

Climate action in schools

Making plans for tomorrow's schools



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Content

1. Hamburg Climate Action Policy
2. Energy saving project “fifty/fifty”
3. Project “Climate action at schools”

1. Framework

- Hamburg Climate Action Policy 2007-2012: The goal for 2020 is set to a reduction of total CO₂ emissions by 40% (versus baseline 1990).
- Policy comprises ten fields of action, reflecting all areas of climate action with more than 350 measures.
- To achieve fundamental change in awareness, it is essential for climate action to be communicated in appropriate ways at all phases of life, from pre-school education right through to higher education.

2. fifty/fifty

- Most successful energy-saving-project at schools in Germany
- Started in Hamburg in 1994
- Savings 1994-2008:

132.000 tons CO₂
~ 38 million Euros

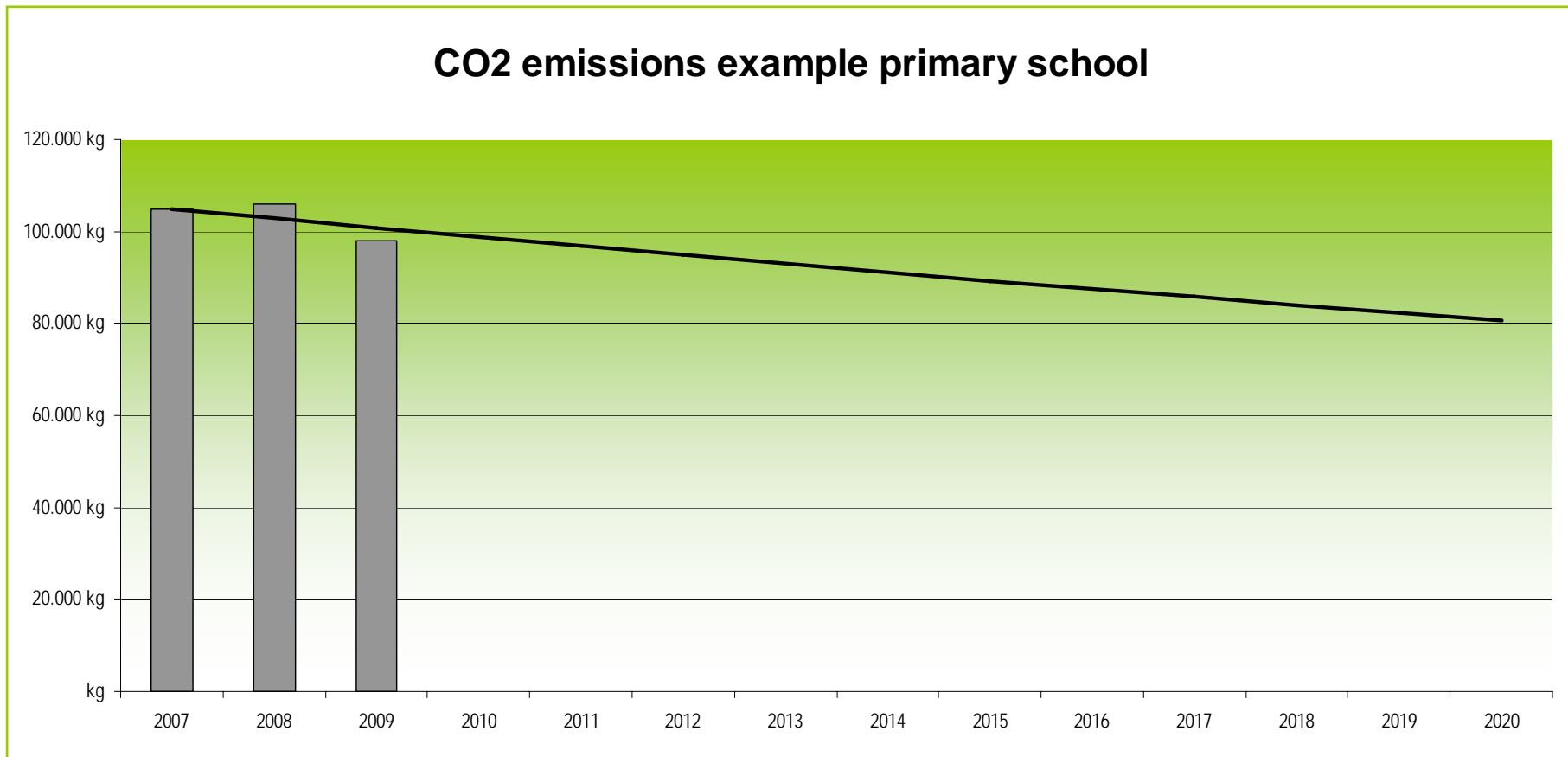
fifty/fifty: how does it work?

- Prudent behaviour can save a lot of money and CO₂
- The idea: schools get half of the amount of savings, which can be ascribed to a change of attitude – city and schools make “fifty-fifty”
- Schools have unrestricted use of this money, e.g. for excursions, projects or new energy saving investment

3. Project: Climate action at schools

- Hamburg Schools devise and implement their individual climate protection scheme.
- Project team offers a wide range of counselling and support.
- The project stipulates CO₂ reduction targets that follow those of the City of Hamburg in cutting their carbon emissions by 2 percent each year.

CO₂ reduction at schools: 2% each year until 2020



Elements of climate action schemes

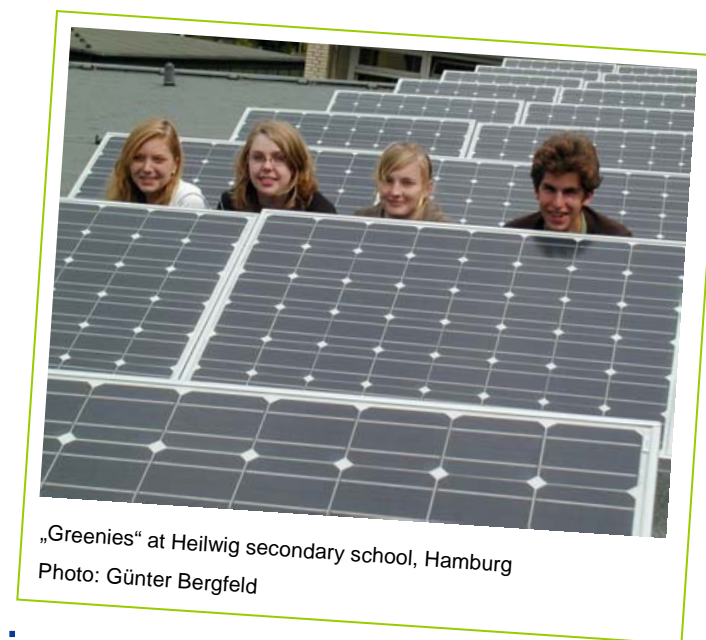
- Preamble
- Targets
- Measures
- Indicators
- Schedule
- Responsibilities

Example of a climate action scheme:

Heating action plan								
We aim to consume less heating energy and promote the use of regenerative energy in our school.								
Measures	Partial goals	Start	Indicators	Responsible person	Implementing actors	Targets: CO ₂ reduction and competencies		
						short-term until 31.12.2010	medium-term until 31.12.2012	long-term until 31.12.2019
			indicator for technical improvements: kWh/year			14.000 kg	24.000 kg	25.000 kg
Check night time temperature drop and reduce if necessary	save energy	immediately	see above	caretaker	caretaker and one parent	7.000 kg	14.000 kg	14.000 kg
Maintain thermostatic valve regularly and replace inefficient ones.	save energy	immediately	see above	caretaker	caretaker and pupils	5.000 kg	5.000 kg	5.000 kg
Heating Inspectors take care of regular and brief ventilation with closed thermostats.	save energy	with the school year 2010/11	see above	working group	2 pupils of each class	2.000 kg	5.000 kg	5.000 kg
			number of classes with Heating Inspectors			30 % of the classes have their own Heating Inspectors	80 % of the classes have their own Heating Inspectors	80 % of the classes have their own Heating Inspectors
Teachers become role models for their pupils.	raise school community's awareness	immediately	pupil and teacher survey	climate protection commissioner	pupils and teachers	30 % of the teachers are role models for the pupils	60 % of the teachers are role models for the pupils	80 % of the teachers are role models for the pupils
Organise a climate protection day focussing on heating.	raise school community's awareness	each year from October 2010	number of actively involved classes	climate protection commissioner	everybody	80 % of the school community are aware of climate-friendly heating	80 % of the school community are aware of climate-friendly heating	80 % of the school community are aware of climate-friendly heating
Prepare information sheet on how to handle heating energy and hand it out to pupils.	raise school community's awareness	November 2010	number of classes working with the hand-out	head teacher (10th grade)	10th graders		80 % of the school community are aware of climate-friendly heating	80 % of the school community are aware of climate-friendly heating
Build a solar thermal hot water system.	the solar thermal system heats water used in the shower rooms	2013	see above	physics teacher	special educational authority funds, pupils			1.000 Kg

Fields of activities at schools:

- Heating
- Electricity
- Procurement
- Mobility
- Food
- Waste
- Substitution: Renewable Energies



What we offer our schools:

- On-site counselling
- Energy check
- Teacher training on climate action and climate change
- Climate kits, measurement sets
- Teaching materials
- Courses for pupils in an energy and environment workshop
- Climate action contest for pupils
- Public relations

Our guiding slogan for schools:
Climate – we act!



Schools in action: teachers & staff

- Schools establish climate protection commissioners in schools
- Commissioners are trained on all relevant fields



Workshop situation with climate protection commissioners



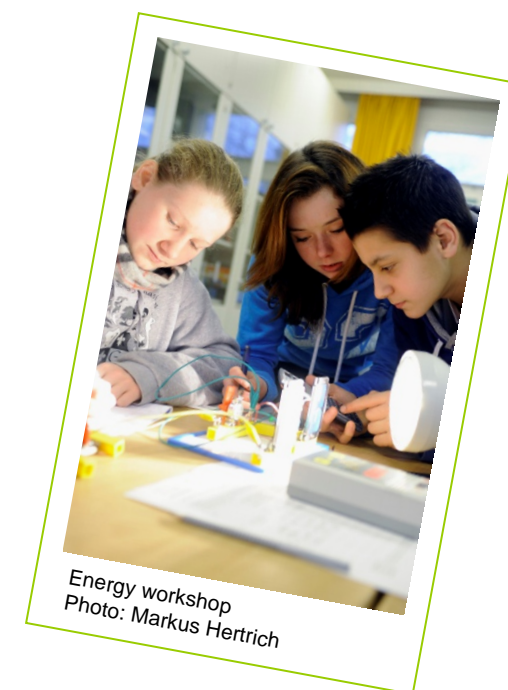
CO₂ „weight“ of food: climate relevance of imported instead of local food

Schools in action: high school pupils & teachers

- Courses for pupils:
 1. Solar energy: understanding new technologies
 2. Energy saving at school
 3. Climate protection and energy saving in daily life
- Series of lectures “Climate scientists in schools”



LI Hamburg



Schools in action: elementary school pupils

- Teaching units „Experience energy!“ and „Protect the climate!“



Quality seal „Climate School“

- Successful schools will be awarded Hamburg's "Climate School" seal of approval
- Schools can show their climate commitment to the public



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Thank you very much
for your attention!