

## Annex 1: Table evaluating energy efficiency measures, by sector, in 2013 and 2014 – annual energy savings – for the fulfilment of the target for final consumers

Table 1: Summary overview of measures in the buildings sector in 2013 and 2014, and cumulative savings for 2014 up to 2020

Measure No	Measure title	Measure specifications	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
					2013	2014	Σ(2014-2020) <sup>1</sup>
					[TJ/year]	[TJ/year]	[TJ/year]
1.1.	Improvements in the thermal performance of buildings	Single-family buildings	Own resources, commercial banks <sup>2</sup>	Ministry of Transport	111.94	119.86	839.05
1.2.1	Improvements in the thermal performance of buildings	Multi-family buildings	State Housing Development Fund <sup>3</sup>	Ministry of Transport	498.49	516.40	3,615.79
1.2.2			State Housing Development Fund – JESSICA 2013-2014 <sup>3</sup>	Ministry of Transport, Ministry of Agriculture and Rural Development	0.00	36.90	258.27
1.2.3			State Housing Development Fund – EU 2014–2020 <sup>4</sup>	Ministry of Transport, Ministry of Agriculture	0.00	0.00	0.00
1.2.4			Own funds	Ministry of Transport	566.91	524.49	3,671.45
1.2.5			Slovseff II. <sup>3</sup>	Ministry of Economy	23.94	1.91	13.39
1.2.6			Slovseff III. <sup>3</sup>	Ministry of the Environment	0.00	0.00	0.00
1.2.7			Munseff <sup>3</sup>	ESG, Commission, EBRD	11.98	22.21	155.49
1.3.1	Improvements in the thermal performance of buildings	Administrative buildings (excluding public buildings)	Own resources, commercial banks	Ministry of Transport	100.63	92.93	650.51
1.3.2		Buildings of schools and school facilities	Own resources, commercial banks	Ministry of Transport	0.00	0.00	0.00
1.3.3		Buildings of hospitals and healthcare facilities	Own resources, commercial banks	Ministry of Transport	0.00	0.00	0.00
1.3.4.a		Hotels and restaurants	Own resources, commercial banks	Ministry of Transport	69.89	56.62	396.36
1.3.4.b		<b>Cultural facilities</b>	<b>Operational Programme Competitiveness and Economic Growth</b>	<b>Ministry of Economy</b>	1.35	0.00	0.00

<sup>1</sup> Energy savings achieved in 2014, cumulated up to 2020.

<sup>2</sup> CB – financing via commercial banks.

<sup>3</sup> This involves lending from public sources which is to be gradually repaid from private sources.

<sup>4</sup> State Housing Development Fund – EU “EU-funded residential building insulation”. This involves lending from public sources which is to be gradually repaid from private sources.

Measure No	Measure title	Measure specifications	Financial mechanism	Responsible ministry/ organisation	Energy savings (FEC)		
					2013	2014	Σ(2014-2020) <sup>1</sup>
					[TJ/year]	[TJ/year]	[TJ/year]
1.3.5		Retail, wholesale	Own resources, commercial banks	Ministry of Transport	114.64	122.12	854.83
1.3.6		Sports halls, other buildings intended for sport	Own resources, commercial banks	Ministry of Transport	7.16	0.74	5.19
1.4.1	New construction to a low-energy standard	Single-family buildings	Own resources, commercial banks	Ministry of Transport	137.61	57.98	405.89
1.4.2		Multi-family buildings	Own resources, commercial banks	Ministry of Transport	21.21	22.58	158.09
1.5	New construction to an ultra-low-energy standard	Single-family and multi-family buildings	Own resources, commercial banks	Ministry of Transport	20.82	67.92	475.42
1.6	New construction of nearly zero-energy single-family and multi-family buildings	Single-family and multi-family buildings	Own resources, commercial banks	Ministry of Transport	6.46	17.22	120.56
1.7	Provision of energy services in buildings via gas, electricity and heat suppliers	Gas, electricity and heat suppliers	Own resources, commercial banks	Energy suppliers, Ministry of Economy	0.00	5.67	39.66
1.8	Application of legislative measures	Insulation of hot water distribution systems in residential buildings with heat supply	Own resources, commercial banks	Ministry of Economy	0 C)	0 C)	0.00
1.9		Hydraulic balancing of space heating and hot water distribution systems, insulation of hot water distribution systems	Own resources, commercial banks	Ministry of Transport, Ministry of Economy, central bodies of state administration	0 B)	0 B)	0.00
1.10		Energy performance certification of buildings	Ministry of Transport	Ministry of Transport	A)	A)	0.00
1.11		Periodic inspections of space heating systems and air conditioning systems	Central bodies of state administration, HTUs, municipalities	Ministry of Economy	A)	A)	0.00
1.12	Draft (amendment to) legislative regulations	Building Act		Ministry of Transport	A)	A)	0.00
1.13	Application of policy and strategy documents	System to support the construction of buildings to an ultra-low-energy standard		Ministry of Transport	A)	A)	0.00
1.14	Amendment to the implementing regulations on periodic inspections of space heating systems and air conditioning systems			Ministry of Economy	A)	A)	A)
1.15	Application of policy and strategy documents	Residential and Non-residential Building Stock Renovation Strategy, Slovak Republic		Ministry of Transport	A)	A)	0.00
1.17	Analysis concerning the installation of individual meters in residential buildings and multipurpose buildings with district heating – implementation of Directive 2012/27/EU on energy efficiency			Ministry of Economy	A)	A)	A)
1.18	“Major Building Renovation” information campaign			Ministry of Transport, Slovak Innovation and Energy Agency	A)	A)	A)

Measure No	Measure title	Measure specifications	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
					2013	2014	$\Sigma(2014-2020)^1$
					[TJ/year]	[TJ/year]	[TJ/year]
<b>Buildings – total</b>					<b>1,693.02</b>	<b>1,665.57</b>	<b>11,658.98</b>

Notes:

A) This measure as an indirect effect on energy savings already factored into investment measures.

B) Hydraulic balancing is required for feasible achievement of planned savings following building renovation. In this respect, it is assumed that the impact of this measure is already factored into energy savings that will be achieved by improving the thermal performance of buildings.

C) Data for an evaluation of savings achieved by this measure are not currently available. Savings are incorporated into investment measures.

D) Data for an evaluation of the financing of this measure are not currently available. This will be updated as soon as possible.

E) This measure has yet to be implemented. Measure implementation anticipated by 31 December 2016.

Table 2: Summary overview of measures in the industry sector in 2013 and 2014, and cumulative savings for 2014 up to 2020

Measure No	Measure title	Financial mechanism	Responsible ministry/ organisation	Energy savings (FEC)		
				2013	2014	Σ(2014-2020)
				[TJ/year]	[TJ/year]	[TJ/year]
5.1.1	Innovation and technology transfers at industrial enterprises	2007–2013 Structural Funds, OP Competitiveness and Economic Growth, Measure 1.1	Ministry of Economy	0.00 D)	0.00 D)	0.00
5.1.2		2007–2013 Structural Funds, OP Bratislava Region	Ministry of Agriculture and Rural Development	4.70	0.588	4.12
5.1.3		OP Research and Innovation 2014-2020	Ministry of Education, Science, Research and Sport	0.00	0.00	0.00
5.2.1	Increased energy efficiency in industrial production	2007–2013 Structural Funds, OP Competitiveness and Economic Growth, Measure 2.1	Ministry of Economy	44.74	4.35	30.45
5.2.2		Slovseff II. - industry <sup>5</sup>	Ministry of Economy	85.39	8.23	57.61
5.2.3		Slovseff III - industry <sup>4</sup>	Ministry of the Environment	0.00	0.00 E)	0.00
5.3.1	Implementation of energy efficiency measures derived from energy audits	OP Environmental Quality 2014–2020, Priority Axis 2. Promotion of energy efficiency and use of energy from renewable sources at undertakings	Ministry of the Environment/ Ministry of Economy	0.00	0.00	0.00
5.3.2		Undertakings' own funds	Ministry of Economy	0.00 F)	0.00 F)	0.00
5.4	Promotion of energy audits for SMEs in the Bratislava Region	Subsidy schemes within the purview of the Ministry of Economy	Ministry of Economy	C)	C)	0.00
5.5	Application of legislative measures	Energy audits at industrial enterprises pursuant to the Energy Efficiency Act	Ministry of Economy	180.00	95.26	666.80
5.6	Voluntary energy savings agreement	Voluntary contributions by parties to the agreement	Ministry of Economy, gas and electricity traders	0.00 B)	0.00 B)	0.00
5.7	Support for the introduction of EMAS and energy management systems	Own funds, OP Environmental Quality 2014–2020	Ministry of Economy	F)	F)	0.00
5.8	Appointment of energy managers at undertakings	Undertakings' own funds	Industrial enterprises	F)	F)	0.00
<b>Industry – total</b>				<b>314.83</b>	<b>108.43</b>	<b>758.98</b>

Notes:

- A) This measure as an indirect effect on energy savings already factored into investment measures.
- B) Voluntary agreements are still being prepared; a system for the monitoring and evaluation of energy savings is being configured. The data will be updated as soon as possible.
- C) The subsidies were not utilised in 2013-2014 due to budget constraints.
- D) Data required for an evaluation are not currently available. A measurable indicator “Annual saving (GJ/year)” was not a mandatory indicator for grant beneficiaries.
- E) Only projects to reconstruct heat distribution systems contributing to energy savings in the “energy transformation, transmission and distribution” sector have been implemented so far.
- F) A monitoring and evaluation system is being set up. The data will be updated on an ongoing basis.

<sup>5</sup> This involves lending from public sources which is to be gradually repaid from private sources.

Table 3: Summary overview of measures in the public sector in 2013 and 2014, and cumulative savings for 2014 up to 2020

Measure No	Measure title	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
				2013	2014	Σ(2014-2020)
				[TJ/year]	[TJ/year]	[TJ/year]
3.1	Improvements in the thermal performance of public buildings – Healthcare facilities	2007–2013 Structural Funds, OP Health	Ministry of Health	15.25	1.44	10.06
3.2.1	- Improvements in the thermal performance of public buildings – Schools and school facilities;	2007–2013 Structural Funds, OP Research & Development	Ministry of Education, Science, Research and Sport	0.31	0.04	0.28
3.2.2		2007–2013 Structural Funds, ROP, Measure 1.1	Ministry of Agriculture and Rural Development	66.96	22.78	159.43
3.3	Improvements in the thermal performance of public buildings – Social services	2007–2013 Structural Funds, ROP, Measure 2.1	Ministry of Agriculture and Rural Development	31.58	19.34	135.41
3.4	Improvements in the thermal performance of public buildings – Cultural facilities	2007–2013 Structural Funds, ROP, Measure 3.1	Ministry of Agriculture and Rural Development	0.55	2.05	14.34
3.5	Improvements in the thermal performance of public buildings – Fire stations	2007–2013 Structural Funds, ROP, Measure 4.2	Ministry of Agriculture and Rural Development	9.04	0.87	6.07
3.6	Reduction in the energy intensity of public buildings – administrative buildings, buildings of schools and school facilities, healthcare facilities	OP Environmental Quality 2014–2020	Ministry of the Environment, Ministry of Economy	0.00	0.00	0.00
3.7.1	Improvements in the thermal performance of public buildings – administrative buildings	Budget headings of central bodies of state administration (Article 5 of Directive 2012/27/EU)	Ministry of Finance, central bodies of state administration	0.00	0.00	0.00
3.7.2		Organisations within the competence of central bodies of State administration		0.00	3.04	0.00
3.7.3		Buildings of organisations within the competence of central bodies of State administration		0.00	0.00	21.29
3.9	Improvements in the thermal performance of public buildings	EkoFond – Programme 02 Improvement in the energy performance of buildings	SPP, a.s./ EkoFond	5.83	1.55	10.85
3.10	Improvements in the thermal performance of public buildings	Munseff <sup>6</sup>	ESG, EBRD, Commission	16.60	7.86	55.04
3.11	Improvements in the thermal performance of public buildings	Activity L1: Enhanced energy efficiency of existing public buildings, including insulation	Environmental Fund	0.00	23.01 C)	161.07
3.12	Application of the principle of energy efficiency in public	Central bodies of state administration,	Central bodies of	0.00 F)	0.00 F)	0.00

	procurement	municipalities, towns, HTUs	State administration			
3.13.1	Upgrading of public street lighting	2007–2013 Structural Funds, OP Competitiveness and Economic Growth, Measure 2.2	Ministry of Economy/Slovak Innovation and Energy Agency	3.90	25.09	175.60

<sup>6</sup> This involves lending from public sources which is to be gradually repaid from the resources of local government entities (EBRD loans, incentive payments from the EU).

Measure No	Measure title	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
				2013	2014	Σ(2014-2020)
				[TJ/year]	[TJ/year]	[TJ/year]
3.13.2	Upgrading of public street lighting	Munseff	ESG, EBRD, Commission	1.72	2.89	20.24
3.13.3	Upgrading of public street lighting	Operational Programme Bratislava Region		0.00	1.06	7.43
3.14	Provision of energy services for the public sector via gas, electricity and heat suppliers		Energy suppliers		0.00 F)	119.36
3.15	E <sup>2</sup> in state administration – SIEA training programme		Slovak Innovation and Energy Agency/Ministry of Economy	A)	A)	0.00
3.16	Support for the construction of nearly zero-energy buildings in the public sector		Ministry of Transport	A)	A)	0.00
3.17	Publication of supporting documents covering the lead role played by the public sector		Ministry of Economy, Office for Public Procurement	A)	A)	0.00
3.18.1	Production, approval and implementation of plans for sustainable energy and reductions in greenhouse gas emissions	OP Environmental Quality 2014–2020 (excluding the Bratislava Region)	Ministry of the Environment, Ministry of Economy	A)	A)	0.00
3.18.2		Subsidy schemes within the purview of the Ministry of Economy (in the Bratislava Region)	Ministry of Economy	A)	A)	0.00
3.19	Introduction of energy management systems, including energy audits and environmental management	OP Environmental Quality 2014–2020 (excluding the Bratislava Region)	Ministry of the Environment, Ministry of Economy	A)	A)	0.00
3.20	Support for the development of energy services regionally and locally	OP Environmental Quality 2014–2020	Ministry of the Environment, Ministry of Economy	A)	A)	0.00
3.21	Energy audits in public buildings	2007–2013 Structural Funds, OP Competitiveness and Economic Growth, Measure 2.2	Slovak Innovation and Energy Agency	0.00	6.15 C)	43.05
3.22	Analysis of energy-saving potential in public buildings	2007–2013 Structural Funds, OP Competitiveness and Economic Growth, Measure 2.2	Slovak Innovation and Energy Agency	A)	A)	0.00
3.23	Energy audits of selected buildings of central bodies of state administration	Own funds of budget headings	Central bodies of State administration	A)	A)	0.00
3.24	Expansion of the survey of energy savings within the scope of green public procurement to include quantification of annual energy savings and the financial resources expended		Ministry of the Environment, Slovak Innovation and Energy Agency	A)	A)	0.00
3.25.1	Review of legislation of general application concerning the budgetary rules of state and public administration		Ministry of	A)	A)	0.00

			Finance			
3.25.2	Support of financing under public-private partnership projects financed with EU resources		Ministry of Finance	A)	A)	0.00
3.25.3	Expansion of the survey of annual energy savings within the scope of green public procurement (including the resources expended)		Ministry of the Environment	A)	A)	0.00
3.26.1	Improvements in the thermal performance of public buildings – Healthcare and social facilities	IROP 2014-2020	Ministry of Agriculture and Rural Development	0.00	0.00	0.00
3.26.2	Improvements in the thermal performance of public buildings – Schools and school facilities	IROP 2014-2020	Ministry of Agriculture and Rural Development	0.00	0.00	0.00
3.26.3	Improvements in the thermal performance of public buildings – nursery schools, primary schools, social and community facilities	Operational Programme Bratislava Region, Measure 1.1	Ministry of Agriculture and Rural Development	0.00	1.68	11.74
<b>Public sector – total</b>				<b>151.73</b>	<b>135.89</b>	<b>951.26</b>

Notes:

A) This measure as an indirect effect on energy savings already factored into investment measures.

B) Expenditure is included in the approved budget of the individual headings. It is impossible to break this down into the measures implemented on the basis of the current data.

C) As the measure was launched in 2014, at the time the report was being prepared, the results of the provisional evaluation, on the basis of individual projects, were not available. Due to the ongoing evaluation of the financing of this measure, financing is temporarily calculated on the basis of the investment intensity of similar projects. The data will be updated as soon as possible.

D) The subsidies were not utilised in 2013-2014 due to budget constraints.

E) Budgetary constraints indicate that the renovation of the buildings of central bodies of state administration will mainly be carried out in the 2014–2016 period with resources from the Operational Programme Environmental Quality. After 2016, it is expected that funding will come from the central government budget or from an increase in budget headings.

F) Data for an evaluation of energy savings are not currently available. The data will be updated on an ongoing basis.



Table 4: Summary overview of measures in the transport sector in 2013 and 2014, and cumulative savings for 2014 up to 2020

Measure No	Measure title	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
				2013	2014	Σ(2014-2020)
				[TJ/year]	[TJ/year]	[TJ/year]
4.1.1a	Renewal and modernisation of the fleet – Rail transport	OP Transport 2007–2013	Ministry of Transport	0.00 A)	18.56	129.91
4.1.1b		OP Integrated Infrastructure 2014–2020		0.00 A)	0.00	0.00
4.1.2	Renewal and modernisation of the fleet – Bus/coach transport	OP Environment 2007-2013, IROP 2014–2020	Ministry of the Environment, Ministry of Transport, Ministry of Agriculture	0.00 A)	24.98	174.83
4.2	Building and upgrading the transport infrastructure (contd.)	Operational Programme Transport 2007-2013, Operational Programme Integrated Infrastructure 2014–2020	Ministry of Transport	0.00 A)	43.95	307.65
4.3	Support for the development and use of public passenger transport, including support for the creation of integrated transport systems	Operational Programme Integrated Infrastructure 2014–2020, IROP 2014–2020	Ministry of Transport, Ministry of Agriculture	0.00 A)	0.00	0.00
4.4	Support for the development of non-motorised transport, especially cycling	IROP 2014-2020	Ministry of Transport	0.00 A)	0.00	0.00
4.5	Public transport – renovation of trolleybuses in Žilina	Munseff	Commission, EBRD, ESG	0.00	0.59	4.13
<b>Transport – total</b>				<b>0.00 A)</b>	<b>88.07</b>	<b>616.52</b>

Notes:

A) Savings in 2013 were factored into the evaluation under the 3AP.

Table 5: Summary overview of measures in the appliance sector in 2013 and 2014, and cumulative savings for 2014 up to 2020

No Measure	Measure title	Financial mechanism	Responsible ministry/organisation	Energy savings (FEC)		
				2013	2014	Σ(2014-2020)
				[TJ/year]	[TJ/year]	[TJ/year]
2.1	White goods replacement	Own funds, special offers from retailers and manufacturers	CECED	151.62	138.45	969.14
2.2	Energy-saving lighting	Own funds, special offers from retailers and manufacturers	CECED	0.00	0.00	0.00
2.3	Replacement of electric and electronic household equipment	Own funds, special offers from retailers and manufacturers	CECED	0.00	0.00	0.00
2.4	Replacement of office equipment	Own funds, special offers from retailers and manufacturers	CECED	0.00	0.00	0.00
2.5	Application of legislative measures	Energy labelling, Ecodesign	Ministry of Economy	A)	A)	0.00
2.6	Information campaigns aimed at energy-saving appliances	CECED, consumer associations, retailers, Ministry of Economy, Slovak Innovation and Energy Agency	CECED, Ministry of Economy/Slovak Innovation and Energy Agency <sup>7</sup>	A)	A)	0.00
2.7	Introduction and operation of a system to monitor the replacement of white goods and other appliances and equipment on the market	Statistical Office of the Slovak Republic, Slovak Innovation and Energy Agency, CECED, consumer associations	CECED, Statistical Office, Ministry of Economy/ Slovak Innovation and Energy Agency <sup>7</sup>	A)	A)	0.00
<b>Appliances – total</b>				<b>151.62</b>	<b>138.45</b>	<b>969.14</b>

Notes:

A) This measure as an indirect effect on energy savings already factored into investment measures.

<sup>7</sup> Financing reflected in the budget for the energy efficiency monitoring system (OP Environmental Quality 2014–2020), see 2.3 Horizontal measures under 3AP.