



“Global warming in EECA”

Report on National Activities towards Global Issues, Trends and Impacts

<http://www.global-issues-rtd.info/>

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Executive Summary

This report provides an analysis of collected Data about RTD programmes and initiatives to tackle the problem of global warming and Climate Change in Eastern European and Central Asian (EEACA) countries. The report was produced under IncoNet EECA Task 5.4: *Analysis of national policies towards global challenges - Data about RTD programmes and initiatives to tackle the problem of global warming.*

The purpose of this task (T.5.4) has been to analyse and document, if and how, the global S&T issues are of relevance for the Eastern European and Central Asian Countries and to establish in cooperation with other INCO - nets, a database/information system on national RTD policies and programmes on global issues.

The main objectives of this analysis are - as agreed upon at the common Inco.Nets workshop in Bled (March 2008) - to develop the technical platform (online questionnaire and homepage for data retrieval) for the information system and to collect data about national RTD policies and programmes with regard to Climate Change Research in Eastern European and Central Asian (EECA) Countries.

The present report (Update 2010) on national RTD activities towards Climate Change in EECA countries is based on information received from correspondents through web-based online questionnaire and desk research carried out by staff of Centre for Social Innovation Vienna.

Gathering of the information for building up the common database on national science policies towards global issues with regard to global warming and Climate Change Research turned out to be a big challenge, which could be accomplished only partially, due to the general problem that Climate Change research specific “programmes” do not exist yet in all EECA Countries.

The collection of data has shown that there are governmental climate change strategies in EECA Countries (often directly linked with UN Framework Convention on Climate Change UN FCCC) adopted or in preparation, which include RTD components and there are also Climate Change-related RTD programmes linked with Climate Change related sectors (e.g. Energy, Water Management, Environment, Forestry, Health) being carried out, but **specific programmes in which a coherent set of RTD activities over a wider area of scientific disciplines would have been put together with clear sources of funding could not be identified in EECA Countries.**

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0. Abbreviations

EECA	Eastern European and Central Asian
IPCC	Intergovernmental Panel on Climate Change
GEF	Global Environment Facility
GHG emissions	Greenhouse Gas emission
NGOs	Non-governmental organisations
RTD	Research and Technological Development / Research and Technology Development
S&T	Science and Technology
UNFCCC	United Nations Framework Convention on Climate Change
UNDP	United Nations Development Programme
WBC	Western Balkan Countries
WP	Workpackage
ZSI	Centre for Social Innovation, Vienna

1. INCO.Nets Global Issues RTD Programmes Information System (Realisation & Collection of Data)

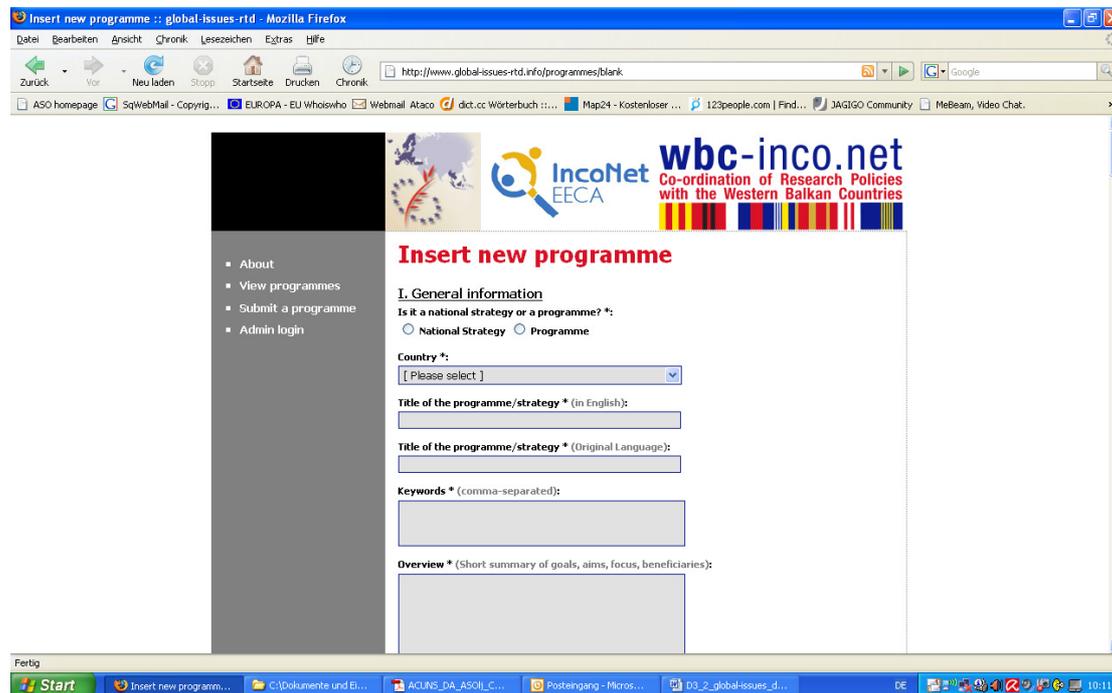
As decided at Bled INCO.Net Global Issues Workshop in March 2008 for the pilot phase of information gathering for the common database on national science policies towards global issues, the topic of “Climate Change research programmes” (climate mitigation and adaptation) has been chosen. The topic for the pilot phase has been selected among other important global issues challenges identified at the Workshop (e.g. Poverty reduction / MDGs, Energy and water scarcity, Change in the balance of economic power, Food security, Migration and conflicts (local and global), etc.), because currently Climate Change represents one of the major global problems. Furthermore, the research community from the field of Climate Change Research has shown an interest for the collection of the “Climate Change research programmes”, because until now such a database did not exist.

For the data collection for the “**INCO.Nets Global Issues RTD Programmes Information System**”, an online-survey has been chosen as main method to be applied. As agreed in Bled Workshop in March 2008, the online questionnaire tool (with information about the data collection) was developed by the Centre for Social Innovation.

The data collection template for the “INCO.Nets Global Issues RTD Programmes Information System” (for details see Annex I or <http://www.global-issues-rtd.info/programmes/blank>) offers specific fields for data entry, which clearly describe the expected categorisation and documentation of RTD programmes. The data collection template is very much oriented towards the information architecture of ERAWATCH¹ in order to develop an ERAWATCH compatible information system.

¹ ERAWATCH is (<http://cordis.europa.eu/erawatch/>) a very valuable information system of the European Commission documenting RTD programmes and policies in EU Member States as well as in some selected third countries (but not extended to the International Cooperation Partner Countries - ICPCs and not thematically focused on any global issue).

Figure 1: Global Issues RTD website



With this online tool our correspondents could enter data via internet.

For the gathering of the information, we implemented a mixed approach:

- a) Identification of local correspondents (through all IncoNet EECA project partners) to provide the requested information
- b) Complementation input by desk research at the same time.

The information for correspondents and contact persons (purposes of information collection, questionnaire in Excel format and link to online database) were distributed via email. Further information has been provided through email and telephone. With some of the correspondents, also a method of telephone interview (open question method) was chosen to gather more information about further developments in the field of Global Warming and Climate Change Issues in their countries.

The data received via the online questionnaire has been complemented also by desk research and telephone interviews, which were carried out by the Centre for Social Innovation Vienna.

The database provides a directory of submitted research programmes and other relevant documents (e.g. national strategies, national action plans), which can be accessed worldwide over the Internet by anyone. In 2010 the “search tool” of the database was updated and is now more user-friendly, based on some suggestions, which have been proposed by project partners. The data submitted are included in the online database after the approval by the database administrator. (For further information about the database see: <http://www.global-issues-rtd.info/index.html>).

2. Results and Conclusions

2.1 Summary of the received information and conclusions

Data collection for building up the common database on national science policies towards global issues with regard to Climate Change Research and Global Warming was a big challenge, which could be accomplished only partially, because of the general problem that "Climate Change Research specific programmes" do not exist yet in the Eastern European and Central Asian Countries.

Practical difficulties with data collection in Eastern European and Central Asian Countries have been as follows:

- Better and more exact definition of the terminus "Climate Change Research" is needed.
- Clear definitions and distinctions between research project, research programme, plan and strategy have to be elaborated in order to guide local correspondents in their delivery of information.
- Lack of access to information and lack of motivation to provide requested information among some of correspondents
- Lack of inter-sectoral information exchange (between Ministries of Environment, Agriculture, Science, etc.).
- Discontent over the flood of questionnaires received from European and other international stakeholders.

Through our investigation we have **identified following types of documents regarding Climate Change research:**

- National Communications to UNFCCC (chapter on RTD),
- National Strategies and National Action Plans with Climate Change research components,
- National (or Sub-national) Funding Programmes on Climate Change in Related Sectors (e.g. Energy, Environment, Water...),
- Special National Funding Programmes on Climate Change research
- Sub-regional Programmes towards Climate Change issues, and
- Other mainly smaller research projects (funded by international NGOs). For detailed information about the submitted documents see Annex II or <http://www.global-issues-rtd.info/index.html> .

Table 1: Matrix - Types of available information/documents on Climate Change Research

<i>Types of available Information/Documents on Climate Change Research</i>				
Country	National Communication to UNFCCC (chapter on RTD)	National Strategies and National Action Plans, with Climate Change Research Components	National or Sub-national Funding Programmes on Climate Change in Related Sectors (Energy, Environment, Forestry...)	Special National Funding Programmes on Climate Change Research
Armenia	x	x	x	
Azerbaijan	x			
Belarus	x		x	
Georgia	x			
Kazakhstan	x			
Moldova	x	x	x	
Kyrgyzstan	x			
Russian Federation	x	x	x	
Ukraine	x			
Turkmenistan	x			
Uzbekistan	x			

The matrix above shows, the types of information/documents which are currently available in EECA countries. (For details see chapter 2.2. of this report or <http://www.global-issues-rtd.info/index.html>).

Our investigation has shown that **all of the EECA Countries have adopted and submitted National Communications to UNFCCC**. These national communications include RTD components and some EECA countries (Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan and Ukraine) use this national communications also as national strategies to develop specific national strategies and programmes in the field of Climate Change and Global Warming. Furthermore, the investigation has shown that there are some climate change-related RTD programmes being carried out in EECA Countries, but **specific programmes in which a coherent set of RTD activities over a wider area of scientific disciplines would have been put together with clear sources of funding could not be identified in EECA**.

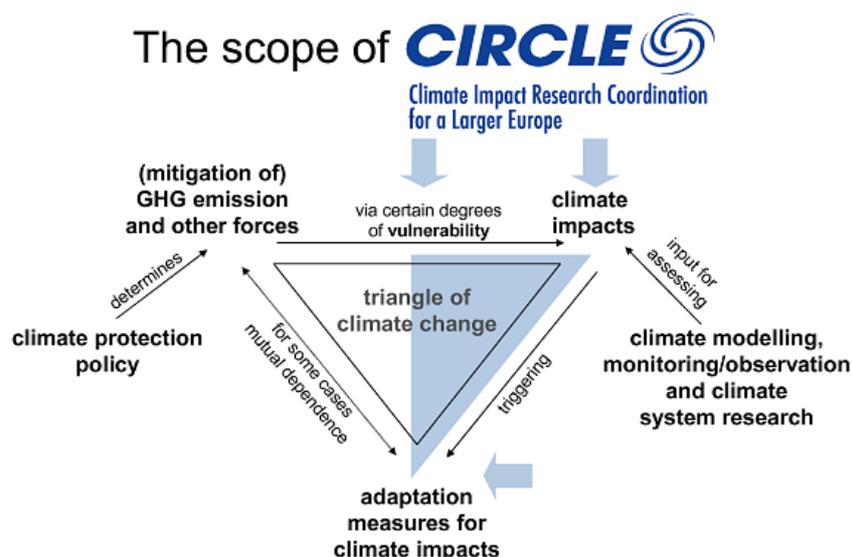
The collected data has shown, that **Armenia, Moldova and Russian Federation** have adopted also national strategies (some with action plans), where climate change impacts and adaption measures, including research are foreseen.

Armenia, Belarus, Moldova and Russian Federation have running National or Sub-national Funding Programmes on Climate Change in Related Sectors (e.g. Energy, Environment (including Climate Change), Forestry, Water Management, Health...) with strong research components, but it should be pointed out that only one submitted programme from Moldova and three submitted programmes from Russian Federation have applicable financial means for programmes to be carried out.

In **Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Ukraine, Uzbekistan and Tajikistan** national strategies in the field of Climate Change Issues/Global Warming are foreseen to be adopted by the governments in the near future.

An important European platform for coordination of Climate Change research is the **CIRCLE (Climate Impact Research for a Larger Europe) ERA-net project** www.circle-era.net. CIRCLE ERA-Net is a Coordination network of research funding and management organisations aiming at the implementation of a European Research Area (ERA) on Climate Change Impacts, Vulnerability and Adaptation. CIRCLE started in summer 2004 and is currently extending its activities within the ERA-Net frame for 2005-2009.

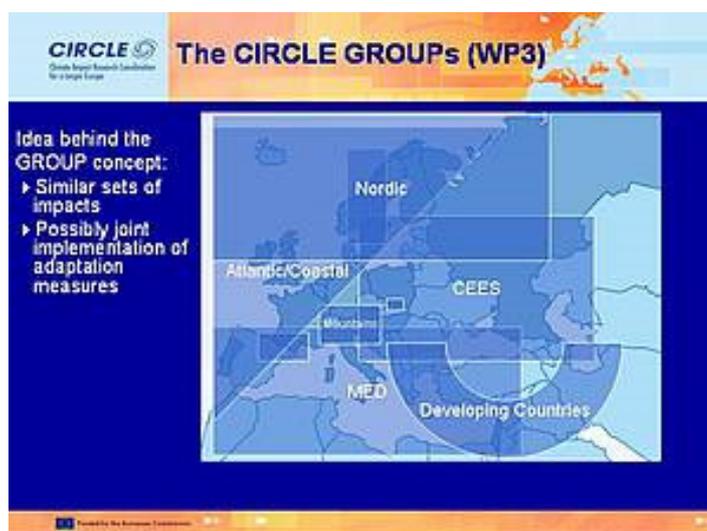
Figure 2: The scope of CIRCLE²



² See <http://www.circle-era.net/about-circle/>

A follow-up project called **CIRCLE 2 (Climate Impact Response Coordination for a Larger Europe)** has been submitted in FP7 and approved by the European Commission. The aim of CIRCLE 2³ is to actively support, based on its research funding and coordination, adaptation efforts on different scales. There are regional sub-groupings (like for instance a Central and Eastern European group of countries) with special joint calls planned and partially already active in CIRCLE.

Figure 3: CIRCLE regional sub-groupings⁴



As mentioned above, a very **recommendable way** of know-how transfer from climate change research frontrunner countries of ERA to Eastern European Countries would be to participate in CIRCLE2 as observers. (Center for Environmental Research and Training, Institute of Monitoring of Climatic and Ecological Systems, Siberian Branch of the Russian Academy of Science is observer in FP6 CIRCLE – (see <http://www.circle-era.net/circle-team/>)).

In general it can be said – based on the discussions that took place at CIRCLE Final and Outlook conference which was held in Vienna (9 September, 2009) and based on the findings of the investigations within this deliverable D5.8 - that there are huge

³ See http://cordis.europa.eu/fetch?CALLER=FP7_PROJ_EN&ACTION=D&DOC=1&CAT=PROJ&QUERY=012b7a1528a3:dc0e:3891ef17&RCN=96260

⁴ See: <http://www.circle-era.net/geographical-groups/>

gaps existing even in EU member states regarding information systems on climate change-related research. Climate Change Impact, Mitigation and Adaptation has implications for very many sectors (environment, economy, energy, forestry, to name only some of them) and thus there are climate change-related research activities carried out by several public authorities with often limited coordination even on a national level. If sub-national/provincial level and local level (which is actually most important for climate change adaptation) are added to the observation, it becomes clear that building up of information systems on climate change research is a very important but yet by far unfinished task even in very develop countries.

Our investigation shows (2010) that Ukraine (some of its regions) and Moldova are also participating in the South East Europe Programme⁵ which aims to develop transnational partnerships on matters of strategic importance, in order to improve the territorial, economic and social integration process and to contribute to cohesion, stability and competitiveness of the region. For this purpose, the programme seeks to realize high quality, result oriented projects of strategic character, relevant for the programme area. One of the priorities is also *Protection and improvement of the environment* (SEE programme's priority axis)

http://www.southeast-europe.net/en/about_see/programme_presentation/

The information collected under task *Task 5.4 Analysis of national policies towards global challenges - Data about RTD programmes and initiatives to tackle the problem of global warming* can **be regarded as a status quo analysis**, which can help identify knowledge and coordination gaps in EECA that can be addressed in the next phase in policy dialogue activities (this topic could be addressed and discussed in a cross-regional comparison with other INCO.Nets at the Global Issues conference which is planned within IncoNet EECA).

It is also **proposed** to provide, within the FP7 Capacities programme, the opportunity to develop some kind of **thematic global INCO.Net on Climate Change research**, which would provide the policy dialogue platform for a cross-regional thematic approach to the challenge of building-up collaboratively an ERA-Watch compatible **global information system on climate change research** (e.g. Global research area information clearing house on climate change).

From some of our correspondents from EECA Countries, we have received also the information that Climate Change Research is more project-based driven. This means

⁵ See: http://www.southeast-europe.net/en/about_see/participating_countries/

that Climate Change research depends on available international funding by EU, individual EU member state governments, US-American NGOs, UNDP and other international governmental organizations (United Nations system) or other international NGOs.

One lesson learnt is certainly the experience that local correspondents don't provide the requested data unless they are continuously contacted, motivated and informed by the data base administrator. The only viable solution might be perhaps even to build-up a national (or regional) correspondents-network and to pay these experts (as it is being done within ERA-Watch).

The second very important lesson learnt is that significant efforts should be invested in the area of development of sophisticated guidelines for data collection. Such guidelines should give clear answers how to interpret the term "climate change research", where to draw delimitations, etc.

Some further information about current and expected developments in each of the covered EECA countries are available at the links to further information sources provided by correspondents (See Annex II or <http://www.global-issues-rtd.info/programmes/list>).

As this has been a pilot case with "climate change" as a major "global issue" and with EECA countries comprising a manageable number of countries, it can be said that the exercise has been especially useful, unveiling very valuable insights into potentials for improvement of the data collection approach for building-up a common (global) database on national science policies towards global issues with other INCO.nets and other INCO projects.

Cooperation in this regard is clearly foreseen with the projects SEA-EU-NET (focused on South-East Asia) and WBC-INCO.Net (focused on Western Balkan Countries), which have already used the same method to gather data that is also available at <http://www.global-issues-rtd.info/programmes/list>.

2.2 Short Information on Recent Climate Change Research Issues Developments in EECA Region (by country)

Armenia

Types of Documents submitted: 2 national strategies/ 1 programme / 1 sub regional programme

Our correspondent from Armenia has submitted 3 documents: national programme, national strategy and one sub-national programme, which were adopted and are administrated by the Armenian government and supported by Global Environmental Facility - GEF and UNDP. “**Sustainable Development Programme**” beside other fields targets the Armenian environmental policy (including climate change, GHG emissions, energy). Second submitted strategic document is the “**Agricultural Sustainable Development Strategy**” in which the agrarian sector is targeted and includes also Climate Change issues. Both documents include research components.

The third submitted document is the sub regional programme/project with research component dealing with “**Adaption to Climate Change Impacts in Mountain Forest Ecosystem in the Syunik region**”.

Our desk research has shown that in September 2010 the Armenian government submitted the **Second National Communication to UNFCCC**. This document was prepared together by Armenian Government, UNDP and Global Environmental Facility (GEF). The document includes several measures regarding RTD policy in chapter 5 “Climate Change Impacts, Vulnerability Assessment and Adaptation”.

Currently Armenia has no specific national research programme on Climate Change. Most of the research institutions dealing with Climate Change Research collaborate in different research projects, based on UNDP or other international NGOs funding. Currently several activities are funded by the Danish Government
Further Information: <http://www.nature-ic.am>.

Azerbaijan

Type of Document submitted: 1 national strategy

Azerbaijan adopted the “**First National Communication to UNFCCC**” in 1998. In that document the Climate Change research (problem-driven) and monitoring are foreseen. In 2001 an additional document to the first communication to UNFCCC has been adopted by the government entitled “Initial National Communication of Azerbaijan Republic” in which several measures regarding problem-driven research in the field of water management, environment, energy, are foreseen.

At the moment UNDP – Azerbaijan Office, together with the Government of Azerbaijan, is developing the new strategy (Second National Communication to UNFFCC) and the Strategic Environmental Assessment programme. It is foreseen that the Second National Communication to UNFCCC will be submitted to the UNFCCC in 2011 (see <http://www.un-az.org/undp/Energy/fs-SNC.pdf>).

At this time, Azerbaijan has no special national programme on Climate Change Research.

Useful link for further information about the current developments:

<http://www.un-az.org/undp/sehife.php?lang=eng&page=0203>.

Belarus

Types of Documents submitted: 2 national programme and state programme

Two programmes dealing with Climate Change issues have been submitted by our correspondent from Belarus.

The first one is the “**State Programme of Innovative Development of the Republic of Belarus**”, which is linked with national policy in environment management and implementation of innovative eco-friendly technologies and was developed in conformity with the National Sustainable Development Strategy by 2020, National Action Plan for Rational Use of Natural Resources and Environmental Protection for 2006-2010, National Programme of Measures to Mitigate the Consequences of Climate Change for 2008-2012 (elaborated in order to fulfil commitments of the Republic of Belarus under the UN Framework Convention on Climate Change) and also other concerned target strategies.

The second submitted document is “**National programme of Measures to Mitigate the Consequences of Climate Change**”. Both submitted documents include strong research component (applied industrial research). (For further Information see Annex II or http://www.global-issues-rtd.info/programmes/list?filter_country=BY). Useful links for recent developments in Belarus in the field of Climate Change Issues: <http://www.climate-by.com/pages/oficialnye-dokumenty.aspx> and <http://un.by/en/undp/focus-areas/energy/>)

Georgia

Type of Document submitted: 2 national strategies

Georgia adopted the “**Initial National Communication to UNFCCC**” in 1999. In this document the Climate changes research (problem-driven) is foreseen for different fields and sectors (e.g. Energy sector, Environment (including Climate Change), Water Management, etc.).

Most of the research institutions dealing with Climate Change Research in Georgia collaborate in different smaller research projects, based on UNDP, USAID or other international NGOs funding.

At the end of 2009 Georgia submitted the “**Second National Communication to the UNFCCC**” which was prepared by the Ministry of Environment Protection and Natural Resources and United Nation Development Programme. Chapter 6 of this document reviews the projects and programmes which are directly or indirectly related to the climate change problem (see p. 211). In sub-chapter 6.1 “Climate change research and systematic observation” several measures regarding RTD policy are foreseen.

Useful link for further information about the current developments:

<http://www.moe.gov.ge/index.php?site-lang=en&site-path=mainpage>http://www.usaid.gov/our_work/environment/climate/country_nar/georgia.html
http://www.climatechange.telenet.ge/cdm_web/institutional.html

Kazakhstan

Type of Document submitted: 1 national strategy

Kazakhstan currently has no running national Climate Change research programme. However, in 2009 the Kazakhstan government adopted the “**Second National Communication to UNFCCC**”, which includes importance of research regarding climate change issues (problem-driven research). Currently, the Kazakhstan Climate Change Coordination Centre is developing a programme “Institutional strengthening of national systems to reduce GHG emissions”, which is supported by the Government of the United Kingdom.

In the near future the Kazakhstan government plans to develop a National Energy-Saving Programme including creation of conditions for development of renewable energy sources and increase of energy-efficiency of economy sectors; to launch the priority pilot projects on GHG emissions reduction, energy-saving, new technologies introduction; to develop and approve at the governmental level the National Strategy on Climate Change.

Further Information: <http://www.climate.kz/eng/?m=html&cid=19>.

Kyrgyzstan

Type of Document submitted: 1 national strategy

In the year 2009 the “**Second Kyrgyz National Communication to the UNFCCC**” has been adopted and submitted by Kyrgyz Government. This document includes problem-driven research in the field of global warming and Climate Change in

different fields and sectors. Currently (2010) the Kyrgyz Government cooperates with the UNDP and the Global Environmental Facility (GEF) in different climate change/global warming related activities (see: <http://www.undp.kg/en/media-room/news/list/news-list/15-environment>). Information about further governmental activities in the field of Climate Change Issues is available at: <http://eng.gov.kg/>

Moldova

Types of Documents submitted: 2 programmes

Two documents (programmes) dealing with Climate Change issues have been submitted by our correspondent. The first one is the “**Development of the technologies for producing and utilization of the renewable sources of energy based on agricultural raw materials and waste**”, in which problem-driven research is focused on development of technologies and tools for obtaining bio-fuels from sorghum and from agricultural waste, for adaptation of the internal combustion engines for its exploitation and development of framework for production and commercialization of fluid bio-fuels. The second submitted document is “**National programme on Ecological Security 2005-2015**” in which the research dimension includes various investigations in biology, chemistry, geography (GIS) and other fields. Further information on recent developments: <http://www.mediu.gov.md/md/pr/>.

Russian Federation

Types of Documents submitted: 1 strategy, 3 programmes and 1 action plan

Five documents dealing with Climate Change Issues have been submitted by our correspondent. First submitted document is the “**Integrated Plan of Action in order to implement the Kyoto Protocol to the UNFCCC in the Russian Federation**”. The Action Plan contains a list of activities, performance indicators, values of performance indicators for 2004 and 2008, delivery dates and responsible organizations till 2010.

Second submitted document is the **Russian federal target programme “Prevention of dangerous climate changes and their negative consequences”**. This programme aims to meet Russia’s commitment within the framework of the UN Convention on climate change, as well as prevention of negative consequences of climate change on population’s health and country’s economy. Programme ended in 2001 and is related to the document “*Strategic Forecast of Climate Change in the RF for the years 2010-2015 and its Influence on Industries*”. Target fields of this programme are Energy, Environment (including Climate Change) and Health and it contains strong research component (applied industrial research).

The third submitted document is the **Russian federal target programme “Energy-efficient Economy” for the years 2002-2005 and till 2010**”, of which the main

target sector is Energy. This programme has strong research component (problem-driven research and applied industrial research). Programme is aimed at transition of the Russian economy to energy-saving development path, reliable provision of energy resources to industries, decrease of production costs in energy sector, preserving and widening of fuel and energy complex export potential. The programme aims to decrease energy-output ratio of GDP on the basis of energy-saving policies in Russia's industries, as well as reliable provision for economy's demand for energy-efficient fuel and energy resources, at the same time assuring minimum charges for end users. Further information: <http://www.mnr.gov.ru>.

The fourth submitted document (2010) is "**Climate Policy of the Russian Federation**". The policy (doctrine) is aimed at adaptation of the country's economy to current and expected climate change. The document is meant as a basis to: - state the existing and expected climate change; - characterize these changes; - states the task for ministries and state agencies to take this change into consideration in various social and economic policies; - suggests a two-fold response to climate change: (1) prevention of climate change through energy efficient technologies, modernization of economy and limiting the consumption of natural resources; (2) adaptation of country's economy to these changes. The document asserts the global character of Russia's interests in the area of climate change and its consequences. It also states the priority of national interests in climate change policy development and implementation.

The fifth submitted document (2010) is "**Federal Targeted Programme "R&D in Priority Fields of the S&T Complex of Russia (2007-2012)"**". This Programme has a complex character and aims to provide support to science and technology as a part of innovation system. Programme's priorities are built on the bases of the List of Crucial Technologies approved by the President on May 21, 2006. New List will be approved in 2010. Overall budget of this programme is 5,57 Bln Euro.

Further information:

<http://www.budgetrf.ru/> /

<http://www.meteorf.ru/>

<http://minenergo.gov.ru/>

<http://www.gov.ru>

Ukraine

Types of Documents submitted: 1 national strategy

The Ukraine has adopted "**Second National Communication to UNFCCC**" in 2006. In that document the importance of research (problem-driven) regarding climate change issues is included. Currently, the Ministry of Environmental Protection is developing National Action plan, which is currently under discussion. Information

about further developments will be available at:
http://www.kmu.gov.ua/control/en/publish/article?art_id=91651&cat_id=73007.

At this time (2010), Ukraine has no special national research programme on Climate Change. However, most of the research institutions in Ukraine dealing with Climate Change Research collaborate in different research projects, based on UNDP or other international NGOs funding (List of ongoing projects: <http://www.undp.org.ua/en/energy-and-environment> and <http://www.climate.org.ua>)

Tajikistan

Types of Documents submitted: 1 national strategy

The Tajikistan government adopted “**Second national Communication to UNFCCC**” in 2008. In this document the problem driven research is included in all sectors.

Currently the Tajikistan’s Government is cooperating with UNDP in several Environmental and Energy projects and programmes.

Further information about current developments:

http://www.undp.tj/index.php?option=com_content&task=blogcategory&id=85&Itemid=129

Uzbekistan

Types of Documents submitted: 1 national strategy with national climate program

In 2008 the Government of the Republic of the Uzbekistan adopted the “**Second National Communication of the Republic of Uzbekistan under the United Nations Framework Convention on Climate Change**”, which includes also the research components. In the frame of this document also the National Climate Programme is foreseen. The main objective of this programme will be to provide the government, organizations and the population with information on the weather and climate.

Uzbekistan currently has no running national Climate Change research programme.

Information on further developments available at: <http://www.climate.uz/en/>

Annex I – Data Collection/Questionnaire Template

I. General information	
Country	
Type of the Document:	Programme/Strategy/Other
Title of the Programme/Strategy (in English)	
Title of the Programme/Strategy (Original language)	
Keywords	
Overview (Short summary of goals, aims, focus, beneficiaries)	
Background and rationale (Explain the rationale of the programme/Strategy in relation to the national research system)	
II. Detailed information	
Start date	
Expected end date	
Research Policy Priorities Targeted (More than one answer possible)	Basic research
	Problem driven (basic) research
	Pre-competitive research
	Applied industrial research
	Social sciences research
	Knowledge transfer (between researchers)
	Human resources development
	International research collaboration
	Networking
Additional comments	
Relation to other Programmes (Please describe if/how the programme relates to other programmes)	
The programme was inspired by (More than one possible answer)	Inspired by an existing programme of another country
	Inspired by national policy debate (e.g. study, consultative review, etc.)
	Inspired by need to meet EU level policy objectives
	Programme is novel
	Other (Please explain)
Geographic coverage (If the programme only concerns certain region(s) of the country, please mention them)	
Target group(s) (or beneficiaries of the programme and	All companies

also which group (s) are eligible to apply for funding (more than one possible answer - please make it bold))	SMEs only
	Consultancies and other private service providers (for-profit)
	Scientists/researchers (as individuals)
	Higher education institutions research units/centres
	Other non-profit research organisations (not HEI)
	Higher education institutions (education function)
	Other public education institutions (secondary, etc.)
	Private institutions for education / lifelong learning
	Technology and innovation centres (non-profit)
	Business organisations (Chambers of Commerce...)
	New technology based firms/ new knowledge intensive service firms
	Others
Research Themes and Disciplines of Research Targeted (Please describe briefly the thematic orientation of the programme)	
Target fields (Please indicate which categories/themes are relevant in the program) (More than one possible answer)	Health
	Environment
	Energy
	ICT
	Biotechnology
	Food and Agriculture
	Socio-economic sciences and the Humanities
	Nanotechnology, nanosciences, materials and new production technologies
Other (Please specify)	
Overall implementation structure of the programme (Brief description of the way in which this programme is implemented, in terms of its organisation (e.g. as series of subprogrammes or around themes)	
Subprogramme structure (Please briefly describe (if any))	
Management structure (How is the programme managed, which are the cycles of operation?)	
Selection of Projects (Please indicate if there are fixed calls for participation and list the selection criteria)	

Openness to other countries (Please indicate under what conditions are participants from EU or third countries able to participate and/or get financing from this programme)	
Mode of funding (More than one possible answer)	Grants
	Subsidized loans (including interest allowances)
	Venture capital (including subordinated loans)
	Guarantees
	Tax incentives (including reduction of social charges)
	Other (Please specify)
	No direct funding provided
Co-financing sources (other than national public sources of funding)	
Eligible costs (More than one possible answer)	Labour costs (including overheads)
	Infrastructure (buildings)
	Equipment
	Training (including study trips)
	External expertise (consultants, studies, etc.)
	Other (Please specify)
Overall budgeted of the programme (in EUROS)	
Additional Comments	
III. Results, Evaluation and Impact	
Measurement of outcomes (Please indicate if any indicators were publicly specified ex ante)	Yes
	No
Programme Evaluation (more than one possible answer)	Ex-ante
	On-going/Mid-term
	Final/Ex-post
	Additional Comments
Results (Publication and exploitation: is there any information on exploitation of this programme)	
Further Developments (Please indicate if the outcome of the programme led to an extension or renewal of the programme)	
IV. How to find out more	
Information Source (URL - website, reports)	
Funding Agency (Name and URL)	
Launching Agency (Name and URL)	
Administering Agency (Name and URL)	

Correspondent name and Institution, contact details (Person who fill in this questioner)	
Date of Submission	

Annex II – Summary of Received Information – Eastern European and Central Asian Countries – EECA

(available also at <http://www.global-issues-rtd.info/programmes/list>)

Country	Type of the Document / Geographic coverage	Title of the Document (English/ National Language)	Start Date-End Date (expected)	Research policy priorities targeted	Target group(s)	Research themes and disciplines of research targeted	Target fields	Overall budget	Founding Agency/ Administrating Agency	further information	Link (Global Issues Database)
Armenia	Other/Armenia with main focus on the Syunik region	Adaptation to Climate Change Impacts in Mountain Forest Ecosystems of Armenia/ Կլիմայական փոփոխությունների նկատմամբ Հայաստանի լեռնային անտառների էկոհամակարգերի հարմարվողականության բարձրացումը	01/06/2008 - 01/06/2012	Problem driven (basic) research	Other -local communities, local self-governments	The project will help mitigate environmental (including socioeconomic) costs of disturbance processes exacerbated by climate change, and maintain societal values of the current ecological and related economic systems: conservation of the priority species and habitats, and improved forest management and forestry practice.	Environment (including Climate Change)	N/A	Government of Armenia and International Organizations (UNDP, GEF) http://www.gov.am / Center of Ideas and Technologies	Center of Ideas and Technologies http://www.nature-ic.am/ Correspondent: Anahit Khachikyan anip@sci.am	http://www.global-issues-rtd.info/programmes/285.html
	National Strategy/Armenia	Sustainable Development Program/Վայրեն զարգացման	30/10/2008 - N/A	Other -Environmental policy	Other - The strategy targets all private and public entities	N/A	Energy, Environment (including Climate	N/A	Administrating Agency Government of the republic of Armenia.	Center of Ideas and Technologies http://www.nature-ic.am/ Correspondent:	http://www.global-issues-rtd.info/programmes/277.html

		ծրագիր			involved in all fields of the economic activity of the country		Change), Health		http://www.gov.am/en/	Anahit Khachikyan anip@sci.am	
	-National Strategy/Armenia	Agricultural Sustainable Development Strategy/ Գյուղատնտեսության կայուն զարգացման ռազմավարություն	01/05/2006 – N/A	Other - Sustainable and dynamic progress in the agrarian sector.		Agrarian sector	Other - Food and Agriculture	N/A	Administrating Agency Government of the republic of Armenia. http://www.gov.am/en/	Center of Ideas and Technologies http://www.nature-ic.am/ Correspondent: Anahit Khachikyan anip@sci.am	http://www.global-issues-rtd.info/programmes/272.html
	-National Strategy/Armenia	Armenia's Second National Communication to the UNFCCC / Հայաստանի Հանրապետության երկրորդ ազգային հաղորդագրություն	7/9/2010 – N/A	Other -Environmental policy	N/A	N/A	Biotechnology Energy Environment (including Climate Change) Food and Agriculture Health Socio-economic sciences and the Humanities		REPUBLIC OF ARMENIA MINISTRY OF NATURE PROTECTION http://www.nature-ic.am/	http://www.nature-ic.am/	http://www.global-issues-rtd.info/programmes/2175.html
Azerbaijan		“First National Communication to the UNFCCC”	1998-N/A	Problem-driven research	All companies, Higher education institutions research units/centres		Energy, Environment (including Climate Change)	N/A	Government of Azerbaijan	http://unfccc.int/resource/docs/natc/azenc1.pdf	http://www.global-issues-rtd.info/programmes/1567.html?saved=1

Belarus	National Programme/ Belarus	State Programme of Innovative Development of the Republic of Belarus for 2007- 2010/ Государственная Программа инновационного развития Республики Беларусь на 2007-2010 годы	26/03/2007 - 31/12/2010	Applied industrial research, Other - Applied industrial and environment research •building up national innovation system •cultivating the economic, legal and socio-cultural environment, including innovations in utilization of secondary energy resources •economy and energy security •developing eco-friendly technologies (penetration of biogas technologies, rational use of biomass, restoration of worked out peatlands and mires et al.)	All companies, Others- All executors of R&D and innovative projects of the Programme including those in the sphere of climate and environment are selected by competition.	Climate and environment: R&D on impact of anthropogenic greenhouse gases' emissions on climate, environmental and economic impact assessment of climate change, as well as measures aimed at mitigation of this impact. R&D on increasing the efficiency of forestry and its' development, including rational use of biomass, as well as restoration of degraded peatlands and bogs.	Environment (including Climate Change), Other - Forestry, Restoration of Degraded Peatlands	N/A	State Committee for Science and Technology (http://www.gknt.org.by), Ministry for Environment Protection and Use (http://www.minpriroda.by), Ministry of Forestry (http://www.mlh.by/en/forestry/resources.html),/ Branch ministries, agencies and institutions of Belarus	http://www.gknt.org.by http://www.government.by/public http://www.minpriroda.by http://www.mlh.by/en/forestry/resources.html http://www.climate-by.com/Pages/Default.aspx?lang=en http://www.polesie-wetlands.by http://www.peatlands.by http://belisa.org.by Correspondents: Olga Meerovskaya, mab@bsu.by; Natallia Rybianets meerovskaya@fp7-nip.org.by	http://www.global-issues-rtd.info/programmes/317.html
	National Programme/ Belarus	National Programme of Measures to Mitigate the Consequences of Climate Change/ Национальная программа мер по смягчению последствий изменения климата на 2008-2012 годы		Applied industrial research, (Other - Applied industrial and environment research •Wider use of nontraditional and renewable energy sources •Increasing the efficiency of power generators •Utilization of secondary energy resources •Utilization of methane from polygons of solid municipal wastes for	All companies; All executors of R&D and innovation projects aimed at Mitigation of the Consequences of Climate Change are selected by competition.	Energy and resource use efficiency, new and renewed energy sources, technologies for bending and storage of CO ₂ , non-traditional methane resources. R&D on impact of anthropogenic greenhouse gases' emissions on climate, environmental and economic impact	Energy, Environment (including Climate Change), Other (Forestry, Restoration of Worked out Peatlands), Socio-economic sciences and the	N/A	Ministry of National Resources and Environment of Belarus/ Individual ministries, agencies and institutions of Belarus	Correspondents: Olga Meerovskaya, mab@bsu.by; Natallia Rybianets meerovskaya@fp7-nip.org.by	http://www.global-issues-rtd.info/programmes/316.html

				energy accumulating •Penetration of biogas technologies in the processes of organic wastes circulation •Increasing the efficiency of forestry and its' development, including rational use of biomass •Restoration of worked out peatlands and bogs.)		assessment of climate change on the territory of Belarus, as well as measures aimed at mitigation of this impact. R&D on increasing the efficiency of forestry and its' development, including rational use of biomass, as well as restoration of worked out peatlands and bogs	Humanities				
Georgia	National Strategy	“ Initial National Communication to the UNFCCC”	1999- N/A	Basic research, Problem driven (basic) research), Higher education institutions research units/centres, Other non-profit research organisations (not HED), Other public education institutions Others	N/A	Biotechnology, Energy, Environment (including Climate Change), Agriculture Socio-economic sciences and the Humanities	N/A	Government of Moldova	http://unfccc.int/resource/docs/natc/geonatl.pdf	http://www.global-issues-rtd.info/programmes/1573.html
	National Strategy	Georgia's Second National Communication to the UNFCCC	2009 – N/A	Other -Climate change research and systematic observation (see sub-chapter 6.1.)	N/A	N/A	Biotechnology Energy Environment (including Climate Change) Food and	N/A	Ministry of Environment Protection and Natural Resources - http://www.moe.gov.ge		http://www.global-issues-rtd.info/programmes/2177.html

							Agriculture Health ICT Nanotechnology, nanosciences, materials and new production technologies Socio- economic sciences and the Humanities				
Kazakhstan		“Second National Communication to the UNFCCC”	2009- N/A	Problem driven (basic) research	All companies, Higher education institutions (education function), Higher education institutions research units/centres, Other non-profit research organisations (not HEI)	N/A	Energy, Environment (including Climate Change), Food and Agriculture, Health	N/A	Government of Kazakhstan	http://unfccc.int/resource/docs/natc/kaznc2e.pdf	http://www.global-issues-rtd.info/programmes/1574.html

Kyrgyzstan	National Strategy	Second National Communication of the Kyrgyz Republic to the UN Framework Convention on Climate Change	2009 – N/A	Other – Environmental policy	Other - The strategy targets all private and public entities involved in all fields of the Environment	N/A	Energy, Environment (including Climate Change), Food and Agriculture, Health	N/A	Ministry of Ecology and Emergencies of the Kyrgyz Republic	http://unfccc.int/resource/docs/natc/kyrnc2e.pdf	http://www.global-issues-rtd.info/programmes/2184.html
Moldova	Programme/ Moldova	Development of the technologies for producing and utilization of the renewable sources of energy based on agricultural raw materials and waste/ Elaborarea tehnologiei de producere si utilizare a surselor energetice renovabile în baza materiei prime si deseurilor agricole	01/01/2004 - 31/12/2008	Applied industrial research	Others - All research units which are accredited as research organizations by National Council for Accreditation and Attestation	The research projects are focused on development of technologies and tools for obtaining bio-fuels from sorghum and from agricultural waste, for adaptation of the internal combustion engines for its exploitation and development of framework for production and commercialization of fluid bio-fuels.	Energy	N/A	Government of Moldova, www.gov.md / Academy of Sciences of Moldova, www.asm.md	Correspondent: Cuciureanu Gheorghe; cuciureanu@asm.md	http://www.global-issues-rtd.info/programmes/258.html
	Programme/ Moldova	National Program on Ecological Security for 2007-2015/	01/04/2007 - 31/12/2015	Networking, Problem driven (basic) research	Higher education institutions (education function),	Due to a broad covering of the program the research dimension includes various	Energy, Environment (including Climate	N/A	Ministry of Ecology and Natural Resources/ Ministry of	http://www.mediugov.md/md/pr/ Correspondent: Cuciureanu Gheorghe;	http://www.global-issues-rtd.info/programmes/234.html

		Programul national de asigurare a securitatii ecologice pentru anii 2007-2015			Higher education institutions research units/centres, Other public education institutions (secondary, etc.), Others (Governmental institutions, local authorities, NGOs), Scientists/researchers (as individuals)	investigations in biology, chemistry, geography (GIS) and other fields. For example, Academy of Sciences of Moldova has to provide scientific support on foundation of 2 Botanical gardens (Cahul and Balti), 1 National park (Orhei), and elaboration of National informational system on biodiversity conservation.	Change)		Ecology and Natural Resources (overall coordination) Academy of Sciences of Moldova (coordination of scientific part)	cuciureanu@asm.md	
	Programme/ Moldova	National Strategy on reduction and elimination on persistent organic pollutants in the Republic of Moldova/ Strategia Nationala privind reducerea și eliminarea poluantilor organici persistenti	01/11/2004 - 31/12/2010	Problem driven (basic) research	Consultancies and other private service providers (for-profit), Other non-profit research organisations (not HEI), Scientists/researchers (as individuals)	The National Implementation Plan is performing through projects, completed ("Enabling Activities related to the implementation of the Stockholm Convention in the Republic of Moldova", Grant for Preparation of Sustainable Persistent Organic Pollutants (POPs) Stockpiles Management Project, Moldova National Chemicals	Environment (including Climate Change)	10 Million EURO	The Ministry of Ecology and Natural Resources with support of international donor organizations, www.mediu.gov.md / POPs Sustainable Management Office, E-mail: info@moldovapops.md Web: www.moldovapops.md	http://www.moldovapops.md ; Correspondent: Cuciureanu Gheorghe; cuciureanu@asm.md	http://www.global-issues-rtd.info/programmes/256.html

						Management Case Study) and ongoing (POPs Stockpiles Management and Destruction Project, Canadian Grant for the Remediation of POP Pesticides Polluted Areas and Clean-Up of PCB Contaminated Oil in Power Equipment, SAICM Project)					
Russian Federation	Other - integrated Plan of Action / Russian Federation	Russian Government (2004). Integrated Plan of Action in order to Implement the Kyoto Protocol to the UNFCCC in the Russian Federation/ Комплексный план действий по реализации в Российской Федерации Киотского протокола к рамочной Конвенции ООН об изменении климата	15/07/2007 - 31/12/2010	Applied industrial research	All companies, Others - All sub-contractors (state order) for R&D and innovation projects, aimed at emissions' reduction and better absorption of greenhouse gases, selected by competition	Energy and resource use efficiency, new and renewed energy sources, technologies for bending and storage of CO2, non-traditional methane resources. R&D on impact of anthropogenic greenhouse gases' emissions on climate, environmental and economic impact assessment of climate change on the RF, as well as measures aimed at mitigation of this impact.	Energy, Environment (including Climate Change), Socio-economic sciences and the Humanities	N/A	Ministry of National Resources and Environment of the RF, http://www.mnr.gov.ru/ Individual ministries, agencies and regions of the RF	http://www.climatechange.ru , www.rrec.ru , www.wwf.ru ; Correspondent: Liliانا N. Proskuryakova, Institute of Statistical Studies and Economics of Knowledge, State University – Higher School of Economics; lproskuryakova@hse.ru URL: www.hse.ru	http://www.global-issues-rtd.info/programmes/294.html

	Programme / Russian Federation	Russian federal target program "Prevention of dangerous climate changes and their negative consequences"/ Федеральная целевая программа "Предотвращение опасных изменений климата и их отрицательных последствий"	19/10/1996 - 31/12/2001	Applied industrial research, Problem driven (basic) research	All companies, Other - Over 40 Russian organizations, including: Russian Hydrometeorology and Environmental Monitoring Service Ministry of Energy Ministry of Economic Development	Climate, energy, health, etc.	Energy, Environment (including Climate Change), Health	0,737 mln EURO	http://www.budgetrf.ru/ / http://www.meteorrf.ru/	http://www.mnr.gov.ru/old_site/files/pars/3826_vii.doc Correspondent: Liliana N. Proskuryakova, Institute of Statistical Studies and Economics of Knowledge, State University – Higher School of Economics; lproskuryakova@hse.ru URL: www.hse.ru	http://www.global-issues-rtd.info/programmes/323.html
	Programme / Russian Federation	Russian federal target program "Energy-efficient Economy" for the years 2002-2005 and till 2010 / Федеральная Целевая Программа «Энергоэффективная экономика»	17/11/2001 - 31/12/2010	Applied industrial research, Problem driven (basic) research	Other - Russian Ministry for Atomic Energy Russian Ministry of Industry, Science and Technology Russian Ministry of Agriculture Russian Ministry of Transport Russian Ministry of Communications State Committee of	Energy-saving technology	Energy	7004,66 bln. RUB	Ministry of Finance of the RF / Ministry of Energy of the RF http://minenergo.gov.ru/	http://www.mnr.gov.ru/old_site/files/pars/3601_1636_0796_2001.pdf ; Correspondent: Liliana N. Proskuryakova, Institute of Statistical Studies and Economics of Knowledge, State University – Higher School of Economics; lproskuryakova@hse.ru URL: www.hse.ru	http://www.global-issues-rtd.info/programmes/324.html

					the RF on Construction, Housing and Utilities Selected sub- contractors						
National Strategy	Cimate Policy of the Russian Federation/ Климатическа я доктрина Российской Федерации	17/12/ 2009 – N/A	Other - The document states the need for basic and applied national research and participation of Russia in international research projects, including state funding for such research.	Others - Population in general	N/A	climate change, its consequenc es and implemen tation of counter- measures (Broadly defined areas of energy efficiency, natural resources and climate change, where target fields not specified	N/A	Russian Ministry for Natural Resources and Environment	http://meteoinfo.ru/limitedoctrine /Correspondent: Liliana N. Proskuryakova, Institute of Statistical Studies and Economics of Knowledge, State University – Higher School of Economics; lproskuryakova@hse.ru URL: www.hse.ru	http://www.global-issues-rtd.info/programmes/2144.html	
Programme	Federal Targeted Programme “R&D in Priority Fields of the S&T Complex of Russia (2007- 2012) / федеральная целевая программа	01/01/ 2007 - 31/12/ 2012	Applied industrial research Knowledge transfer (between researchers) Networking Pre-competitive research	Higher education institutions (education function) Other non- profit research organisations (not HEI) Scientists/rese archers (as individuals)	The Programme allocates resources to priority directions of R&D and innovation in 5 key areas: • Life sciences (biotechnologies and health) • Industry of nanosystems and nanomaterials • ICT • Environment •	N/A	€5,57 bln	Government of Russia - Ministry of Education and Science of the Russian Federation www.gov.ru / Programme Directorate	http://www.fcpir.ru/ /Correspondent: Liliana N. Proskuryakova, Institute of Statistical Studies and Economics of Knowledge, State University – Higher School of Economics; lproskuryakova@hse.ru	http://www.global-issues-rtd.info/programmes/2153.html	

		«Исследования и разработки по приоритетным направлениям развития научно-технологического комплекса России на 2007—2012 годы»			Technology and innovation centres (non-profit)	Energy and energy conservation.				e.ru URL: www.hse.ru	
Tajikistan	National strategy	The Second National Communication of the Republic of Tajikistan under the United Nations Framework Convention on Climate Change	2008 – N/A	Problem Driven Basic Research /Other – Environmental policy	N/A	N/A	Energy, Environment, Biotechnology, Food and Agriculture, Water Management, Health	N/A	Government of Tadjikistan / The State Agency for Hydrometeorology Committee for environmental protection under the Government of the Republic of Tajikistan	http://www.meteo.tj	http://www.global-issues-rtd.info/programmes/2185.html
Ukraine	National Strategy	“Second National Communication to the UNFCCC”/	2006 – N/A	Problem driven (basic) research / Other - Environmental policy	N/A	N/A	Food and Agriculture, Energy, Environment (including Climate Change), Health	N/A	http://www.menr.gov.ua/cgi-bin/go?page=10&type=left Ministry of Ecology and Natural Resources of Ukraine	http://www.menr.gov.ua/cgi-bin/go?page=10&type=left	http://www.global-issues-rtd.info/programmes/1434.html

Uzbekistan	National Strategy	Second National Communication of the Republic of Uzbekistan under the United Nations Framework Convention on Climate Change	31/12/2008–N/A	Problem Driven Basic Research /Other – Environmental policy/International Collaboration	N/A	N/A	Food and Agriculture, Energy, Environment (including Climate Change), Health	N/A	Government of Uzbekistan/ Centre of Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan	http://www.climate.uz/en/	http://www.global-issues-rtd.info/programmes/2189.html
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