

Intersectoral action plan for mitigation of climate change impacts

Institutional and legal measures

	Problem identified	Measures	Actions	Responsible Party	Time frame	Budget EUR
1	Not approximated legislation and strategic development documents from climate change aspect	Legislation approximation and strategic development of documents from climate change aspect	Incorporate climate change adaptation measures in: <ul style="list-style-type: none"> - Spatial plan - Agricultural strategic development documents - Strategic and planning documents stemming from the draft law on waters (development of national strategy on water, finalization of water master plan and river basin management plans, including change of available and demanded water resources due to climate change impact, priority by-laws) - physical and urban plans - NEHAP¹ - Strategic impact assessment - Action plan on environment and children's health 	MEPP ² , MAFWE ³ , MTC ⁴ , MH ⁵	2008/09	III

¹ National Environmental Health Action Plan

² Ministry of environment and physical planning

³ Ministry of agriculture, forestry and water economy

⁴ Ministry of transport and communication

⁵ Ministry of health

Measures for identification, assessment and mitigation to climate change negative impact

	Problem identified	Measures	Actions	Responsible Party	Time frame	Budget EUR
2	Data unavailability for all sectors	Continuous data collection, development of databases and their management	Development of database of extremes (droughts and floods)	SHO ⁶ , MEPP, MH	2008-2010	II
			Preparation of basic maps of RM in GIS format in scale 1:50 000 (soil, vegetation, erosion, eol etc)	MAFWE, MEPP SHO	2008-2010	III
3	Climate change vulnerability	Adaptation measures	Development of adaptation programme on climate change in forestry sector	MAFWE	2008-2010	
			Production of native species plants and afforestation of 700 ha bare land/year	MAFWE, MF ⁷ , MEPP	2008-2010	I
			Identification and introduction of species resistant on climate changes, implementing measures for agricultural support	MAFWE	2009-2015	II
			Introducing adaptation measures and techniques concerning climate changes (organic matter turnover/water protection and agrotechiques) in central Povardarie	MAFWE, Public water management enterprises	2008-2010	II
			Modernization of irrigation systems in Tikves and Strumica regions	MAFWE, Public water management enterprises, scientific community	2008-2011	II

⁶ State hydrometeorological office

⁷ Ministry of finance

Monitoring

	Problem identified	Measures	Actions	Responsible Party	Time frame	Budget EUR
4	Lack of quality monitoring system for climate change impact on different sectors	Improvement of monitoring system	Establishment of ground water monitoring system (quality and quantity)	SHO, MAFWE, RIHP ⁸	2008-2011	I
			Establishing the Early Warning System in Skopje due to harmful effects of weather variables to human health, settled in RIHP	RIHP, SHO, MEPP, MAFWE, MH	2008-2010	II
			Establishing the Early Warning System for floods and droughts	MEPP, MAFWE, SHO	2008-2010	II
			Enlargement and modernization of existing network of hydro meteorological stations and introduction of monitoring on basic soil indicators	SHO, MAFWE, MEPP	2008-2011	I
			Establishment of a pilot network of mountain meteorological stations in Jakupica with vertical and slope distribution for biodiversity vulnerability assessment	SHO, MEPP	2008/09	II
			Establishment of 5 monitoring stations in forest regions through Macedonia for monitoring climate change in forestry	MAFWE, SHO, MEPP	2008-2009	I
			Monitoring of the status of upper forest border (vertical and horizontal spreading of the forest species ranges and migration of animals)	MEPP, MAFWE	2008-	II

⁸ Republic institute for health protection

Measures for strengtening capacities on institutional, systemic and individual level

	Problem identified	Measures	Actions	Responsible Party	Time frame	Budget EUR
5	Lack of capacities in institutional, systemic and individual level	Strengtening capacities in institutional, systemic and individual level	Raising climate change on higher level in relevant ministries	SHO, MAFWE, MEPP	2008	III
			Establishment of support unit within MEPP, sector atmosphere	MEPP	2008	III
			Providing additional equipment and staff in insitutions responsible for environmental monitoring	All Ministries	2008-	
			Training and equipment for water management organizations and operators	Public water management enterprises	2008-2010	II
			Training of institutions and farmers for adopting best available practices for climate change adaptation	MAFWE	2009	II
			Training of national experts for development of socio-economic scenarios regarding climate change	MEPP	2008-2009	III
			Introduction of syllabus programmes on climate change and adaptation within the educational system in RM	MEPP, MON	2009	III
			Acceptance of best laboratory practice and technique evidence based and strengthening the existing ones in order to improve the diagnostics and treatment as secondary adaptation measure	MH, HIF ⁹	2008-2015	III
			Establishment of a system for monitoring the status of biodiveristy components through monitoring of the fenology of bioindicator species; Defining climate change sensitive species	MEPP, NGOs	2008-2009	III

Budget

The cost estimation for each action is anticipated through aproximative budget categories. These categories give rough cost assessment:

- III category up to 100.000 EUR
- II category from 100.000 to 500.000 EUR
- I category more than 500.000 EUR

⁹ Health Insurance Fund