022		REDUCTION BY EMISSION TYPE TOTAAL (%)	REDUCTION PER UNIT PRODUCED (%)
	TOTAL (TONS OF CO ₂)	PER UNIT PRODUCED (KG CO ₂)	TOTAL (TONS OF CO ₂)	PER UNIT PRODUCED (KG CO ₂)		
Electricity	103	17	92	10	-11	-41
Gas	80	13	72	8	-8	-38

DIFFERENCE IN EMISSIONS BETWEEN 2021 AND 2022 (GAS, ELECTRICITY)



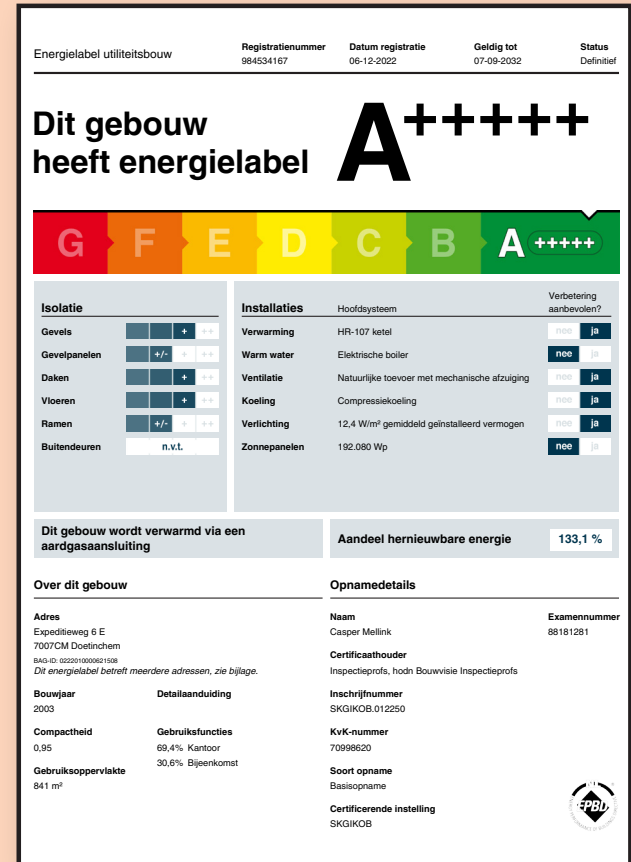
The reduction was achieved primarily in electricity consumption due to the commissioning of the solar panels installed in December 2021. However, there is still more to be gained from the solar panels by connecting them to the electrical grid. Currently, this is not yet possible due to grid congestion. In the event of grid congestion, the grid is not robust enough to transport the electricity to the correct location; in other words, the local electricity grid does not have sufficient capacity.

There are several ongoing and upcoming reduction measures that ETNA has set as a target for 2023.

ETNA FACILITY ENERGY LABEL

From refrigerators to large commercial buildings; almost everything that consumes energy these days is required to have an energy label. The energy label for commercial premises indicates how energy-efficient a facility is. It also indicates which energy-saving measures are still feasible.

The less fossil fuels consumed by a facility, the better the energy label. An energy label G is the lowest score. The best score is an A++++ energy label for companies. As indicated by the energy label image, our building is classified as A++++.





SUPPLY CHAIN

CODE OF BUSINESS CONDUCT

ETNA has a Code of Business Conduct that describes what we expect from our employees, suppliers and partners and how we should deal with our employees, suppliers, customers and business partners in a responsible, sustainable way.

Key components include:

- Respecting each other.
- No child labour in the chain.
- No discrimination.
- Fair trading.

LOCAL PROCUREMENT

ETNA is a development and assembly company, which means that many components and parts are purchased annually. Local Dutch suppliers are generally chosen if quality and pricing allow.

STAFF

COMMUTING

How significant is the carbon footprint of our employees' commuting patterns? How can we monitor and reduce our employees' carbon emissions so that we can operate in a more climate-neutral manner?

As a company, these are the questions we posed. In response to the question of our employees' commuting carbon emissions, ETNA conducted an internal survey. The main results of this survey are presented below:

- 91% of the participating staff members live within a 30-kilometre radius of ETNA.
- The total kilometres commuted in a year is 328,873 km.
- The total annual commuting carbon emissions are 60.77 tonnes of CO₂.
- 63% of the transportation means used are cars.
- Cars account for 97% of annual carbon emissions.



COMMUTING

MAIN MODE OF TRANSPORT IN 2022	TOTAL CO ₂ EMISSIONS BY SPECIES	TOTAL CO ₂ EMISSIONS (%)
Car	50,11	82,47
Carpooling	8,98	14,78
Scooter/motorbike	1,56	2,56
Bicycle	0	0
Bus	0,11	0,19
Walk	0	0
Total	60,77	100

BUSINESS FITNESS

ETNA has been a member of Bedrijfsfitness Nederland since 2021. Our aim is to encourage our employees to maintain and develop a healthy lifestyle.





PRODUCT

PACKAGING

The cardboard in our packaging consists of >80% recycled material and is FSC certified.



RECYCLE

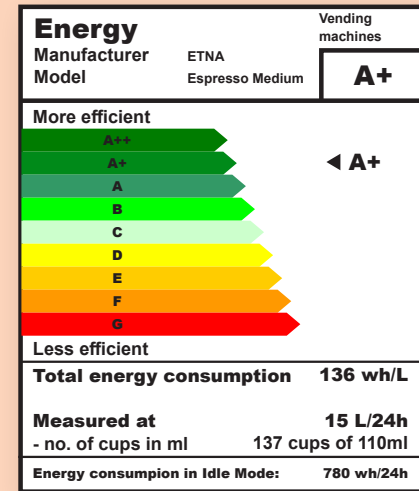
The door of the ETNA Dorado Espresso Premium 10" product line is made from 100% recycled plastic.



ENERGY CONSUMPTION COFFEE MACHINES

All ETNA coffee machines feature an Energy Saving Mode, which allows for tremendous energy savings during their lifetime. In addition, Open Boilers, especially Instant coffee machines, are well insulated. This results in minimal heat loss.

ETNA follows the energy protocol of EVA (European Vending Association). The energy labels of the coffee machines can be found on our dealer portal.



Voorbeeld: ETNA Dorado Espresso Medium



ETNA MACHINES LIFE

We do not believe in a throw-away society. Instead, we are committed to machines with a long life and low service costs. That is why we choose durable, stable components in our machines, ensuring high quality and long life. Even when used intensively. An ETNA coffee machine is designed to last at least 8 years.

In the coffee machine manufacturer's business chain, corrective and preventive maintenance over the lifetime of the coffee machine actually has the greatest impact on the environment. That's why maximising uptime by preventing malfunctions is central to our policy:

- Metal case instead of plastic.
- Metal Braumann brewing group and grinder instead of plastic.
- Glass Front safety glass.
- High-quality pumps and boilers.

REFURBISHMENT BRAUMANN BREWER

Since early 2021, ETNA has been producing brewing groups for the Espresso medium and large machines. This is completed by employees trained and certified at our partner Braumann in Switzerland. As production is now also taking place at ETNA, we have taken the next step in the Triple R philosophy as part of extending the life of our products: Repair - Re-use - Recycle. Within the Re-use philosophy, we also offer the possibility to refurbish brewing groups.

WHAT DOES REFURBISHING INVOLVE?

When refurbishing a brewing group, the parts that are recommended to be replaced during a maintenance service after 100,000 - 120,000 brews are replaced. These are the parts that are subject to wear and tear or that can be replaced for aesthetic reasons.



RECYCLABILITY OF ETNA MACHINES

During the design phase, ETNA already takes into account the recyclability of its machines.

For example, we find ways to bond and seal as few different materials as possible. This policy has resulted in our machines achieving a very high recyclability rate.

Example: ETNA Dorado Espresso medium

96,81%

Recyclability DES121BBZEUCU90					
Percent	Material	Recy y/n	Count %	Recyclable	Not Recyclable
3,76 %	ABS	y	100 %	3,76 %	
0,05 %	AISI 302 (1.4310) (spring steel)	y	100%	0,05 %	
0,79 %	AISI 304 (1.4301)	y	100%	0,79 %	
0,11 %	AISI 430 (1.4016)	y	100%	0,11 %	
2,37 %	Aluminium	y	100 %	2,37 %	
0,19 %	Bronze	y	100 %	0,19 %	
1,46 %	EPS 100	y	100 %	1,46 %	
0 %	HDPE-T	y	100%	0 %	
1,10%	Wood	y	100%	1,10 %	
4,18 %	Cardboard	y	100%	4,18 %	
0,66 %	Messing	y	100%	0,66 %	
2,75 %	Other recyclable	y	100 %	2,75 %	
0,16 %	PA 6	y	100 %	0,16 %	
0,70 %	PA 6.6	y	100 %	0,70 %	
0,53 %	Paper	y	100 %	0,53 %	
0,95 %	PC	y	100 %	0,95 %	
0,25 %	Polyethylene, low density	y	100 %	0,25 %	
0,21 %	POM	y	100 %	0,21 %	
1,49 %	PP	y	100 %	1,49 %	
3,79 %	PS	y	100 %	3,79 %	
43,61 %	Sendzimir/zincor	y	100 %	43,61 %	
0,46 %	Silicone	y	100 %	0,46 %	
0,59 %	Steel	y	100 %	0,59 %	
1,18 %	PCB	y/n	100 %	0,59 %	0,59 %
2 %	Cable/tree	y/n	100 %	1,40 %	0,60 %
0,03 %	Mech assembly 1 recyclable 75	y/n	75 %	0,02 %	0,01 %
25,95 %	Mech assembly 1 recyclable 95	y/n	95 %	24,65 %	1,30 %
0,08 %	Other non-recyclable	n	100 %	0 %	0,08 %
0,61 %	Mech assembly 2 non recycleble 0	n	100 %	0 %	0,61 %
100%				96,81 %	3,19 %

PCB: Assumption that 50% by weight can be recycled.

Cable and wiring harnesses: Assumption that 70 % of the weight (core material) can be recycled.

Mech assembly 1: Assumption that 76% by weight can be recycled.

OPEN FOUNDATION

ETNA is a member of the OPEN Foundation. This means that we pay a disposal fee for each machine. This allows all ETNA machines to be submitted for recycling at the end of their useful life in a proper manner and free of charge at that time for the customer.

OPEN Foundation provides sustainable and environmentally friendly processing of collected, discarded electrical appliances. After collection, the electrical appliances are sorted. Some appliances are manually disassembled allowing for reuse or better recycling. Where possible, this activity is carried out by people with limited access to the job market. Then the e-waste is processed in the best possible way by CENELEC-certified processors. In the process, environmentally hazardous substances such as batteries and capacitors, are also removed. The collected appliances are all eventually recycled into new raw materials.

For more information about the OPEN Foundation, please visit: www.stichting-open.org

WEEE NETHERLANDS B.V.

ETNA is also a member of and affiliated with WEEE Nederland B.V. Currently this is an important collection and recycling platform, especially for Germany.

WEEE is the acronym of Waste Electrical and Electronic Equipment. WEEE is the common name for the European directive that regulates the collection and recycling of this waste stream.

For more information about WEEE, please visit:

www.weee.nl





SOCIAL RESPONSIBILITY

COLLABORATION GRAAFSCHAP COLLEGE, HAN AND UNIVERSITY OF TWENTE

ETNA has entered into a collaboration with Graafschap College, de HAN and the University of Twente. We offer students internships in various departments within ETNA.

OPEN HOUSE AND ETNA FAMILY DAY

On Saturday 24 September 2022, ETNA participated in the Open Bedrijvendag (Open Business Day) Doetinchem. Together with over 39 companies, we then opened our doors and gave visitors a look behind the scenes. ETNA combined this with the ETNA Family Day. Our employees were invited to show their families around their workplace during the open house.

DOETINCHEM FOODBANK

During the open house, a prize draw was held in which visitors present had the chance to win a €1,000 prize, to be donated to a charity of their choice. The winner's choice was the Doetinchem Food Bank.

MINI MANNA FOUNDATION

The Mini Manna Foundation is an independent social enterprise established in Doetinchem in 2007 to support a large group of residents with insufficient income to make ends meet. They now also have branches in Ulft and Winterswijk.

During its 15 years of operation, the Mini Manna Foundation has grown into one of the leading players in the fight against poverty. The foundation has also grown into a place where day activities, reintegration and participation are carried out in an inclusive manner. All this is based on the motto "driven by the target group for the target group".

We are delighted to contribute to these efforts. The coffee beans ground in our factory when adjusting the coffee machines are donated to the Mini Manna Foundation.



SOLAR TEAM TWEENTE *POWERED BY HUMAN ENERGY*



SOLAR TEAM TWENTE

We have been an official partner of the Solar Team Twente since 2022. The Solar Team Twente is a group of students from Saxion and the University of Twente who design and construct solar cars to compete in the World Solar Challenge. The students of Solar Team Twente develop a new solar car from scratch within a single year. The car is designed to drive more than 3,000 kilometres using only solar energy. Innovations are constantly being implemented in the solar car's designs to make the world's most efficient solar car.

Solar Team Twente is the winner of the Solar Challenge Morocco 2021, a gruelling race through the deserts and mountains of the West African country.

For more information about Solar Team Twente, visit www.solarteam.nl



THE FUTURE IS GREEN

SIMPLY UNSTOPPABLE

ETNA PLAN 2023

THIS IS HOW WE CONTINUE

SIMPLY UNSTOPPABLE

PLAN 2023

OBJECTIVE: Fully CO₂ neutral in 2030

CO₂ EMISSIONS IN 2022: 226 tonnes

PROJECTED CO₂ REDUCTION 2023: 26.5 tonnes

ONGOING AND UPCOMING REDUCTION MEASURES IN 2023

1. Project*: sustainable electric heating at workstations in assembly hall.
2. Thermostat 1 degree lower.
3. Project*: eliminating leaks in compressed air pipes/couplings
4. 100% LED lighting.
5. Lights OFF policy: awareness campaign among employees not to leave unnecessary lights on and turn off equipment when not in use.
6. Encourage commuting by bike by installing a proper bike shelter with charging facilities for electric bikes.

* Projects with payback periods < 5 years will be implemented immediately.

OTHER ACTIONS TO ENHANCE A HEALTHY AND SUSTAINABLE POLICY

- Sports activities calendar: stimulating employees to be (even more) active;
- Draw up a plan with the OPEN foundation and WEEE Nederland B.V. to increase the incentive and ease of returning coffee machines for recycling for our customers;
- Enable Energy Saving Mode of all machines by default in the factory.



ETNA

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