
Environment and Climate Regional Accession Network (ECRAN)

ECRAN Overview of
Start up Activities and
Work Plan 2014 for
Climate Component

January 2014

Environment and Climate Regional Accession Network (ECRAN)

1st ECRAN Steering Committee meeting

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Brussels, Belgium

Description: This document includes Secretariat Report for the network activities implemented under Climate component in the period October – December 2014 and the work plan for the Climate component for 2014 .

Action Required: ECRAN Steering Committee members are invited to discuss the document for adoption.



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Executive Summary

Regional co-operation on environment and climate action has been supported by the European Commission for almost a decade, starting in 2005 with the Regional Environmental Reconstruction Program for South-East Europe (REReP), continuing with the Regional Environmental Network for Accession (RENA) covering 2010 -2013 and followed now by the ECRAN project, which started on 1st of October 2013.

The ECRAN project building on the previous programs will further strengthen the enlargement countries administrative capacity, while at the same time fostering regional co-operation, the exchange of information and good practices on the transposition and implementation of the acquis in the fields of environment and climate action.

The European Commission is supported by the Secretariat of the Environment and Climate Regional Accession Network (ECRAN Secretariat).

The project includes an environment component, a climate action component as well as the NGOs Environment and Climate Forum. Similar to RENA, the activities under each component will be implemented through a system of Working Groups (WGs) as follows:

Environment Working Groups:

Strategic Planning and Investments

Water Management

Environmental Assessments

Air Quality

Waste Management

Nature Protection

IED/ Chemicals

Climate Action Working Groups:

Climate Policy Development and Building Climate Awareness

GHG Inventory Systems and the EU Monitoring Mechanism Regulation

Emissions Trading

Adaptation

Cross-cutting activity for both environment and climate components:

Enforcement and compliance (ECENA)

Progress Monitoring

Legislative compliance checks

Handbook on the Implementation of EU Environmental Acquis

Handbook on the Implementation of EU Climate Acquis

The document provides the overview of activities implemented by the project team under Climate component in the period October – December 2013 as well as detailed work plan for the activities to be implemented within Climate component in the period January – December 2014.



The document has been prepared for the purpose of 1st Steering Committee meeting that is held on 20 January 2014 in Brussels, Belgium.



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Project start up activities

Mobilisation of the project team, establishment of ECRAN Secretariat, administrative set up

The team of Key Experts has been mobilised on 1 October 2013. The internal project team induction meeting to discuss the planned activities and upcoming Steering and Annual meetings has been organised on 02 October 2014 in Brussels. ECRAN Kick-off meeting with European Commission has been organised on 03 October 2014 and was aimed at discussing the overall work plan, detailed plans for the upcoming SC meeting and Working Group Annual meetings and cooperation with TAIEX. During the Kick-off meeting the existing procedures for the recruitment of the non-key experts and development of job descriptions have been confirmed (Annex 1 Kick off Meeting Minutes).

The ECRAN Secretariat has been established using the existing premises and structures of the RENA Secretariat, i.e. the offices established in Vienna and Belgrade providing for direct and fast international connections to all beneficiary countries. The Secretariat is and will make use of the satellite offices of the ECRAN Consortium in Ankara, Belgrade, Brussels and Sofia to support project activities in order to ensure the steady and responsive progress of the project.

ECRAN Secretariat team is composed of the existing RENA Secretariat team that has proven experience in: environment, administration, financing, communication, IT, logistics, and translation. The Team Leader is supervising the Secretariat's work.

ECRAN Secretariat has updated the existing internal project management system (reporting, monitoring, evaluation) inherited from the RENA and established internal information and documentation system including the templates for external information and documentation system to be used by the project team (Annex 2 ECRAN Internal Manual including Templates).

The project team develop detailed work plans including time schedule with milestones and outputs and estimated resources per task demonstrating the correspondence between proposed methodology and expert inputs. The updated work plans are in detail presented in the sections below.

Based on the work plans prepared by the project team and activities planned, draft breakdown of Incidental Expenditures has been prepared (Annex 3 Draft IE Breakdown). Final version will be prepared upon finalisation and approval of work plans for 2014 and enclosed to the 1st Interim Report due in April 2014.

External project management procedures have been defined mainly through the update of the existing RENA Rules for Assistance Manual including the templates to be used by the beneficiaries and other stakeholders (Annex 4 ECRAN Rules of Assistance Manual).

Confirmation of ECRAN Focal Points (Steering Committee members) and National Coordinators

Following the letters sent by the European Commission to the beneficiary institutions to announce the official start date of the project and to invite them to provide official nominations of Focal Point for the ECRAN project and National Coordinators for the Environment Working Groups as well as Climate National Coordinator, ECRAN Contact List has been prepared (Annex 3).

Croatia has nominated Focal Point and National Coordinators for selected activities. Namely, being the new EU MS, Croatia participates only in the selected activities of ECRAN: Climate Component, Environmental Assessment and Enforcement and Compliance (ECENA).

Despite the efforts, nominations from Bosnia and Herzegovina have not been received due to the political set up in the country and changes in the beneficiary Ministry that occurred during project start-up period.



The project team is in communication with the relevant officials from the Bosnia and Herzegovina state and entity authorities, providing additional information and required additional documents.

Coordination with related initiatives

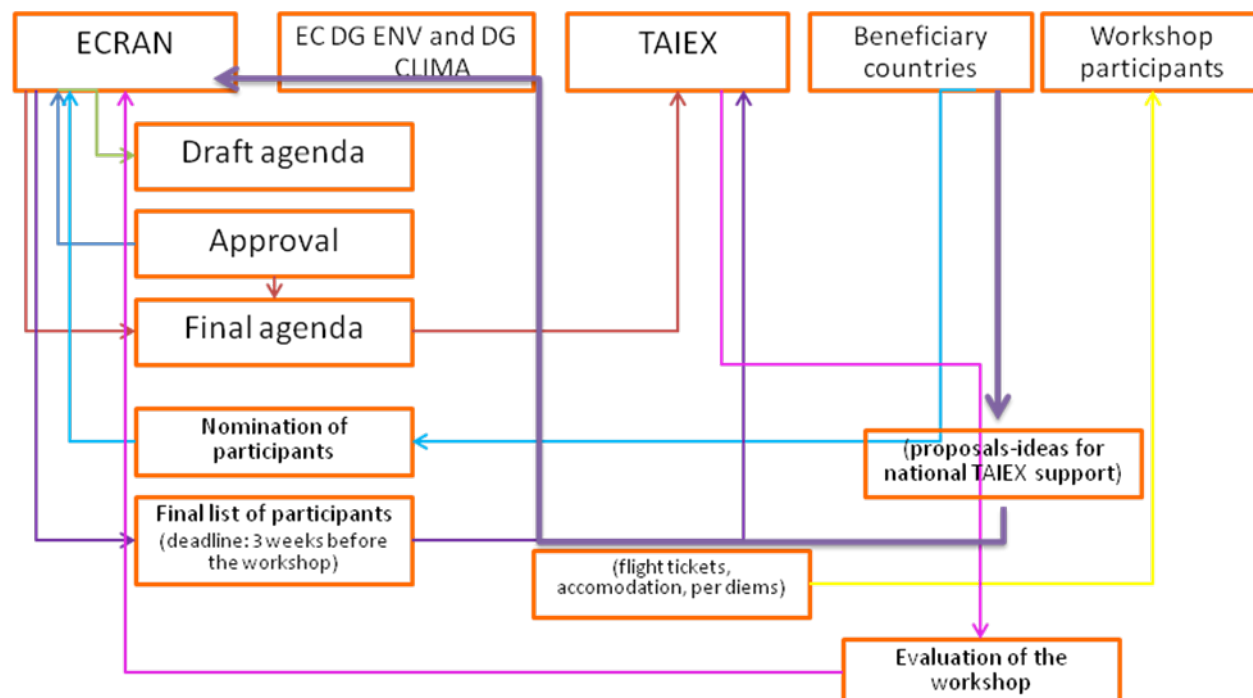
The project team has made initial contacts with the relevant and related networks and organizations, relevant IFIs, bilateral donors and international organisations to discuss their planned activities, possible synergies and overlaps. During 2013 ECRAN team attended the following meetings:

- 2nd Workshop on climate change impacts, vulnerability and adaptation (CCIVA) in West Balkan countries, 8 October 2013, Belgrade, Serbia;
- Twinning project SR 12 IB EN 01 "Creation of a monitoring, reporting and verification system for successful implementation of the EU Emission Trading System", 13 November 2013, Belgrade, Serbia;
- Environmental Enforcement Networks: Concepts, Implementation and Effectiveness, 13 and 14 November 2013, Brussels, Belgium;
- EC and IFI Environment Workshop , 22 November 2013, Brussels, Belgium;
- 11th IMPEL General Assembly, 9-10-11 December 2013, Vilnius, Lithuania.

Definition of working modalities for on-going coordination and cooperation with TAIEX instrument

The modalities for cooperation with TAIEX have been set during the meetings held between TAIEX Unit and ECRAN Secretariat. The cooperation and assistance is provided fully in line with the TAIEX rules and their Guides for participants and public experts. The cooperation along with the procedures and deadlines is also described in details in the ECRAN Rules for Assistance Manual.

The cooperation process is briefly described in the diagram below:



Communication and visibility

During 2013, the ECRAN website has been established and became fully functional at www.ecranetwork.org. The documents and materials prepared are located on the website and available for download. ECRAN



visibility materials to be further used and distributed during ECRAN meetings and events have been prepared (roll ups, stationary). The website contains the links to the website of relevant organizations and initiatives.

In January 2014 the section for NGO Environment and Climate Forum has been updated with the on line application form for application of NGOs interested to become member of regional network of selected NGOs representing civil society from their country.

ECRAN brochure, newsletter and communication strategy are in the process of preparation and will be delivered for approval to the EC in March 2013. The documents will be prepared in line with the EU Visibility Guidelines.



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ECRAN – Climate Activity 1 Working Group 1: Climate policy development and building climate awareness.

- **Task 1.1: Capacity building on modeling, scenarios and tools**
 - **Sub-Task 1.1 - A: Regional assessment of capacities for modeling and scenario works including stakeholders assessment**
 - **Sub-Task 1.1- B: Regional training workshops on the application of modeling, scenarios and tools for the development of climate policies**
 - **Sub-Task 1.1 – C: Practical training on quantitative models to be used to assess climate and energy policy options and to set emission targets**
- **Task 1.2: Capacity building on selected climate acquis**
 - **Sub-Task 1.2 - A: Regional training programme on selected climate acquis**
- **Task 1.3: National High level seminars**
 - **Sub-Task 1.3 - A: National High Level Seminars**
- **Task 1.4: Practical hands on assistance on low-carbon policy and legislative development**
 - **Sub-Task 1.4 - A: Practical hands on assistance and short missions**
 - **Sub-task 1.4 - B: IPA climate project proposal development**

Introduction

There is a need to start developing concrete climate policies fully aligned with EU Climate *acquis* and setting GHG emission reduction targets in the context of EU 2020 Climate and Energy Package, the expected EU 2030 climate and energy framework and the need to feed into the 2015 international climate agreement. At present the absence of concrete targets and implementation roadmaps hamper the development of robust climate policies in the region. ECRAN could provide a regional platform to start working on this topic.

There is a need to continue to build critical mass and to expand the target group from government institutions also to parties that have a role in implementing key elements of the climate *acquis*. These include other line Ministries, but also industry. In addition, the role of CSOs and academia needs to be strengthened, especially in the field of strategy development in the field of climate. The awareness and understanding of EU climate change laws, policies, economic benefits and strategies is crucial to strengthening dialogue and cooperation on climate change between the EU and its partners.

The UN Climate Change Conference in Warsaw (COP 19) in November 2013 is keeping governments on a track towards a universal climate agreement in 2015 and includes significant new decisions that will cut emissions from deforestation and on loss and damage. In the context of 2015, UNFCCC Parties decided to initiate or intensify domestic preparation for their intended national contributions towards that agreement, which will come into force from 2020. Parties ready to do this will submit clear and transparent plans well in advance of COP 21, in Paris, and by the first quarter of 2015.

The Working Group will address these issues through a regional exercise on the development of climate policies converging with EU climate *acquis*, with a special focus on the application of modelling, scenario development and tools for the preparation and implementation of low emission strategies. In addition



regional seminars will be held on EU climate *acquis* which was not yet sufficiently addressed under the RENA. National high level seminars are envisaged on topics to be selected, and which are based on the priorities, needs and circumstances of each beneficiary and also target continued awareness raising. Finally practical hands-on assistance and short missions are planned to support the drafting, fine-tuning and implementation of key policy documents and legislation on low carbon development, mitigation and adaptation as well as related assessments of social and economic impacts.

This workplan covers the full period of ECRAN (i.e. October 2013 – October 2016). Under this workplan, the following specific task will be implemented:

- **Task 1.1: Capacity building on modeling, scenario development**
- **Task 1.2: Capacity building on selected climate acquis**
- **Task 1.3: National High level seminars**
- **Task 1.4: Practical hands on assistance on low-carbon policy and legislative development**

Beneficiary

The beneficiaries are the Ministries of Environment of the beneficiary countries (Albania, Bosnia and Herzegovina, Croatia, the former Yugoslav Republic of Macedonia, Iceland, Kosovo*¹, Montenegro, Serbia and Turkey). In addition the other ministries and other bodies and institutions will need to be actively engaged in so far as their work is relevant for the scope of ECRAN (such as in the fields of energy, transport, agriculture, economy, health, finance), environment and other agencies, statistical institutions, inspectorates, and other relevant central, regional and local public authorities working on climate issues in the beneficiary countries, environmental NGOs. Other stakeholders will be involved as appropriate.

The ECRAN beneficiaries are expected to nominate National ECRAN Climate Coordinators to enable to perform their steering and advisory function tasks as in RENA. In order to strengthen inter-institutional cooperation in the ECRAN activities, **National Advisory Boards** are requested to be set-up in the ECRAN beneficiaries, consisting of the relevant line Ministries that have a role in relevant climate change policy development and implementation (eg Environment, Energy, Transport, Economy, Agriculture).

Objectives

Overall objective

The overall objective is to strengthen regional cooperation between the EU candidate countries and potential candidates in the fields of environment and climate action and to assist them on their way towards the transposition and implementation of the EU environmental and climate policies, political targets and instruments which is a key precondition for EU accession.

Specific objectives

This Working Group's objective is to promote and establish an enabling environment for further development of national climate policies converging with EU climate *acquis*.

The following results are expected for this Working Group:

- Enhanced capacity within the Environment Ministries and other relevant institutions to implement specific policies and measures to converge with the EU climate change policy and selected EU legislation
- Group of trained professionals on convergence with the EU climate change policy and legislation
- Climate change policies feature more prominently on the political agendas in the beneficiaries

¹ This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ opinion on the Kosovo declaration of independence.



- Strengthened regional network of experts

Task 1.1: Capacity building on modelling, scenarios and tools

This task will address the issue of development of concrete climate policies with GHG emission reduction targets in the context of EU 2020 Climate and Energy Package (in particular the requirements of the EU Effort-Sharing Decision), the expected EU 2030 climate and energy framework and the need to feed into the 2015 international climate agreement. Particular emphasis would be put on harmonising approaches to data collection and processing, including building on existing processes such as national communications.²

The following sub-task will be implemented in the framework of this task:

- **Sub-Task 1.1 - A: Regional assessment of capacities for modeling and scenario works including stakeholders assessment**
- **Sub-Task 1.1- B: Regional training workshops on the application of modelling, scenarios and tools for the development of climate policies**
- **Sub-Task 1.1 – C: Practical training on quantitative models to be used to assess climate and energy policy options and to set emission targets**

Hereafter a detailed description of deliverables is described:

Sub-Task 1.1 - A: Regional assessment of capacities for modeling and scenario works including stakeholders assessment

In order to have an appropriate and targeted design of the regional exercise, a Training Needs Assessment (TNA) will be required in order to identify (a) the “key players”, stakeholders, knowledge institutions, etc. which have or could have a role in the development of emission projections in their countries; and (b) the level of the beneficiaries' capacities for development of their national emission projections according to UNFCCC reporting guidelines and in the context of EU 2020 and 2030 climate and energy policies, as well as the 2015 international climate agreement.

The TNA will be conducted using interviews and questionnaires and will assess relevant technical and human resources capacity aspects in relation to:

- Policies and measures, including those in accordance with Article 2 of the Kyoto Protocol, and domestic and regional programmes and/or legislative arrangements and enforcement and administrative procedures.
- Projections and the total effect of policies and measures; sensitivity analysis, and methodologies, models and assumptions.
- Identification, documentation and analysis of policies and measures in line with reporting obligations under the Monitoring Mechanism Regulation.
- Projections and pathway development in connection with long-term decarbonisation goals.
- Other issues.

In addition the TNA will consider:

² For the annotated outline for preparing the 5th National Communication Reference is made to http://unfccc.int/files/national_reports/annex_i_natcom/application/pdf/nc5outline.pdf. For the biennial reporting guidelines the current “Draft UNFCCC biennial reporting guidelines by developed country Parties” will be used. Reference is made to <http://unfccc.int/resource/docs/2011/awglca14/eng/crp38.pdf>. In case newer guidelines will be published, these will be considered.



- the current use and application of data,
- methods and models applied,
- the implementation of quality assurance and
- quality control activities and sensitivity analysis

Based on the results of the TNA an On-The-Job Training Programme will be presented to European Commission /DG Climate Action for its approval. The On-The-Job Training Programme will define a detailed training proposal, the target groups and the expected indicators of achievement against training results can be evaluated. Proposed training methods may include:

- classroom type of training through trainings addressing at least 5 sectors (average three days for each workshop module, maximum 30 participants)
- hands-on-training on modelling and filling relevant sections of the National Communications and Biennial Reports
- Transfer of methodological knowledge and skills
- Developing IPA projects on national strategies

In summary: **Required outputs under Sub-Task 1.1 A**

No.	Date	Key outputs	Observations
1	January- February 2014	Training Needs Assessment	NA
2	February - March 2014	Design On-the job training programme	NA

Sub-Task 1.1 B: Regional training workshops on the application of modeling, scenarios and tools for the development of climate policies

When preparing scenarios and projecting greenhouse gas emissions and removals and estimating the total effects of policies and measures on emissions and removals, UNFCCC Parties may use any models and/or approaches they choose. However, sufficient information should be reported in the national communication to allow a reader to obtain a basic understanding of such models and/or approaches. In the framework of ECRAN the beneficiaries will be familiarised with the models applied in the EU for climate, energy and transport policy development.

Four regional training workshops will be implemented. **The exact contents and agendas will be agreed 3 months before delivery of the trainings.** The following issues may be addressed:

Training workshop 1: On regional capacity for developing low emission development strategies and modelling (Launch workshop)

- Launching the regional ECRAN exercise on modeling and climate policies
- EU Energy Trends until 2030 and options to move beyond the 2020 targets
- Mitigation scenario modeling capacities in the ECRAN beneficiaries
- Models used and main assumptions and drivers of the scenarios in the ECRAN beneficiaries
- Results of GHG mitigation scenario modeling (NatComs) in ECRAN beneficiaries
- Strengths, weaknesses and needs in the ECRAN beneficiaries

Training 2: On application of models in climate policy and strategy development models:

- Pathways towards the 2050 decarbonisation target, methodology, existing analytical knowledge base.



- Types of models or approaches used in the EU and their characteristics (for example top-down model, bottom-up model, accounting model, expert judgement).
- Describing the original purpose the model or approach was designed for and, if applicable, how it has been modified for climate change purposes.
- Summarizing the strengths and weaknesses of the models or approaches used.
- Explaining how models or approaches used account for any overlap or synergies that may exist between different policies and measures.
- How to deal with sensitivity of projections to key assumptions.

Training 3: On economics of climate change mitigation: Economic instruments and technology issues

- Economic instruments in the fight against climate change
- Climate Change Mitigation Technologies: Policy Drivers and Technology Transfer
- Applied EU climate policies
- Cost-benefit analysis of climate policies

Training 4: On meeting the challenges for 2020, 2030 and 2050

- EU and Member States policies and action;
- Emission reduction commitments in the context of the 2015 international agreement
- Strategies of candidate countries and potential candidates;

In summary: **Required outputs under Sub-Task 1.1 B**

No.	Date	Key outputs	Observations
1	January 2014	Workshop 1 (launching workshop)	Zagreb
2	September 2014	Workshop 2	NA
3	November 2014	Workshop 3	NA
4	March 2015	Workshop 4	NA

Sub-Task 1.1 – C: Practical training on quantitative models and scenario development to be used to assess climate and energy policy options and to set emission targets

In consultation with the beneficiaries a selection will be made of a model or models to be applied in a pilot training. These models should preferably include open source models and the exercise is meant to acquire experience and knowledge in and build regional capacity on required modelling work. For long-term scenario development existing examples and methodological knowledge will be shared.

A pilot exercise will be initiated to apply a selected model or models for forecasting, scenario construction and policy impact analysis up to the year 2030 or development of pathways up to the year 2050. ECRAN experts will provide hands-on assistance in developing forecasts and scenarios using the models methodologies. In this exercise local expert teams will be formed with the assistance of the climate focal points. The local expert teams will apply the models and methodologies for analyzing (as an example and depending on applied models)

- impacts of carbon emission trading
- impacts of renewable and energy efficiency policies on energy markets

The results will be presented in a regional workshop where the merits, strengths and weaknesses of using the models in the region will be discussed and evaluated.

In summary: **Required outputs under Sub-Task 1.1 C**



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No.	Date	Key outputs	Observations
1	September 2014 – September 2015	Pilot exercise on developing forecasts and scenarios with selected model or models - Hands on assistance	NA
2	September 2015	Regional Workshop to present results	NA

Task 1.2: Capacity building on selected climate acquis

The following sub-task will be implemented in the framework of this task:

Sub-Task 1.2 - A: Regional training programme on selected climate acquis

Hereafter a detailed description of deliverables is described:

Regional trainings on the EU climate *acquis* which were not sufficiently addressed under the RENA. The final proposal will be determined following consultation with the focal points and DG Clima. The approach will be similar as the one followed under RENA. The expertise will be drawn mainly from TAIEX for this exercise. The following workshops are proposed:

- a) Training workshop 1: Workshop on ODS and F gases – (June 2014)
- b) Training workshop 2: Workshop on CCS – (November 2014)
- c) Training workshop 3: Workshop on Fuel quality monitoring – (March 2015)
- d) Training workshop 4: Workshop on monitoring of cars and vans – (October 2015)
- e) Training workshop 5: Special topic (March 2016)

(Note: The order of subjects may be revised during the Annual meetings)

In summary: **Required outputs under Sub-Task 1.2 A**

No.	Date	Key outputs	Observations
1	June 2014	Training workshop 1: Workshop on ODS and F-gases	NA
2	November 2014	Training workshop 2: Workshop on CCS	NA
3	March 2015	Training workshop 3: Workshop on Fuel quality monitoring	NA
4	October 2015	Training workshop 4: Workshop on monitoring of cars and vans	NA
5	March 2016	Training workshop 5: Special topics	Training topic selected on the basis of the needs indicated

Task 1.3: National High Level Seminars

The following sub-task will be implemented in the framework of this task:



Sub-Task 1.3 - A: National High Level Seminars

National (high level) seminars on topics to be selected, and which are based on the priorities, needs and circumstances of each beneficiary. Agendas to be developed in consultation with the Country Climate Coordinators, and on the basis of EU climate *acquis* priorities and considerations.

Communication and awareness-raising activities are to be organised to improve the quality and availability of information on climate change impacts within the region, e.g. on the expected 5th IPCC Assessment Report as well as World Bank 4°C reports. This task could be combined with the High Level Seminars as appropriate.

At this stage 7 High Level Seminars are foreseen. High level involvement from DG Clima is requested as well.

In summary: **Required outputs under Sub-Task 1.3 A**

No.	Date	Key outputs	Observations
1	June 2014	High Level Seminar 1	Serbia (tbd in Annual meeting)
2	September 2014	High Level Seminar 2	Turkey (tbd in Annual meeting)
3	February 2015	High Level Seminar 3	Montenegro (tbd in Annual meeting)
4	May 2015	High Level Seminar 4	Albania (tbd in Annual meeting)
5	October 2015	High Level Seminar 5	Kosovo* (tbd in Annual meeting)
6	March 2016	High Level Seminar 6	FYRoM (tbd in Annual meeting)
7	June 2016	High Level Seminar 7	BiH (tbd in Annual meeting)

Task 1.4: Practical hands on assistance on low-carbon policy and legislative development

The following sub-task will be implemented in the framework of this task:

- **Sub-Task 1.4 - A: Practical hands on assistance and short missions**
- **Sub-task 1.4 - B: IPA climate project proposal development**

Sub-Task 1.4 - A: Practical hands on assistance and short missions

This task is designed as a demand driven mechanism, where ECRAN will provide hands on assistance on specific requests. Practical assistance and short missions are envisaged to support the drafting, fine-tuning and implementation of key policy documents and legislation on low carbon development, mitigation and adaptation as well as related assessments of social and economic impacts.

We foresee at least 7 short term missions to be covered by TAIEX experts and ECRAN experts depending on the subject.

A mechanism will be developed for requesting and approval of these on demand tasks. A standard template will be used, sent to Secretariat and once approved by EC it can be further implemented.

In summary: **Required outputs under Sub-Task 1.4 A**

No.	Date	Key outputs	Observations
1	March 2014 - July 2016	At least 7 TAIEX short missions. Outputs (based on requests from beneficiaries, Steering Committee and focal points): <ul style="list-style-type: none"> - Policy documents, - Legislative proposals - Impact assessment reports 	NA



Sub-task 1.4 - B: IPA climate project pipeline development

Assistance will be provided for the development of IPA climate project pipeline (and outline project fiches). The objective should to increase effectiveness, while not duplicating the efforts of the on-going and planned bilateral IPA and other support projects. We foresee in total 5 short term missions to be covered by ECRAN experts.

A mechanism will be developed for requesting and approval of these on demand tasks. A standard template will be used, sent to Secretariat and once approved by EC it can be further implemented.

In summary: **Required outputs under Sub-Task 1.4 B**

No.	Date	Key outputs	Observations
1	March 2014 - July 2016	Support to development of project pipeline	NA



Summary of timing of activities in this working Group Nr 1 (Climate policies)

	2014				2015				2016			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Task 1.1 A. Regional Capacities Assessment	TNA											
Task 1.1 B. Regional Workshops	WS1		WS2	WS3	WS4							
Task 1.1 C. Practical training (pilot exercise)			HoA	HoA	HoA	HoA	WS					
Task 1.2 A. Climate acquis training		WS1		WS2	WS3		WS4		WS5			
Task 1.3 A. High Level Seminars		HL1	HL2		HL3	HL4		HL5	HL6	HL7		
Task 1.4 A: Practical hands on assistance and short missions		M1		M2	M3	M4	M5	M6		M7		
Task 1.4 B. IPA Climate project pipeline development			M1		M2	M3		M4		M5		

TNA = Training Needs assessment

WS = Training workshop

HoA = Hands on Assistance (modelling pilot exercise)

HL =High Level event

M = Missions (TAIEX and ECRAN experts)

Please note that timing of events will consider combining events of different activities to take into account the current limited absorption capacity in beneficiaries



ECRAN – Climate Activity 2 Working Group 2: National inventory systems and the EU Monitoring Mechanism Regulation

Project Activities:

Activity 2: National inventory systems and the EU Monitoring Mechanism Regulation Working Group

- **Tasks 2.1: Capacity building on GHG inventory process for the Energy Sector (CRF Sector 1) in line with the MMR and the UNFCCC requirements**
 - *Sub-Task 2.1 A: Module 1: Regional training on GHG inventory development process with a focus on the energy sector*
 - *Sub-Task 2.1 B: Module 2: Regional training on handling the CRF Reporter software and tier 1 uncertainty assessment*
 - *Sub-Task 2.1 C: Module 3: Field training on assessment of GHG inventories from the fuel combustion activities and fugitive emissions from fuels*
- **Task 2.2: Capacity building on GHG inventory process for the other Sectors (CRF Sectors 2 - 6) in line with the MMR and the UNFCCC requirements**
 - *Sub-Task 2.2 A: Regional technical training seminars on GHG inventories work on CRF Sectors 2 – 6.*
 - *Sub-Task 2.2 B: Regional MMR exercise on selected sector*
- **Task 2.3: Capacity building on other elements of the MMR**
 - *Sub-Task 2.3 A: Best practice document for a fully functioning MMR system*
 - *Sub-Task 2.3 B: Regional Training on various reporting aspects of the MMR*

Introduction

Regulation (EU) No 525/2013 of the European parliament and of the Council on mechanisms for monitoring and reporting greenhouse gas emissions and for reporting other information at national and Union level relevant to climate change and repealing Decision No 280/2004/EC (hereinafter: Monitoring Mechanism Regulation or MMR) fully substitutes the Decision No 280/2004/EC (Monitoring Mechanism Decision or MMD) and as such will provide the legal basis to implement revised domestic commitments set out in the 2009 climate and energy package (20-20-20 commitments), as well as to ensure timely and accurate monitoring of the progress in implementation of these commitments.

The opportunity has also been taken to propose improvements in the legislation in the light of experience gained in implementing the Monitoring Mechanism Decision including its implementing provisions (Decision 2005/166) as well as in response to the international negotiations and United Nations Framework Convention on Climate Change (UNFCCC) requirements.

The new Regulation:

- implements the monitoring and reporting requirements of the Effort Sharing Decision and the revised EU ETS Directive through:
 - establishing a review and compliance cycle under the Effort Sharing Decision;



- incorporating the reporting requirements for the use of revenues from auctioning carbon allowances, as stipulated in the revised ETS Directive;
- enhances the current monitoring and reporting framework so as to meet the needs of future EU and international legislation through establishing a basis for monitoring and reporting emissions from non-CO2 climate impacts from aviation, LULUCF, and adaptation;
- enhances EU and Member State reporting on financial and technology support provided to developing countries, thereby ensuring adherence to international commitments under the UNFCCC;
- enhances consistency of reporting under this Decision with reporting under other EU legal instruments that address air pollutants;
- enhances reporting of actual emissions, projections, policies and measures taking into account lessons learned from past implementation.
- besides the annual inventory reports it requires, that the Union and Member States shall submit biennial reports in accordance with Decision 1/CP.16 and national communications in accordance with article 12 of the UNFCCC to the UNFCCC Secretariat

The proposed activities are a follow-up of the activities on the monitoring mechanism implemented in the framework of RENA, the so called “MMD Exercise”. The main purpose of the exercise was to start developing better knowledge and capacity and in gradually improving/increasing the technical and institutional ability of the RENA countries to prepare submissions of the National Inventory Reports in the framework of the MMD.

The exercise concentrated on improving the process of the preparation of sound inventories towards a full and harmonised combustion fuel sector GHG inventory using the appropriate guidelines and tools. The focus was on the CRF fuel combustion activities 1A. The project deliverables were:

- A description of the national systems in the beneficiaries with emphasis on activity data flow scheme
- Status of national energy balances, calculation of CO₂ emissions and first data filled in for fuel combustion activities using the CRF Reporter tool
- Completing CO₂ emissions estimates from CRF fuel combustion activities

This activity will build on the experiences and results of the above “MMD exercise” under RENA. Work will expand to other CRF sectors and assistance will be provided to the beneficiary countries to start developing robust national inventory systems that are capable of preparing complete, accurate and transparent annual greenhouse gas inventories and inventory related chapters of biennial reports and national communications in line with the requirements for UNFCCC Annex-I Parties and the EU Monitoring Mechanism Regulation (MMR).

This workplan covers the full period of ECRAN (i.e. October 2013 – October 2016). Under this workplan, the following specific task will be implemented:

- **Tasks 2.1: Capacity building on GHG inventory process for the Energy Sector (CRF Sector 1) in line with the MMR and the UNFCCC requirements**
- **Task 2.2: Capacity building on GHG inventory process for the other Sectors (CRF Sectors 2 - 6) in line with the MMR and the UNFCCC requirements**
- **Task 2.3: Capacity building on other elements of the MMR**

Beneficiary

The beneficiaries are the Ministries of Environment of the beneficiary countries (Albania, Bosnia and Herzegovina, Croatia, the former Yugoslav Republic of Macedonia, Iceland, Kosovo*³, Montenegro, Serbia and Turkey). In addition the other ministries and other bodies and institutions will need to be actively engaged in so

³ This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ opinion on the Kosovo declaration of independence.



far as their work is relevant for the scope of ECRAN (such as in the fields of energy, transport, agriculture, economy, health, finance), environment and other agencies, statistical institutions, inspectorates, and other relevant central, regional and local public authorities working on climate issues in the beneficiary countries, environmental NGOs. Other stakeholders will be involved as appropriate.

The ECRAN beneficiaries are expected to nominate National ECRAN Climate Coordinators to enable to perform their steering and advisory function tasks as in RENA. In order to strengthen inter-institutional cooperation in the ECRAN activities, **National Advisory Boards** are requested to be set-up in the ECRAN beneficiaries, consisting of the relevant line Ministries that have a role in relevant climate change policy development and implementation (eg Environment, Energy, Transport, Economy, Agriculture).

Objectives

Overall objective

The overall objective is to strengthen regional cooperation between the EU candidate countries and potential candidates in the fields of environment and climate action and to assist them on their way towards the transposition and implementation of the EU environmental and climate policies and instruments which is a key precondition for EU accession.

Specific objectives

This Working Group's objective is to provide the essential elements for the establishment and contribute to a fully functioning monitoring mechanism of greenhouse gas emissions in the beneficiaries, in line with the EU Monitoring Mechanism Regulation.

The following results are expected for this Working Group

- Improved overall quality of the GHG inventory work in the beneficiaries countries
- Institutional, legal and procedural arrangements identified for a national system which is linked to the planning, preparation and management of the inventory
- Improvement of the data quality and technical capacity for preparing GHG emissions inventory elements of the biennial reports and national communications

Task 2.1: Capacity building on GHG inventory process for the Energy Sector (CRF Sector 1) in line with the MMR and the UNFCCC requirements

This will include field training for staff compiling the National Inventories and National Communications. Purpose of the field training is to fill gaps and check the quality of implemented emission factors and reported Activity Data (ADs) for **fuel combustion activities (CRF 1.A) and fugitive emissions from fuels (CRF 1.B)** in the RENA beneficiaries. As a reference the latest submitted GHG data on fuel combustion in the framework of RENA's Activity Scheme 2.2 (EU Monitoring Mechanism scheme) will be used. The results will feed into an assessment report and a regional training workshop, and are meant to improve the activity data. If gaps are detected, proposals will be presented to rectify these. Proposals for improvement in line with the IPCC Good Practice Guidance will be made. In addition to the previous activities in the framework of RENA, new CRF source category, i.e. fugitive emissions from fuels, will be introduced in the training exercise in order to improve completeness of emissions estimates from the Energy sector.

The training programme on the subject will be provided in three modules. In order to ensure the optimal results, participation from the beneficiary countries will have **to be continuous** for all three modules

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 2.1 A: Module 1: Regional training on GHG inventory development process with a focus on the energy sector**



- **Sub-Task 2.1 B: Module 2: Regional training on handling the CRF Reporter software and tier 1 uncertainty assessment**
- **Sub-Task 2.1 C: Module 3: Field training on assessment of GHG inventories from the fuel combustion activities and fugitive emissions from fuels**

Hereafter a detailed description of deliverables is described:

Sub-Task 2.1 - A: Module 1: Regional training on GHG inventory development process with a focus on the energy sector

Module 1 will be the first step: Module 1 will include a three days regional training on utilizing the *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, the *IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories* and elements of *2006 IPCC Guidelines for National Greenhouse Gas Inventories*, for the fuel combustion activities and fugitive emission from fuels. The training will focus on inventory development process, including planning, preparation and management as described in CMP Decision 19/CMP.1 Guidelines for national systems under Article 5.1. of the Kyoto Protocol and the application of the decision tree approach in order to select steps which is need to be followed to develop GHG inventory for the Energy sector in accordance with the principles of good practice and according to national circumstances.

In summary: **Required outputs under Sub-Task 2.1 A**

No.	Date	Key outputs	Observations
1	November 2013 – January 2014	Design training programme (Module 1), building on results of RENA MMD exercise	NA
2	February 2014	Regional Module 1 Training (combination of on –site and classroom)	Zagreb and Istria Thermal power plant and cement industry)
3	March 2014	Module 1 Training report	NA

Sub-Task 2.1- B: Module 2: Regional training on handling the CRF Reporter software and uncertainty assessment

Module 2 will be a two or three-day regional training focusing on:

- Handling the CRF Reporter software:
 - Preparation of AD and emission estimates and other reporting parameters such as notation keys as an input in CRF Reporter
 - Completeness checks
 - Introduction of additional explanatory information (documentation boxes)
 - Import and export of data
 - Preparation of official submissions to the UNFCCC
- Tier 1 uncertainty assessment of the Energy sector

In summary: **Required outputs under Sub-Task 2.1 B**

No.	Date	Key outputs	Observations
1	March – April 2014	Design training programme (Module 2)	NA
2	May 2014	Regional Module 2 Training (classroom)	Skopje
3	June 2014	Module 2 Training Report	NA



Sub-Task 2.1 – C: Module 3: Field training on and assessment of GHG inventories from the fuel combustion activities and fugitive emissions from fuels

The purpose of the training is to fill gaps and check the quality of implemented emission factors and reported activity data in the CRF Reporter by the previous RENA MMD exercise. As a reference the reported data from the CRF of the latest submitted RENA MMD exercise will be used. In addition fugitive emissions from mining, production, processing, transportation and use of coal, oil and natural gas will be estimated for the first time, The results will feed into an assessment report as indicated below in step c) and is meant to improve the activity data from the sector. If gaps are detected in activity data and/or calculation factors, proposals will be presented to rectify these. In addition proposals for improvement in line with the *IPCC Good Practice Guidance* will be made.

This task will include the following steps:

Step a) Selection of industrial sites for future regional training.

The training will be delivered on site. Three installations will be selected from the fuel combustion activities (1.A) and one installation from fugitive emissions from fuels (1.B) in the region as those sectors have the highest GHG gas emissions in the region. The selection will be made from the following source categories:

- a) Public Electricity and Heat Production
- b) Petroleum Refining
- c) Iron and Steel
- d) Chemicals
- e) Cement production
- f) Coal mining
- g) Other (to be determined in the Inception Phase)

Site selection criteria will be the following: (a) the requirement to have a “modern” environmental management in place, which is willing to cooperate in full with the ECRAN team, (b) an installation which is representative for the region to serve as a benchmark, (c) access to all relevant environmental data, and (d) staff has good command of English.

If required the ECRAN team and the trainees will sign declarations of confidentiality.

The proportion of the GHG emissions from the selected sites have to be substantial of the total GHG emissions from the Fuel Combustion Activities (1A) in the selected beneficiary country; The list of sites to be visited will be approved by the focal points. The beneficiary will notify the selected installations and request their full cooperation during the site visits.

Step b) Implementation of training programme. Three regional trainings will be implemented on site. Issues to be addressed in the training will include.

- Activity data collection
- Gap filling, alternative recalculation techniques and adjustments
- Selection and application of emission factors to estimate emissions
- The application of different tier methodologies in line with the Guidance documents as per Monitoring and Reporting Regulation
- Preparation of input data for the CRF Reporter software
- QC checks and verification
- Key category analysis (level and trend)
- Uncertainty analysis and expert judgement.

Step c) Assessment report. The results from the training will feed into an assessment report. The report will include recommendations for short and long-term inventory improvements in relation to applied methodology, activity data and emission factors in the beneficiaries.



Planned trainings will be delivered in close coordination with TAIEX Unit that will be responsible for provision of non-key experts and organisation of logistics (training venue, accommodation and transport of registered participants, etc.). Delivered trainings will be evaluated in order to follow the level of reaching the training objectives.

In summary: **Required outputs under Sub-Task 2.1 C**

No.	Date	Key outputs	Observations
1	June - July 2014	Selection of three industrial pilot sites for regional training	NA
2	October 2014 June 2015 March 2016	Three Regional Module 3 Trainings (combination of on –site and classroom)	NA
3	November 2014 July 2015 April 2016	Three Module 3 Training Reports	NA

Task 2.2: Capacity building on GHG inventory process for the other Sectors (CRF Sectors 2 - 6) in line with the MMR and the UNFCCC requirements

Preparation of data using the MMR requirements for other CRF sectors (according to IPCC classification), including expert training on basic reporting elements for LULUCF sector under the UNFCCC and the Kyoto Protocol. The key source categories to be considered will be decided during a regional expert meeting, involving EU Member State and EEA experts. Practical hands-on-training and assistance will be delivered in utilizing the IPCC Guidelines and the IPCC Good Practice Guidance and the CRF Reporter software for the key source categories considered. This will also include technical assistance on the institutional, legal and procedural arrangements which are linked to the planning, preparation and management of the GHG inventory.

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 2.2 - A: Regional technical training seminars on GHG inventories work on CRF Sectors 2 – 6.**
- **Sub-Task 2.2- B: Regional MMR exercise on selected sector**

Hereafter a detailed description of deliverables is described:

Sub-Task 2.2 - A: Regional technical training seminars on GHG inventories work on CRF Sectors 2 – 6.

Regional training on GHG inventories for CRF key sectors 2 – 6. The purpose of the training is to address all issues related to preparation of GHG emissions estimates and filling the CRF tables for the sectors

- a) Training 1: Industrial processes (CRF Sector 2) – (November 2014)
- b) Training 2: Solvent and other product use (CRF Sector 3)– (November 2014)
- c) Training 3: Agriculture (CRF Sector 4) – (February 2015)
- d) Training 4: LULUCF (CRF Sector 5) – (April 2015)
- e) Training 5: Waste (CRF Sector 6)– (September 2015)

In summary: **Required outputs under Sub-Task 2.2 A**

No.	Date	Key outputs	Observations
1	November 2014	Training 1: Industrial processes (CRF Sector 2)	Combined with Workshop 2 on CRF Sector 3
2	November 2014	Training 2: Solvent and other product use (CRF Sector 3)	Combined with Workshop 1 on CRF Sector 2
3	February 2015	Training 3: Agriculture (CRF	NA



No.	Date	Key outputs	Observations
		Sector 4)	
4	April 2015	Training 4: LULUCF (CRF Sector 5)	NA
5	September 2015	Training 5: Waste (CRF Sector 6)	NA

Sub-Task 2.2- B: Regional MMR exercise on selected sector

Practical hands-on-training and assistance will be delivered in utilizing the IPCC Guidelines and the IPCC Good Practice Guidance and the CRF Reporter software for the key source sectors considered. National training teams formed from academia and research institutes will be formed to start working on data gathering and calculation of GHG emissions (and sinks) for a selected CRF sector.

The main purpose of the exercise is to start developing improved knowledge and capacity, and also gradually improving/increasing the technical and institutional ability of the ECRAN countries to prepare submissions of the National Inventory Reports in the framework of the MMR.

As such, the exercise should be seen as a crucial step that should lead to the following concrete results:

- Result 1: Identified gaps (data quality and availability with focus on institutional and legal aspects) for selected CRF sector
- Result 2: Gap filling requirements to establish a sound framework for data flow
- Result 3: Recommendations to translate the above into potential national or regional IPA project fiches to address identified gaps

The above exercise's focus concentrates on improving the process of the preparation of sound inventories towards a full and harmonised GHG inventory using the appropriate guidelines and tools. The focus will be on one of the Sectors 2 – 6. This will be decided during the Annual meeting with the Focal points.

In summary: **Required outputs under Sub-Task 2.2 B**

No.	Date	Key outputs	Observations
1	May 2015	Selected CRF sector for each ECRAN beneficiary	NA
2	June 2015	National teams identification and selection	NA
3	September 2015 – June 2016	Pilot exercise on filling CRF for selected CRF sector - Hands on assistance	NA
4	June 2016	Regional Workshop to present results	NA

Task 2.3: Capacity building on other reporting elements of the MMR

Regional trainings to the relevant national experts on other elements of the EU Monitoring Mechanism Regulation, including the UNFCCC requirements for National Communications and Biennial Reports. As such the regional training will address in particular: EU Procedures for reporting; functioning of Registries; Reporting on PAMs (Policies and Measures) of GHGs by sources and removals by sinks; National systems for policies, measures and projections, the use of models for projections, etc.

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 2.3 A:** Regional Training on various aspects of the MMR
- **Sub-Task 2.3 B:** Best practice document for a fully functioning MMR system

Hereafter a detailed description of deliverables is described:



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Sub-Task 2.3 A: Best practice document for a fully functioning MMR system

A best practice document will be prepared which describes in detail the technical, institutional and legal steps to take towards a fully functioning MMR system. The document will also describe systems in different Member States.

In summary: **Required outputs under Sub-Task 2.3 B**

No.	Date	Key outputs	Observations
1	June 2015	Best Practice Document on MMR implementation - Examples Member States - Steps towards full functioning system	NA

Sub-Task 2.3 B: Regional training on various aspects of the MMR

Two regional trainings will be held on selected elements of the MMR. The following trainings are foreseen:

- Training 1: Training on the functioning of national systems in the framework of the MMR: Minimum legal and institutional requirements (September 2014)
- Training 2: Regional training on selected topic: Eg. Reporting on policies and measures (PAMs), Registry. etc. (June 2015)

In summary: **Required outputs under Sub-Task 2.3 A**

No.	Date	Key outputs	Observations
1	September 2015	Training 1: National Systems	Combined with Workshop 2 under Task 1.1. B
2	June 2016	Training 2: Selected topic s	One or more regional trainings on selected topics



Summary of timing of activities in this working Group Nr 2 (MMR)

	2014				2015				2016			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Task 2.1 A. Module 1: Regional on-site-training	WS1											
Task 2.1 B. Module 2: CRF and uncertainty assessment		WS2										
Task 2.1 C. Module 3: Field training energy sector			Prep	WS3			WS4			WS5		
Task 2.2 A. Regional CRF sectors (2 - 6) Training				WS6 WS7	WS8	WS9	WS10					
Task 2.2 B. Regional MMR exercise						Prep	PE	PE	PE	PE/WS		
Task 2.3 A: Regional MMR special topics training							WS8			WS9		
Task 2.3 B. MMR best practice document						BPD				BPD		

WS = Training workshop
 Prep = Preparatory work (site selection, pilot exercise teams)
 PE = Pilot exercise
 BPD = Best Practice document

Please note that timing of events will consider combining events of different activities to take into account the current limited absorption capacity in beneficiaries



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ECRAN – Climate Activity 3 Working Group 3: Emissions Trading System

Project Activities:

Activity 3: Emissions Trading System

- **Tasks 3.1: Regional Training Programme on the EU MMR and A&V Regulations**
 - **Sub-Task 3.1 A:** ETS Training Needs Assessment and training programme design
 - **Sub-Task 3.1 B:** Module 1: Regional Aircraft operators training
 - **Sub-Task 3.1 C:** Module 2: Regional training on the MR and the A&V Regulations
 - **Sub-Task 3.1 D:** Module 3: Regional training on the MR Regulation
- **Task 3.2: Training missions to EU Member States**
 - **Sub-Task 3.2 A:** Training missions at a competent authority implementing the EU ETS in their country
- **Task 3.3: ETS Implementation and ETS strategy and roadmap development**
 - **Sub-Task 3.3 A:** Regional Seminars on ETS implementation and ETS strategy development
 - **Sub-Task 3.3 B:** Development of national/regional ETS roadmaps

Introduction

During RENA the ETS component targeted the competent authorities as primary target group. However, in order to have a future sound Monitoring Reporting and Verification system in place it is necessary to expand this target group and to start working with the operators and other relevant authorities under the motto: “Poor quality applications for permits will provide poor quality permits; High quality applications for permits will provide high quality permits”.

Competent authorities **and operators of installations and aircraft operators and potential verifiers** must be endowed with the necessary capacity to fulfil, within the appropriate time-frames and on a permanent basis, the requirements under the directive.

The ETS programme therefore includes the design and implementation of a regional training programme targeted at the above stakeholders on at least the following subjects:

- General Training on the Emissions Trading Directive and implementing provisions
- Targeted technical training on monitoring plans and emissions reports and reporting on tonne-kilometre data
- Training on benchmarking and the preparation of National Implementation Measures (NIMs)
- The functioning of the auctioning platform(s)
- Duties in relation to operating a registry (either as a separate registry or as a central; administrator to the Union Registry)

The ECRAN ETS Working Group will concentrate on two specific implementing provisions;

- Commission Regulation (EU) 601/2012 (**Monitoring and Reporting Regulation, MRR**) that establishes guidelines for the monitoring and reporting of greenhouse gas emissions by installations in the scheme pursuant to Directive 2003/87/EC. These guidelines are effective as from 1 January 2013, from the start of the third trading period. This Regulation builds on the previous monitoring and reporting guidelines



that were implemented through Decision 2007/589/EC and that were applicable during the second period of the scheme (2008 to 2012). The monitoring and reporting guidelines provide detailed technical interpretation of the requirements set out in Article 14 and in Annex IV to the directive. It aims at establishing basic monitoring methodologies to minimise the burden on operators and aircraft operators and facilitate the effective monitoring and reporting of greenhouse gas emissions pursuant to Directive 2003/87/EC.

- In addition Commission Regulation (EU) 600/2012 (**Verification and Accreditation Regulation**) will be addressed, as this Regulation applies to the verification of greenhouse gas emissions and tonne-kilometre data occurring from 1 January 2013 and sets out a framework of rules for the accreditation of verifiers to ensure that the verification of operator's or aircraft operator's reports in the framework of the EU ETS, to be submitted in accordance with the MMR (Commission Regulation (EU) No 601/2012) is carried out by verifiers that possess the technical competence to perform the entrusted task in an independent and impartial manner and in conformity with the requirements and principles set out in this Regulation.

The Working Group will also encourage and support the development of regional or national ETS roadmaps modelled along the EU ETS. This will entail regional seminars on ETS implementation and strategy development followed up by practical hands-on assistance and short missions to support the drafting and fine-tuning of these ETS roadmaps.

This workplan covers the full period of ECRAN (i.e. October 2013 – October 2016). Under this workplan, the following specific task will be implemented:

- **Tasks 3.1: Regional Training Programme on the EU MMR and A&V Regulations**
- **Task 3.2: Training missions to EU Member States**
- **Task 3.3: ETS Implementation and ETS strategy and roadmap development**

Beneficiary

The beneficiaries are the Ministries of Environment of the beneficiary countries (Albania, Bosnia and Herzegovina, Croatia, the former Yugoslav Republic of Macedonia, Iceland, Kosovo*⁴, Montenegro, Serbia and Turkey). In addition the other ministries and other bodies and institutions will need to be actively engaged in so far as their work is relevant for the scope of ECRAN (such as in the fields of energy, transport, agriculture, economy, health, finance), environment and other agencies, statistical institutions, inspectorates, and other relevant central, regional and local public authorities working on climate issues in the beneficiary countries, environmental NGOs. Other stakeholders will be involved as appropriate.

The ECRAN beneficiaries are expected to nominate National ECRAN Climate Coordinators to enable to perform their steering and advisory function tasks as in RENA. In order to strengthen inter-institutional cooperation in the ECRAN activities, **National Advisory Boards** are requested to be set-up in the ECRAN beneficiaries, consisting of the relevant line Ministries that have a role in relevant climate change policy development and implementation (eg Environment, Energy, Transport, Economy, Agriculture).

Objectives

Overall objective

The overall objective is to strengthen regional cooperation between the EU candidate countries and potential candidates in the fields of environment and climate action and to assist them on their way towards the

⁴ This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ opinion on the Kosovo declaration of independence.



transposition and implementation of the EU environmental and climate policies and instruments which is a key precondition for EU accession.

Specific objectives

This Working Group's objective is to provide the essential regulatory building blocks and increase technical capacity for, a future national or regional functioning ETS system, which is modelled along the EU ETS.

The following results are expected for this Working Group:

- Improved technical understanding of the ETS implementing provisions in relation to monitoring, reporting, verification and accreditation in the beneficiary countries among the target group industry and aircraft operators, as well as competent authorities and potential verifiers.
- Institutional, legal and procedural arrangements identified for a national or regional ETS like system which is modelled along the EU ETS

Task 3.1: Regional Training Programme on the EU MRR and A&V Regulations

This will include a regional training programme on the EU Monitoring and Reporting, and Accreditation and Verification Regulations targeted at operators, authorities and verifiers, and on the basis of guidance that is under development within the EU ETS Compliance Forum. The engagement of national inspectorates will be coordinated with the ECENA Working Group.

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 3.1 - A: ETS Training Needs Assessment and training programme design**
- **Sub-Task 3.1- B: Module 1: Regional Aircraft operators training**
- **Sub-Task 3.1 – C: Module 2: Regional Training on the MR and the A&V Regulations**
- **Sub-Task 3.1 – D: Module 4: Regional Training on the MR Regulation**

Hereafter a detailed description of deliverables is described:

Sub-Task 3.1 - A: ETS Training Needs Assessment and training programme design

This task will establish the level of detail required for a future regional training programme targeted mainly at operators of ETS like installations and aircraft operators as well as the future potential verifiers. To this end a questionnaire will be prepared and distributed to the already identified ETS like installations in the region. On the basis of the outcome of the questionnaire a tailor made multi-module training programme will be prepared for the region.

In anticipation of the outcome of this TNA, already now 3 modules are proposed which are outlined in the ECRAN Technical proposal.

In summary: **Required outputs under Sub-Task 3.1 A**

No.	Date	Key outputs	Observations
1	November 2013 – February 2014	Training Needs assessment, based on questionnaire and training programme design (4 Modules)	NA
2	February 2014	Training Programme design (3 modules)	NA



Sub-Task 3.1- B: Module 1: Regional Aircraft operators training

Module 1 will be designed as two-day regional training focusing on inclusion of aviation into the EU ETS. Issues to be addressed in the training are the following:

- EU ETS Directive with special emphasis on Articles 3(a) – 3(g)
- Compliance cycle: Tasks of aircraft operators; Competent authorities; EU Commission; Verifiers; Accreditation
- Monitoring and reporting of tonne kilometre data
- Monitoring plan for the emissions - templates
- Monitoring plan for the tonne-kilometre data - templates
- Verification for EU ETS aviation
- Verification of small emitters and the Eurocontrol small emitter's tool
- Best practice examples from the EU Member States

The training is planned to be held in March 2014 in Istanbul. The main target groups are the aircraft operators registered in the region and the (potential) competent authorities.

In summary: **Required outputs under Sub-Task 3.1 B**

No.	Date	Key outputs	Observations
1	February 2014	Training Workshop preparations (agenda, identification of ECRAN and TAIEX experts, mission ToRs for experts)	NA
2	March 2014	Training workshop implementation and implementation (Module 1)	NA

Sub-Task 3.1 – C: Module 2: Regional Training on the MR and the A&V Regulations

The purpose of the training is to train the target group on two implementing provisions of the EU ETS Directive:

- **Commission Regulation (EU) No 600/2012** of 21 June 2012 on the **verification** of greenhouse gas emission reports and tonne-kilometre reports and the **accreditation** of verifiers pursuant to Directive 2003/87/EC of the European Parliament and of the Council
- **Commission Regulation (EU) No 601/2012** of 21 June 2012 on the **monitoring and reporting** of greenhouse gas emissions pursuant to Directive 2003/87/EC of the European Parliament and of the Council

One regional training is planned to be held in September 2014 in Zagreb. The main target groups are the competent authorities from the region.

In summary: **Required outputs under Sub-Task 3.1 C**

No.	Date	Key outputs	Observations
1	June – August 2014	Training Workshop preparations (agenda, identification of ECRAN and TAIEX experts, mission ToRs for experts)	NA
2	September 2014	Training workshop implementation and implementation	NA



Sub-Task 3.1 – D: Module 3: Regional Training on the MR Regulation

Module 3 will contain technical trainings targeted mainly at the operators of stationary ETS like installations.

The following three training sessions are foreseen:

- Module 3 - a: Advanced technical training on the M&R Regulation for operators of ETS like installations in Turkey
- Module 3 - b: Advanced technical training on the M&R Regulation for operators of ETS like installations in Croatia
- Module 3 – c: Advanced technical training on the M&R Regulation for operators of ETS like installations in Serbia

For Module 3 also ETS like installations from the other ECRAN beneficiaries will be encouraged to participate.

In summary: **Required outputs under Sub-Task 3.1 D**

No.	Date	Key outputs	Observations
1	September 2014	Training Workshop preparations (agenda, identification of ECRAN and TALEX experts, mission ToRs for experts)	NA
2	November 2014	Module 3 - a: Advanced technical training on the M&R Regulation for operators of ETS like installations in Turkey	NA
3	March 2015	Module 3 - b: Advanced technical training on the M&R Regulation for operators of ETS like installations in Croatia	NA
4	March 2016	Module 3 - c: Advanced technical training on the M&R Regulation for operators of ETS like installations in Serbia / Montenegro	NA

Task 3.2: Training missions to EU Member States

Staff from various authorities (dedicated to climate change and/or to ETS related tasks) will be invited to participate in hands-on-job training at a competent authority implementing the EU ETS.

The following sub-task will be implemented in the framework of this task:

- **Sub-Task 3.2 - A: Training missions at a competent authority implementing the EU ETS in their country**

Hereafter a detailed description of deliverables is described:

Sub-Task 3.2 - A: Training missions at a competent authority implementing the EU ETS in their country

Two training missions are proposed to be implemented for maximum 5 experts from the Competent Authorities in the ECRAN beneficiary countries to an EU Member State competent authority implementing the ETS. The purpose of the training is to expose trainees on all the ins and outs of the implementation of the ETS. Participants are expected to fill in an evaluation of the training course. At this moment training is proposed to be implemented in the Netherlands and in Slovenia (tbc).



In summary: **Required outputs under Sub-Task 3.2 A**

No.	Date	Key outputs	Observations
1	September 2014	Training mission 1 – Slovenia (TBC)	NA
2	September 2015	Training mission 2 – The Netherlands (TBC)	NA

Task 3.3: ETS implementation and ETS Strategy and roadmap development

This task is dedicated to all legal and institutional requirements related to EU ETS implementation. It will be based on best practices and experiences from Member States. In addition hands-on assistance and short missions will be held to support the drafting, fine-tuning and implementation of national / regional ETS roadmaps, modelled along the EU ETS.

The following issues will be addressed:

- Candidate countries should approximate, as far as possible, any existing procedures and methodologies to those established under the ETS Directive. If their accession is due before the end of the third trading period, they should plan to start working on identifying which installations may be subject to the directive and on work with the common auctioning platform.
- Candidate countries should consider whether it is feasible to consolidate their registry with that of another Member State and should assess the technical requirements for establishing and operating the national registry, paying close attention to the Union Registry. Candidate countries should also phase in their provisions and procedures to the allowance scheme, comprising a certain amount of allowances provided for free to installations belonging to the listed sectors and sub-sectors set out in Decision 2010/2, which are considered at particular risk for carbon leakage. Installations which meet certain efficiency benchmarks are eligible for certain or all allowances for free (provided it is not power stations).
- Candidate countries should also start guiding operators regarding permitting requirements and requisites for monitoring and reporting and for the verification of annual emission reports and should provide for the necessary procedures in respect of the accreditation of verifiers. As a first step MMR and AVR aspects could be developed for a future ETS system.
- National authorities need to ensure the necessary capacity building, both logistically and in terms of human resources. Considerable time is needed to ensure that stakeholders are well aware of the legal implications of the directive, and the authorities involved should agree on a plan to ensure that the time-frames for the implementation of the obligations stipulated in the directive will be respected, while at the same time guaranteeing the accuracy, transparency and comparability of the information submitted.
- The option of developing a regional ETS, modelled along the EU ETS will be explored as well. Linking the EU ETS with these other cap-and-trade systems offers several potential benefits, including reducing the cost of cutting emissions, increasing market liquidity, making the carbon price more stable, levelling the international playing field and supporting global cooperation on climate change.

The following sub-tasks are foreseen:

- **Sub-Task 3.3 A: Regional Seminars on ETS implementation and ETS strategy development**
- **Sub- Task 3.3 B: Development of national/regional ETS roadmaps**

Hereafter a detailed description of deliverables is described:

Sub-Task 3.3 A: Regional Seminars on ETS implementation and ETS strategy development

Two regional seminars will be held on the EU ETS implementation requirements. It will address in detail all obligations for authorities and participants in the emission trading schemes. The Seminars will address the steps to take towards full implementation of an ETS system modelled along the EU ETS. Experiences from



Member States, but also third countries will be addressed. Issues to be addressed include all aspects related to ETS implementation.

- Planning of implementation
- Permitting
- Allocation and issuing of allowances though auctioning: Benchmarking, Carbon leakage, Auctioning; Preparation of National Implementing Measures (NIMs)
- Registries
- Kyoto protocol project mechanism credits
- Aviation inclusion into the EU ETS
- Public participation
- Monitoring, reporting, verification and accreditation
- Reporting

Options for phasing in tasks towards a full, implementation will be considered in the workshops.

In summary: **Required outputs under Sub-Task 3.3 A**

No.	Date	Key outputs	Observations
1	June 2014	Seminar 1 on ETS implementation. Steps towards full implementation	Back to back with first expert mission task 3.3B
2	March 2015	Seminar 2 on ETS implementation. Steps towards full implementation	NA

Sub-Task 3.3 B: Development of national/regional ETS roadmaps

This task will include the development of a best practice document for implementation of the ETS system modelled along the EU ETS. The document will address the minimum legal and institutional requirements and steps to take towards full implementation. If required assistance could be provided for the development of IPA project proposals on ETS implementation. The objective should target the increase of effectiveness, while not duplicating the efforts of the on-going and planned bilateral IPA and other support projects. We foresee in total 5 short term missions to be covered by ECRAN or TAIEX experts to provide hands-on assistance on developing ETS roadmaps and related tasks.

In summary: **Required outputs under Sub-Task 3.3 B**

No.	Date	Key outputs	Observations
1	June 2014	Mission 1 – National ETS Roadmap <ul style="list-style-type: none"> - Preparation of ECRAN/TAIEX mission - Monitoring and coordinating the ECRAN/TAIEX missions 	NA
2	September 2014	Mission 2 – National ETS Roadmap <ul style="list-style-type: none"> - Preparation of ECRAN/TAIEX mission - Monitoring and coordinating the 	NA



No.	Date	Key outputs	Observations
		ECRAN/TAIEX missions	
	March 2015	Mission 3 – National ETS Roadmap <ul style="list-style-type: none"> - Preparation of ECRAN/TAIEX mission - Monitoring and coordinating the ECRAN/TAIEX missions 	NA
	September 2015	Mission 4 – National ETS Roadmap <ul style="list-style-type: none"> - Preparation of ECRAN/TAIEX mission - Monitoring and coordinating the ECRAN/TAIEX missions 	NA
	March 2016	Mission 5 – National ETS Roadmap <ul style="list-style-type: none"> - Preparation of ECRAN/TAIEX mission - Monitoring and coordinating the ECRAN/TAIEX missions 	NA



Summary of timing of activities in this working Group Nr 3 (ETS)

	2014				2015				2016			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Task 3.1 A. ETS TNA	TNA											
Task 3.1 B. Module 1: ETS and aviation	WS1											
Task 3.1 C. Module 2: MR and AV Regulations			WS2									
Task 3.1 D. Module 3: Regional Operators Training			Prep	WS3	WS4				WS5			
Task 3.2 A. Training missions Member States				TM1			TM2					
Task 3.3 A. ETS implementation Seminar		S1			S2							
Task 3.3 B: ETS Roadmaps / missions		M1	M2		M3		M4		M5			

WS = Training workshop
Prep = Preparatory work
TM = Training Mission Member State
M = TAIEX Missions ETS Roadmaps / Strategies

Please note that timing of events will consider combining events of different activities to take into account the current limited absorption capacity in beneficiaries



ECRAN – Climate Activity 4 Working Group 4: Climate Adaptation

Project Activities:

Activity 4: Adaptation

- **Tasks 4.1: Best practices on adaptation**
 - *Sub-Task 4.1 A: Regional Seminar on Climate Change Adaptation*
 - *Sub-Task 4.1 B: Regional expert training for relevant sectors*
- **Task 4.2: Support for the identification of adaptation options**
 - *Sub-Task 4.2 A: Prioritisation of adaptation needs*
 - *Sub-Task 4.2 B: Identify adaptation options*
 - *Sub-Task 4.2 C: Prioritise adaptation options*
 - *Sub-Task 4.2 D: Propose required policy changes, structures and processes for adaptation*

Introduction

A follow-up programme to RENA should build on the regional political interest on adaptation to climate change as demonstrated by regional initiatives such as the Belgrade Initiative, the Regional Forum for Climate Change, the 2012 Ministerial meeting in Tirana and the Sub-Regional Virtual Climate Change Centre.

By complementing the above activities, the ECRAN can support action by promoting greater coordination and information sharing between the ECRAN beneficiaries, and by promoting that adaptation considerations will be addressed in all relevant policies.

Emphasis will be put climate change impacts that transcend borders of ECRAN beneficiaries, such as with river basins. In addition, the ECRAN activities will include the identification of existing and new mechanisms that allow the regions most affected by climate change are capable of taking the necessary measures to adapt.

The Commission adopted an EU adaptation Strategy in April 2013. Complementing the activities of Member States, the strategy supports action by promoting greater coordination and information-sharing between Member States, and by ensuring that adaptation considerations are addressed in all relevant EU policies.

In line with the EU adaptation Strategy, ECRAN will focus on three key objectives:

- **Promoting action by ECRAN beneficiaries:** The Adaptation Working of ECRAN group will encourage all beneficiaries to adopt comprehensive adaptation strategies and will provide support to help them build up their adaptation capacities and take action.
- **Promoting 'Climate-proofing' action** by further promoting adaptation in key vulnerable sectors such as agriculture, forestry, water management, nature protection, ensuring that the infrastructure is made more resilient.
- **Better informed decision-making** by addressing gaps in knowledge about adaptation. ECRAN will address adaptation action by aligning adaptation activities with the European climate adaptation platform (Climate-ADAPT) as the 'one-stop shop' for adaptation information in Europe



This workplan covers the full period of ECRAN (i.e. October 2013 – October 2016). Under this workplan, the following specific task will be implemented:

- Tasks 4.1: Best practices on adaptation and regional training on vulnerability assessments
- Task 4.2: Support for the identification of adaptation options

Beneficiary

The beneficiaries are the Ministries of Environment of the beneficiary countries (Albania, Bosnia and Herzegovina, Croatia, the former Yugoslav Republic of Macedonia, Iceland, Kosovo*⁵, Montenegro, Serbia and Turkey). In addition the other ministries and other bodies and institutions will need to be actively engaged in so far as their work is relevant for the scope of ECRAN (such as in the fields of energy, transport, agriculture, economy, health, finance), environment and other agencies, statistical institutions, inspectorates, and other relevant central, regional and local public authorities working on climate issues in the beneficiary countries, environmental NGOs. Other stakeholders will be involved as appropriate.

The ECRAN beneficiaries are expected to nominate National ECRAN Climate Coordinators to enable to perform their steering and advisory function tasks as in RENA. In order to strengthen inter-institutional cooperation in the ECRAN activities, **National Advisory Boards** are requested to be set-up in the ECRAN beneficiaries, consisting of the relevant line Ministries that have a role in relevant climate change policy development and implementation (eg Environment, Energy, Transport, Economy, Agriculture).

Objectives

Overall objective

The overall objective is to strengthen regional cooperation between the EU candidate countries and potential candidates in the fields of environment and climate action and to assist them on their way towards the transposition and implementation of the EU environmental and climate policies and instruments which is a key precondition for EU accession.

Specific objectives

This Working Group's objective is to support and build on the regional efforts on adaptation by helping ECRAN countries to improve their resilience and capacity to adapt to climate change.

The following results are expected for this Working Group

- Improved knowledge and capacity on appropriate adaptation tools
- Appropriate adaptation options identified at regional level
- Tools and guidance on legal and institutional arrangements for implementing adaptation actions

Task 4.1: Best practices on adaptation

This activity will focus on the exchange and dissemination of knowledge and good practices on adaptation, through regional events, trainings, improved access to available adaptation tools and other eventual mechanisms.

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 4.1 A: Regional Seminar on Climate Change Adaptation**
- **Sub-Task 4.1 B: Regional Expert Training on risk and vulnerability assessments**

⁵ This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ opinion on the Kosovo declaration of independence.



Hereafter a detailed description of deliverables is provided:

Sub-Task 4.1 - A: Regional Seminar on Climate Change Adaptation

The Adaptation Working Group will start with a regional High Level kick-of-seminar. The starting point in the ECRAN Climate Adaptation Working Group is the European Climate Change Strategy and to promote engagement of the candidates and potential candidates in the coordination and information sharing between EU Member States, the Commission, and the ECRAN beneficiaries. Therefore, apart from the ECRAN beneficiaries, the Seminar will seek participation of DG Clima and the European Environmental Agency, as well as some selected Member States. The Seminar's aims are to :

- outline the current EU framework on Adaptation and explain EU best practices..
- To present and outline the on-line tool developed in the framework of the European Climate Adaptation Platform (Climate-Adapt). The on-line tool has been designed to support policy-makers at national, regional and local levels in the development of climate change adaptation measures and policies.
- To select priorities for the regional training on risk and vulnerability assessments
- To refine and identify the best way forward for the ECRAN Climate Change Adaptation Working Group

The Seminar will outline the current EU framework on Adaptation and explain EU best practices. The Seminar will be held in close collaboration with the European Climate Adaptation Platform. The Seminar will also refine and identify the best way forward for the ECRAN Climate Change Adaptation Working Group.

We anticipate participation of the EEA and DG Clima and sufficient high level from the ECRAN beneficiaries. The starting point is the European Climate Change Strategy and to promote engagement of the candidates and potential candidates in the coordination and information sharing between EU Member States, the Commission, and the ECRAN beneficiaries. The Climate-Adapt Platform tools will be used to support adaptation policy development and decision making. We agree that also the integration of the science policy forum's products and outputs in the work ahead is necessary. To keep the momentum which has been created by the EEA adapt regional workshops in April and October 2013, we propose to build on the tools that are available now and to take on board any other necessary models and tools that will be developed later on.

In summary: **Required outputs under Sub-Task 4.1 A**

No.	Date	Key outputs	Observations
1	December 2013 – April 2014	Regional High Level ECRAN Climate Adaptation Seminar	NA

Sub-Task 4.1 B: Regional Training on risk and vulnerability assessments

This activity will include a regional training programme on conducting risk and vulnerability assessments for relevant sectors such as agriculture, forestry, bio-diversity, energy, transport, water, health, civil protection, and disaster risk reduction.

Three priority sectors will be chosen in the previous Seminar to be addressed in full in the training sessions. Three regional trainings (duration of each training up to two days) will be provided on vulnerability and risk assessments in specific sectors. Three priority sectors will be selected for the training on the basis of a preliminary assessment done in the First Regional Seminar and during a subsequent training needs assessment in the region. The training needs assessment will be done on the basis of a questionnaire and interviews. The sectors to be covered could include:



- Agriculture and forestry
- Coastal areas, marine and fisheries
- Water management (in close cooperation with the ECRAN Working Group on Water)
- Biodiversity (in close cooperation with the ECRAN Working Group on Nature)
- Health
- Transport
- Civil protection
- Disaster risk reduction

In addition the trainings will include a session on adaptation planning, drawing on the EU Guidelines on National Adaptation Strategies.

In summary: **Required outputs under Sub-Task 4.1 B**

No.	Date	Key outputs	Observations
1	June – July 2014	- Training Needs Assessment and Training Proposal Report	NA
2	November 2014	- Training 1 preparations (agenda, identification of ECRAN and TAIEX experts, mission ToRs for experts) - Training 1 implementation and workshop reporting	NA
3	March 2015	- Training 2 preparations (agenda, identification of ECRAN and TAIEX experts, mission ToRs for experts) - Training 2 implementation and workshop reporting	NA
4	October 2015	- Training 3 preparations (agenda, identification of ECRAN and TAIEX experts, mission ToRs for experts) - Training 3 implementation and workshop reporting	

Task 4.2: Support for the identification of adaptation options (Adaptation Planning)

This task includes regional training and support for the identification of adaptation options at regional and national level and development of tools and guidance on legal and institutional arrangements, with a view to cooperation in the regional context (e.g. regional adaptation planning). Also, it will include assistance to identify available and new mechanisms that allow decision makers to integrate climate risks into relevant policy interventions. The task will consider building governance systems to ensure participation of stakeholders and a balance between top-down and bottom-up processes

The work under this ECRAN Adaptation Working Group has been designed in such a way that we start actual work towards adaptation policy development with the principles of engagement of experts from the region



to deliver tangible results in this field with the on-the-job assistance from EU Member States through the TAIEX instrument. The purpose of this exercise is to support the identification of adaptation options at the regional and national level and to develop tools and guidance on legal and institutional arrangements.

The actual regional work will be coordinated through ECRAN and each step will be completed with a

- Report 1: Regional Report on the analysis and prioritisation of adaptation needs in the ECRAN region
- Report 2: Adaptation options in the ECRAN region
- Report 3: Prioritisation and selection of adaptation options in the region. Detailed description of options, including timing, budgets and responsibilities
- Report 4: Guidelines on the legal and institutional modalities for adaptation implementation in the region

This work will be accomplished by regional experts to be engaged/contracted through ECRAN with targeted inputs from EU MS experts in each step. Yes it is ambitious, but the idea is to target tangible results that will set the ground for meaningful adaptation policy development in the region, aligned with the EU best practices, the Strategy and the tools developed in the framework of Climate-Adapt.

The following sub-tasks will be implemented in the framework of this task:

- **Sub-Task 4.2 A: Prioritisation of adaptation needs**
- **Sub-Task 4.2 B: Identify adaptation options**
- **Sub-Task 4.2 C: Prioritise adaptation options**
- **Sub-Task 4.2 D: Propose required policy changes, structures and processes for adaptation**

Hereafter a detailed description of deliverables is provided:

Sub-Task 4.2 A: Prioritisation of adaptation needs

It is necessary to analyse potential direct and indirect impacts of climate change in the short and long term for the region. The task will go through the following steps:

- Step 1 Identify 'key systems' (e.g. ecosystems, important economic sectors, critical infrastructure, vulnerable population groups)
- Step 2 Analyse the impacts of past weather events and recent climate trends on key systems
- Step 3 Assess potential likely future climate and socio-economic scenarios
- Step 4 Identify potential impacts of climate change including cost, magnitude, timing, persistence, reversibility, likelihood, and distributional aspects
- Step 5 Assess the vulnerability of key systems to current and potential future impacts
- Step 6 Rank potential impacts to be addressed by adaptation at first and later on

Exploration of potential impacts should also consider non-climatic factors and developments (e.g. demographic and socio-economic changes, habitat destruction by land use) as these will also influence climate change impacts (e.g. heat fatalities, biodiversity loss). Therefore, an interdisciplinary approach (considering also ecosystem services (with cross-sectional priority)) should be favoured. Stakeholder agreements on criteria for estimating the importance of the various impacts can help to rank potential impacts to identify priority adaptation needs.

In summary: **Required outputs under Sub-Task 4.2 A**

No.	Date	Key outputs	Observations
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1	May - June 2014	Identification of ECRAN and TAIEX experts, mission ToRs for experts	NA
2	July – December 2014	Document on the analysis and prioritisation of adaptation needs in the region	NA

Sub-Task 4.2 B: Identify adaptation options

After prioritising the adaptation needs, a wide spectrum of adaptation options, including behavioural, technological, infrastructural, informational, organizational, ecosystem- based and socio-economic options at all levels, sectoral as well as cross-sectoral, should be investigated at the appropriate (temporal and spatial) scale. All possible adaptation options should be characterized in as much detail as feasible including information about:

- objectives,
- direct and indirect effects with emphasis on potential benefits
- duration and spatial scope,
- socio-economic and ecological context,
- interplay between options,
- cross-sectoral interactions,
- financial resources needed,
- responsible actors and opponents, etc.

This will help to determine how the adaptation actions can be best interconnected with existing structures and processes. Past and current adaptation experiences and adaptation initiatives in regions, sectors or organisations can provide a valuable knowledge base when assessing adaptive capacities and adaptation options.

In summary: **Required outputs under Sub-Task 4.2 B**

No.	Date	Key outputs	Observations
1	December – November 2014	Identification of ECRAN and TAIEX experts, mission ToRs for experts	NA
2	January – July 2015	Document on the adaptation options in the region	NA

Sub-Task 4.2 C: Prioritise adaptation options

From the wide spectrum of adaptation options, specific adaptation actions need to be selected based on adaptation objectives and criteria. Adaptation has to be tailored to spatial and temporal circumstances. In the majority of cases, different types of actions combined with learning elements should be applied as there will hardly ever be one optimum or final solution. Stakeholder discussions and agreements are very useful for a transparent decision making process on the main objectives, criteria and their weightings for the prioritisation of adaptation options.

Most often a multi-criteria analysis of adaptation options will be necessary. This analysis should include criteria such as importance, effectiveness, urgency, sustainability, co-benefits and side effects, reversibility, flexibility, resilience, robustness as well as political and cultural acceptability. Further, a comprehensive cost-benefit analysis considering also indirect costs and benefits, non-monetary values and externalities can be useful for prioritising adaptation options. Many adaptation actions can be implemented at relatively low costs with high benefits, e.g. the use of habitat adapted crops and tree species in agriculture and forestry. However, the information currently available about adaptation costs (both market and non-market costs) is



limited and it is often difficult (due to a lack of information and/or the complexity of the issues), especially in the long term, to quantify benefits.

Due to the broad range of potential future climate change impacts and the implicit uncertainties in prediction, multiple benefits and no-regret adaptation options should be favoured. Multiple benefits options provide synergies with other goals such as mitigation or sustainability (e.g. ecosystem based approaches). Examples include water saving devices in regions experiencing drought or insulation of buildings in regions exposed to heat waves. No-regret actions are beneficial in all plausible climate futures, such as early warning systems and insurance against floods. Actions which likely become costly (e.g. large and long-lived infrastructure projects), difficult to implement (e.g. spatial planning for nature conservation) or redundant (e.g. raising awareness) when postponed, should be undertaken immediately (due to long time spans before they take effect). In case of high danger of significant impacts in the near future, proactive adaptation interventions become especially urgent. In this regard it seems useful to put a timeframe for action against anticipated impacts to arrange responses according to their urgency.

In summary: **Required outputs under Sub-Task 4.2 C**

No.	Date	Key outputs	Observations
1	June - July 2015	Identification of (local) ECRAN and TAIEX experts, mission ToRs for experts	NA
2	August – December 2015	Document on the prioritisation and selection of adaptation options in the region. Detailed description of options, including timing, budgets and responsibilities (draft sectoral adaptation plans)	NA

Sub-Task 4.2 D: Propose required policy changes, structures and processes for adaptation

Adaptation should not be performed decoupled from existing policies (e.g. legislation, funding systems), management structures (e.g. networks) and processes (e.g. in decision making). Relevant instruments in place should be reviewed and adapted to be able to deal with current and future negative impacts of climate change. They should be modified in such a way to ensure that adaptation is truly apparent in a concrete decision.

Integrating adaptation through reviewing and modifying existing instruments shall not be restricted to the environmental sector or to the public authority; it also refers to economic sectors and private organisations such as businesses. Clearly assigned responsibilities (e.g. for coordination, information provision, taking actions), staff-training and a sufficient financial budget will enhance the success of integrating adaptation.

However, there may be cases where the modification of existing policies, structures and processes are insufficient to handle the adaptation needs and the development of new instruments is required.



In summary: **Required outputs under Sub-Task 4.2 D**

No.	Date	Key outputs	Observations
1	November – December 2015	Identification of ECRAN and TALEX experts, mission ToRs for experts	NA
2	January – June 2016	Guidelines on the legal and institutional modalities for adaptation implementation in the region	NA

Summary of timing of activities in this working Group Nr 4 (Climate Adaptation)

	2014				2015				2016			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Task 4.1 A. High Level ECRAN Climate Adapt Seminar		AS										
Task 4.1 B. Regional training risks / vulnerability assessments	TNA	TNA		WS1	WS2		WS3					
Task 4.2 A. Prioritise adaptation needs				R1								
Task 4.2 B Identify adaptation options						R2						
Task 4.2 C. Prioritise adaptation options							R3					
Task 4.2 D. Required policy (changes)										R4		

AS = High Level Adapt Seminar

WS = Training workshop

R = Regional Adaptation Exercise Reports

Please note that timing of events will consider combining events of different activities to take into account the current limited absorption capacity in beneficiaries



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Summary ECRAN Clima Workplan 2014 – Working Group 1

Working group 1: Climate Policy	2014											
	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Task 1.1 A. Regional Capacities Assessment	TNA	TNA	Training Plan									
Task 1.1 B. Regional Workshops	Training WS1								Training WS2		Training WS3	
Task 1.1 C. Practical training (pilot exercise)									Pilot Exercise	Pilot Exercise	Pilot Exercise	Pilot Exercise
Task 1.2 A. Climate acquis training						Training ODS/F					Training CCS	
Task 1.3 A. Back-to-back High Level Seminars						High Level 1			High Level 2			
Task 1.4 A: Practical hands on assistance and short missions				Mission 1							Mission 2	
Task 1.4 B. IPA Climate project pipeline development								Mission 1				



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Summary ECRAN Clima Workplan 2014 – Working Group 2

Working group 2: MMR	2014											
	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Task 2.1 A. Module 1: Regional on-site-training	<i>Preps</i>	<i>Mod 1 training</i>										
Task 2.1 B. Module 2: CRF and uncertainty assessment				<i>Preps</i>	<i>Mod 2</i>							
Task 2.1 C. Module 3: Field training energy sector						<i>Preps</i>	<i>Preps</i>			<i>Mod 3a training</i>		
Task 2.2 A. Regional CRF sectors (2 - 6) Training											<i>CRF 2/3 training</i>	
Task 2.2 B. Regional MMR exercise												
Task 2.3 A. MMR best practice document												
Task 2.3 B: Regional MMR special topics training												



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Summary ECRAN Clima Workplan 2014 – Working Group 3

Working group 3: ETS	2014											
	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Task 3.1 A. ETS TNA	TNA	Training Plan										
Task 3.1 B. Module 1: ETS and aviation			Mod 1 training									
Task 3.1 C. Module 2: MR and AV Regulations						Preps	Preps		Mod 2 training			
Task 3.1 D. Module 3: Regional Operators Training									Preps		Mod 3a	
Task 3.2 A. Training missions Member States									MS Training			
Task 3.3 A. ETS implementation Seminar						Seminar						
Task 3.3 B: ETS Roadmaps / missions						Mission 1			Mission 2			



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Summary ECRAN Clima Workplan 2014 – Working Group 4

	2014											
Working group 4: Adaptation	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Task 4.1 A. High Level ECRAN Climate Adapt Seminar	<i>Preps</i>	<i>Preps</i>	<i>Preps</i>	<i>Preps</i>	<i>Seminar</i>							
Task 4.1 B. Regional training risks / vulnerability assessments						<i>TNA</i>	<i>training plan</i>				<i>Worksh 1</i>	
Task 4.2 A. Prioritise adaptation needs							<i>Mission Tors</i>	<i>Reg exercise</i>	<i>Reg exercise</i>	<i>Reg exercise</i>	<i>Reg exercise</i>	<i>Report 1</i>
Task 4.2 B Identify adaptation options												<i>Mission Tors</i>
Task 4.2 C. Prioritise adaptation options												
Task 4.2 D. Required policy (changes)												



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