

“Capacity Development Project on Nationally Appropriate Mitigation Actions (NAMAs) in the Republic of Serbia”

Introduction of JICA Technical Cooperation Project

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Outline of the JICA Technical Cooperation Project

- Objective of the Project :
To develop the capacity of Serbian Government to produce and promote NAMA implementation
- Outputs:
 - 1: **General understanding** on NAMAs and MRV* is enhanced.
 - 2: Capacity to **shortlist MRV-able NAMAs** is developed.
 - 3: Capacity to **produce documents to promote implementation** of NAMAs is developed.
 - 4: Capacity to **promote recognition** of NAMAs is enhanced.
- Project period: From November 2010 to February 2013
- Implementing agency: Ministry of Energy, Development and Environmental Protection (MEDEP)
- Institutions concerned: Ministry of Construction and Urbanism, Ministry of Transport, Public Enterprise Electric Power Industry of Serbia, Public Enterprise Roads of Serbia

* Measurement, reporting and verification



Project Activity (1)

Activity 1: To enhance general understanding on NAMAs and MRV

- Collection and analysis of **information on NAMAs and MRV**
 - Collection of **information on the latest progress of international negotiations** regarding NAMA and MRV
 - Development of **Matrix of other countries' NAMAs** (over 120 NAMAs from 40+ Parties)

No.	Sector	Sub-sector	Party	NAMA	Category	Sub-measure	Boundary
E-1	Energy	Biofuel	Ethiopia	Bio-fuel Development for Road Transport and for household use. Project to produce 63.36 million L of ethanol (produce 421.6 million L of bioethanol)	Measures	Project	National
E-2	Energy	Biofuel	Ghana	Land preparation incentives use of bio-fuels for mechanized agriculture	Measures	Program	National
E-3	Energy	Biofuel	Chad	Promotion of renewable energy: use of biofuels	Measures	Program	Subsector
I-1	Industry	CCS	Ghana	Improvement of oil and gas production access, promote and incorporate carbon capture and storage (CCS) to oil and gas production and utilization	Measures	Program	National
I-2	Industry	Energy efficiency	Macedonia	Install biomass boiler in agro-industry, industry sector, and households	Measures	Program	National
I-3	Industry	Energy efficiency	Ghana	Improve power factor correction across industrial and institute energy efficient measures in industrial operations	Measures	Program	National
T-1	Transportation	Biofuel	Ghana	Promote the production and use of bio-fuels as transport fuel	Measures	Program	National
T-2	Transportation	Biofuel	Moldova	Promote the application and use of biofuels	Measures	Program	National
T-3	Transportation	Biofuel	Senegal	Develop biofuels from sugarcane, corn, rice husk etc.	Measures	Program	National
M-1	Misc across building	General policy and measure	Brunei	Formulate, implement, publish and regularly update national and, where appropriate, regional programs, containing measures to mitigate climate change.	Measures	Program	National

- Classification
1. Sector/ sub-sector
 2. Contents of NAMA
 3. Category/ sub-category
 4. Reference scenario
 5. NAMA target, etc.

Abstract of NAMA Matrix



Project Activity (2)

Activity 2: To develop capacity to shortlist MRV-able NAMAs

- Analysis on relevant **policies and projects from sub-sectors**

- Pilot sub-sectors
1. Energy saving in energy sector
 2. Energy saving in transport sector
 3. Energy saving in building sector

- Preparation of NAMA long list (contains **69 NAMA candidates including 38 in energy sector, 18 in transport sector, 13 in building sector**)

- Development of **NAMA shortlist** (contains **16 prospective NAMAs**)

Evaluation of NAMA long list



Project Activity (3)

Activity 3: To develop capacity to produce documents for promoting NAMA implementation

- Selection of **7 model NAMAs**
- Development of **6 NAMA Short Descriptions**
- Preparation of **NAMA Development Guideline**
 - History and current situation of NAMA
 - Importance and Benefits of NAMAs Development
 - NAMA development cycle
 - MRV for NAMA

No	Sub-sector	NAMA Title
1	Energy	Construction of a 790 MW Ultra Supercritical Lignite Power Plant TPP Nikola Tesla -Unit B3
2	Energy	Construction of 9 New Small Hydropower Plants (HPPs) in Serbia
3	Energy	Introduction 1000 MW of Small Biomass Boilers in Serbia
4	Energy	Using of Waste Heat from Thermal Power Plant for Heating the City of Belgrade, Serbia
5	Transport	Rehabilitation of Arterial Roads in Serbia
6	Building	Improvement of Old Residential Buildings Envelope (Exterior Doors, Windows and Thermal Insulation) in Serbia
7	Building	Energy Efficiency Improvements in Public Buildings: 23 Schools and 26 Hospitals - Serbian Energy Efficiency Project (SEEP)



Project Activity (4)

Activity 4: To enhance capacity to promote NAMA recognition

- Implementation of **NAMA-MRV Capacity Building Workshops**
 - **Serbian NAMA seminar** : 6 February 2012, 62 participants
 - **Balkan Regional NAMA seminar** : 4 and 5 February 2013
- **Present Project's progress and outcome at international conferences**
 - **Side event in COP17**: 8 December 2011, 32 participants
- **Develop web contents for Serbian NAMAs and MRV**



Serbian NAMA seminar



Side event in COP17



Project Activity (5)

Technical training in Japan

- To further **enhance the knowledge and expertise on mitigation actions, MRV system, energy conservation and related policy**
- 2 weeks : from 28 October to 10 November, 2012
- **4 participants from MEDEP, MOT**
- Participants had an **opinion exchange** with **Ministry of the Environment, Ministry of Economy, Trading and Industry, Yokohama City**, etc. and visited **Toshiba, Sony, Panasonic, J-Power, Nexco**, etc. related to climate change mitigation.



Achievement

- **Established a cooperation structure for formulation and development of NAMA** by MEDEP Climate Change Division as a leading actor. Related ministries and agencies for implementing mitigation measures were involved.
- **Identified key officers who can formulate and develop NAMA** in these ministries and agencies. Capacity of these officers were strengthened through this Project.
- **Identified projects as a model for NAMA implementation** in the sector of energy efficiency in power, transport and buildings. Prepared documents can be used for effectively seeking support from investors, and made them available as a format.
- **Summarized approaches and know-hows for formulation and development of NAMA projects** into NAMA Development Guideline. The Guideline was made available for use by project implementing entities.
- **Opened up the channels for sharing experiences and know-hows** for NAMA formulation among Balkan countries.



**Thank you very much
for your attention.**

