



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment

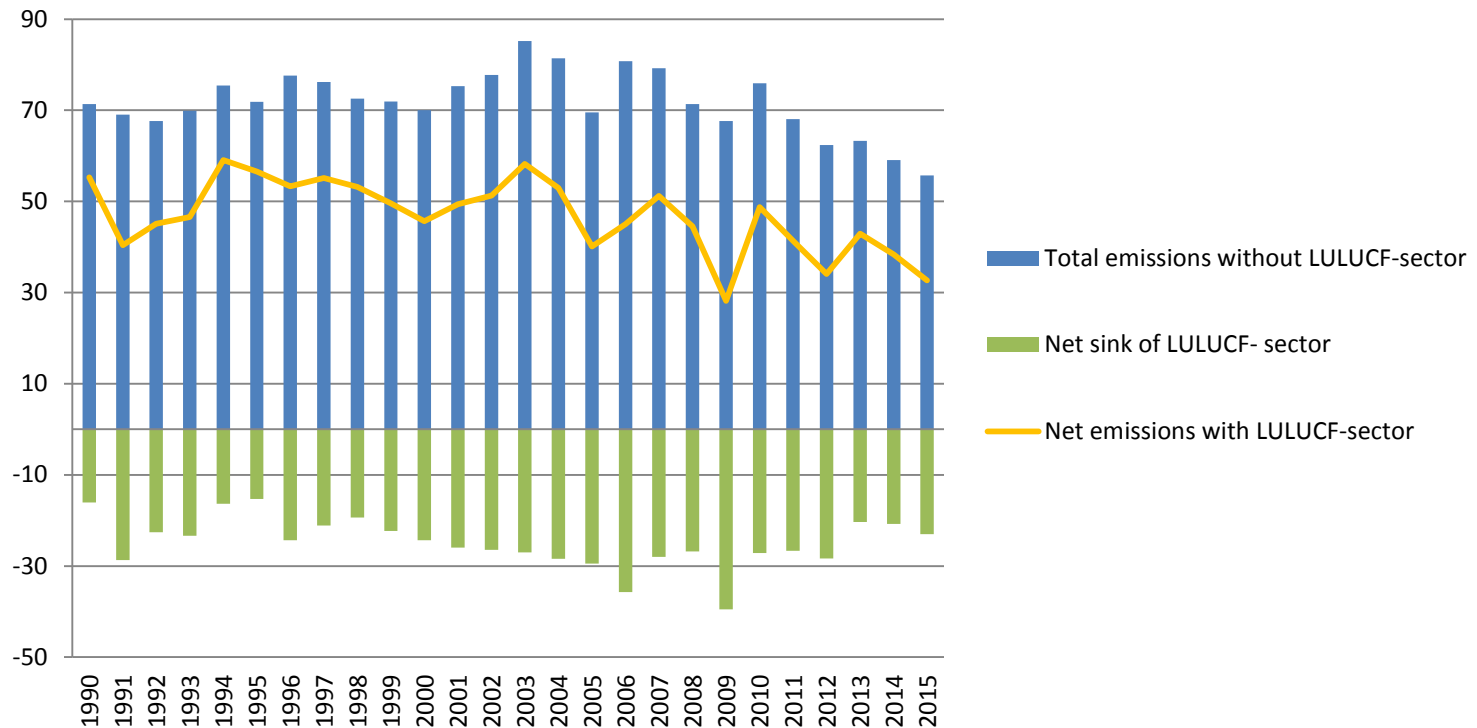
Multilateral Assessment Finland

United Nations Climate Change Conference
Marrakech, Morocco
12.11.2016

Outi Honkatukia
Chief Negotiator for Climate Change
Ministry of the Environment

Finland's greenhouse gas emissions and removals 1990-2015*

Emissions and removals, mill. t CO₂-eq

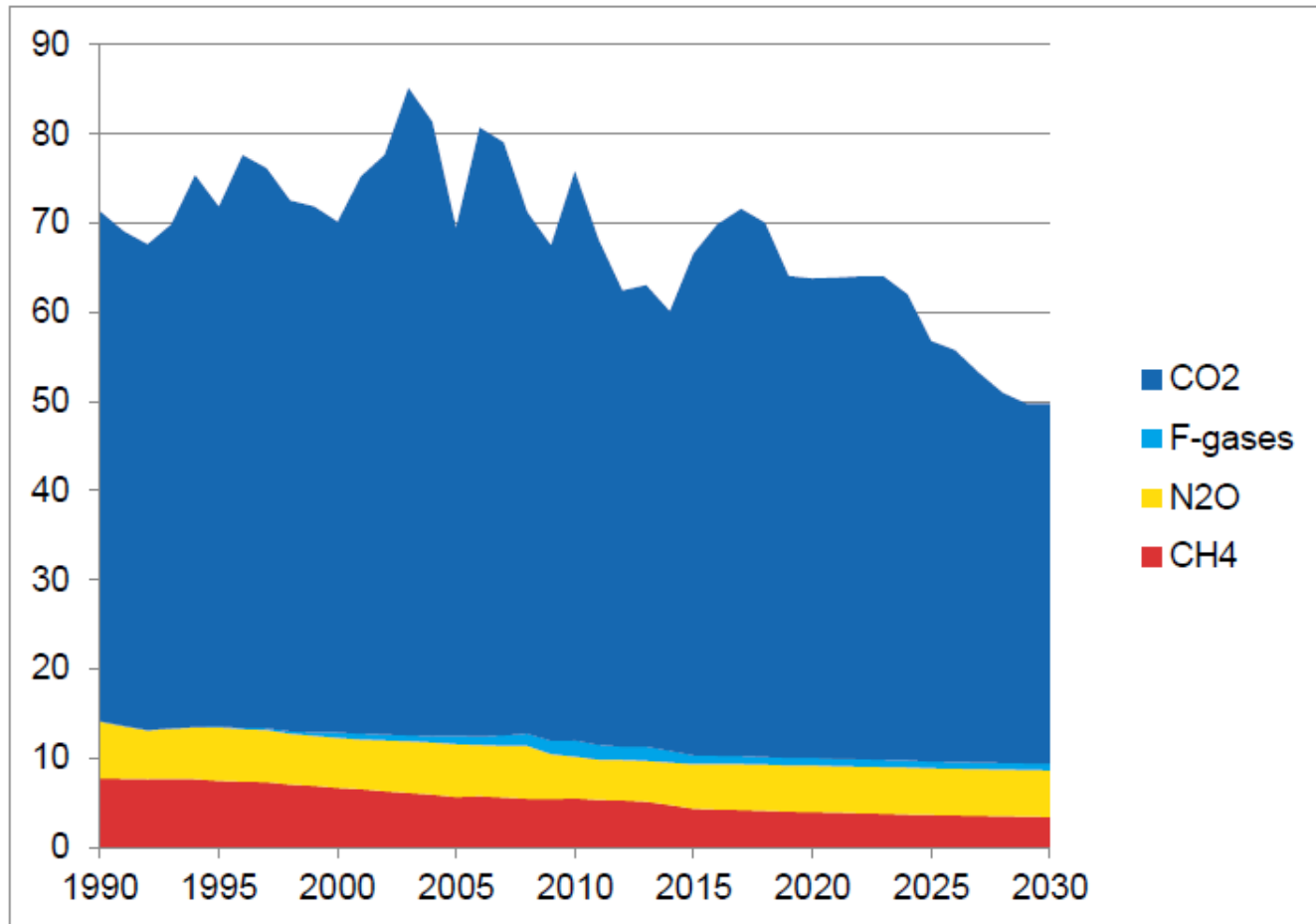


*Year 2015 Preliminary data.

Source: Statistics Finland

Finland's GHG inventory: http://tilastokeskus.fi/tup/khkinv/index_en.html

“With Measures” projection



Greenhouse gas emissions by gas according to the latest greenhouse gas emission inventory (1990-2013) and the WM projection (up to 2030).

Source: 2nd Biennial Report

Kyoto Protocol's first commitment period 2008-2012

- EU and Member States joint commitment was to reduce emissions 8% in 2008-2012
- Finland's commitment to limit national annual average emissions to 1990 level (Assigned Amount 355 mill. t CO₂)
- Finland overachieved its target in the 1st CP by approx. 5%



Kyoto Protocol's second commitment period 2013-2020

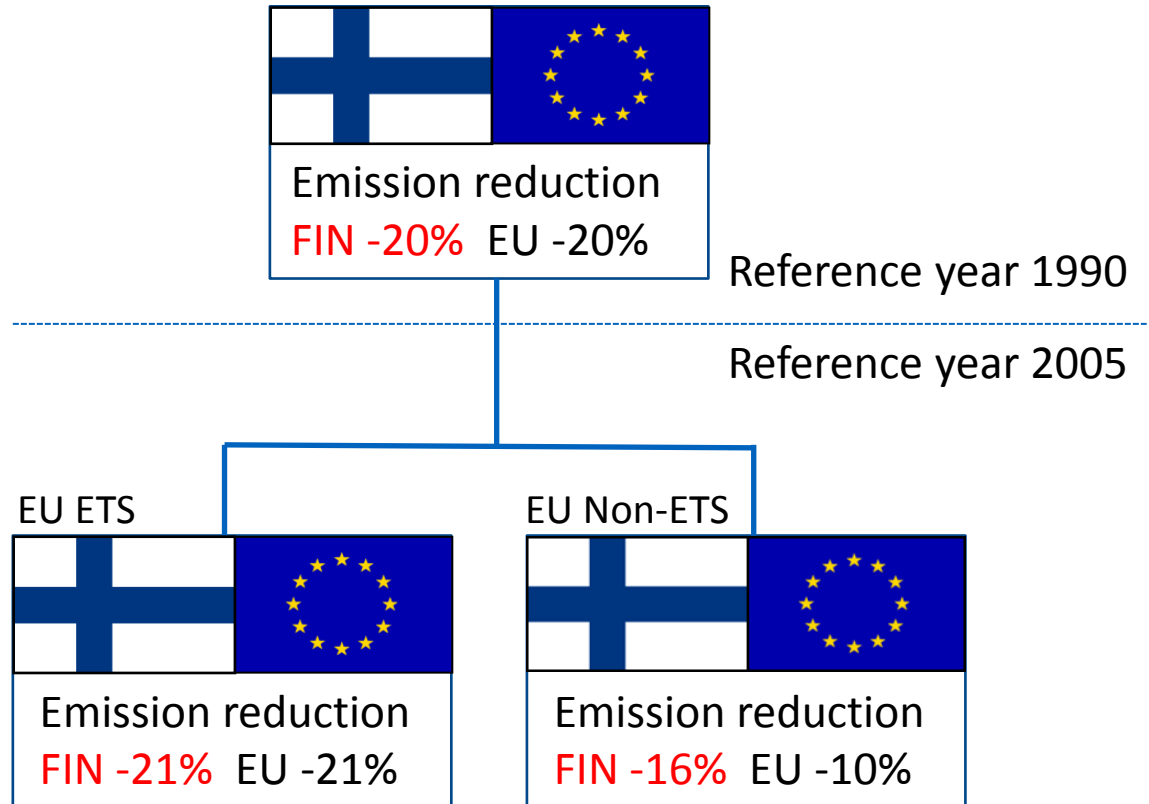
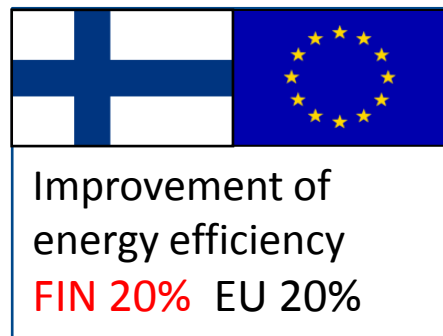
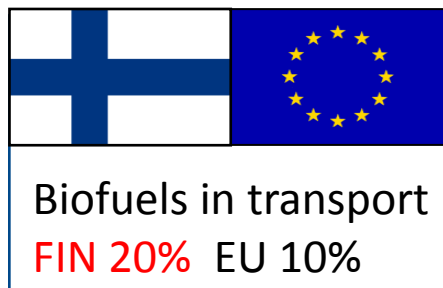
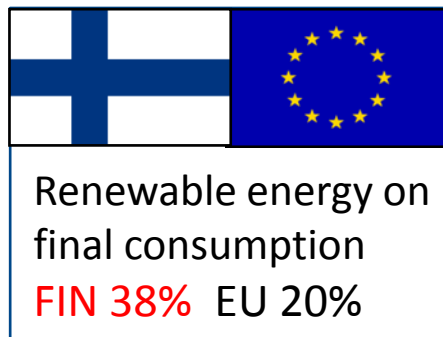
- EU, Member States and Iceland joint commitment is to reduce emissions 20% in 2013-2020
- Finland accepted Kyoto Protocol's 2nd CP 26.6.2015



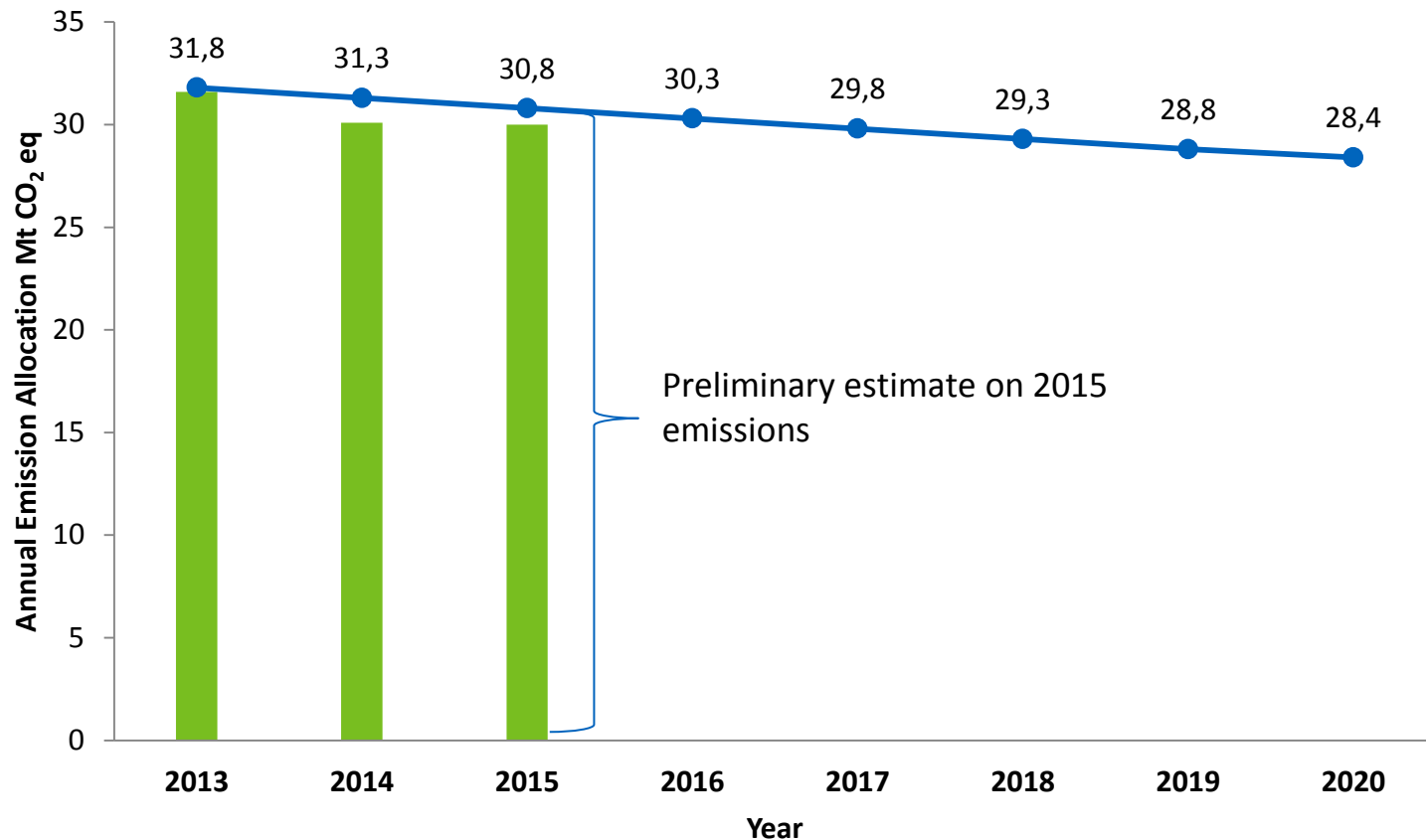
Finland's target under EU 2020 climate and energy package

	Finland	EU
Emission reduction (reference year 1990)	EU level target	-20%
EU ETS (reference year 2005)	EU level target	-21%
Non-ETS emissions (reference year 2005)	-16%	-10%
Renewable energy on final consumption	38% (Achieved in 2014)	20%
Biofuels in transport	20%	10%
Improvement of energy efficiency	20%	20%

Finland's target under EU 2020 climate and energy package



Finland's Annual Emission Allocations Under Effort Sharing Decision (ESD)



➤ EU 2020 climate and energy package

Examples of key policies and measures

Sectors affected	List of Key Policies and Measures
Agriculture	The Climate Programme for Finnish Agriculture
Buildings	Implementation of the Directive on the Energy Performance of Buildings (2010/31/EU), Energy-Smart Built Environment 2017 (ERA17), Programme Strategy for Repair and Renovation for Buildings 2007-2017
Energy efficiency	Co-generation of heat and electricity, voluntary energy efficiency agreements, Energy Audit Programme, implementation of the Directives on Eco-design (2009/125/EU) and Energy Labelling (2010/30/EU)
Forestry	National Forest Strategy 2025
Industrial sectors	Implementation of European Union F-gas regulation (842/2006/EC)
Renewable energy	Promotion of biomass (wood chips), promotion of wind power, promotion of the use of transport biofuels, promotion of the utilization of heat pumps
Transport	Promotion of the alternative propulsion systems, renewing the vehicle fleet, improving the energy efficiency in transport, directing the growth of passenger traffic volumes in urban areas to more environmentally friendly transport modes
Waste management	Implementation of the Directive on the Landfill of Waste (1999/31/EC) and national legislation and strategies

Examples of key policies and measures (1/2)

Sectors affected	List of key policies and measures
Agriculture	<p>The Climate Programme for Finnish Agriculture</p> <ul style="list-style-type: none"> ➤ Aims to further enhance the sustainability of the Finnish food system, improve the energy and material efficiency and reduce emissions per litre or kilo of production ➤ Presents a total of 76 measures to facilitate the adaptation of food production and consumption to climate change and/or to mitigate the change
Buildings	<p>Implementation of the Directive on the Energy Performance of Buildings (2010/31/EU)</p> <p>Energy-Smart Built Environment 2017 (ERA17)</p> <ul style="list-style-type: none"> ➤ Proposes 31 necessary actions for reducing emissions in the built environment, for improving energy efficiency and for promoting the use of renewable energy <p>Programme Strategy for Repair and Renovation for Buildings 2007-2017</p> <ul style="list-style-type: none"> ➤ The implementation plan consists of thirteen measures for action, including developing a maintenance culture, making improvements in energy efficiency, improving know-how and disseminating knowledge
Energy efficiency	<p>Co-generation of heat and electricity</p> <p>Voluntary energy efficiency agreements</p> <p>Energy Audit Programme</p> <ul style="list-style-type: none"> ➤ Promotion of audit activities, development and monitoring, the training and qualification of energy auditors, and the quality assurance of credits <p>Implementation of the Directives on Eco-design (2009/125/EU) and Energy Labelling (2010/30/EU)</p>
Forestry	<p>National Forest Strategy 2025</p> <ul style="list-style-type: none"> ➤ Active and sustainable forest management; "Sustainable forest management is a source of growing welfare" ➤ The strategy is implemented by a total of eleven strategic projects, including the development of electronic information and customer services for private forest owners, creating new incentive schemes for promoting entry of timber to the market and improvement of nature management in commercial forests
Industrial sectors	<p>Implementation of the European Union F-gas regulation (517/2014/EC)</p>

Examples of key policies and measures (2/2)

Sectors affected	List of key policies and measures
Renewable energy	<p>Promotion of biomass (wood chips)</p> <ul style="list-style-type: none"> ➤ Harvesting subsidies and operating aid for forest chip power plants ➤ Feed-in tariff <p>Promotion of wind power</p> <ul style="list-style-type: none"> ➤ Feed-in tariff ➤ Investment subsidies ➤ Land-use planning <p>Promotion of the use of transport biofuels</p> <ul style="list-style-type: none"> ➤ The national act on promotion of the use of biofuels for transport implementing the EU biofuels directive has been in force since 2008 <p>Promotion of the utilization of heat pumps</p>
Transport	<p>Promotion of the alternative propulsion systems</p> <p>Renewing the vehicle fleet</p> <ul style="list-style-type: none"> ➤ Car taxation based on vehicle-specific emissions (g CO₂/km) ➤ Providing information to consumers about the CO₂ emissions of passenger cars, including the energy label for cars, the Choosing Car website and the online car comparison engine produced by the transport administration <p>Improving the energy efficiency in transport</p> <ul style="list-style-type: none"> ➤ Energy efficiency agreements ➤ Eco-driving <p>Directing the growth of passenger traffic volumes in urban areas to more environmentally friendly transport modes</p> <ul style="list-style-type: none"> ➤ Transport and land use planning ➤ Financial support for public transport in urban areas and Mobility Management ➤ Additional/supplementary economic steering measures, such as fuel taxes and/or road users charges
Waste management	<p>Implementation of the Directive on the Landfill of Waste (1999/31/EC) and national legislation and strategies</p> <ul style="list-style-type: none"> ➤ A new national waste plan is expected to be ready by the end of 2016

Key policies, strategies and instruments (1/2)


- Government's National Energy and Climate Strategy ensures that national energy and climate targets for 2030 are achieved
 - The strategy will be prepared by the end of 2016
- Finland's medium-term climate change policy plan is being prepared



Key policies, strategies and instruments (2/2)

- Finland's new [Climate Change Act](#) entered into force on the 1st of June 2015
 - At least 80% reduction of greenhouse gas emissions by 2050 from 1990
- [A Roadmap on Climate and Energy policy until 2050](#), prepared by the Parliamentary Committee on Energy and Climate Issues





Thank you

More information

- [Finland's Second Biennial Report](#)
- [Finland's 6th National Communication](#)
- [EU Climate and Energy Package](#)

- More information on key assumptions and conditions related to the EU target can be found from the [EU Second Biennial Report](#)