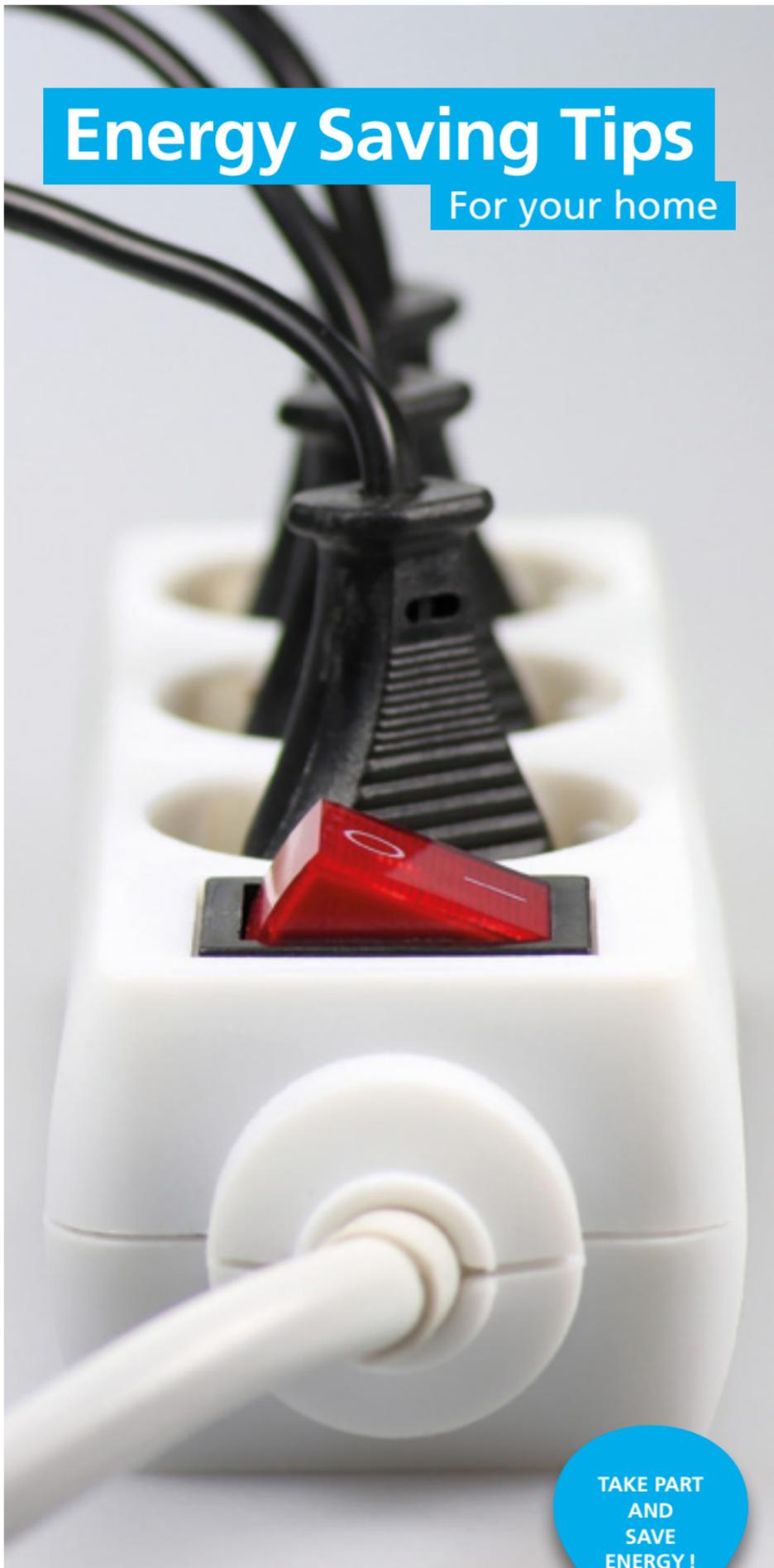


Energy Saving Tips

For your home



TAKE PART
AND
SAVE
ENERGY!



STADTWERKE
STUTT GART



New Public Utilities. New energy.

Supplying residents and industry safely and reliably with power, natural gas and water is an important task in Germany. There are a range of companies who are responsible for infrastructure, production and transport of energy to all consumers. At present, energy in Germany is generated from a range of sources: Fossil energy from coal and gas as well as nuclear power but also renewable energy sources such as wind, water or solar energy.

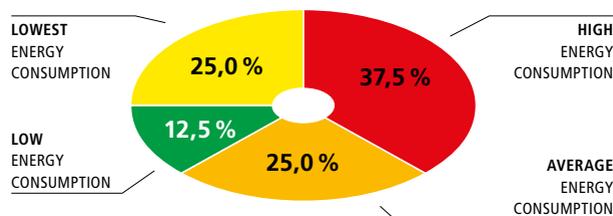
Germany has set itself the goal to completely restructure its energy supply for the future - referred to as the "Energy Revolution" project. The long-term objective is to no longer generate energy from coal or nuclear power, since these resources are not limitless. The share of environmentally friendly renewable energy, however, is set to increase from currently 25% to 80% by 2050. Just as important is a more efficient use and targeted energy savings. The aim is to limit the emission of climate-damaging carbon dioxide and to stop global warming. Stadtwerke Stuttgart (Public Utilities Stuttgart) is part of this energy revolution! This municipal company only offers clean energy from renewable sources to all residents and companies in Stuttgart. By choosing green energy,

everyone is able to progress the energy revolution in the city. Today, Stadtwerke Stuttgart already invests only in renewable energies and operates numerous wind energy and photovoltaic plants. Furthermore, we offer products which allows Stuttgart residents to generate their own clean energy.

Saving energy is an important part to make the energy revolution a success. Every kilowatt hour which is saved does not have to be generated in the first place. In the Energy Saving Brochure by Stadtwerke Stuttgart, you will find specific tips how you can save energy, lower costs and therefore actively support the energy revolution in Stuttgart.

COMPARE, RECOGNISE POTENTIAL, SAVE

There are many reasons to save energy: It saves money, protects the climate and you don't have to forgo comfort. Before you even begin to save energy, however, you should look into the following question: How much energy do I actually use and how does that compare to other households?



A comparison of average energy use in Germany

1. Find your most recent electricity bill. On it, you can find your annual power consumption. →
2. Find your consumption in the comparison table below. →
3. Compare the amount on your electricity bill with the information on average energy

TYPE OF BUILDING	PERSONS IN HOUSEHOLD	CONSUMPTION OF KILOWATT HOURS (kWh) PER YEAR			
		LOWEST	LOW	AVERAGE	HIGH
🏠 SINGLE OR TWO-FAMILY HOUSE	1 person icon	< 1.500	1.500 – 2.200	2.200 – 3.200	> 3.200
🔌 WARM WATER WITHOUT ELECTRICITY	2 person icons	< 2.100	2.100 – 3.000	3.000 – 3.600	> 3.600
	3 person icons	< 2.700	2.700 – 3.500	3.500 – 4.300	> 4.300
	4 person icons	< 3.000	3.000 – 4.000	4.000 – 5.000	> 5.000
	5 person icons +	< 3.500	3.500 – 4.900	4.900 – 6.000	> 6.000
🏠 SINGLE OR TWO-FAMILY HOUSE	1 person icon	< 1.700	1.700 – 2.600	2.600 – 3.700	> 3.700
🔌 WARM WATER WITH ELECTRICITY	2 person icons	< 2.500	2.500 – 3.500	3.500 – 4.400	> 4.400
	3 person icons	< 3.300	3.300 – 4.300	4.300 – 5.600	> 5.600
	4 person icons	< 3.600	3.600 – 5.000	5.000 – 6.200	> 6.200
	5 person icons +	< 4.500	4.500 – 6.300	6.300 – 8.500	> 8.500
🏠 FLAT IN APARTMENT BUILDING	1 person icon	< 800	800 – 1.300	1.300 – 1.700	> 1.700
🔌 WARM WATER WITHOUT ELECTRICITY	2 person icons	< 1.400	1.400 – 2.000	2.000 – 2.500	> 2.500
	3 person icons	< 1.800	1.800 – 2.600	2.600 – 3.300	> 3.300
	4 person icons	< 2.000	2.000 – 3.000	3.000 – 3.800	> 3.800
	5 person icons +	< 2.300	2.300 – 3.600	3.600 – 4.700	> 4.700
🏠 FLAT IN APARTMENT BUILDING	1 person icon	< 1.200	1.200 – 1.800	1.800 – 2.400	> 2.400
🔌 WARM WATER WITH ELECTRICITY	2 person icons	< 2.000	2.000 – 2.800	2.800 – 3.500	> 3.500
	3 person icons	< 2.800	2.800 – 3.900	3.900 – 4.700	> 4.700
	4 person icons	< 3.100	3.100 – 4.400	4.400 – 5.500	> 5.500
	5 person icons +	< 3.800	3.800 – 5.500	5.500 – 7.000	> 7.000

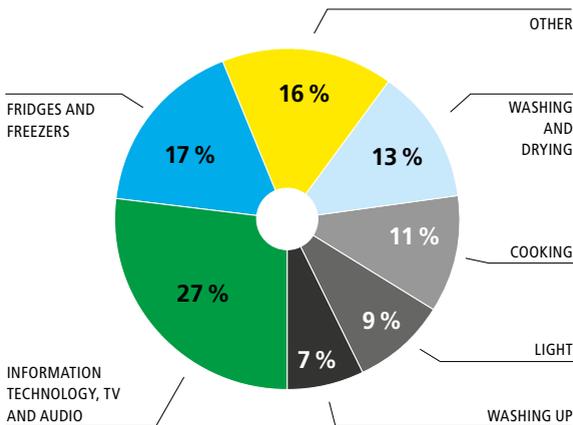
ANALYSE CONSUMPTION AND SAVE ENERGY

You now know your personal energy consumption and if you use more or less than similar households. On the following pages, Stadtwerke Stuttgart will give you tips and tricks on how you can reduce your energy consumption and which saving potentials this will bring. Only those who know how can save energy efficiently!

What contributes to energy consumption?

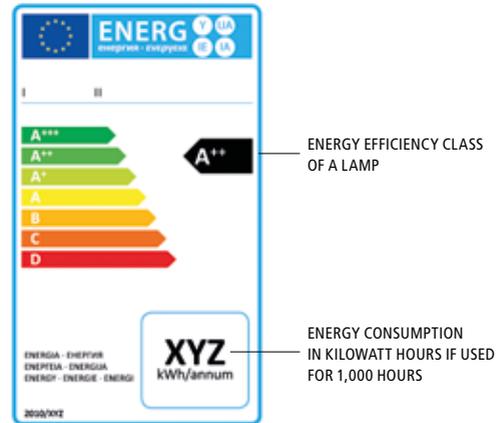
A three-person household in an apartment building uses on average 3,000 kilowatt hours of energy per year. A quarter of this is used by TV, radio, computer, smart-phone etc. This is mainly due to the constantly growing number of electrical devices in households and their longer lifetime.

Fridges and freezers, washing machines and dryers also offer great saving potential. The main benefit here will come from using more efficient appliances. The Energy Efficiency Class indicates if an appliance uses a lot or little energy.



ENERGY EFFICIENCY CLASS FROM A+++ TO D

The Energy Efficiency Class is an obligatory European consumer information which gives appliances a rating according to their energy consumption in order to allow the consumers to make a comparison.



For a long time, "A" was the most economical Energy Efficiency Class. In 2011, three new classes were introduced: the most economical appliances are now awarded "A+++". "A" is now in fourth place. For fridges and freezer, washing machines and dishwashers, it is only possible to retail new appliances that have a rating of "A+" to "A+++"; "A+" is the worst Energy Efficiency Class in this case.

For many years to come, the old and the new Energy Efficiency Class will stand next to each other in the shops: Retail is allowed to sell appliances with the "old" Energy Efficiency Class which are still in the shop or in stock without a time limit.

The appliances do not have to be relabelled.

Therefore, it is important that you check the Energy Efficiency Class when buying a new appliance. These appliances may cost a bit more, but will save a lot of energy in the long run and hence save you cash.



ENTERTAINMENT TECHNOLOGY AND COMPUTER

Use the energy saving mode of your computer

Energy saving mode ensures that energy is only used when you actually work on your computer. This can reduce the power consumption of your computer significantly. The following applies in general: Netbooks and laptops require less energy than desktop PCs.



Up to 50% savings potential

Don't leave your devices on stand-by

Some TVs, hi-fi systems, games consoles etc. are energy wasters when left in stand-by mode - even if they do not make a sound. You can save up to 50% energy if you switch off your devices completely e.g. using a switchable plugboard.



Up to 50% savings potential

LCD - instead of tube monitors

Replace your old tube monitor with a new LCD monitor. They use up to 50% less energy and are available to buy for less than 100 euros.



Up to 50% savings potential



LIGHTING

LEDs: efficient all-rounders

Replace light bulbs with so-called light-emitting diodes - LEDs for short - wherever you use electric lighting continuously for more than an hour a day. This allows you to save approx. 80% energy. The relevant EU Energy Efficiency Class on the product packaging shows you how energy efficient a light bulb is. LEDs achieve at least the Energy Efficiency Class "A+".



Up to 80% savings potential



SMALL APPLIANCES

Use toasters, kettles and co.

You don't need a cooker or oven for simple cooking tasks. Toasters, kettles and co. can do these tasks just as well and you save a lot of energy in the process. You can save up to 70% of energy if you crisp up your rolls in the toaster instead of the oven.

Pasta, vegetables or potatoes: Heat the water in the kettle before you put it on the cooker. This provides an energy saving of 40%.

Don't use energy-wasting cookers for small dishes with short cooking times, instead use the microwave. Around 600 watts of energy are sufficient to cook dishes gently - including freezer meals.



Up to 70% savings potential

FRIDGES AND FREEZERS

A new appliance uses less and delivers more

A new fridge purchase may save you a lot of cash. It is important that you check the Energy Efficiency Class when buying a new appliance. A model with an Energy Efficiency Class of "A+++" will save you approx. 25% energy compared to an "A++"-appliance and approx. 50% energy compared to an "A+" appliance.

Ensure that the appliance is the right size as space which is not used consumes unnecessary energy and costs money.

Make sure the temperature is set right

The right temperature in the fridge (six to eight degrees) and freezer (minus 18 degrees) is important. Three degrees less than necessary will mean a 10% higher energy consumption.

The cooler the ambient temperature the lower the energy consumption. Make sure that your freezer is not exposed to direct sunlight and that it is as far away as possible from cooker, dishwasher and heating.

Only put cool food in the fridge

Only put food into the fridge or freezer once it has cooled down. Lukewarm dishes emit their warmth directly inside the fridge. This leads to the fridge consuming approx 20% more energy. If you have the time, you can defrost food in the fridge. This takes a bit longer, but it means that the fridge can cool itself and requires less energy.

 **Up to 50% savings potential**



ACTION OLD AGAINST NEW:
Stadtwerke promotes replacement of your old fridge or freezer for a new energy-efficient model by giving you 50 Euro!

COOKING AND BAKING

The favourite dish of kitchen appliances: Electricity from the plug socket.

When cooking use glass pot lids to avoid unnecessary lifting of the lid. This saves up to 50% energy when cooking. Use fan assistance when baking and do not preheat the oven. In this way, the desired temperature is achieved quickly, the heat in the oven distributes more evenly.

 **Up to 50% savings potential**

DISHWASHER

Wash your dishes in the machine

Your dishwasher washes the dishes cost-efficiently and hygienically - with approx. one kWh of power and 10 litres of water for 140 dishes. When washing the dishes by hand, you need two kWh of power and 40 litres of water for the same quantity. When buying a dishwasher, check the Energy Efficiency Class, for best results use "A+++" appliances.

Only use the dishwasher when full, half loads require too much energy and water. This saves up to 20% in energy costs for the dishwasher.

 **Up to 75% water saving**

 **Up to 45% energy saving**



WASHING MACHINE AND DRYER

Use the washing machine and dryer correctly

Modern detergents have made the hot wash programme obsolete. Lowering the washing temperature from 95 to 60 degrees saves 40 % energy and if switching from 90 to 30 degrees it is even up to 80 %! It is important to always fill the drum to maximum capacity.

The same applies to the dryer, however, do not exceed the manufacturer recommendation for maximum loads. If possible, reduce the number of times you use the dryer, by e.g. line drying washing in the summer months.

Prewash and gentle wash cycles are not needed for clean clothing. They also need up to five times more water and energy.



Up to 80 % savings potential



WATER SAVING

Buy a water-saving shower head

Using a water-saving shower head reduces the amount of water used and also reduces energy to heat the water by about 50%. The same applies for flow regulators for your taps. This allows you to control the flow quantity and it easily saves up to 50 % of water.



Up to 50% savings potential
For water and energy



HEATING AND VENTILATION

Open windows for short periods

Best practice is to air rooms several times a day for 10 minutes by either opening all windows or selected windows. This is particularly important in winter as otherwise you may risk mould growth. Do not leave windows ajar for long periods.

The air exchange is insufficient and you only waste heat.

Heat correctly

Ensure the right room temperature in the different rooms. Once again: You save approx. 6% energy for every degree you go lower in room temperature. Lower the room temperature in your flat when you are away for longer periods. Close shutters and curtains at night. This measure particularly pays off in old buildings with older windows. Radiators should be accessible freely: Furniture, long curtains and covers will increase your heating requirements by up to 20%.



Up to 50% savings potential



REPLACING HEATING PUMPS

Replace your old heating pump

In a central heating system, a pump ensures that all radiators in a house are supplied with hot water. Many home owners are not aware that this pump can be the greatest energy waster:

An old, unregulated pump consumes energy amounting to 170 to 230 euros per year, whilst a high efficiency pump requires only 3 to 10 euros per year!

ADDITIONAL INFORMATION

Use the range of information available by other energy saving partners

- Bundesverband der Energie- und Klimaschutzagenturen
(Federal Association of Energy Agencies)
www.energieagenturen.de
- BDEW Bundesverband der Energie- und Wasserwirtschaft e.V.
(Federal Association of the German Energy and Water Industries)
www.bdew.de
- Caritasverband für Stuttgart – Aktion Stromcheck
(Caritas Association for Stuttgart – Energy Check Programme)
www.caritas-stuttgart.de
- Deutscher Mieterbund (German Tenant Association)
www.mieterbund.de
- Energieberatungszentrum Stuttgart e.V.
(Stuttgart Energy Advice Centre)
www.ebz-stuttgart.de
- Deutsche Energie-Agentur (German Energy Agency)
www.stromeffizienz.de
- HEA-Fachgemeinschaft für effiziente Energieanwendung e.V.
(HEA Federation for Efficient Energy Economics)
www.hea.de
- Landeshauptstadt Stuttgart - Amt für Umweltschutz
(State Capital Stuttgart - Environmental Protection Agency)
www.stuttgart.de/energie
- Ministerium für Umwelt, Klima und Energiewirtschaft Baden-Württemberg (Ministry of Environment, Spatial Planning and Energy Baden-Württemberg)
www.um.baden-wuerttemberg.de/de/energie/
- Öko-Institut e.V. (Eco Institute)
www.oeko.de/ecotopen
- Verband kommunaler Unternehmen e.V.
(Association of Municipal Companies)
www.vku.de
- Verbraucherzentrale Energieberatung
(Consumer Association Energy Advice)
www.verbraucherzentrale-energieberatung.de



IMPRINT

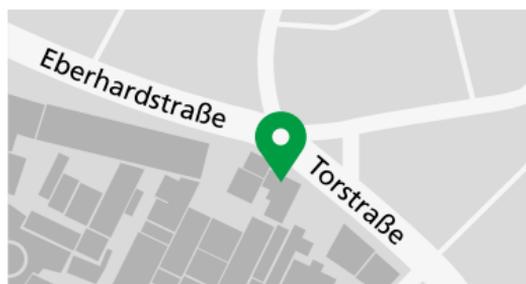
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