

National Experiences of Assessing and Exploiting the Market Potential for Low-Carbon Technologies

Belarus

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Concept of energy security (draft)

- ▶ Targets from 2010 to 2035:

Indicator	2010	2035
Energy independence:		
Domestic TPES/ Total TPES, %	14	20
RE / Total TPES, %	5,2	9
Diversification		
Share of dominating energy supplier, %	96	70
Share of dominating fuel type, %	60	50
Reliability		
Share of reservation,%	127	135
Energy efficiency		
Energy intensity, t c.e./mln.BRB (2005)	426	210

Energy Strategy

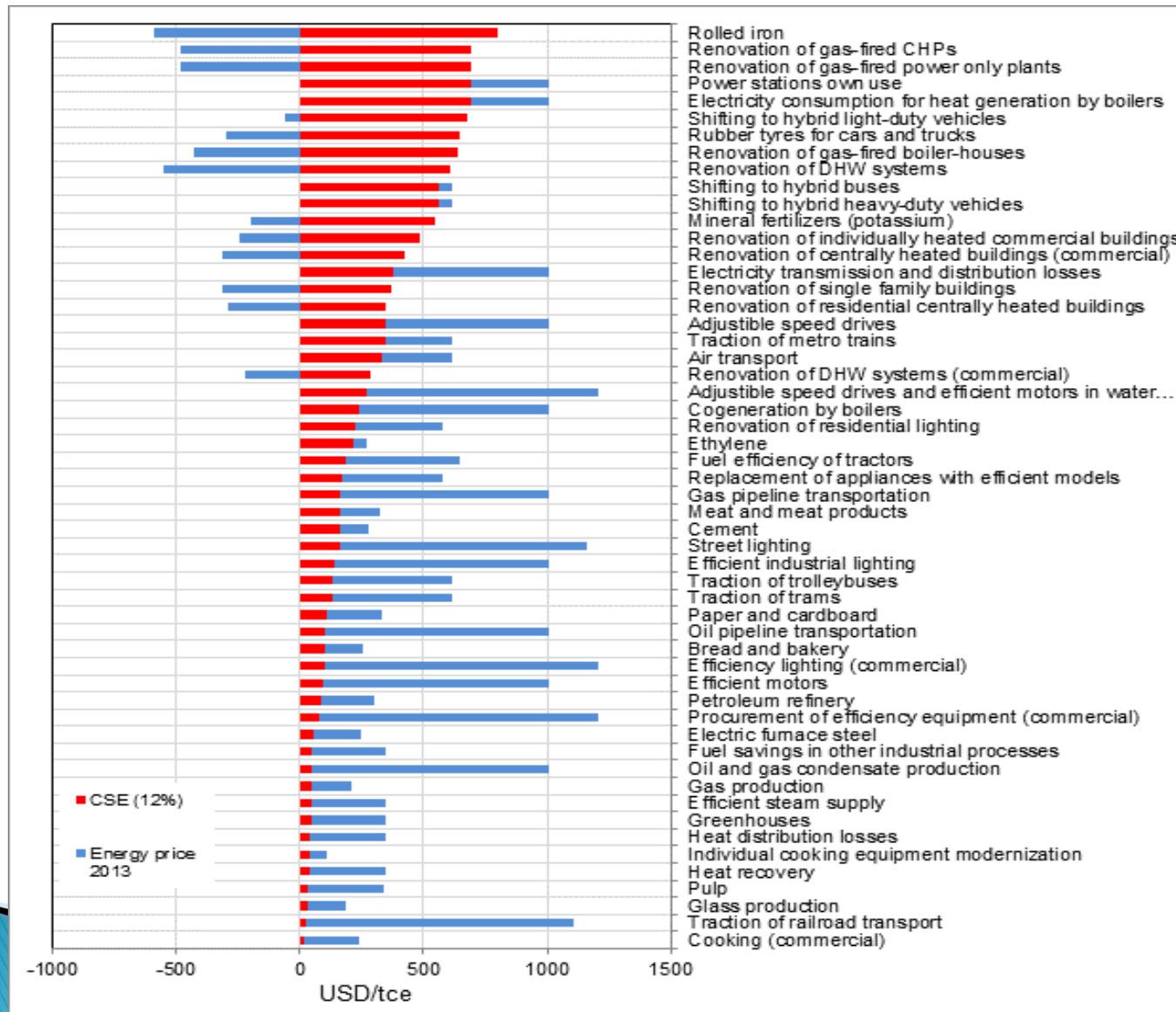
▶ Targets from 2009 to 2020

Indicator	2009	2020
Energy intensity, % (to 2005)	24,8	60,0
Domestic TPES/ Total TPES, %	20,3	32-34
Share of Natural Gas, %	71,8	55

National Energy System Program

Object	Capacity, MW	Economy, t. c.e.	CO ₂ , th.t.eq.
Minsk CHP, CGGT unit	230	120	168
Lukoml HPP, upgrade unit №1, 2, 4	47,5	45	63
Lida CHP, GT unit	25	11	15,4
Grodno CHP, Baranovichi CHP и BelHPP, upgrade units	88	15	21
Boiler Plant Zhlobin, CG unit	26	16	22,4
Boiler Plant Grodno, GT unit	6	6	8,4
Lukoml HPP, Gomel CHP, turbine gas expanders	6,5	8,4	11,76

Market energy efficiency potential for Belarus



Price of economy

Technology	Value
Nuclear Power Plant, th.USD/t.CO ₂ eq	1,45
Cogeneration Steam-Gas Cycle, th.USD/t.CO ₂ eq	2,97
PV solar plant, th.USD/t.CO ₂ eq	3,14
Wind Energy, th.USD/t.CO ₂ eq	4,25
Wind Energy (feed-in), th.USD/t.CO ₂ eq	4,67
PV solar plant (feed-in), th.USD/t.CO ₂ eq	8,47
Energy Efficiency Buiding, th.USD/t.CO ₂ eq	13,14

Thank you!!!!

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