

rem^owe

Regional Mobilizing of Sustainable Waste-to-Energy Production



Baltic Sea Region
Programme 2007-2013

Part-financed by the European Union
(European Regional Development Fund
and European Neighbourhood and
Partnership Instrument)

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CURRENT STATUS OF WASTE MANAGEMENT AND WASTE-TO-ENERGY SYSTEMS IN ESTONIA

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CURRENT STATUS OF WASTE-TO –ENERGY IN ESTONIA

	EU 2006	EST 2006
Use of biogas per capita	26,8 m3	5,2 m3

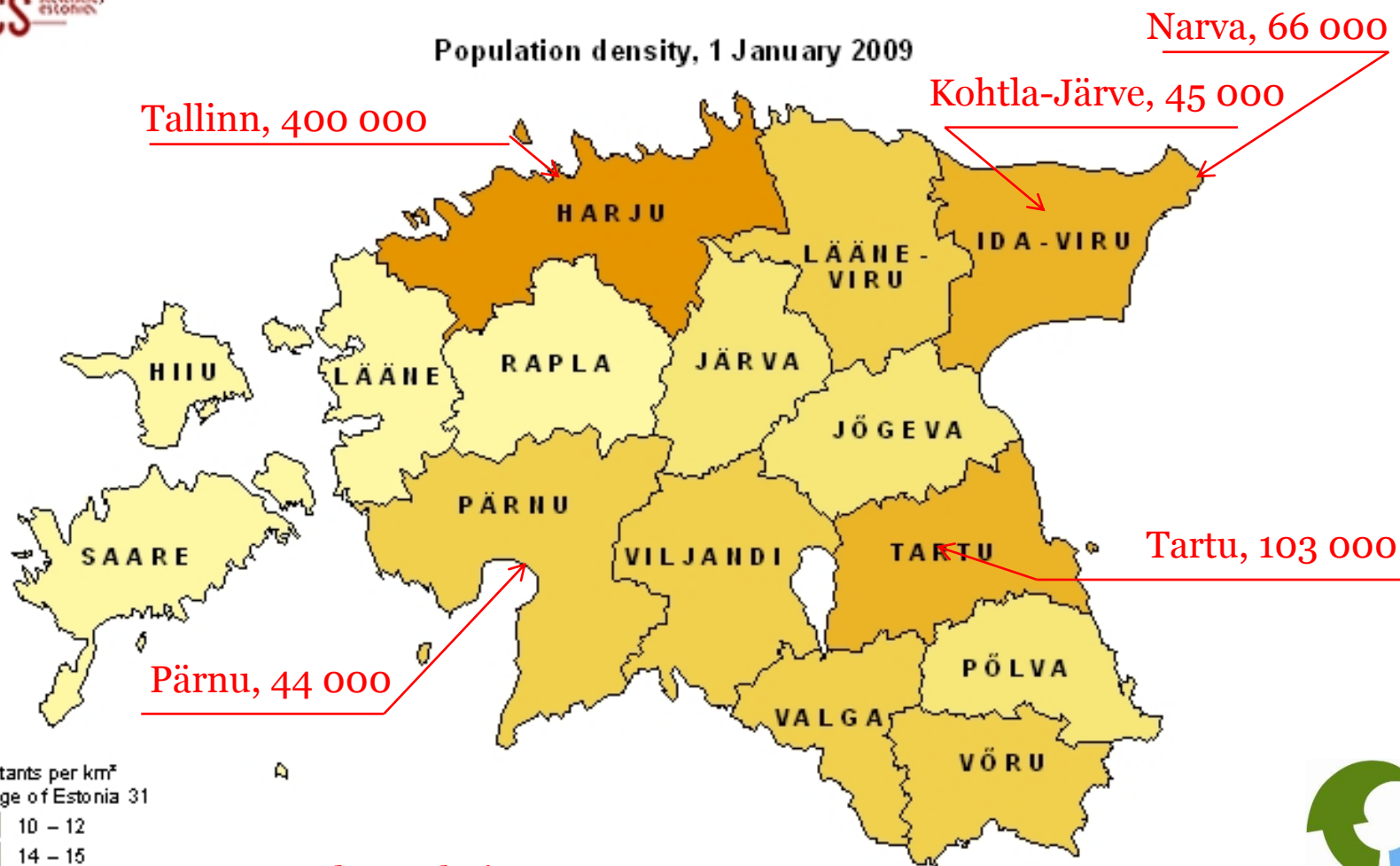
Renewable energy sources – primarily defined as agriculture and forestry products.



ESTONIAN POPULATION



Population density, 1 January 2009



Inhabitants per km²
Average of Estonia 31

Light yellow	10 - 12
Yellow	14 - 15
Light orange	16 - 19
Orange	50 - 51
Dark orange	121

Total population, 1 340 000



LEGAL FRAMES

- o Estonian Environmental Strategy 2030

Tendencies in Estonia of waste management:

- Sorting and waste recovery is growing.

The decrease of waste generation in production sector should be preferred and the recovery of waste generated already should be preferred.



LEGAL FRAMES

- o Estonian National Planning 2010

“Oil shale minings are currently and in near future for the basis of Estonian energetics. According to prognosis done about energetics it is probable to quit step-by-step the oil shale as energy resource”

“There should be increased the share of natural gas and local alternative energy resources in energy production instead of oil shale for ensuring the maintenance and for improving of good nature.”



LEGAL FRAMES

- Estonian National Waste Management Plan

Problems:

Solutions for decreasing the waste generation are rather limited and with small success.

The share of sorted biodegradable waste is very low among municipal waste.

Aims:

Indicator	Basis 2005	Target 2013
Share of waste recovery	30 %	50 %
Share of biodegradable waste among waste landfilled	50-60 %	30 %



LEGAL FRAMES

- o Estonian National Plan of Energetics

Aims:

Indicator	Basis 2005	Target 2020
Share of energy produced from renewable sources	18 %	25 %
Share of biodegradable waste among waste landfilled	50-60 %	30 %

Hay from meadows as a main sort of waste for energy production. Energetic value at least 500 GWh per annum.

Energetic value of manure is ca 400 GWh (2000 T/y)



GENERATION AND USE OF WASTE 2008 (T)

Code	Amount Jan. 1st	Generated	Landfilled	Recycled	Unspeci- fied	Amount Dec 31st
02 01 03	502	12 007	0	3 290	9 040	178
02 01 06	34 960	129 490	0	107 192	26 442	30 815
02 01 07	1 849	12 106	39	618	869	12 187
03 01 01	4 383	120 713	2 225	100 653	8 536	13 681
03 01 05	46 207	769 752	629	384 749	373 798	48 224
03 03 01	2 390	45 768	0	22 917	0	396
19 08 01	1 722	1 769	417	1 121	0	1 952
19 08 02	214	2 298	953	1 113	154	291
19 08 05	76 257	103 345	36	73 450	56 166	49 950
19 08 09	0	290	0	290	0	0
19 08 12	0	10 294	0	8 831	1 463	0



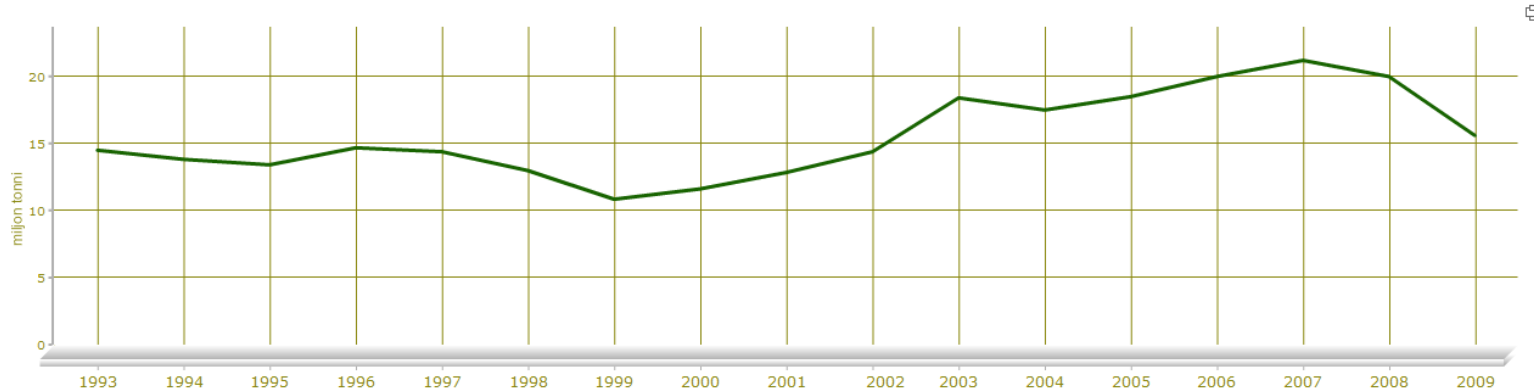
GENERATION AND USE OF WASTE 2008 (T)

Code	Amount Jan. 1st	Generated	Landfilled	Recycled	Unspeci- fied	Amount Dec 31st
20 01 08	0	8 146	2	8 143	0	0
20 01 25	25	547	221	117	86	69
20 01 26	190	134	0	119	0	202
20 02 01	5 818	11 893	1 041	7 593	34	9 041
20 03 01	938	354 904	323 042	2 207	2 362	2 513



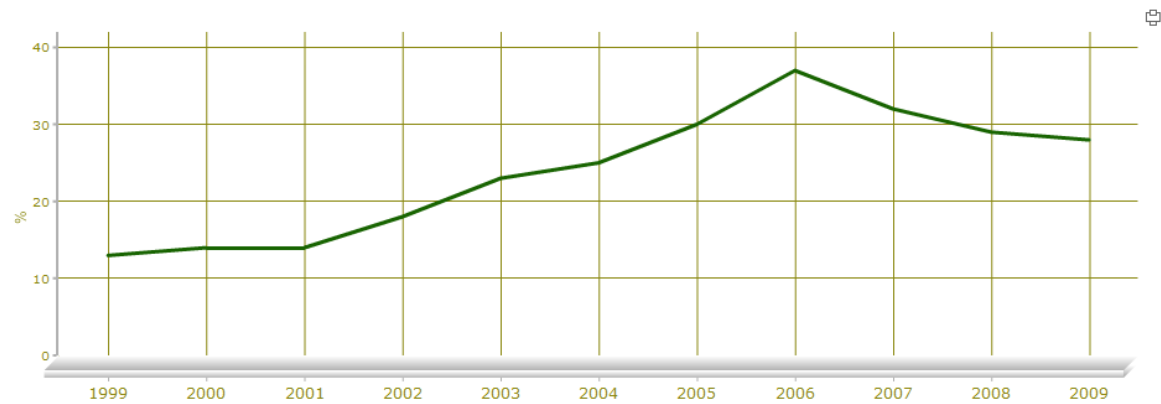
WASTE GENERATION AND RECOVERY

Jäätmeteke



Indikaator näitab aasta jooksul tekkinud jäätmete kogust miljonites tonnides.

Jäätmete taaskasutamine



Indikaator näitab taaskasutatud jäätmete protsentuaalset osakaalu kõigist tekkinud jäätmetest.

