

NAMA Design and Preparation: Consultation on Selecting Priority NAMAs for Lebanon – follow-up meeting

**August 13, 2013
Beirut, Lebanon**

Summary Report

Table of Contents

Overview	1
Objectives of the workshop	1
Workshop Proceedings and Conclusions	1
Next Steps	5
Annexes.....	6

Overview

The follow-up national workshop¹ on “Nationally Appropriate Mitigation Action Design and Preparation: Consultation on Selecting Priority NAMAs for Lebanon” was held on August 13, 2013 in Beirut, Lebanon by the Lebanese Ministry of Environment (MoE) and the United Nations Development Programme (UNDP). The workshop took place within the framework of the Low-Emission Capacity Building Project (LECB) in Lebanon.

The follow-up workshop allowed experts and stakeholders² from public and private institutions, to revisit the outcomes of the first national NAMA workshop which was held on May 22, 2013, as well as start discussion on the national MRV framework, and the nationally developed NAMA submission forms.

The follow-up workshop allowed to further the discussion on the selection criteria, and the reason for the introduction of the “required criteria” (transformational aspect of the NAMA and the financing sources), and subsequently led to the elimination of some of the NAMA concepts identified during the first workshop, the introduction of the new set of criteria which was decided on during the first workshop as well. The follow-up workshop also served as the opportunity to start discussion at the national level on the MRV framework and institutional requirements, and the introduction of the nationally developed NAMA submission forms for both types of NAMAs: those requesting support for preparation and the ones requesting support for implementation.

Objectives of the workshop

- To brief the stakeholders on the final outcomes of the previous NAMA workshop
- To revisit the 13 NAMA concepts and apply the “required criteria”
- To disseminate the selection criteria and explain the process
- To introduce the NAMA submission forms developed by the Ministry of Environment
- To discuss the possible MRV institutional arrangements and its link to NAMA proposals

Workshop Proceedings and Conclusions

Following the welcoming note delivered by the Low Emission Capacity Building Project manager on behalf of the Ministry of Environment, the workshop started with an introductory presentation on the objectives of meeting, followed by the outcomes/results of the NAMA workshop held on May 22, 2013.

The two sets of NAMA prioritization criteria were presented with explanatory notes on the changes from the original sets as indicated in table 1, in addition to the pass/fail “required criteria”:

¹ Agenda in annex 1.

² List of Attendees is attached in Annex 2.

1. Identified financing source and type, i.e., whether the proposed idea has already an allocated budget – in which case it could be further considered as a “unilateral NAMA”, and whether the funding is from a national source as opposed to an external funding source not originally allocated/earmarked as climate financing but is official development assistance to Lebanon. If the entire NAMA idea is funded by Official Development Assistance (ODA), it cannot be considered as NAMA-able. If a portion of the funding is already secured from ODA or government funding, only the additional funding requirements can be requested through a NAMA process in which case the allocations have to be clearly identified and tracked.
2. Transformational, i.e., the proposed NAMA idea is an action that would lead to a e.g., market or policy transformation leading to a low emission strategy as opposed to a single action that does not have a e.g. sectoral impact. That is a NAMA should strive for strategic, long-term sustainable development benefits beyond mere GHG emissions reductions and aim at catalysing transformation of the national or sectoral development towards a less or low carbon development path.

Table 1. The selection criteria with their weights

Criteria	Ranking score (1, 2 or 3)	Preferential score (out of 100, i.e. the total of this column should be 100)	Total
GHG reduction potential	1 (3)	30	
Co-benefits	2 (1)	30	
– Economic co-benefits			
– Social co-benefits			
– Environmental co-benefits			
– Adaptation to Climate Change			
High level political support	2 (3)	15	
MRV- ability	3 (2)	10	
Institutional readiness to implement	1 (2)	5	
Market readiness	2(1)	5	
Financial feasibility	1 (3)	5	

The 13 NAMA ideas encompassing the energy, waste and transport sectors, originally developed were revisited:

1. Waste-to-Energy (75.5 MW) supporting the national 12% RE target – by the Ministry of Environment;
2. Anaerobic digestion and electricity generation (15-25 MW) supporting the national 12% RE target – by the Ministry of Environment (as part of the 2nd TNA outputs);
3. Photovoltaic power station (10 MW) supporting the national 12% RE target – by the Ministry of Environment (as part of the 2nd TNA outputs);

4. Enhancing hydropower potential (233 MW new generation + 92 MW rehabilitation) supporting the national 12% RE target – by the Ministry of Energy and Water (as part of the Policy Paper of the Energy Sector);
5. Large wind farm (500 MW) supporting the national 12% RE target – by the UNDP Country Energy Efficiency and Renewable Energy Demonstration Project for the Recovery of Lebanon (as part of the Policy Paper of the Energy Sector);
6. Enhancing micro-hydropower potential (5 MW & more) supporting the national 12% target – by the Ministry of Energy and Water (as part of the Policy Paper of the Energy Sector);
7. Rehabilitation of the Zouk and Jieh power plants to restore performances and reduce emissions – by the Ministry of Energy and Water (as part of the Policy Paper of the Energy Sector);
8. Waste-to-Energy from Wastewater treatment plants: Energy from Waste water Sewage Sludge in Lebanon (7.32 MW to 11.68 MW) – by the Ministry of Energy and Water;
9. HFO conditioning solution for the conventional thermal power plants of Zouk, Jieh and Hreiche to reduce emissions and HFO consumption – by the Ministry of Energy and Water (as part of the Policy Paper of the Energy Sector);
10. Scaling up renewable energy and energy efficiency in the Lebanese building sector – by the Lebanese Center for Energy Conservation (as part of the National Energy Efficiency Action Plan);
11. Passenger cars swap programme by fuel efficient vehicles – by the Ministry of Environment (as part of the 2nd TNA outputs);
12. Passenger cars swap programme by hybrid electric vehicles – by the Ministry of Environment (as part of the 2nd TNA outputs)³;
13. Bus mass transit on dedicated lanes – by the Ministry of Environment (as part of the 2nd TNA outputs).

The participants agreed on the following 5 NAMA proposals based on the prequalification “required criteria”:

1. Waste-to-Energy (75.5 MW) supporting the national 12% RE target – by the Ministry of Environment;
2. Enhancing hydropower potential (233 MW new generation + 92 MW rehabilitation) supporting the national 12% RE target – by the Ministry of Energy and Water (as part of the Policy Paper of the Energy Sector);
3. Large wind farm (500 MW) supporting the national 12% RE target – by the UNDP Country Energy Efficiency and Renewable Energy Demonstration Project for the Recovery of Lebanon (as part of the Policy Paper of the Energy Sector);
4. Scaling up renewable energy and energy efficiency in the Lebanese building sector – by the Lebanese Center for Energy Conservation (as part of the National Energy Efficiency Action Plan);
5. Passenger programme by fuel efficient vehicles and hybrid electric vehicles – by the Ministry of Environment (as part of the 2nd TNA outputs)⁴.

³ This and the previous NAMA idea (fuel efficient vehicles and hybrid electric vehicles) have been combined into one NAMA idea

⁴ The 5th NAMA concept is the combination of the 11th and 12th concept presented during the first NAMA workshop.

The discussion then revolved around the involvement of the Ministry of Finance during the negotiation phase of the NAMA (parts related to the financing) and it was noted that such an option will send a clear indication to the donors on the country ownership of the proposed NAMA, and therefore political support for the proposed NAMA. It will also show coherence and involvement of various parties. For example, if an Energy NAMA proposal is being negotiated, one scenario could be that MoE works on MRV, MoEW works on the technical part, and Ministry of Finance discusses financial agreements. This is important because of the financial repercussions of the NAMA funding type (e.g., grant vs loan). With respect to the funding type, the potential benefits of NAMA financing was discussed, given that such financing is conditional. Lebanon already has access to capital markets and to concessional loan financing from bilateral and multilateral agencies without the NAMA financing conditions – and therefore receiving NAMA financing from such means/sources would increase the number of conditions for such financing, i.e., why would Lebanon work on financing through a NAMA if it might be less complicated (ex. less donors involved, no MRV) to request funding through more traditional tools?

If the NAMA is government owned, the Council of Ministers has to issue approval on the type of funding with Parliamentary ratification needed for loans. If the NAMA has value added because funding for NAMAs should be additional to existing ODA, then it is more likely that the Ministry of Finance would not recommend applications other than for grants depending on the project.

The Ministry of Finance would need to revert on which financing schemes that are currently options for NAMAs it is willing to consider.

The discussion then was directed towards the MRV arrangements at the national level. It was brought to the attention of the participants that the Ministry of Environment is planning to request from the NAMA developers, to allocate as part of the MRV component of the NAMA proposal, funds for the MoE; these funds will be used by MoE for capacity building, institutional set-up and to MRV the activities during the implementation phase of the NAMA. The requested fund per NAMA amounts to USD 150,000-200,000. It was proposed, in case this was accepted nationally as part of the NAMA process, to explore the option of having such an overhead in annual installments instead of a lump-sum, and to differentiate between NAMA projects based on the specific MRV requirements.

As a final agenda item, the nationally developed NAMA submission templates were introduced. The two forms (one for NAMA requesting support for preparation and another one for NAMA requesting support for implementation) were discussed. It was emphasized on the fact that the NAMA submission form will serve as a tool to unify the available information into a single format with comparable information, but also it will serve as a checklist to make sure that the proposed NAMAs have a complete documentation/information. The checklist required for NAMAs requesting support for implementation includes 7 items as indicated below:

1. Letter of Confirmation (Willingness) from the Beneficiary(ies)
2. Financial Analysis Report
3. GHG Emission Reduction Estimation – Methodology Report
4. Baseline Scenario Report
5. MRV Arrangements Report
6. Contribution to Sustainable Development Report
7. Stakeholder Consultation Report

Next Steps

The participants decided to score the 5 NAMA options using the new scoring system; the criteria with the explanations on how to score, as well as the proposals will be shared with the participants by email, where a deadline to score and submit their scores by email.

The MoE requested feedback on the NAMA submission forms prepared for Lebanon. Once the forms are shared with the participants, comments are welcomed.

The participants decided to have the third meeting on NAMA process during the week of September 9, 2013 where the above-mentioned two items will be on the agenda – therefore finalizing the NAMA selection prioritization process, further the discussion on the national MRV arrangements and finalize the format of the nationally developed NAMA submission forms.

Annexes

Annex 1. Agenda

Annex 2. List of Participants

Annex 3. NAMA submission forms

Annex 4. Photos from the workshop

Annex 1. Agenda



NAMA DESIGN AND PREPARATION:

Consultation on selecting priority NAMAs for Lebanon

Follow-up meeting

Green Room – Ministry of Environment

Beirut – Tuesday, August 13, 2013

Agenda			
Time	Sessions	Potential speakers	Objective of the session
09.45 – 10.00	Arrival/Registration		
10.00 – 10.30	Welcoming notes/opening/Briefing on previous meeting outcomes	MoE/UNDP	<ul style="list-style-type: none"> - To introduce the objectives of the meeting - Update on previous meeting outcomes
10.30 – 11.00	Revisiting the NAMA proposals	MoE/UNDP/Participants	<ul style="list-style-type: none"> - To go over the potentially promising NAMA proposals and decide on ways forward
11.00 – 11.15	MRV (Measuring, reporting, Verifying) institutional requirements	MoE/UNDP	<ul style="list-style-type: none"> - To start the discussion on the institutional structure of the MRV process in Lebanon and its link to the NAMA proposals
11.15 – 11.30	Nationally developed NAMA submission templates	MoE/UNDP	<ul style="list-style-type: none"> - To present the draft NAMA submission templates developed by the Ministry of Environment
11.30 – 12.00	Open discussion and Other matters raised by participants	Participants	
	Lunch		



Annex 2. List of Participants

	Name	Institution	Email	Phone
1	Lea Kai	UNDP-Ministry of Environment	l.kai@moe.gov.lb	03-744252
2	Vahakn Kabakian	UNDP-Ministry of Environment	vahakn@moe.gov.lb	03-527679
3	Ramzi Shasha	Ministry of Industry/National Council for the Environment	Ramzi_shasha@yahoo.com	71-794522
4	Melda Jabbour	Lebanese Center for Energy Conservation	melda.jabbour@lcecp.org.lb	03-112766
5	Lea Hakim	UNDP- Ministry of Finance/National Council for the Environment	leah@finance.gov.lb	01-981057
6	Walied Sayegh	UNDP – Ministry of Finance	walidsa@finance.gov.lb	70-249672
7	Jihan Seoud	UNDP E&E	Jihan.seoud@undp.org	01-962493
8	Charbel Mansour	Lebanese American University	charbel.mansour@lau.edu.lb	
9	Dietmar Uberbacher	Italian Development Cooperation	dietmar.ueberbacher@esteri.it	76-725249
10	Bassam Sabbagh	Ministry of Environment	b.sabbagh@moe.gov.lb	01-976555
11	Yara Daou	UNDP-Ministry of Environment	y.daou@moe.gov.lb	01-976555
12	Bernard Ammoun	Green Arms	bammoun@rationalfinancial.com	70-850525
13	Carla Nassab	UNDP-CEDRO	carla.nassab@undp-lebprojects.org	01-981944
14	Jean Stephan	Ministry of Agriculture	dr.jeanstephan@gmail.com	03-814109
15	Jessica Obeid	UNDP-CEDRO	jessica.obeid@undp-lebprojects.org	01-981944
16	Hassan Harajli	UNDP-CEDRO	Hassan.harajli@undp-lebprojects.org	01-981944

Annex 3. NAMA submission forms

REQUIRED INFORMATION BY THE NATIONAL COORDINATING AUTHORITY –
MINISTRY OF ENVIRONMENT
FOR
NATIONALLY APPROPRIATE MITIGATION ACTIONS REQUESTING SUPPORT FOR
PREPARATION

A. General Information

Title of the NAMA:	
Date of submission:	
Name of entity(ies) submitting the project:	
Role of entity(ies) in the submitted project: <i>Describe the expected role and task of each entity in the proposed NAMA</i>	
Signature of the entity(ies): <i>Confirmation on willingness to take the above described responsibilities</i>	
Date(s) of signature(s):	
Organisational Category of each entity <i>Please provide the type of organization as well as contact details of all entities participating in the NAMA (use as many as required to match the total number of entities).</i>	a. Public Sector b. Municipality – Local Administration c. Private Sector d. Not-for-profit Non-Governmental Organisation e. Other, please specify: _____
Contact Person(s)	
Full Address	
Telephone/fax	
Email:	

B. Description

<p>Description of the Mitigation Action <i>Describe the contents of the proposed mitigation actions/measures relevant to GHG emission reduction</i></p>	
<p>Coverage</p>	<p>Sector <i>(which sector the NAMA belongs to):</i></p> <p>GHG <i>(indicate which GHG(s) will be reduced):</i></p> <p>Reduction <i>(indicate amount of GHG expected to reduce in CO_{2eq.}):</i></p> <p>Type and location of Beneficiaries:</p> <p>Number of Beneficiaries:</p>
<p>Implementation Schedule</p>	<p>Current status <i>(latest progress – e.g., feasibility study completed, etc.):</i></p> <p>Expected Start date <i>(technical implementation of NAMA):</i></p> <p>Duration of the project <i>(number of months for completion):</i></p>
<p>Technology/measure <i>Describe in detail the technology or measure to be introduced by the NAMA (use a separate sheet if needed)</i></p>	

Location/site <i>Indicate the exact address, if applicable. Otherwise, name of municipality, city, village, geographical coordinates, etc. where the NAMA will take place. (Attach a map)</i>	
Beneficiary(ies)⁵ <i>Indicate whether there is buy-in from the potential beneficiary(ies)</i>	Has (have) the beneficiary(ies) been contacted: 1. Yes (attach letter of confirmation on willingness to participate) 2. No
Expected cost of Preparation: <i>Describe the expected cost required for the formulation of the NAMA (feasibility study, technical design, establishment of monitoring plan, etc.)</i>	
Amount co-shared: <i>Indicate any amount already secured for the preparation of the NAMA.</i>	
Amount requested: <i>Indicate the amount to be requested as financial support</i>	
Financing sources: <i>Describe any identified financing sources (partial or otherwise) for the NAMA.</i>	

⁵ This might include ministries, local governments, etc.

C. Information on Support Requested

<p>Indicate what type of support are needed for the completion of the proposed NAMA: <i>Use as many options as applicable</i></p>	<p>Support required for <u>Preparation</u>:</p> <ol style="list-style-type: none"> 1. Amount of Financial support requested: 2. Technical <i>(e.g., feasibility study, provision of information on technology, financial analysis, etc.):</i> 3. Capacity Building⁶: <i>(e.g., capacity building on available technology, establishment of MRV procedure and system, etc.):</i> 4. Other, Specify: 5. Financial support – Type and Source: <i>indicate what type of financing is being sought (loan, concessional loan, debt swap, grant, equity, foreign direct investment, etc.)</i>
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⁶ It is mandatory for all NAMA proposals to include an institutional capacity building component on the national MRV system. The financial support for the MRV component (for both NAMA types – i.e., seeking support for preparation and seeking support for implementation) – an amount of USD 150,000 to 200,000 per NAMA for MRV should be added as a grant to the Ministry of Environment to sustain the institutional requirements for MRV throughout the lifetime of the NAMA project

D. Other Information

Stakeholder consultation:

Describe the stakeholder consultation process that is envisaged to be undertaken. Be as specific as possible, with information on potential stakeholders, and approximate date(s) provided.

E. Contact Information

NAMA National Coordinating Authority:	Organization: Ministry of Environment Service: Environmental Technology Department: Air Quality Contact Person: Ms. Rola El-Sheikh Title: Head of Service Phone: +961-1-976555 ext. 434 Email: rola.sh@moe.gov.lb
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REQUIRED INFORMATION BY THE NATIONAL COORDINATING AUTHORITY —
MINISTRY OF ENVIRONMENT

FOR
NATIONALLY APPROPRIATE MITIGATION ACTIONS REQUESTING SUPPORT FOR
IMPLEMENTATION

F. General Information

Title of the NAMA:	
Date of submission:	
Name of entity(ies) submitting the project:	
Role of entity(ies) in the submitted project: <i>Describe the expected role and task of each entity in the proposed NAMA</i>	
Signature of the entity(ies): <i>Confirmation on willingness to take the above described responsibilities</i>	
Date(s) of signature(s):	
Organisational Category of each entity <i>Please provide the type of organization as well as contact details of all entities participating in the NAMA (use as many as required to match the total number of entities).</i>	f. Public Sector g. Municipality – Local Administration h. Private Sector i. Not-for-profit Non-Governmental Organisation j. Other, please specify: _____
Contact Person(s)	
Full Address	
Telephone/fax	
Email:	

G. Description

Description of the Mitigation Action <i>Describe the contents of the proposed mitigation actions/measures relevant to GHG emission reduction</i>	
Coverage	Sector <i>(which sector the NAMA belongs to):</i> GHG <i>(indicate which GHG(s) will be reduced):</i> Reduction <i>(indicate amount of GHG expected to reduce in CO_{2eq.}):</i> Type and location of Beneficiaries: Number of Beneficiaries:
Implementation Schedule	Current status <i>(latest progress – e.g., feasibility study completed, etc.):</i> Expected Start date <i>(technical implementation of NAMA):</i> Duration of the project:
Technology/measure <i>Describe in detail the technology or measure to be introduced by the NAMA (use a separate sheet if needed)</i>	

Location/site <i>Indicate the exact address, if applicable. Otherwise, name of municipality, city, village, geographical coordinates, etc. where the NAMA will take place. (Attach a map)</i>	
Beneficiary(ies)⁷ <i>Indicate whether there is buy-in from the potential beneficiary(ies)</i>	Has (have) the beneficiary(ies) been contacted: 3. Yes (attach letter of confirmation/ willingness to participate) (see checklist) 4. No
Expected cost of Implementation: <i>Describe the expected cost required for the implementation of the NAMA (equipment purchase, O&M, etc.)</i>	
Amount co-shared: <i>Indicate any amount already secured for the implementation of the NAMA.</i>	
Amount requested: <i>Indicate the amount to be requested as financial support</i>	

⁷ This might include ministries, local governments, etc.

H. Information on Support Requested

<p>Indicate what type of support are needed for the completion of the proposed NAMA: <i>Use as many options as applicable</i></p>	<p>Support required for <u>Implementation</u>:</p> <ol style="list-style-type: none"> 1. Amount of Financial support requested: 2. Technical (e.g., provision of equipment/technology, etc.): 3. Capacity Building: (e.g., capacity building/development of human resources for sustainable operation, MRV component, etc.): 4. Other, Specify: 5. Financial – Type and Source: Describe the type of financing that is being sought (loan, concessional loan, debt swap, grant, equity, foreign direct investment, etc.)
<p>Financial Analysis: <i>Results of financial analysis of the proposed NAMA using indicators such as <u>Investment Profitability Analysis</u> (Simple Rate of Return /pay-back period); <u>Discounted Cash-Flow</u> (internal rate of return/net present value); and <u>Return on Investment Analysis</u> (Liquidity analysis/Capital structure analysis); etc. <u>Please attach the complete report (see checklist)</u></i></p>	

I. Expected GHG Emission Reductions

<p>Indicate the expected GHG emission reduction potential of the proposed NAMA: <i>Indicate the GHG emission reduction estimations on tonnes of CO_{2eq}. If the emission reduction is from non-CO₂ gases, such as CH₄ and N₂O, kindly convert into CO_{2eq} using the IPCC SAR 100-year GWPs⁸.</i></p>	<p>1. Annual reduction in tCO_{2eq}:</p> <p>2. Total reduction in tCO_{2eq} over the lifetime of the NAMA:</p>
<p>Methodologies: <i>Indicate the methodology(ies) used for the GHG emission reduction estimation (see annex A).</i></p> <p><i>In case of any deviation from the methodologies described in Annex A, provide in <u>a separate report (see checklist)</u> a clear description of any modification and the reason/justification for such a deviation.</i></p> <p><i>In case where a new methodology is developed, a full description in <u>a separate report (see checklist)</u> is needed with assumptions and justifications. Calculation steps, including used equations, and detailed sources of data should also be provided.</i></p>	
<p>Calculation of emission reduction: <i>Describe briefly the methodology(ies) applied as indicated above.</i> <i>Use as many data/parameter as applicable</i></p>	<p>1. Data/parameter:</p> <p>a. Unit: tCO_{2eq}.</p> <p>b. Description:</p> <p>c. Source of data:</p> <p>d. Value applied:</p> <p>e. Any additional comment:</p> <p>2. Data/parameter:</p> <p>a. Unit:</p> <p>b. Description:</p>

⁸ http://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html#table-2-14

	<p>c. Source of data:</p> <p>d. Value applied:</p> <p>e. Any additional comment:</p>
<p>Baseline scenario:</p> <p><i>Describe what would be the situation in the future if the proposed NAMA does not take place, e.g., the current situation will continue (no new technology will be installed or no improvement/efficiency achieved) due to financial/technical/institutional constraints.</i></p> <p><i>Use a <u>separate report</u> (see checklist) for the baseline scenario.</i></p>	<p><u>Sources, amount and type</u> of GHG emissions in the baseline scenario:</p>

J. Measurement, Reporting and Verification (MRV)

<p>Monitoring Plan and Structure:</p> <p><i>Describe the overall MRV plan and the structure for the proposed NAMA.</i></p> <p><i>Include the organizational chart, institutions, personnel/departments responsible for monitoring and reporting each activity.</i></p> <p><i>A <u>separate report</u> (see checklist) for the MRV arrangements will have to be submitted.</i></p>	
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Monitoring plan**Data and parameters to be monitored:**

Specify the indicator that will be monitored throughout the implementation of the proposed NAMA; this will serve to account for the GHG emission reduction achieved by the NAMA. Use as many as applicable.

1. Indicator:**a. Unit:****b. Description:****c. Source of data:****d. Means of verification:****e. Monitoring frequency:****f. Responsible Party:****g. Any additional comment:****2. Indicator:****a. Unit:****b. Description:****c. Source of data:****d. Means of verification:****e. Monitoring frequency:****f. Responsible party :****g. Any additional comment:**

K. Other Information

[illegible]

L. Contact Information

NAMA National Coordinating Authority:	Organization: Ministry of Environment
	Service: Environmental Technology
	Department: Air Quality
	Contact Person: Ms. Rola El-Sheikh
	Title: Head of Service
	Phone: +961-1-976555 ext. 434
	Email: rola.sh@moe.gov.lb

M. Checklist

Checklist:

In addition to the current form ("Required Information by the National Coordinating Authority – Ministry of Environment for Nationally Appropriate Mitigation Actions Requesting Support for Implementation), the following documents should be attached:

- | | |
|---|--------------------------|
| 8. Letter of Confirmation (Willingness) from the Beneficiary(ies) (Section B, page 3) | <input type="checkbox"/> |
| 9. Financial Analysis Report (Section C, page 4) | <input type="checkbox"/> |
| 10. GHG Emission Reduction Estimation – Methodology Report (Section D, page 5) | <input type="checkbox"/> |
| 11. Baseline Scenario Report (Section D, page 6) | <input type="checkbox"/> |
| 12. MRV Arrangements Report (Section E, page 7) | <input type="checkbox"/> |
| 13. Contribution to Sustainable Development Report (Section F, page 9) | <input type="checkbox"/> |
| 14. Stakeholder Consultation Report (Section F, page 9) | <input type="checkbox"/> |

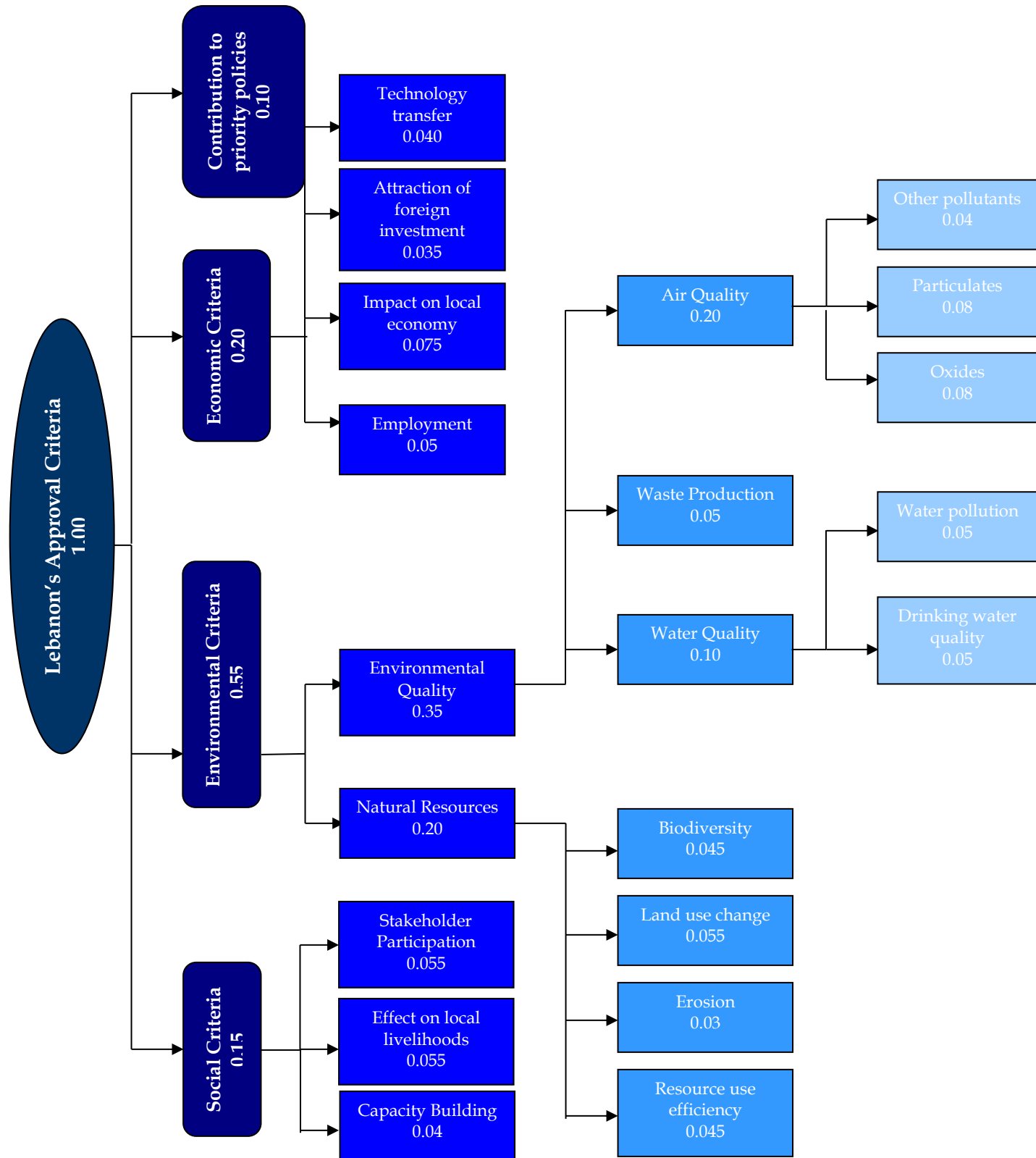
Annex A: Methodologies for GHG emission reduction estimation

Methodology	Sectors	Reference link
CDM	<ul style="list-style-type: none"> - Energy industries - Energy distribution - Energy demand - Manufacturing industries - Chemical industries - Construction - Mining/mineral production - Metal production - Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride - Solvent use - Waste handling and disposal - Afforestation and reforestation - Agriculture 	http://cdm.unfccc.int/methodologies/index.html
IPCC revised 1996 guidelines	<ul style="list-style-type: none"> - Energy - Industrial processes - Agriculture - Land use, land use Change and forestry - Solvent and other product use - Waste 	http://www.ipcc-nggip.iges.or.jp/public/gl/invs1.html
UNEP	<ul style="list-style-type: none"> - Transport (mobile fuel combustion) - Stationary fuel combustion (e.g., electricity consumption in buildings, heating, hot water and cooking) - Fugitive emissions (e.g., leakage of GHG from refrigeration and air-conditioning equipment) 	http://www.unemg.org/Resources/UnitedNationsGreenhouseGasCalculator/tabid/102178/Default.aspx
IFC Carbon Emissions Estimator	<ul style="list-style-type: none"> - Fuel consumption - Refrigeration/Air conditioning - Waste 	http://www1.ifc.org/wps/wcm/connect/Topics_Ext_Content/IFC_External_Corporate_Site/CB_Home/Policies+and+Tools/GHG_Accounting

Tool	<ul style="list-style-type: none"> - Wastewater - Gas flaring - Electricity - Cement - Metal industry - Geothermal gases - Reservoirs and dams - Forestry - Land use - Livestock - Chemicals - Glass production - Lime production - Oil and mining - Process inputs and materials used - Landfill gas capture - Manure Management 	
World Bank	<ul style="list-style-type: none"> - Energy (including transport) - Industry and infrastructure - Land use (forestry, soil conservation, watershed management, etc.) 	http://documents.worldbank.org/curated/en/1998/09/1976183/gr/eenhouse-gas-assessment-handbook-practical-guidance-document-assessment-project-level-greenhouse-gas-emissions
OECD-IEA	<ul style="list-style-type: none"> - Energy (Electric power sector) 	http://www.oecd.org/env/cc/documentsonelectricityandclimatechange.htm
ADB	<ul style="list-style-type: none"> - Energy - Transport 	http://www.adb.org/publications/transport-and-carbon-dioxide-emissions-forecasts-options-analysis-and-evaluation
GEF	<ul style="list-style-type: none"> - Energy (energy efficiency and renewable energy) 	http://www.thegef.org/gef/node/313
JICA	<ul style="list-style-type: none"> - Forestry and natural resources (afforestation, forest conservation) - Transport (MRT, BRT) - Energy efficiency in industrial facilities - Energy (fuel switch, improved efficiency in power generation facilities) - Renewable Energy (wind, biomass) 	http://www.jica.go.jp/english/our_work/climate_change/mitigation.html

	- Sewage and urban hygiene	
JBIC	- Energy (thermal power generation, electric power generation, thermal energy supply from biomass residue, and waste heat recovery and use) - Energy efficiency	http://www.jbic.go.jp/en/about/environment/j-mrv/
WRI-WBCSD	- Industry (cement, iron and steel, pulp and paper) - Office-based and service sectors	http://www.ghgprotocol.org/calculation-tools
Gold Standard	- Energy - Energy efficiency - Transport	http://www.cdmgoldstandard.org/project-certification/gs-methodologies
CCB Standards	- Forestry (afforestation and reforestation, sustainable forest management, forest recovery)	http://www.climate-standards.org/ccb-standards/
CCAR	- Local government operations - Power/utility - Cement	http://www.climateregistry.org/tools.html

Annex B: sustainable development criteria and their respective weights



Annex 4. Photos from the workshop



