



GENERAL INFORMATION

HOW MANY PEOPLE LIVE IN YOUR HOUSEHOLD?

NUMBER OF PEOPLE IN YOUR HOUSEHOLD *

2



WHAT IS THE TOTAL AREA OF YOUR LIVING SPACE?

LIVING SPACE (IN M²) *

67



IN WHICH COUNTRY DO YOU LIVE?

Germany



We are constantly trying to expand the selection of countries.



GENERAL INFORMATION

Throughout the calculator, you can find information or fun facts for every page here.

Notices regarding specific questions or requested information can be found at the little black "information-i" right next to the text.

For some questions, you will see pre-filled answers.

Those are averages, adjusted to the size of your household.

Fields marked with a * indicate that this information is required to calculate your carbon footprint.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.

CO2-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

2 OF 14



ELECTRICITY

WHAT WAS YOUR ELECTRICITY CONSUMPTION LAST YEAR?

ELECTRICITY CONSUMPTION (IN KWH)

7000



[» use average](#)

WHICH ENERGY SOURCE DOES THE ELECTRICITY COME FROM?*

- | | |
|-------------------------------------|--|
| <input type="radio"/> MIXED SOURCES | <input checked="" type="radio"/> ECO POWER |
| <input type="radio"/> HYDRO POWER | <input type="radio"/> SOLAR POWER |
| <input type="radio"/> WIND POWER | <input type="radio"/> UNKNOWN |

DO YOU GENERATE YOUR OWN ELECTRICITY?

- ☒ YES ☐ NO

WHICH ENERGY SOURCE WAS USED TO GENERATE HOW MUCH ELECTRICITY?

SOLAR POWER (IN KWH)

33000



WIND POWER (IN KWH)



FUN FACT

The word "electricity" comes from the greek word "elektron" which means amber.

This goes back to the Greek mathematician Thales of Miletus, who had in 6000 AD already found out that amber can be electrostatically charged.

SAVE PROGRESS →

YOUR FAMILY

[edit](#)

2 People

Living Space 67 m²

CO2-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

3 OF 14



HEATING

WHAT ENERGY SOURCE DOES YOUR HEAT COME FROM?

- ☐ NATURAL GAS ☐ FUEL ☐ DISTRICT HEATING
- ☐ BIOGAS ☐ RENEWABLE ENERGIES ☒ ELECTRICITY
- ☐ UNKNOWN
- wood pellets, geothermal heating, ...

WHAT WAS YOUR HEATING ENERGY CONSUMPTION LAST YEAR?

HEATING ENERGY CONSUMPTION (IN KWH)

0



[» use average](#)

☐ WE GENERATE ADDITIONAL HEATING ENERGY WITH A SOLAR THERMAL SYSTEM.



NOTE

Added to heating, we also add emissions to your carbon footprint for construction, maintenance and disposal of your house or living space in relation to its size.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.



CO₂-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

4 OF 14



WATER

WHAT WAS YOUR WATER CONSUMPTION LAST YEAR?

WATER CONSUMPTION (IN M³)

88,48



[» use average](#)



DID YOU KNOW..?

The average water consumption per person in Germany is 160 Billion cubic meters.

That is three times as much water as there is in Lake Constance!

SAVE PROGRESS →

YOUR FAMILY

[edit](#)

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.

CO2-CALCULATOR FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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NUTRITION

WHICH OPTION BEST DESCRIBES YOUR REGULAR NUTRITION?

We...

- ☐ EAT A LOT OF MEAT
> 100g/0.22lb of meat per person and day
- ☐ ARE VEGETARIAN
- ☐ REGULARLY EAT MEAT
50-99g/0.11-0.22lb of meat per person and day
- ☐ ARE VEGAN
- ☒ RARELY EAT MEAT
< 50g/0.11lb of meat per person and day

HOW IMPORTANT ARE THE FOLLOWING CRITERIA FOR YOUR GROCERY SHOPPING?

REGIONAL (IN %)



SEASONAL (IN %)



ORGANIC (IN %)



DID YOU KNOW..?

Already in 1892, the German Vegetarian Union was founded. Today, around 8 Mio. people in Germany are vegetarian and the numbers are rising.



HOW OFTEN DO YOU EAT OUT?

CO2-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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MOBILITY

WHICH MEANS OF TRANSPORT DO YOU USE? ⓘ

- | | |
|---|---|
| <input checked="" type="checkbox"/> CAR | <input type="checkbox"/> PUBLIC TRANSPORT |
| <input type="checkbox"/> BICYCLE | <input type="checkbox"/> MOTORCYCLE |
| <input type="checkbox"/> TRAIN | <input type="checkbox"/> FERRY |

CAR

DETAILS ABOUT YOUR CAR

WHAT TYPE OF CAR DO YOU HAVE?

- ☒ ELECTRICAL

VEHICLE SIZE

- ☒ LARGER THAN
MIDDLE CLASS ⓘ

WHAT DISTANCE DO YOU TRAVEL PER MONTH IN THIS VEHICLE?

DISTANCE (IN KM)

2000



☐ + ADDITIONAL VEHICLE

FUN FACT

The people of Copenhagen altogether travel 1.27 Mio. km by bike every day.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

CO2-CALCULATOR FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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TRAVEL

DID YOU TRAVEL LAST YEAR?

☐ YES

☒ NO



FUN FACT

The shortest regular flight of the world takes only two minutes! It commutes between the Orkney Islands Westray and Papa-Westray.

SAVE PROGRESS →

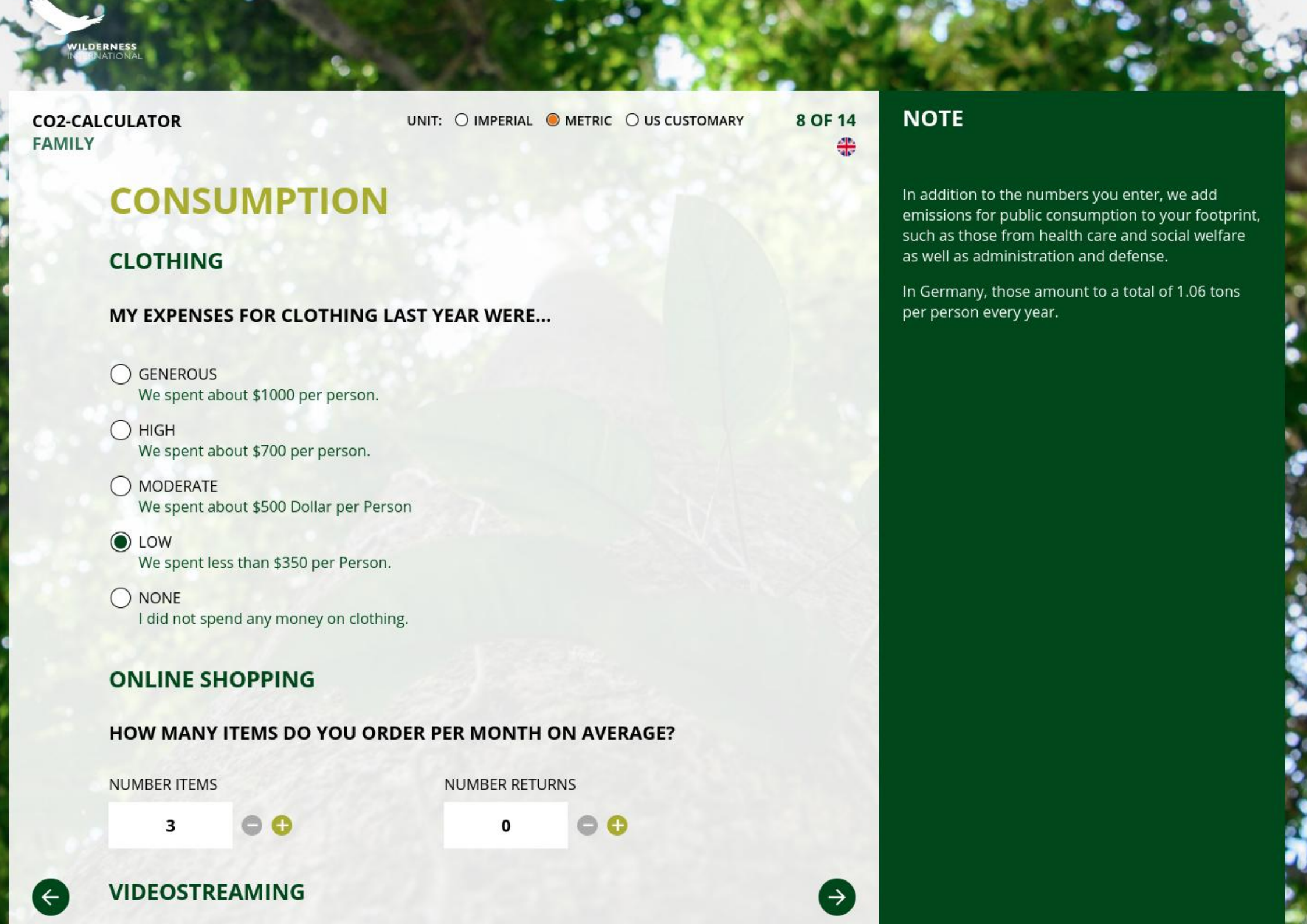
YOUR FAMILY

[edit](#)

2 People

Living Space **67 m²**

The pre-filled values are ø values and result from your information about your family.



CONSUMPTION

CLOTHING

MY EXPENSES FOR CLOTHING LAST YEAR WERE...

- ☐ GENEROUS
We spent about \$1000 per person.
- ☐ HIGH
We spent about \$700 per person.
- ☐ MODERATE
We spent about \$500 Dollar per Person
- ☒ LOW
We spent less than \$350 per Person.
- ☐ NONE
I did not spend any money on clothing.

ONLINE SHOPPING

HOW MANY ITEMS DO YOU ORDER PER MONTH ON AVERAGE?

NUMBER ITEMS

3

-

+

NUMBER RETURNS

0

-

+

NOTE

In addition to the numbers you enter, we add emissions for public consumption to your footprint, such as those from health care and social welfare as well as administration and defense.

In Germany, those amount to a total of 1.06 tons per person every year.



CO2-CALCULATOR FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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WASTE

HOW MUCH WASTE DOES YOUR HOUSEHOLD PRODUCE PER MONTH? ⓘ

NUMBER OF FULL RECYCLING BINS ⓘ

5,6



[» use average](#)

NUMBER OF GARBAGE BAGS ⓘ

11,8



[» use average](#)

NUMBER OF FULL PAPER BINS ⓘ

1



[» use average](#)

NUMBER OF FULL ORGANIC WASTE BINS ⓘ

6,8



[» use average](#)



DID YOU KNOW..?

40% of what goes into the garbage is actually biodegradable waste! Another 27% could have been recycled.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.

CO₂-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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HOUSEHOLD APPLIANCES

HOW MANY OF THE FOLLOWING APPLIANCES DO YOU HAVE AT HOME?

FREEZERS ⓘ

1



DRYERS



DISHWASHERS

1



DETAILED QUESTIONNAIRE

☐

DETAILED QUESTIONNAIRE



NOTE

If you **do not** fill out the **detailed questionnaire**, we include the following in our calculations:

- the number of freezers, dryers and dishwashers you entered, and
- one of each of the following items: microwave, oven, stove, washing machine, fridge/freezer combination, toaster, coffee machine and electric kettle

If you would like to enter the exact number of those appliances that you own, please use the **detailed questionnaire**.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.



ENTERTAINMENT ELECTRONICS

HOW MANY OF THE FOLLOWING DEVICES DO YOU HAVE?

SMARTPHONES

2



TABLETS



LAPTOPS/NOTEBOOKS

2



PCS + ACCESSORY 



SCREENS



PRINTERS

1



TVS



GAMING CONSOLES



STEREOS



E-BOOK READERS



LANGUAGE ASSISTANTS



OTHER SMALL DEVICES 



DID YOU KNOW..?

In Germany, on average, a smartphone is replaced after only 1.5 to 2 years.

SAVE PROGRESS →

YOUR FAMILY

[edit](#)

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.

CO2-CALCULATOR FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

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PETS

DO YOU HAVE PETS?

☐ YES

☒ NO



FUN FACT

Mice teeth are almost as hard as diamonds.

SAVE PROGRESS →

YOUR FAMILY

edit

2 People

Living Space 67 m²

The pre-filled values are ø values and result from your information about your family.



CO₂- CALCULATOR FAMILY



EVALUATION

CO₂-EMISSIONS ⓘ

13.95 t CO₂

THESE EMISSIONS CAN BE
COMPENSATED WITH ⓘ

232.5 m²

Rainforest



COMPENSATE NOW

THIS AREA CAN BE PROTECTED
WITH ⓘ

232.50 €

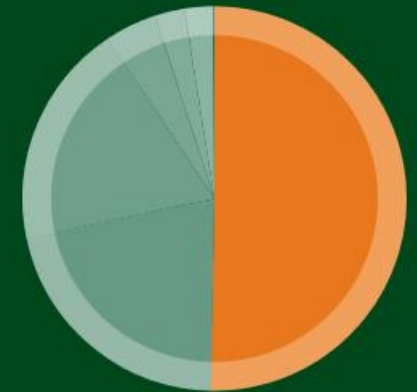
as a donation to Wilderness
International

CHANGE ENTRIES

Result PDF with suggestions and all background
information will be sent after completion of the
CO₂ compensation through forest protection!

ANALYSIS

- 50.3% Mobility**
- 21.4% Food and Drinks**
- 18.9% Consumption**
- 4.4% Electricity**
- 2.5% Entertainment Electronics**
- 2.4% Electronic Devices**



POSSIBLE SOLUTIONS MOBILITY

One way to reduce emissions originating from mobility would be to walk or bike more and at the same time become fitter! If you need a car, carsharing can free you from many responsibilities and reduce your costs. Many business trips can be replaced with online meetings and allow you to be more relaxed as well. If you do not want to or cannot stop flying, booking direct flights reduces emissions. You should also check for rail&fly offers of your airline which allow you to affordably and quickly get to the airport by train instead of having to take the plane or your car.



ELECTRICITY

WHAT WAS YOUR ELECTRICITY CONSUMPTION LAST YEAR?

ELECTRICITY CONSUMPTION (IN KWH)

7000



[» use average](#)

WHICH ENERGY SOURCE DOES THE ELECTRICITY COME FROM?*

- ☐ MIXED SOURCES
- ☒ ECO POWER
- ☐ HYDRO POWER
- ☐ SOLAR POWER
- ☐ WIND POWER
- ☐ UNKNOWN

DO YOU GENERATE YOUR OWN ELECTRICITY?

- ☒ YES
- ☐ NO

WHICH ENERGY SOURCE WAS USED TO GENERATE HOW MUCH ELECTRICITY?

SOLAR POWER (IN KWH)

0



WIND POWER (IN KWH)



FUN FACT

The word "electricity" comes from the greek word "elektron" which means amber.

This goes back to the Greek mathematician Thales of Miletus, who had in 6000 AD already found out that amber can be electrostatically charged.

SAVE PROGRESS →

YOUR FAMILY

[edit](#)

2 People

Living Space 67 m²

CO₂- CALCULATOR FAMILY



EVALUATION

CO₂-EMISSIONS ⓘ

13.61 t CO₂

THESE EMISSIONS CAN BE
COMPENSATED WITH ⓘ

226.81 m²

Rainforest



COMPENSATE NOW

THIS AREA CAN BE PROTECTED
WITH ⓘ

226.81 €

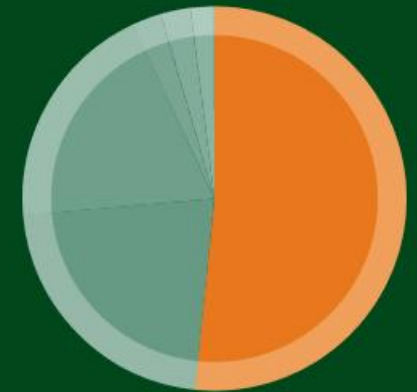
as a donation to Wilderness
International

CHANGE ENTRIES

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CO₂ compensation through forest protection!

ANALYSIS

- 51.6% Mobility**
- 22.0% Food and Drinks**
- 19.4% Consumption**
- 2.5% Entertainment Electronics**
- 2.5% Electronic Devices**
- 2.0% Electricity**



POSSIBLE SOLUTIONS MOBILITY

One way to reduce emissions originating from mobility would be to walk or bike more and at the same time become fitter! If you need a car, carsharing can free you from many responsibilities and reduce your costs. Many business trips can be replaced with online meetings and allow you to be more relaxed as well. If you do not want to or cannot stop flying, booking direct flights reduces emissions. You should also check for rail&fly offers of your airline which allow you to affordably and quickly get to the airport by train instead of having to take the plane or your car.

CO2-CALCULATOR FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

2 OF 14



ELECTRICITY

WHAT WAS YOUR ELECTRICITY CONSUMPTION LAST YEAR?

ELECTRICITY CONSUMPTION (IN KWH)

2800



[» use average](#)

WHICH ENERGY SOURCE DOES THE ELECTRICITY COME FROM?*

- ☐ MIXED SOURCES
- ☒ ECO POWER
- ☐ HYDRO POWER
- ☐ SOLAR POWER
- ☐ WIND POWER
- ☐ UNKNOWN

DO YOU GENERATE YOUR OWN ELECTRICITY?

- ☒ YES
- ☐ NO

WHICH ENERGY SOURCE WAS USED TO GENERATE HOW MUCH ELECTRICITY?

SOLAR POWER (IN KWH)

0



WIND POWER (IN KWH)



FUN FACT

The word "electricity" comes from the greek word "elektron" which means amber.

This goes back to the Greek mathematician Thales of Miletus, who had in 6000 AD already found out that amber can be electrostatically charged.

SAVE PROGRESS →

YOUR FAMILY

[edit](#)

2 People

Living Space 67 m²

CO2-CALCULATOR
FAMILY

UNIT: ☐ IMPERIAL ☒ METRIC ☐ US CUSTOMARY

6 OF 14



MOBILITY

WHICH MEANS OF TRANSPORT DO YOU USE? ⓘ

- | | |
|---|---|
| <input checked="" type="checkbox"/> CAR | <input type="checkbox"/> PUBLIC TRANSPORT |
| <input type="checkbox"/> BICYCLE | <input type="checkbox"/> MOTORCYCLE |
| <input type="checkbox"/> TRAIN | <input type="checkbox"/> FERRY |

CAR

DETAILS ABOUT YOUR CAR

WHAT TYPE OF CAR DO YOU HAVE?

- ☒ COMBUSTION
ENGINE

VEHICLE SIZE

- ☒ LARGER THAN
MIDDLE CLASS ⓘ

WHAT DISTANCE DO YOU TRAVEL PER MONTH IN THIS VEHICLE?

DISTANCE (IN KM)

2000



FUN FACT

The people of Copenhagen altogether travel 1.27 Mio. km by bike every day.

SAVE PROGRESS →

YOUR FAMILY

edit

CO₂- CALCULATOR FAMILY



EVALUATION

CO₂-EMISSIONS ⓘ

14.57 t CO₂

THESE EMISSIONS CAN BE
COMPENSATED WITH ⓘ

242.76 m²

Rainforest



COMPENSATE NOW

THIS AREA CAN BE PROTECTED
WITH ⓘ

242.76 €

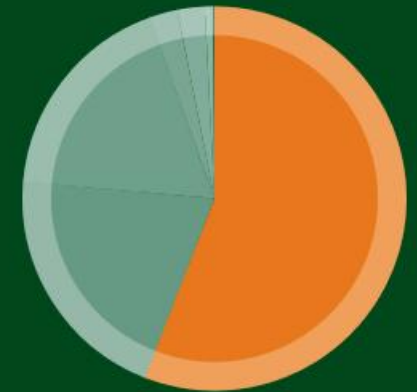
as a donation to Wilderness
International

CHANGE ENTRIES

Result PDF with suggestions and all background
information will be sent after completion of the
CO₂ compensation through forest protection!

ANALYSIS

- 55.9% Mobility**
- 20.5% Food and Drinks**
- 18.1% Consumption**
- 2.4% Entertainment Electronics**
- 2.3% Electronic Devices**
- 0.7% Electricity**



POSSIBLE SOLUTIONS MOBILITY

One way to reduce emissions originating from mobility would be to walk or bike more and at the same time become fitter! If you need a car, carsharing can free you from many responsibilities and reduce your costs. Many business trips can be replaced with online meetings and allow you to be more relaxed as well. If you do not want to or cannot stop flying, booking direct flights reduces emissions. You should also check for rail&fly offers of your airline which allow you to affordably and quickly get to the airport by train instead of having to take the plane or your car.

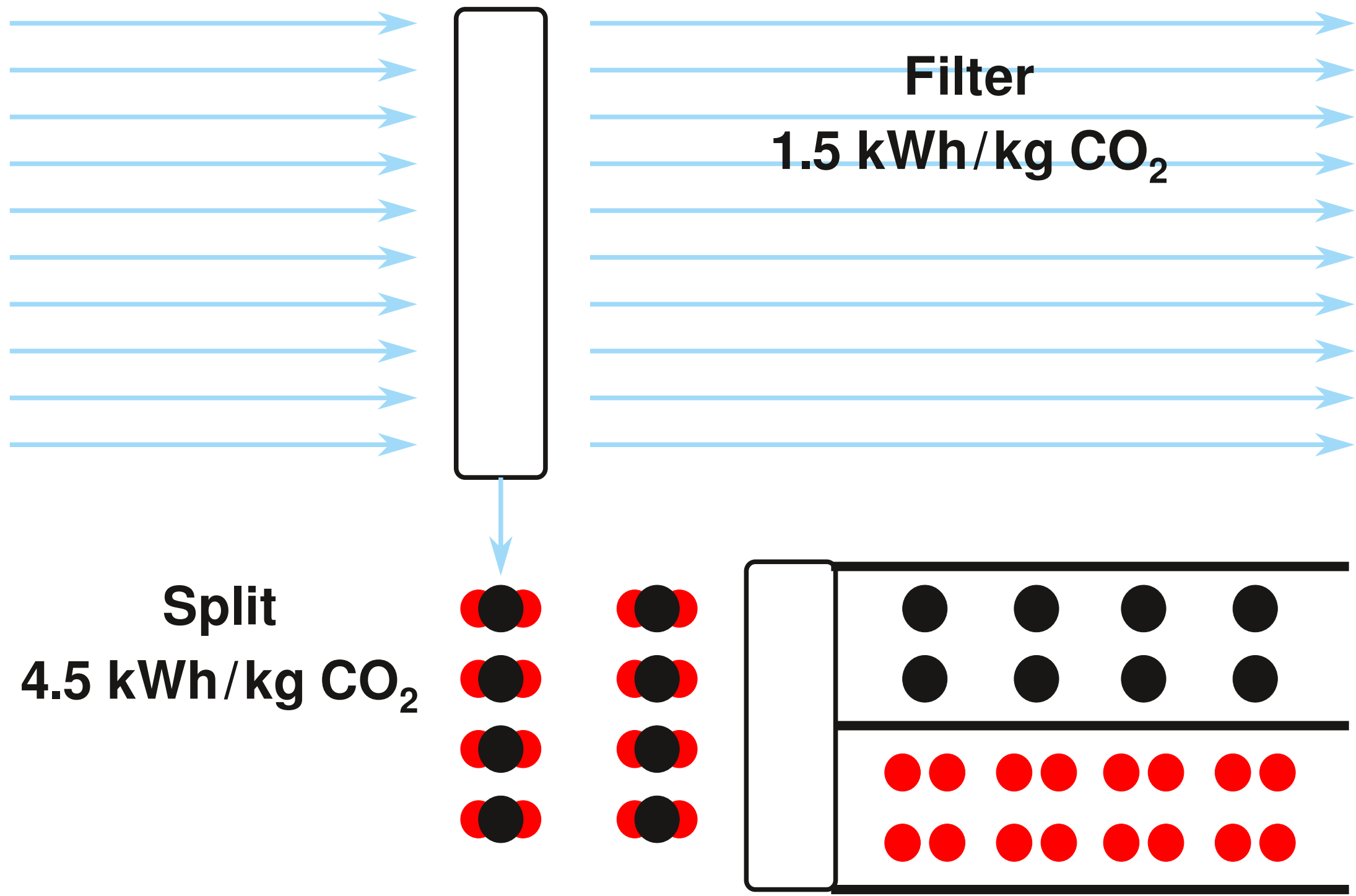
CO2 calculator Energy balance calculator

Since there is not a single footprint calculator where you can enter the values of a GEMINI next generation, here is our CO2 energy balance calculator for housing and mobility.

We do not have 37 million km² of growing forest

Footprint calculators assume that 1 m² of growing forest can absorb 1 kg CO₂ per year. This would work very well with 1 to 2 billion tons of CO₂ emissions per year. Creating 1 to 2 million km² of new forest would not be a feat.

But one thing is certain: we do not have 37 million km² for new forest areas. This fact is expressed with the saying "We need 2 Earths". Since we don't have 2 Earths, we need a more efficient method to reduce CO₂. Filtering one kg of CO₂ from the atmosphere and splitting it into carbon and oxygen requires 6 kWh of electricity. A square meter of photovoltaic can produce 360 kWh per year in a sunny desert and thus supply a facility with electricity that reduces 60 kg of CO₂ with these 360 kWh. Instead of 37 million km² growing forest around 0.6 million km² photovoltaic in sunny deserts. We have them, that is feasible.



Energy balance calculator

Our energy balance calculator evaluates every kWh of electricity you feed into the grid as 1 kWh positive in your balance and every kg of CO₂ emission as 6 kWh negative.

The values come from [Calculation of greenhouse gas \(GHG\) emissions from various energy sources](#) Federal Environment Agency Austria as of 2019. The upstream chain is taken into account at the Federal Environment Agency Austria. For example, from the borehole via transport to the refinery and to the filling station. There are also information on air travel and other emissions.

Deviating from this, the CO₂ default for electricity is 420 g/kWh according to [Umweltbundesamt Deutschland 2021](#)

Deviating from this, we do not believe that a tree that would stand for 300 years is CO₂ neutral, we therefore calculate 50% of the carbon present in the [wood for burning](#).

The preset values correspond to a GEMINI next Generation house between 47 and 50 degrees latitude with 33 kW peak photovoltaic, additional 10 kW photovoltaic on the garage and 20,000 km per year driving an electric car.

Haus um 1970, Dieselauto 20.000 km pro Jahr

Electricity purchasing	4000	kWh
Electricity mix	420	g CO2/kWh
Electricity feed-in	0	kWh
Heating oil	2000	Liter
Diesel	1200	Liter
Gasoline	0	Liter
Natural gas (10 kWh/m ³ 13 kWh/kg)	0	kWh
Wood	0	kg
Other CO2 emissions	0	kg

Your energy balance in electricity

72408 kWh

Extensive thermal refurbishment, 60% less heat demand

Electricity purchasing	4000	kWh
Electricity mix	420	g CO2/kWh
Electricity feed-in	0	kWh
Heating oil	800	Liter
Diesel	1200	Liter
Gasoline	0	Liter
Natural gas (10 kWh/m ³ 13 kWh/kg)	0	kWh
Wood	0	kg
Other CO2 emissions	0	kg

Your energy balance in electricity

48576 kWh

Oil heating out, heat pump in

Electricity purchasing	<input type="text" value="6000"/>	kWh
Electricity mix	<input type="text" value="420"/>	g CO2/kWh
Electricity feed-in	<input type="text" value="0"/>	kWh
Heating oil	<input type="text" value="0"/>	Liter
Diesel	<input type="text" value="1200"/>	Liter
Gasoline	<input type="text" value="0"/>	Liter
Natural gas (10 kWh/m ³ 13 kWh/kg)	<input type="text" value="0"/>	kWh
Wood	<input type="text" value="0"/>	kg
Other CO2 emissions	<input type="text" value="0"/>	kg

Your energy balance in electricity

37728 kWh

Diesel car gone, electric car here

Electricity purchasing	<input type="text" value="9500"/>	kWh
Electricity mix	<input type="text" value="420"/>	g CO2/kWh
Electricity feed-in	<input type="text" value="0"/>	kWh
Heating oil	<input type="text" value="0"/>	Liter
Diesel	<input type="text" value="0"/>	Liter
Gasoline	<input type="text" value="0"/>	Liter
Natural gas (10 kWh/m ³ 13 kWh/kg)	<input type="text" value="0"/>	kWh
Wood	<input type="text" value="0"/>	kg
Other CO2 emissions	<input type="text" value="0"/>	kg

Your energy balance in electricity

23940 kWh

10 kW photovoltaic on the south roof

Electricity purchasing	6500	kWh
Electricity mix	420	g CO2/kWh
Electricity feed-in	7000	kWh
Heating oil	0	Liter
Diesel	0	Liter
Gasoline	0	Liter
Natural gas (10 kWh/m ³ 13 kWh/kg)	0	kWh
Wood	0	kg
Other CO2 emissions	0	kg

Your energy balance in electricity

9380 kWh

GEMINI next Generation house with electric car

Electricity purchasing	<input type="text" value="100"/>	kWh
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Electricity mix	<input type="text" value="420"/>	g CO2/kWh
-----------------	----------------------------------	-----------

Electricity feed-in	<input type="text" value="26100"/>	kWh
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Heating oil	<input type="text" value="0"/>	Liter
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Diesel	<input type="text" value="0"/>	Liter
--------	--------------------------------	-------

Gasoline	<input type="text" value="0"/>	Liter
----------	--------------------------------	-------

Natural gas (10 kWh/m ³ 13 kWh/kg)	<input type="text" value="0"/>	kWh
---	--------------------------------	-----

Wood	<input type="text" value="0"/>	kg
------	--------------------------------	----

Other CO2 emissions	<input type="text" value="0"/>	kg
---------------------	--------------------------------	----

Your energy balance in electricity

-25848 kWh

-250% CO₂

**Planet renovation
back to 350 ppm CO₂,
we contribute house by house**

