

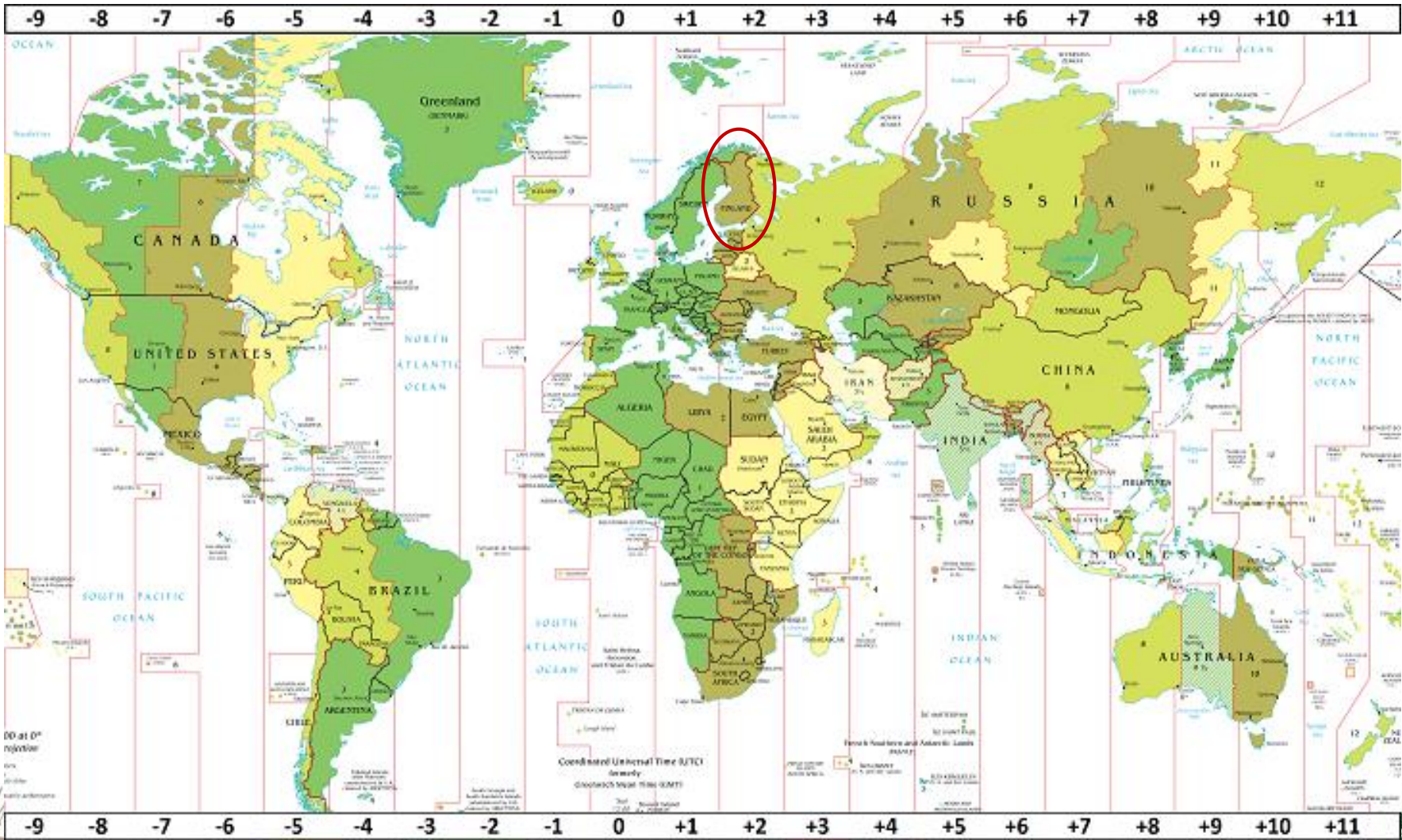
Country Update Finland

Global Methane Forum
Washington DC, USA

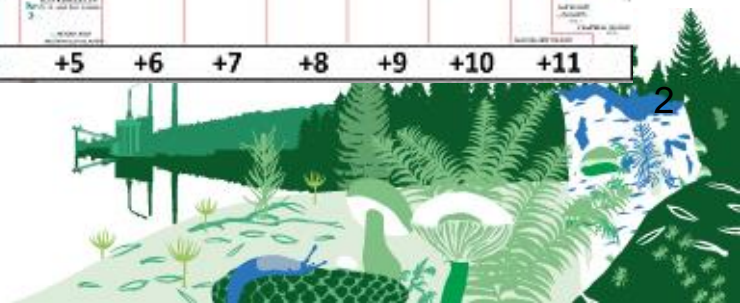
29.3.2016

8.4.2016





8.4.2016



Finland biogas update 2016

Total energy consumption in Finland 2014 was 372 TWh
- share of renewable energy was 33 %

Landfill ban on biodegradable waste (> 10%) from the beginning of 2016 - new processing methods for biodegradable waste must be established and developed

Landfill gas recovery plants

- 40 landfill gas recovery plants were operating
- The amount of the recovered biogas was 94.0 million m³ - electrical and thermal energy was produced 303,7 GWh

8.4.2016



food and natural resources

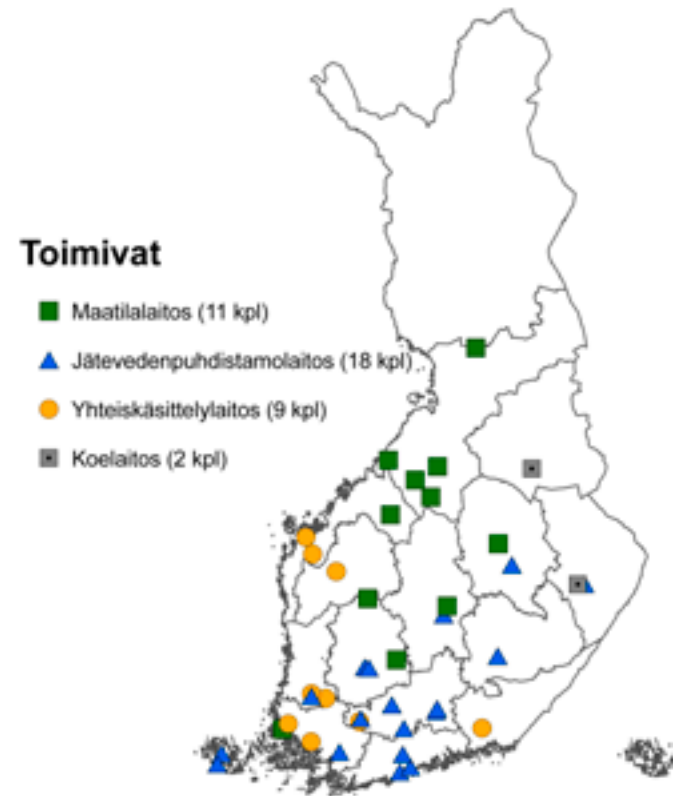


Finland biogas update 2016

Reactor installations

- 16 biogas reactor plants were in operation at different municipal wastewater treatment plants
- Industrial wastewaters were treated anaerobically at three plants
- Farm-scale biogas plants were operation at 13 places
- Municipal solid wastes were treated at 14 biogas plants
- The amount of biogas produced was 61.5 million m³ - production of thermal and electrical energy was 309,6 GWh
- Production efficiency has improved

8.4.2016



Lähde: Itä-Suomen yliopiston biokaasulaitosrekisteri, alueelliset ELY-kesku



Finland biogas update 2016

- In January 2014 EU Commission's communication for 2030 climate and energy framework for a competitive, secure and low-carbon EU economy.
- New governmental programs 2015: Bioeconomy and clean solutions is one of the five strategic priorities
 - Key projects are e.g. cost-efficient carbon-free, clean and renewable energy, circular economy and improvement on water quality
 - Funding 300 M€ for the government term (2016 – 2018)
 - Interest in biogas as vehicles fuel has increased
- New national energy and climate strategy will be finalized by the end of 2016

8.4.2016



food and natural resources



Incentives

- The state of Finland provides subsidies for biogas investments and research projects
- Ministry of Employment and the Economy provides subsidies to bigger biogas plants: feed-in tariff or energy aid for investments
- Ministry of Agriculture and Forestry provides subsidies to smaller biogas plants: investment aid (rural development programme for Mainland Finland 2014-2020 and the national investment aid)
- biomethane is exempted from excise tax

8.4.2016



Projects

- The Energy and Environment Partnership (EEP) is a Programme which promotes renewable energy (RE), energy efficiency (EE), and clean technology investments.
- The EEP Programme is jointly funded by the Ministry of Foreign Affairs of Finland (lead donor), The Austrian Development Agency (ADA) and the UK's Department for International Development (DFID)
- Bronkhorstspruit biogas plant (PTY) Ltd – South Africa
<http://eepafrica.org/about-us/success-stories/bio2watt/>
- Thai Biogas Energy Company – Mekong region
<http://eepmekong.org/index.php/projects/case-studies>

8.4.2016

Contact information

- Mari Heinonen, Process Manager, Helsinki Region Environmental Services Authority, Wastewater treatment

mari.heinonen@hsy.fi

<http://www.hsy.fi/en/Pages/Default.aspx>

- Birgitta Vainio-Mattila, Ministerial Adviser, Ministry of Agriculture and Forestry

birgitta.vainio-mattila@mmm.fi

<http://www.mmm.fi/en/index/frontpage.html>

8.4.2016

