

**Government report on the
National Energy and Climate
Strategy for 2030**

Nordic Energy Commissions –compared
28.8.2017 Copenhagen, Denmark
Bettina Lemström



Ministry of Economic Affairs
and Employment of Finland

Energy and climate targets (1/2)



Long-term objective to be a carbon-neutral society

- 80 - 95 % reduction of greenhouse gas emissions from 1990 level by 2050

EU 2020 targets for Finland

- **renewable energy** at least 38 % of final consumption
- **emissions** in non-emission trading sector to be reduced by 16 % from 2005 level
- indicative **energy efficiency** target, final consumption not more than 310 TWh

EU 2030 targets for Finland (Commission's proposal)

- **emissions** in non-emission trading sector to be reduced by 39 % from 2005 level

Energy and climate targets (2/2)



Government Programme of Prime Minister Juha Sipilä

By 2030:

- **renewable energy** to be increased to more than **50 per cent**
- **self-sufficiency** in energy to be increased to more than **55 per cent**
- use of **fossil oil** for the domestic needs will be **cut by half**
- **coal no longer to be used** in energy production
- share of **renewable transport fuels** increased to **40 per cent**

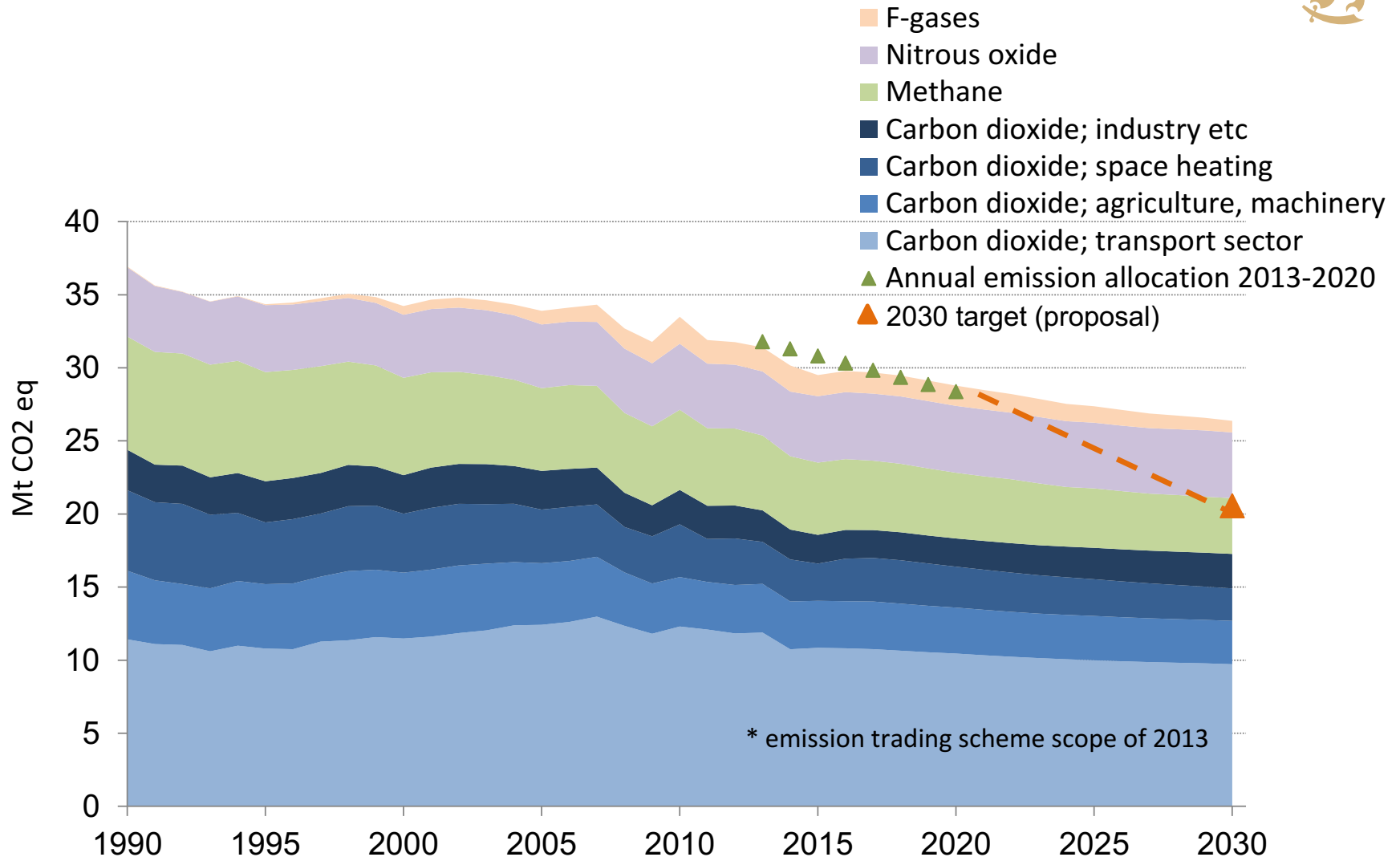
Energy and Climate Plans



- **Energy and Climate Roadmap 2050** (2014)
- **National Energy and Climate Strategy for 2030** (2016)
- **Medium-term Climate Change Policy Plan**
(to be published in 2017)
- **Parliamentary working group** appointed to assess the future of
the transport network
(mid-term report Q3/2017, final report Feb 2018)

Non-ETS sector* greenhouse gas emissions

Reference scenario



Examples of measures (1/2)



Transport sector

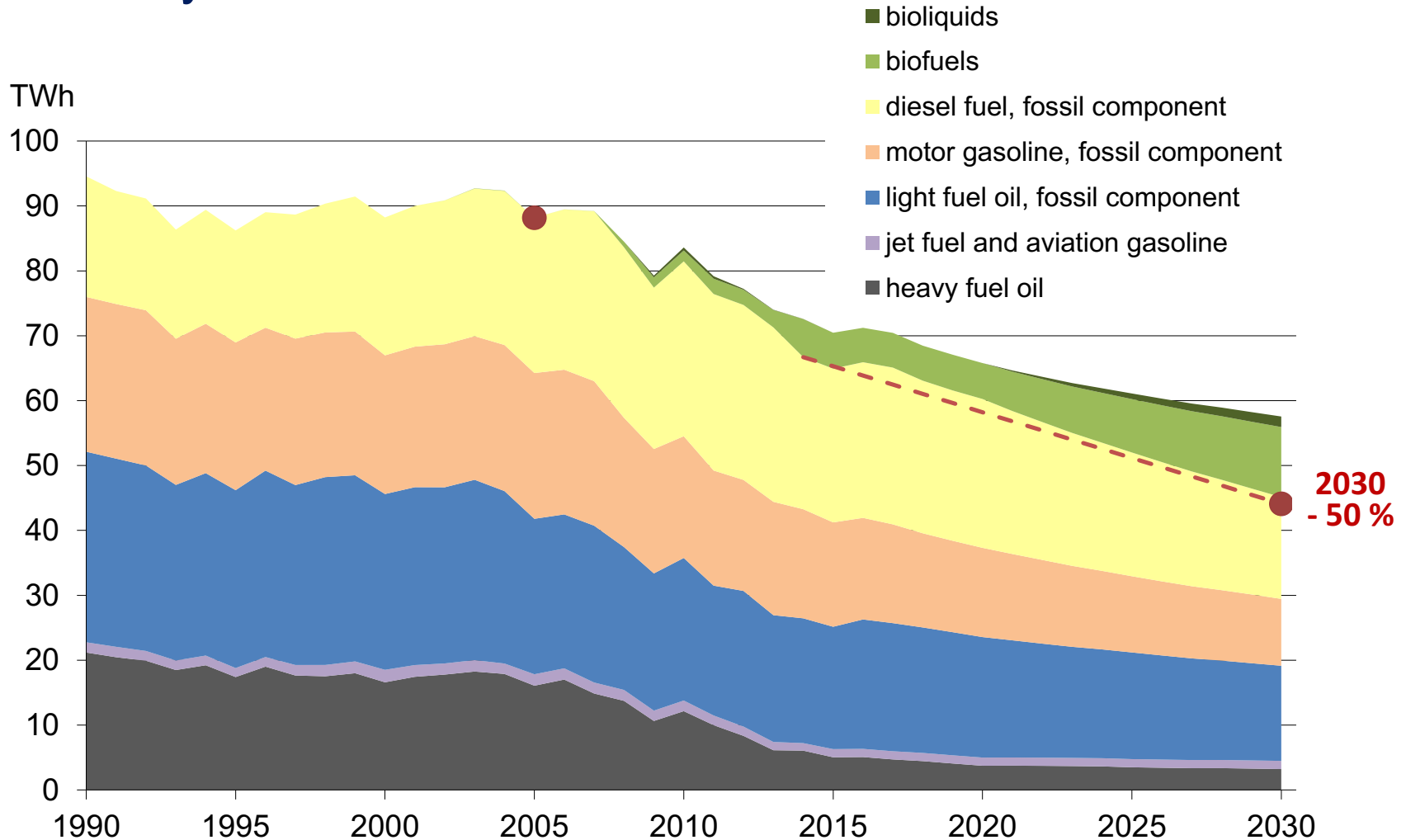
- improved **energy efficiency** of the transport system
- **vehicle stock renewal** to be accelerated considerably
- **250,000 electric vehicles** and **50,000 gas fuelled** vehicles in 2030
- **share of biofuel** of all fuels sold to road transport to be increased to 30 per cent by 2030

Space heating

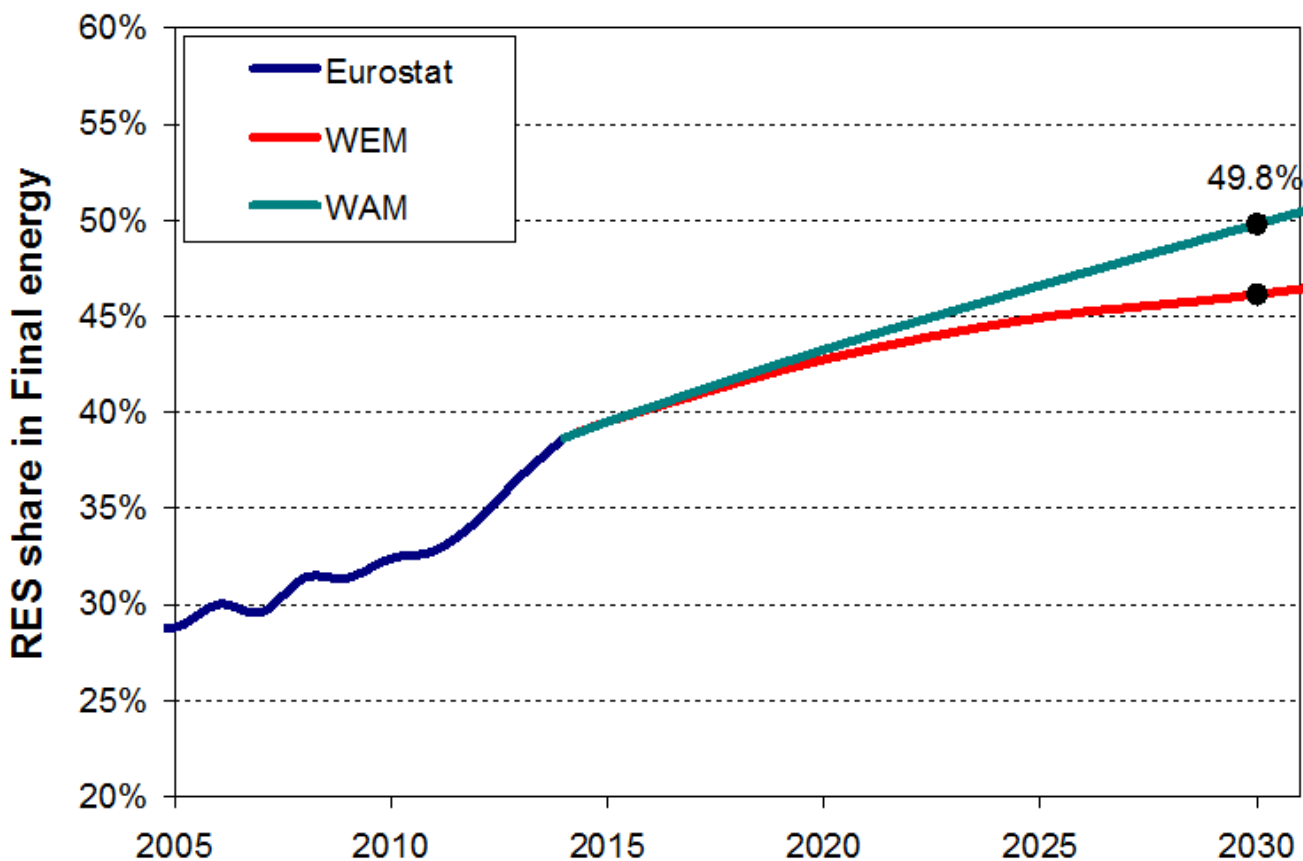
- mandatory blending of **bio liquids** into light fuel oil 10 per cent in 2030

Oil demand

Policy scenario



Renewable energy share of final consumption



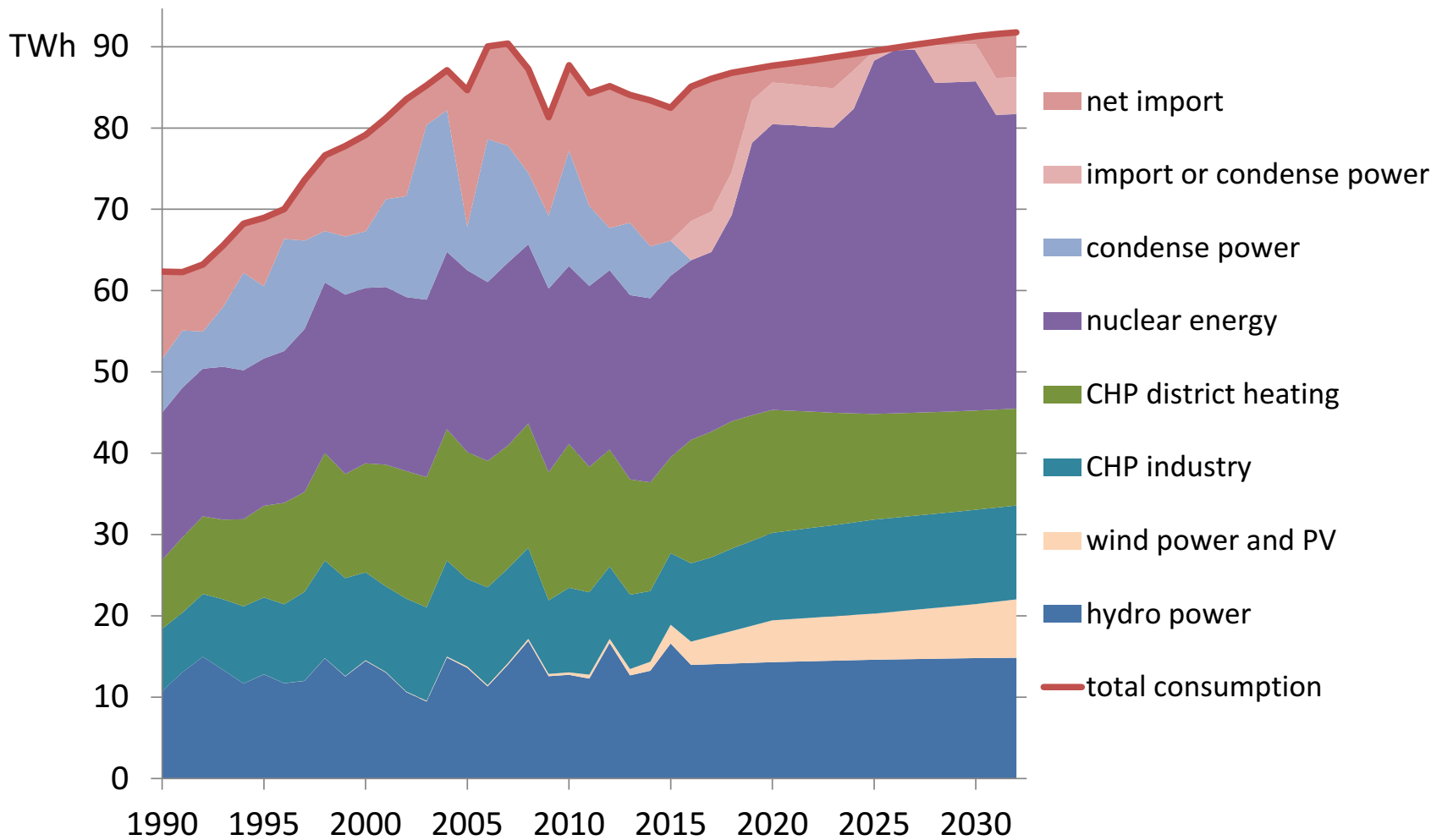
Examples of measures (2/2)



- Investment subsidies for renewable energy are mainly targeted towards **commercialising new technology**
 - especially facilities producing advanced biofuels and bioliquids
- Use of agricultural, municipal and industrial **waste and side streams** is promoted in the production of heat and electricity and as transport fuel
- Large-scale renewable electricity production will be promoted by **technology-neutral competitive tendering**
 - current feed-in tariff system of wind power will not be continued
- **Using coal** for energy production will be discontinued during the 2020s
 - during the current Government term a bill will be prepared

Electricity supply

Reference scenario



Tiina Koljonen, Sampo Soimakallio, Antti Asikainen,
Timo Lanki, Perttu Anttila, Mikael Hildén, Juha Honka-
tukia, Niko Karvosenoja, Antti Lehtilä, Heikki Lehtonen,
Tomi J. Lindroos, Kristiina Regina, Olli Salminen, Mikko
Savolahti, Riikka Siljander, Pekka Tiittanen

Energia- ja ilmastostrategian vaikutusarviot: Yhteenvetoraportti

Pöyry Management Consulting Oy

Metsäbiomassan kustannustehokas käyttö

KATSAUS 332/2017

Tulevaisuuden energia 2030...2050

Pi-Salonen

Tekes

Helmikuu 2017
Valtionevoston
julkaisusarja 2/12

Helmikuu 2017
Valtionevoston selvitys-
ja tutkimustoiminnan
julkaisusarja 23/2017

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Ministry of Economic Affairs
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Energy and Climate Roadmap 2050

Report of the Parliamentary Committee
on Energy and Climate Issues on
16 October 2014

Publications of the Ministry of Employment
and the Economy
Energy and the climate
50/2014



TYÖ- JA ELINKEINOMINISTERIÖ
ARBETS- OCH NÄRINGSMINISTERIET
MINISTRY OF EMPLOYMENT AND THE ECONOMY

