



## Julia 2030 - Mitigation of and Adaptation to the Climate Change in the Helsinki Metropolitan Area - From Strategy to Implementation

LIFE07 ENV/FIN/000145



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### Contact details:

Project Manager: Susanna KANKAANPÄÄ  
Tel: +358 915611  
Fax: +358 915612011  
Email: [susanna.kankaanpaa@hsy.fi](mailto:susanna.kankaanpaa@hsy.fi)

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### Project description:

#### Background

Directly and indirectly, through their activities and the services they provide, municipal authorities produce significant greenhouse gas emissions. In principle, municipalities can change their working practices and methods of delivering services to reduce emissions, and can provide good practice advice based on these experiences. Although people and organisations in general are aware of climate change and its consequences as well as of the required changes in their behaviour in order to mitigate and adapt to it, CO<sub>2</sub> emissions are not decreasing rapidly enough.

#### Objectives

The 'Julia 2030' project was set up to implement and demonstrate new methods, procedures and tools, and to develop existing methods, procedures and tools as part of a climate strategy to reduce greenhouse gas emissions in the Helsinki metropolitan area. The project actions would concentrate on public procurement, use of public premises, transport and waste management.

The project would develop information on predictions of the regional effects of climate change. It was anticipated that such information would be used in the planning and development of municipal buildings and infrastructure. The project would result in the development of a regional strategy for adaptation to

climate change in the Helsinki metropolitan area.

A main aim of the project was to demonstrate and verify the positive impact that CO2 calculators – developed for city residents and municipal administration personnel – play in mitigating climate change in a municipal area.

Expected results of the project included:

- 5% decrease in CO2 emissions for public procurement (compared with previous similar purchases).
- 8% decrease in CO2 emissions from electricity consumption on public premises.
- 28% decrease in CO2 emissions from transport in 2030.

Project activities would include raising awareness of different stakeholders of the need to mitigate and adapt to climate change in the Helsinki metropolitan area.

## Results

The ‘Julia 2030’ project developed and demonstrated opportunities to reduce CO2 emissions. It carried out extensive campaigns to promote awareness of CO2 emissions and ways to reduce them by making informed choices.

The project initially promoted environmental responsibility in a wide range of workplaces through the creation of ‘eco-supporters’. Eco-support activities begin by appointing and training one or more eco-supporters. The state of environmental affairs at the workplace is then reviewed to determine any improvements that could be made. Finally, the eco supporters guide and inspire their colleagues in implementing new ecological practices. Based on experiences gained in Helsinki, a common framework programme was created for training new eco-supporters (a further 200 was the target) with a strong emphasis on climate issues and with the aim of spreading this approach to other municipalities in the Helsinki Region. This target was greatly exceeded, with a total of 640 new eco-supporters trained in Espoo, Vantaa, Kauniainen, Kirkkonummi and Kerava during the project.

The ‘Julia 2030’ project developed and tested CO2 calculators for several sectors, including public premises. It tested a calculator for monitoring the greenhouse gas emissions of 32 selected pilot premises in Helsinki, Espoo, Vantaa, Kauniainen, Kerava and Kirkkonummi. These sites comprised schools, day care centres, libraries, public swimming pools, community centres, offices, depots and a health centre. The aim was to cut the emissions generated in using the pilot premises by 10% between 2009 and 2011. Most of the GHG emissions of the pilot premises came from heating and consumption of electricity. The emissions from work-related travelling by staff, paper consumption and waste were also calculated. The combined GHG emissions of the pilot sites fell by 8% between 2009 and 2011.

In the area of green public procurement, general guidelines were drawn up for municipalities on how to take into consideration GHG emissions and other environmental aspects. These guidelines include a comprehensive study of public procurement regulations and practical instructions on how to arrange competitive tendering for various purchases of goods and services. A specific

JUHILAS tool for calculating the carbon footprint of a product was developed for five product groups. These tools are used in competitive tendering for calculating the GHG emissions of a product over its entire lifecycle. The resulting emissions figure is used as a criterion for comparing tenders submitted in competitive tendering. The calculators are the first of their kind, and are based on a lifecycle format complying with ISO standards.

The project also specified lifecycle-based GHG emission factors for 15 types of waste identified in the Helsinki Metropolitan Area waste management system. The calculation of GHG emissions arising from waste management were incorporated into the Petra waste benchmarking service used by businesses and public administration, and into the accounting system used for monitoring waste flows in the Helsinki Metropolitan Area. A new Konsta waste calculator was developed for use by households, enabling them to assess their own waste volumes and the resulting GHG emissions. A new model called Emmi was developed for forecasting municipal waste volumes. This enables waste management professionals to predict trends in municipal waste volumes and to assess the factors that affect the amount of waste generated.

In the transport sector, the project provided CO2 calculators to help residents choose the best modes of personal mobility from the point of view of climate change mitigation. The Journey Planner CO2 calculator is very user-friendly, as CO2 emissions are displayed automatically when searching for the optimal transport route. A chocolate calculator was incorporated into the walking and cycling section of the Journey Planner. This shows how much energy an average person would use to make the selected journey in terms of calories or pieces of chocolate. The Jälki carbon calculator for weekday transport paints a broader picture of climate emissions, and also provides tips on more climate friendly ways of getting around, encouraging users to prefer walking, cycling, public transport and car pooling.

Within the 'Julia 2030' project, a regional climate change adaptation strategy was developed. This strategy aims at preparing the region for the consequences of and to reduce the region's vulnerability to climate change. Translating efforts to reduce CO2 emissions into clear policy initiatives will require a long time. Nevertheless, cost savings can be achieved in the running of public buildings, the procurement of goods, the selection of transport modes and the handling of waste.

Further information on the project can be found in the project's layman report and After-LIFE Communication Plan (see "Read more" section).

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Environmental issues addressed:

Themes

Services & Commerce - Public administration

Climate change Mitigation - GHG reduction in non EU ETS sectors

Climate change Adaptation - Resilient communities

## Keywords

public awareness campaign, urban area, emission reduction, monitoring system, environmental training, climate protection, greenhouse gas, local authority, climate adaptation strategy, climate mitigation strategy

Natura 2000 sites

Not applicable

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## Beneficiaries:

Coordinator	HSY Helsinki Region Environmental Services Authority
Type of organisation	Local authority
Description	The beneficiary is a metropolitan authority responsible for water and waste management and regional information provision in the Helsinki region.
Partners	City of Helsinki, Finland City of Espoo, Finland City of Vantaa, Finland City of Kauniainen, Finland Municipality of Kirkkonummi, Finland City of Kerava, Finland Finnish Environment Institute (SYKE), Finland

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## Administrative data:

Project reference	LIFE07 ENV/FIN/000145
Duration	01-JAN-2009 to 31-DEC -2012
Total budget	2,146,230.00 €
EU contribution	1,073,115.00 €
Project location	Uusimaa(Finland Suomi)

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Read more:

Brochure	Title: The description of the Konsta Waste Calculator for households No of pages: 7
Brochure	Title: Journey planner No of pages: 3
Brochure	Title: Tartu tositoimiin! Ilmastomuutos Helsingin seudulla – hillintä ja sopeutuminen No of pages: 8
Brochure	Title: Weekday travel CO2 calculator No of pages: 4
Brochure	Title: THE DESCRIPTION OF THE MARTTI MATERIAL FLOW ACCOUNTING SYSTEM No of pages: 8
Brochure	Title: The description of the Petra Waste Benchmarking No of pages: 6
Brochure	Title: "Gör nåt' på riktigt! Klimatförändring i Helsingforsregionen – begränsning och anpassning" (935 KB) No of pages: 8
Brochure	Title: "Let's do some real work ! Climate change in the Helsinki region - mitigation and adaptation" (934 KB) No of pages: 8
Brochure	Title: The description of the Climate Calculator Author: Julia 2030 Project No of pages: 6
Project web site	<a href="#">Project's website</a>
Publication: After-LIFE Communication Plan	Title: After-LIFE Communication Plan Year: 2012 Editor: Edita Prima Oy, Helsinki No of pages: 12
Publication: After-LIFE Communication Plan	Title: Viestintä hankkeen jälkeen No of pages: 12
Publication: Book	Title: "Helsinki Metropolitan Area Climate Change : Adaptation Strategy" (1.17 MB) Year: 2012 Editor: Helsingin seudun ympäristöpalvelut -kuntayhtymä No of pages: 32
Publication: Case study	Title: Tulvariskit – kaavoitusta ja rakentamista koskeva lainsäädäntö (Flood risks - planning and building legislation) Author: Ekroos, Ari ja Hurmeranta, Ulla Year: 2011 Editor: Ekroos, Ari ja Hurmeranta, Ulla No of pages: 36
Publication: Layman report	Title: Layman report Year: 2012 Editor: Edita Prima Oy, Helsinki No of pages: 24
Publication: Layman report	Title: Katsaus hankkeen tuloksiin Year: 2012 Editor: Edita Prima Oy, Helsinki No of pages: 24
Publication: Management plan	Title: PÄÄKAUPUNKISEUDUN ILMASTO MUUTTUU - Sopeutumisstrategian taustaselvityksi (METROPOLITAN AREA CLIMATE CHANGE - the adaptation strategy) Author: Helsingin seudun ympäristöpalvelut Year: 2010 Editor: Helsingin seudun ympäristöpalvelut -kuntayhtymä No of pages: 91

Publication: Research findings Title: JULIAN KAUPUNKI 2035 - Helsingin seudun yhdyskuntarakenteen kehittämisen ilmastovaikutukset Author: Helsingin seudun ympäristöpalvelut Year: 2012 Editor: Helsingin seudun ympäristöpalvelut -kuntayhtymä No of pages: 60

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