

ECO-EFFICIENCY AS A TOOL FOR REDUCING THE CITY'S ECOLOGICAL FOOTPRINT

*Guttorm Grundt
City of Oslo*

Our ecological footprints

Global average	1.9 hectares
A North American:	12.3 hectares
A Norwegian:	6.14 hectares
An Oslo resident:	5.38 hectares
A Ghanaian:	1.1 hectares

Ecological footprint factors in Oslo

51% consumption of food

23% consumption of transport

14% consumption related to housing.

8% consumption of goods

4% local production

Fields of actions in Oslo`s Strategy for Sustainable Development:

- Sustainable urban development, pleasant urban spaces and properly functioning ecological cycles
- Environmentally efficient transport system and renewable sources of energy
- Conserving and strengthening of the City blue-green structure
- ***“Put its own house in order” through an environmentally efficient municipal administration***
- Cooperate with citizens and business sector in the pursuit of a better urban environment
- Contribute and cooperate towards a better environment regionally, nationally and globally.



$$\text{Eco-efficiency} = \frac{\text{Value creation (over time)}}{\text{Environmental impact (over time)}}$$

Green Municipality Program

- A. Introducing environmental management with environmental auditing and reporting as a part of the agencies` management culture”

- B. Environmentally certifying all municipal agencies and services



4 Good reasons for eco-certification

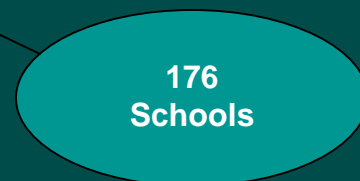
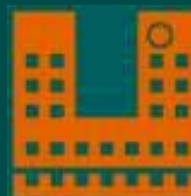
a) To protect the environment

b) To save money

c) To strengthen HES efforts

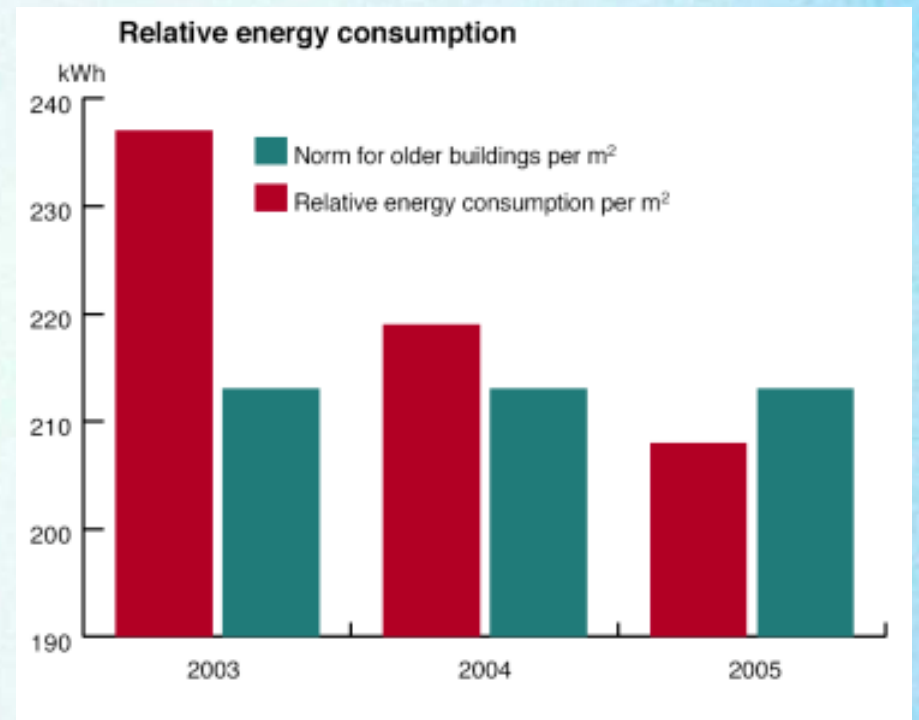
d) To improve access to environmental information





Green Living

Energy Savings in the City Hall



Estimated City annual savings per year:

Print and copy paper reduction 3 mill.

Waste reduction and sorting: 4 mill.

Energy saving 25 mill.

Total 32 mill.

N.Crowns (= 5 mill \$)

Green procura: Enviromentally adjusted cars



OSLO GREEN WAVE



GREEN STATE

GREEN MUNICIPALITY

GREEN CONSUMERS

GREEN BUSINESS

actions for green living

Make the Green Pledge and join Oslo's Green Wave

You too can contribute to making Oslo a more sustainable city

The Green Pledge is a list of environmentally friendly options making it easy for consumers to get started

Tick off the things you can start doing and join Norway's largest consumer movement Green Living



X Tick off and take part in the drive to make Oslo a more environmentally friendly city.

...waste

- Recycle glass, metal and clothes
- Start composting in the garden
- Bring environmentally dangerous waste to designated collection sites
- Deliver unwanted electrical goods to a dealer or recycling station
- Repair damaged clothes and equipment rather than buying new stuff
- Say no to direct mail advertising
- Avoid using disposable products
- Use second-hand shops and jumble sales



...out and about

- Bike or walk short distances
- Use Oslo's City Bikes
- Travel by public transport rather than by car
- Take the train instead of travelling by plane when possible
- Join Oslo's car sharing programme Bilkollektivet
- Save petrol by being easy on the accelerator
- Stop using studded tyres
- Organize and take part in car pools in your neighbourhood



...energy efficiency

- Turn off lights and heaters when not in use
- Install showerheads, which reduce water consumption
- Lower the temperature indoors 1 - 2 degrees
- Use energy efficient light bulbs in rooms not requiring heating
- Buy energy efficient electrical appliances
- Install exterior lighting with photographic cells
- Draught proof doors and windows
- Air out rooms often and in short bouts
- Avoid leaving electrical appliances on stand by

...food and shopping

- Choose products bearing environmental or ethical labelling
- Grow your own organic vegetables
- Give away experiences and services rather than things
- Use fresh ingredients rather than pre-fabricated food
- Buy food produced locally



Would you like to know more about how to implement these actions, or do you have other green consumer related questions? You can find hundreds of tips by visiting www.gronnhverdag.no or get in touch by calling the Green Line on 815 11 021.

Check your environmental profile!
On www.gronnhverdag.no you can take a look at yourself in the environmental mirror. Discover your household's rating as green consumers.

The Oslo Toll ring reduces car traffic into the city by 5-10 %



The toll ring finances the building of tunnels to channel car through traffic underneath the city (70%)



The Toll Ring also finances improvements in the public transport system (20%)



Klemetsrud waste incineration plant produces energy for the district heating system



Oslo Energy Efficiency Fund co-finances a big heat pump in the city sewer



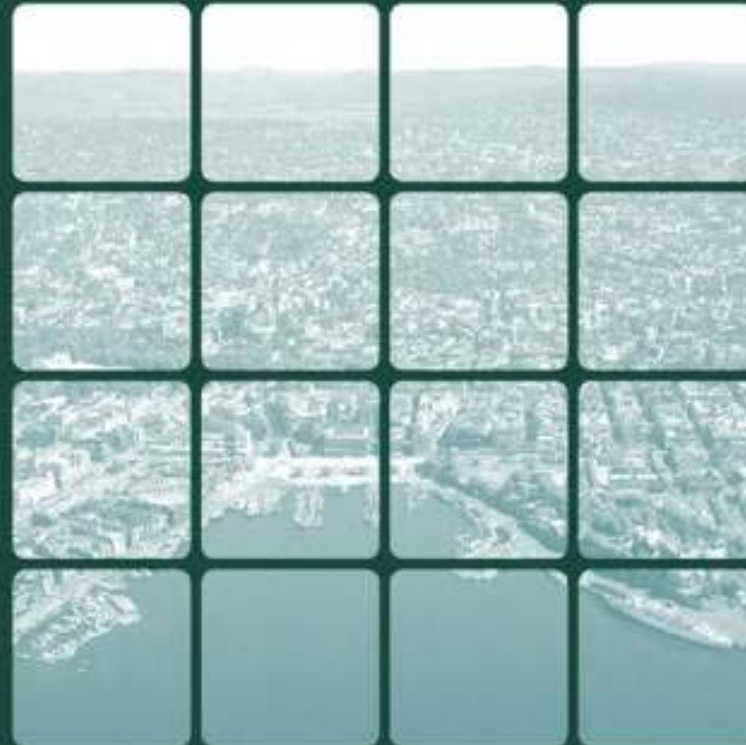
Northern Europe's most energy efficient office building?





City of Oslo
Department of Transport and Environmental Affairs

Guide 2005



A Green Capital:
**Eco-efficiency in
the City of Oslo**





<http://www.oslo.kommune.no>