	SECAP Mitigation Strategy	Project Elements - Expected Costs and Results Public institutions energy renovations (Energy Efficiency Obligation Scheme (EEOS) co-financing, Energy communities)					Project Elements - Expected Costs and Results Pétervárad u 2. Municipality building and social housing energy renovation (Energy Efficiency Obligation Scheme (EEOS) co-financing, Block heating supply)					Project Elements - Expected Costs and Results Energy Information Office (ZEKI)					Project Elements - Expected Costs and Results ALL support systems (GPP, Residential Renovation Fund, Budapest Zöld Panel Program, Energy communities, Green walls and roofs)				
SECAP Chapter Page #	Key Actions		Investment cost EUR	Energy savings GWh/a	Ren.en. prod. GWh/a	CO_2 reduction t CO_2/a		Investment cost EUR	Energy savings GWh/a	Ren.en. prod. GWh/a	CO_2 reduction t CO_2/a		Investment cost EUR	Energy savings GWh/a	Ren.en. prod. GWh/a	CO_2 reduction t CO_2/a		Investment cost EUR	Energy savings GWh/a	Ren.en. prod. GWh/a	CO_2 reduction t CO_2/a
	MUNICIPAL BUILDINGS, EQUIPMENT/ FACILITIES		**2 410 544**	**1,553**	**1,798**	**1 020**		**6 838 192**	**2,108**	**0,626**	**998,59**		**2 000**	**3,614**	**0,000**	**793**		**0**	**0,050**	**0,000**	**23**
4.1.3.1 Page 18	*retrofitting 55 public buildings*	Deep renovation including building envelope, HVAC, lighting	2 410 544	1,553	1,798	1 020	Attic renovation, thermal insulation Thermal insulation of external walls adjoining the attic Elimination of thermal bridging	4 462 246	0,594	0,000	202,15										
4.1.3.1 Page 18	*door and window replacement of 52 public buildings*						Replacement of windows and doors according to orientation Shading of south-facing windows and doors	1 005 868	0,089		30,17										
4.1.3.1 Page 18	*modernisation of heating systems of 45 public buildings*						Zone-based central cooling system Heating and cooling control (BMS) based on smart metering and user profile, Lighting	1 300 205	1,425	0,360	646,47										
4.1.3.1 Page 18	*modernisation of indoor ligntning system of 58 public buildings*																				
4.1.3.2 Page 21	*Replacement of old electronic equipment (300)*																				
4.1.4 Page 22	*photovoltaics on 83 public buildings*						Solar PV system installation	69 873		0,266	119,80										
4.1.2 page 18	*Establishment and Operation of an Energy Advisory Office (ZETI)*											Setting up ZETI (costs of set-up are included here, the costs of development of materials and the energy and CO2 results of actions are included in other rows)	0	0,000	0,000	0					
4.1.5 Page 25	*Environmentally conscious consumption, operation (training for employees)*																				
4.1.6 Page 26	*Green procurement*																Development of GPP (Estimation based on OECD (2024), Harnessing Public Procurement for the Green Transition: Good Practices in OECD Countries, OECD Public Governance Reviews, OECD Publishing, Paris, https://doi.org/10.1787/e551f448-en.)	0	0,050	0,000	23
4.1.1 page 17	*Municipal energy management database and feedback to institutions on consumption*											Development of energy database and access platform to institutions	2 000	0,839	0,000	161					
New	*Increasing energy consciousness*											Energy-efficient user behaviour (SECAP estimate)		2,775		633					
	TERTIARY BUILDINGS, EQUIPMENT/FACILITIES		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0,00**		**0**	**7,725**	**0,000**	**1 780**		**0**	**0,000**	**0,000**	**0**
4.3.2 Page 31	*technological efficiency development, electricity savings*																				
4.3.2 Page 31	*technological efficiency development, natural gas savings*																				
4.3.1 Page 30	*service and industry sector photovoltaic power investments*																				
4.3.1 Page 30	*heat pump systems in tertiary sector buildings*																				
New	*Increasing energy consciousness*											Energy-efficient user behaviour (SECAP estimate)		7,725		1 780					
	RESIDENTIAL BUILDINGS		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0,00**		**0**	**10,594**	**0,096**	**2 271**		**2 472 227**	**14,879**	**0,802**	**6 619**
4.2.2 Page 28	*solar collectors*																				
4.2.2 Page 28	*heat pumps*																Estimated effects based on Expert Summary and estimated number of condominiums: Funded completed projects in 2025/2026/2027: 0/2/6	356 375	0,000	0,802	722
4.2.2 Page 28	*residential photovoltaic power investments*																				
4.2.2 Page 28	*residential wind power investments*																				
4.2.1 Page 27	*complex building reconstructions*																BZP (housing estate building renovations)	632 000	1,602	0,00	284
																	Estimated effects based on Expert Summary and estimated number of condominiums: Funded completed projects in 2025/2026/2027: 0/2/6	1 463 852	11,751	0,000	4 927
4.2.1 Page 27	*replacing large household equipments (mainly refrigerators)*																				
4.2.3 Page 29 4.7 Page 36	*awareness programmes (e.g. eco-circles)*											One-stop-shop services, awareness programmes, trainings, workshops, communication	0	0,344	0,096	83	Education/awareness programs (Estimation based on SECAP)	20 000	1,526	0,000	687
New	*Increasing energy consciousness*											Energy-efficient user behaviour (SECAP estimate)	0	10,250	0,000	2 188					
	PUBLIC LIGHTING		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0,00**		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0**
4.6 Page 36	*modernisation of public lighting system*																				
	INDUSTRY		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0,00**		**0**	**0,000**	**0,000**	**0**		**0**	**0,000**	**0,000**	**0**
4.3.2 Page 31	*technological efficiency development, electricity savings*																				
4.3.2 Page 31	*technological efficiency development, natural gas savings*																				
4.3.1 Page 30	*heat pumps in industrial buildings*																				
	LOCAL HEAT/COLD PRODUCTION		**171 253**	**0,094**	**0,088**	**45**		**0**	**0,000**	**0,000**	**0,00**		**0**	**0,000**	**0,000**	**0**		**513 159**	**0,282**	**0,264**	**132**
4.5.2 Page 35	*Connecting district heating systems, increasing the share of the geothermal and biomass*	Mixed function / energy community (Based on Expert Summary)	171 253	0,094	0,088	45,00											Mixed function / energy community (Based on Expert Summary)	513 159	0,282	0,264	132
	OTHERS		**0**	**0,000**	**0,000**	**0**		**421 269**	**0,081**	**0,000**	**27,76**		**0**	**0,000**	**0,000**	**0**		**50 715**	**0,830**	**0,000**	**440**
4.1 - 4.3	*other investments finished by 2017 (based on statistics of Central Hungarian Statistical Office)*																				
4.8 Page 38	*green walls and green roofs*						Green walls Improving environmental impacts by increasing green areas in the courtyard Street humanization	421 269	0,081	0,000	27,76						Green walls, green roofs Improving environmental impacts by increasing green areas in the courtyard (based on Shafique et al. (2018) és Pan et al. (2022) review values for moderate climate, medium scenario)	50 715	0,830	0,000	440
4.8 Page 38	*climate forest*																				
	OTHER COSTS		**6 000**					**850 000**					**0**					**0**			
	Preliminary studies		6 000					850 000													
	TOTAL		**2 587 797**	**1,647**	**1,886**	**1 065**		**8 109 461**	**2,189**	**0,626**	**1026**		**2 000**	**21,933**	**0,096**	**4844**		**3 036 101**	**16,041**	**1,066**	**7 214**