

## CLIMATE PROGRAMME 2016-2020



*With small changes in daily life*  
**TO EFFECTIVE  
CLIMATE ACTIONS**

The City of Espoo wants to be a responsible pioneer in mitigating climate change. The city has prepared a climate programme that gives Espoo and its residents the chance to make sustainable choices for the benefit of our future. Through small choices in our daily lives, each one of us - even you - can make a difference.

# By cycling

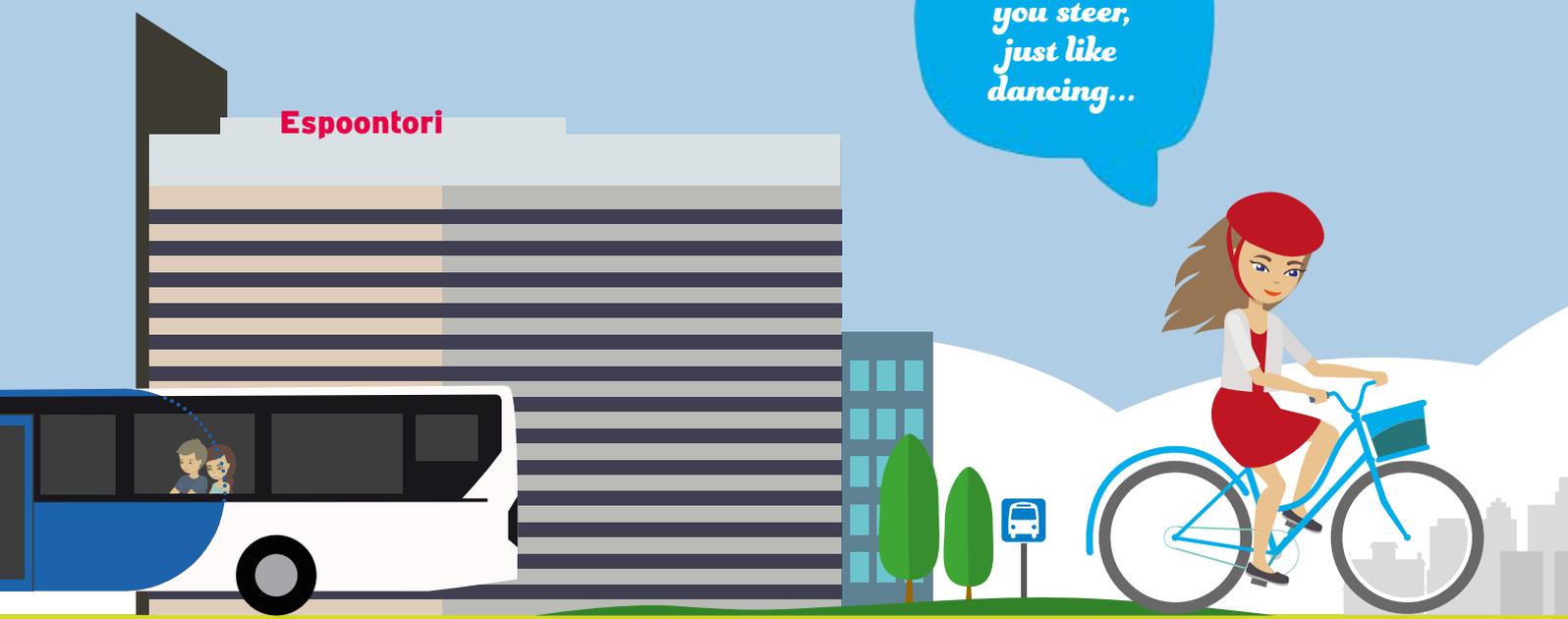
you will easily travel around town

In city centres, daily errands can often easily be taken care of without a car, since many local services are within walking or cycling distance. By travelling on foot or by bike, you can save the environment and keep fit at the same time.

You can safely whizz along on high-quality cycle paths, separate from other traffic. In parking places especially meant for bicycles, your bike can be safely stored, even for longer periods.



*I pedal,  
you steer,  
just like  
dancing...*



# If you can't get there by bicycle, hop on public transport!

Espoo is a pioneer in low-emission public transport solutions. The people of Espoo are already travelling in low-emission electric buses, and in the near future the number of electric buses will continue to increase.

By using public transport, you can quickly and cheaply get to almost anywhere. As the traffic network continues to develop, bus routes and the Western Metro will go hand-in-hand. The Metro links different parts of Espoo together and also guarantees a fast connection to Helsinki. The stations are easily accessible and there are plenty of parking spaces both for cars and bicycles.



## The development of cycling networks and public transport in Espoo



**2015**

Espoo has a total of 1,195 km of cycle paths



**2014-2015**

30 km of new cycle paths were built. In the future, more cycle paths are built, they are harmonized and more signposts are put up.



**2016**

Quickly-charged electric buses are introduced to traffic



**2017**

The Western Metro is completed. 4,100 parking spaces for bicycles are created to the stations. Currently there are 1,000 bicycle parking spaces at stations in Espoo.



**2017**

City bike trial begins



**2018**

City bikes are available throughout the metropolitan area of Espoo



**2021**

Raide-Jokeri, the first light rail line in the Helsinki region is completed. It connects with the Western Metro, the Coastal Railway and Ring Rail Line.

# Renovation and maintenance brings quality & savings to living

In Espoo, the renovation construction, additional construction and complementary construction of residential buildings are proceeding swiftly. The aim is to improve the quality of living and to reduce living costs and emissions in the long term.

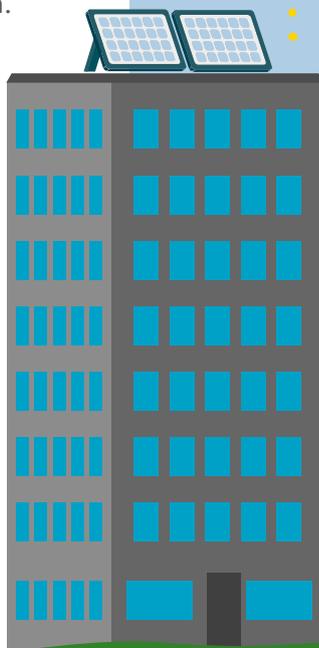
Methodical maintenance of apartment building has an impact on the value of the building and building's lifecycle costs and energy consumption.

A well-maintained and energy-efficient apartment building benefits all residents, so be active and draw attention to the issue.

Solar radiation can be converted into

**15%** electricity with solar panels

**All residents benefit from a well-managed and appropriately maintained apartment building**



# Climate-friendly

energy is available from many different sources



## Energy-efficient choices affect the value of homes

Energy-efficient choices can mitigate climate change and have a direct impact on the value of homes. Air heat and geothermal pumps are ecological and popular ways to heat houses, but they are also suitable for very different kinds of places.



## Solar energy as a source of electricity and heat

As a source of electricity and heat, it is easy to exploit solar energy, which can be combined with all the main forms of heating. Solar panels and geothermal wells are also good choices for apartment buildings.



## Environmentally-friendly energy

You can also favour environmentally-friendly energy by buying ecological electricity. Households can actually save money if they choose ecological electricity rather than mixed electricity.



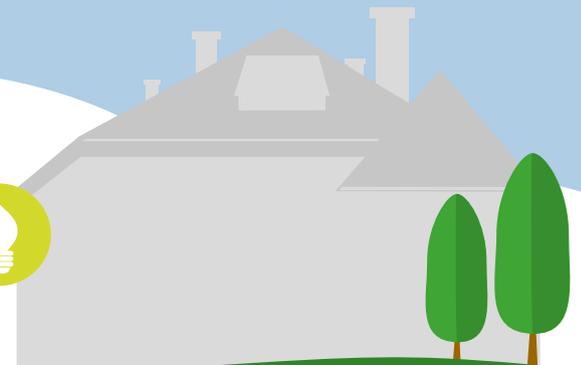
## The City of Espoo's energy-efficient solutions

Espoo is promoting the introduction of renewable energy sources, both in its own construction and design work and in the daily life of Espoo residents. In its own buildings, the city has implemented energy-efficient solutions, for example in several schools and at Nature House Villa Elfvik.



The Nature House is currently heated geothermally. The savings of one year operation cost is equivalent to

**3** electrically-heated detached house's heating cost for one year.





# Land-use planning

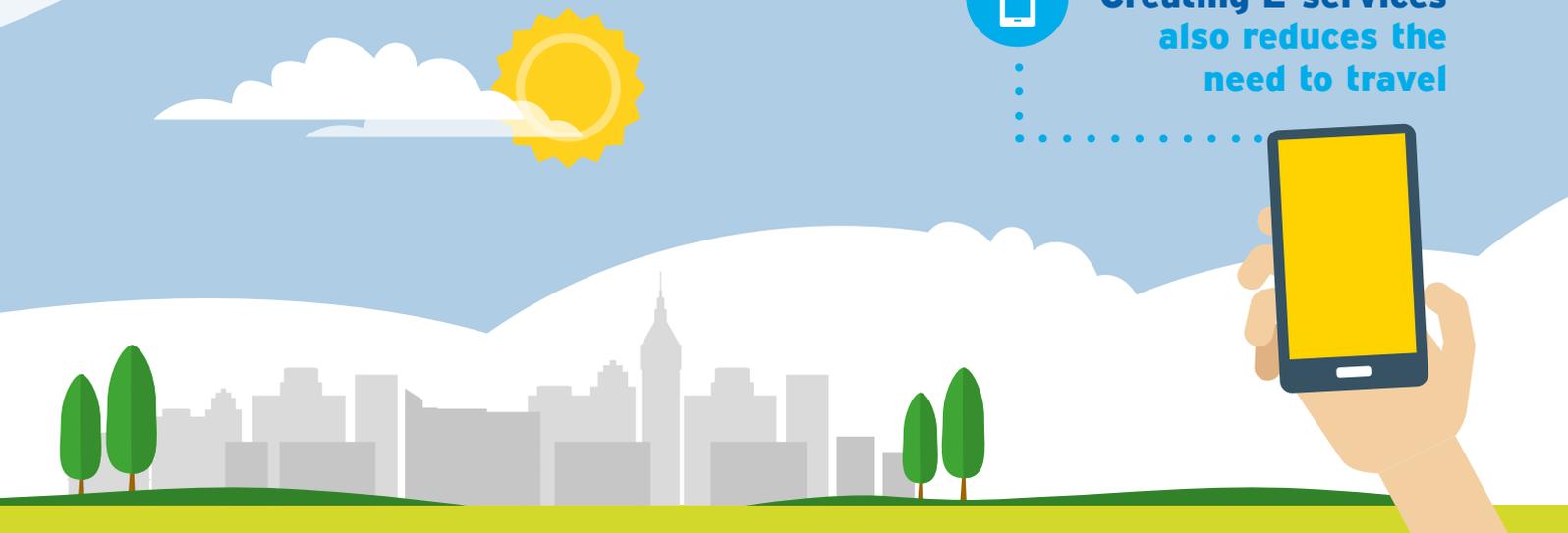
## guides climate-friendly construction

By developing urban planning, we can influence both the energy efficiency and emissions of different districts. The key issues are dense construction, prioritising ecological building materials and exploiting renewable energy. The aim is to ensure a good and pleasant living environment in which the principles of sustainable development are realised in all areas of life and living.

A considerable proportion of our common carbon footprint comprises everyday transport. Investing in the swift flow of non-motorised traffic and public transport reduces people's need to use their own car, both on the way to work and in other areas of everyday life.



**Creating E-services**  
also reduces the  
need to travel



# The City

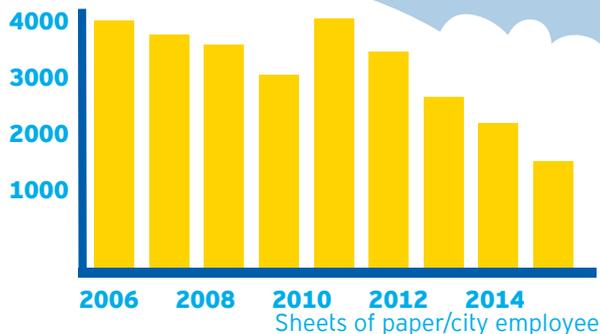
## is reducing the environmental impact of its own activities

The City of Espoo organisation acts as a pioneer in the mitigation of climate change. We are committed to reducing the environmental impact of our procurements and to promoting the introduction of clean solutions.

We are reducing the environmental impact of food by reducing food waste and by developing operating practices aimed at making use of surplus food.

The share of vegetables and seasonal and local produce in our meal services has been increased - in schools, for example, vegetarian days are held four times every five weeks.

Copy paper consumption has been reduced more than **50%** in 10 years



It is easy to make your own **eating habits** more ecological

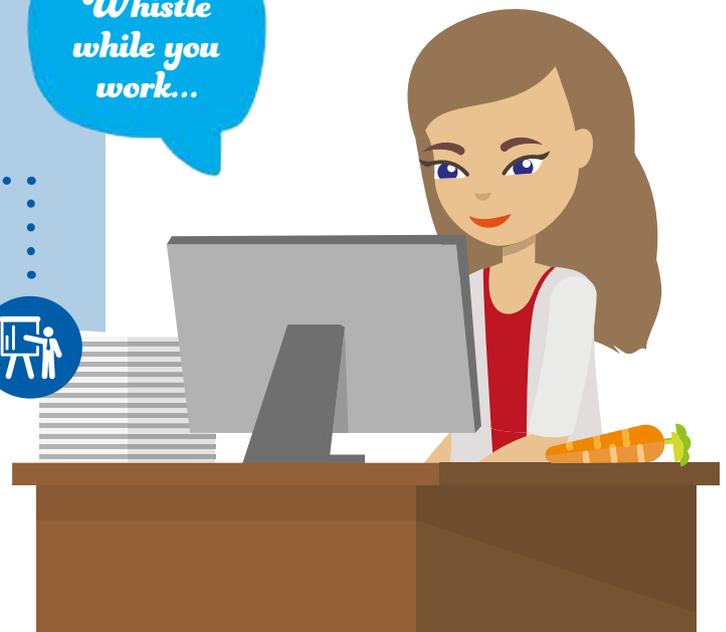
Eat more vegetarian food.

Use leftovers and carefully consider how much you buy groceries. Food is produced unnecessarily if it ends up in the waste bin.

Favor locally produced food and seasonal ingredients.



*Whistle while you work...*



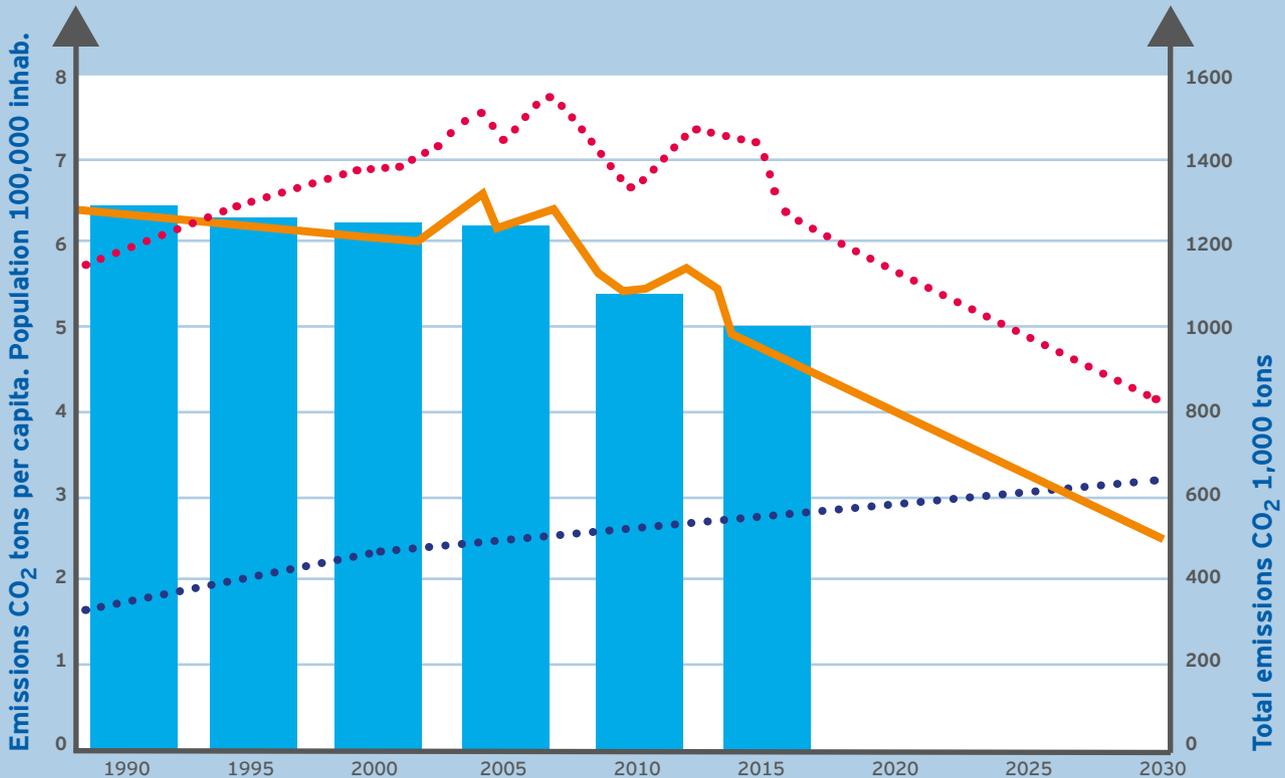
# Greenhouse gas emissions

per capita in Espoo and their reduction by 2030

60%



In order to mitigate climate change, Espoo has prepared a climate programme, which aims to make Espoo a carbon-neutral city by the year 2050. Prior to that, the city wants to reduce its emissions per capita by 60% by 2030, compared to 1990.



On the left, Espoo's greenhouse gas emissions per capita (CO<sub>2</sub> per capita) and their reduction by 60% by 2030 (year of comparison 1990), and the number of inhabitants (100,000) and population forecast for 2030.

On the right, an estimate of the total volume of emissions (1,000 tons), if the emissions per capita fall by 60% by 2030.

Read more at [www.espoo.fi/climate](http://www.espoo.fi/climate)

- Total emissions 1,000 tons
- Reduction per capita 60%
- Population 100,000 inhab
- █ Greenhouse gas emissions per capita in Espoo