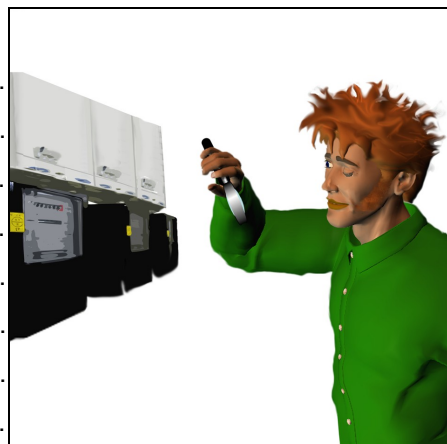


Checklist Electricity Consumption

School:.....
 Group (names of all pupils):.....

 Taker of the minutes:
 Tutor of the group (name, position):
 Dialogue partner (name, position):
 Date:



Find out how much electricity we use! Ask the caretaker or another suitable person to answer the questions with you. You should solve the arithmetic problems yourselves.

Answer the questions in sequence! Be considerate when walking through the school! If possible take pictures that are in line with your topic!

1 Daily electricity consumption

- a) Find out where there is the electricity of our school. Ask the caretaker which part(s) of the school building is/are covered by this meter and write down the following information:

Meter no. Location of the meter
 Meter covers the following part(s) of the building:

- b) If there are other meters (a separate meter for the gym for example), copy the checklist and do the tasks 1.a) and 1.c) for this/these meter(s) as well.
- c) Check the meter reading at the same times for a whole week early in the morning and after the end of school, calculate the electricity consumption (present count – last count) and enter these data into the measurement record. Keep in mind that there are cases where the count of the meter has to be multiplied by a certain conversion factor to get kWh!
 Discuss with your teacher at which times you should do the counts.

Time specifications	date	time	count	consumption
Monday morning
Monday midday
Tuesday morning
Tuesday midday
Wednesday morning
Wednesday midday
Thursday morning
Thursday midday
Friday morning
Friday midday
Monday morning

2 Yearly electricity consumption

- a) Evaluate together with your teacher or the caretaker the electricity bills of at least the last three years. If there is a group that works on electricity generation they should join in.

Take notes of the specific billing period (1) and the consumption (2) in the following table.

Enter the cost (3). If there are other meters, collect these data for each of them and add the values eventually.

Enquire the size of the surface that is used at this school (4). Then calculate the consumption per area (5). Enquire how many persons (pupils, teachers,...) there are at this school (6).

Determine the consumption per person (7).

Now take from the bill the amount of carbon dioxide set free during the generation of electricity; *in case* the bill doesn't indicate this calculate it yourselves: 1 kWh equals a nationwide average of 616g CO₂/kWh (8).

Meter no.

	last year	two years ago	three year ago
(1) period of time	.....	.....	.....
(2) consumption	.....kWh	.....kWh	.....kWh
(3) cost€€€
(4) area used	.....m ²	.....m ²	.....m ²
(5) consumption per area	.....kWh/m ²	.....kWh/m ²	..... kWh/m ²
(6) number of persons	.....	.....	.....
(7) consumption/person	.....kWh/pers	.....kWh/pers	..... kWh/pers
(8) CO ₂	.....kg	.....kg	.....kg

- b) Think about why CO₂ is set free during electricity generation and if all energy carriers used for electricity generation cause the same amount CO₂!

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3 Responsibility

Ask the caretaker who is responsible for the electrical installations and the electronic devices.

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Discuss what we could do better! Justify your suggestions!

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Think about how you would like to present your results to other pupils and teachers!

Elaborate a wanted poster for example, in which you issue a search warrant for the most important electricity guzzlers and ask your classmates, teachers and parents to disarm these together with you.

Design an „energy-saving book“, which you present to your headmaster or the caretaker so he can take notes of the kilowatt-hours that will be saved in the future. The energy-saving book should be clear and easy to handle and should contain some easy explanations about energy-saving as well as about how to work with it.

Or write a paper, in which you explain electricity consumption to your teacher and in which you try to get them to strongly support any energy-saving.

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Now get ready to present your results!

