

EU SUSTAINABLE ENERGY WEEK 15-19 JUNE 2015



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Riga benefitted from learning

- Building capacity from the sector leaders and advanced cities
- Enlarging networks with new partners
- Extended political commitments
- Improved energy policy and moved to development of smart cities
- EU co-funded projects



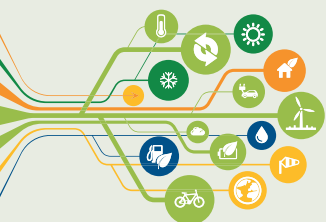
Cities are different

	Ghent*	Glasgow	Gothenburg	Riga
Annual final energy consumption, GWh	28,800**	12,500	15,650	12,260
Year of reference	2009	2011	2010	2012
Major energy source in energy supply	Cokes (including ETS and shipping); Natural gas (excluding ETS and shipping)	Natural gas	Liquid fossil fuels	Natural gas
Share of electricity	~ 9.5%	~ 25%	~ 35%	~ 21%
Share of district heat	~ 2.3%	<1%	~ 26%	~ 20%
Share of renewables	~ 2.2%	<1%	~ 1.9%	~ 10%

*including ETS and shipping unless explicitly mentioned otherwise

**final energy consumption data excluding ETS and shipping is not available due to data privacy reasons

More: stepupsmartcities.eu



Cities have different solutions (part1)

Tool / approach					
	Ghent	Glasgow	Gothenburg	Riga	Grand Total
Direct	16	8	12	12	48
CHP/DH	2	4	2	4	12
Energy efficiency - industrial processes	1		1		2
Energy efficiency - new build			1		1
Energy efficiency - new build (district)	6		1	1	8
Energy efficiency - retrofit	3	1	2	2	8
Energy efficiency - retrofit (district)	1		1		2
Fleet change to low carbon vehicles	1	1	2	2	6
Public lighting	1	1			2
Renewables	1		2		3
Renewables - biomass				1	1
Renewables - geothermal				1	1
Renewables - solar thermal				1	1
Smart grid		1			1
Grand Total	41	13	25	14	93



Cities have different solutions (part2)

Tool / approach					
	Ghent	Glasgow	Gothenburg	Riga	Grand Total
<input checked="" type="checkbox"/> Enabling	25	5	13	2	45
Change in policy		1	2		3
Coaching to encourage behaviour change	5				5
Communication to encourage behaviour change	5	1	4		10
ICT	3	2		2	7
Improved planning			3		3
Incentives to encourage behaviour change	3		1		4
Infrastructure to encourage behaviour change	2		1		3
New business model	6	1	1		8
Procurement	1		1		2
Grand Total	41	13	25	14	93

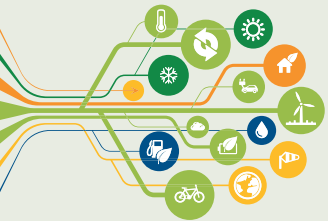
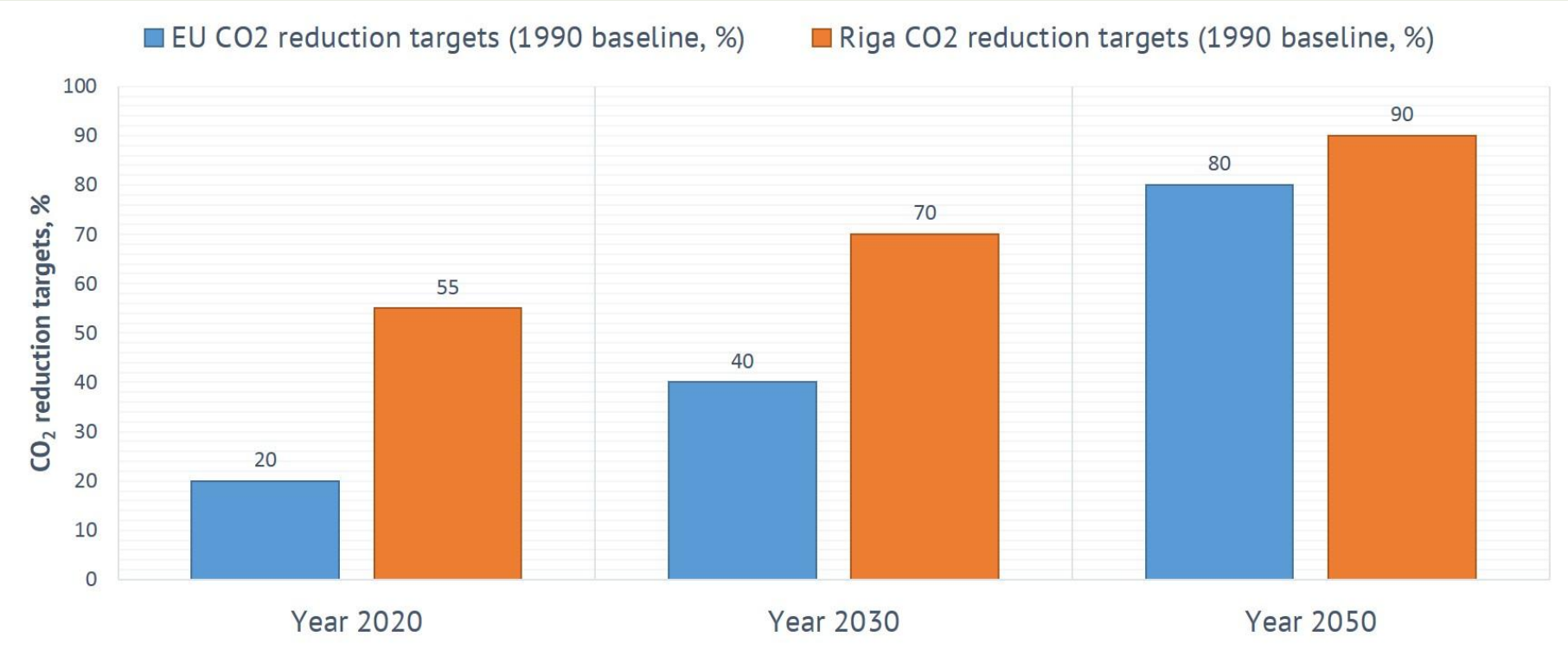


More: stepupsmartcities.eu

Riga process under Covenant of Mayors and STEP UP



EU vs Riga targets



Riga and partners innovating and transferring

- Greenitnet.com, the INTEREG IV co-financed project:
 - Aim was to transfer good practices
 - Which implies mature areas of expertise
- Scope was energy, Sustainability and IT
 - Project started: 2012
 - Green IT was (and is) a novel and *innovative* area of expertise
- Most good practices were experiments
- Overcome through:
 - Continuously motivating and involving partners
 - Sticking to methodology
- Results: 11 partners in 10 regions from 9 countries; 160+ good practices online; 10 implementation plans; 3 completed transfers; nomination for RegioStars Award



More: www.greenitnet.com

Riga sharing innovative solutions (e-catalogue)

- Energy consumption management in multi apartment buildings
- Energy consumption management in public buildings
- Local biogas cogeneration with greenhouse complex
- Programmed LED city lightning with distance control
- Heat recovery from the flue gas within district heating system
- Automated energy consumption remote reading within district heating system
- E-ticket system implementation and reduced price tickets available for different social groups using public transport
- Database for Riga households on energy consumption in buildings
- Thermal pump with heat controllers for efficient building heating
- Automated wood chips biomass boilers with output value over 100%
- Electric cars for municipal technical units
- Sun battery system on building roofs
- Energy Efficiency for households using Smart technologies
- Solar pumps for building heating
- Heat recovery from waste water in multi apartment houses ... +



Proposals for actions at EU level

- The inclusion of cities at the governance stage, not just for implementation at regional/national/EU level;
- A focus not only on technological solutions, but also on societal changes of the energy transition;
- More pilots across variety of EU Members states; support for MS to overcome difficulties;
- More actions:
 - EU support programmes for small and medium sized cities;
 - Replication facilitated by mobility grants;
 - Technical assistance for local authorities;
 - One-stop agency at EU level.

