

Country:	Dominican Republic
Request Identification Number:	2015-023/DOM-02

Title:	<i>Developing a NAMA to leapfrog to advanced energy-efficient lighting technologies</i>
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<p>Project summary</p> <p>Assistance is requested from the CTCN to develop a Nationally Appropriate Mitigation Action (NAMA) that would enable the Dominican Republic to transform permanently their market to high efficiency lighting in most used lighting applications. The NAMA would also facilitate the implementation of key lighting policy instruments that would enable the transition, as prioritized in the Central American and Dominican Republic’s Efficient Lighting Strategy (2013) sanctioned by the Dominican Republic’s Government.</p> <p>The NAMA will include a financial mechanism to enable the rapid deployment of high efficiency light emitting diodes (LEDs) in the residential, commercial and industrial sectors. Energy and financial savings will be achieved, together with other benefits including the improvement of electricity service, the mitigation of the frequent black-outs experienced by the country – which put at risk the economy’s development – and the reduction of voltage fluctuations.</p> <p>The duration of this assistance project will be of 14 months. The main in-country partner is the National Energy Commission (Comisión Nacional de Energía). The project will also count with the participation of the Ministry of Energy and Mines (Ministerio de Energía y Minas) Ministry of Environment (Ministerio de Medio Ambiente y Recursos Naturales), and the 3 Electricity Distribution Companies (EdeNorte, EdeSur and EdeEste) for the LED large scale distribution component.</p>

1. Overview of the assistance

1.1 Objectives (outcomes)

The main objective of this assistance is to transform quickly and permanently the market to high efficiency lighting technologies (light emitting diodes - LEDs) in the Dominican Republic, and by doing that produce massive energy, financial and climate savings, in its citizens and country as a whole, while eliminating common black outs in the electricity system.

1.2 Results (outputs)

The main output resulting from the CTCN assistance is the Dominican Republic includes:

- The development of a high efficiency lighting NAMA, including:
 - Establishment of mandatory minimum energy performance standards (MEPS) for efficient lighting products in residential, commercial and industrial applications, effectively taking out of the market low efficiency products (e.g.: inefficient incandescent

- lamps, halogen lamps, T-12 lamps, magnetic ballasts, inefficient high intensity discharge lamps, mercury vapor lamps) and establishing quality, safety and performance requirements for high efficiency ones (LEDs).
- Establishment of a monitoring, verification and enforcement mechanism to ensure compliance with national standards and avoid the penetration of low quality, safety and performance products.
 - Development of a large scale LED deployment scheme – involving utilities in the country – to facilitate the rapid transformation of the market to high efficiency LEDs, and ensuring that the disposal of replaced products is done in an environmentally sound manner.

The above output will be achieved in close coordination with international financial partners, such as multilateral development banks, bilateral agencies and funds (e.g. Green Climate Fund, Global Environment Facility). A Nationally Appropriate Mitigation Action (NAMA) under the UNFCCC framework will be developed and submitted for international funding in close coordination and interaction with international donors and financial institutions to ensure it is successfully funded.

1.3 Technology aspects

The technical assistance provided by the CTCN will help access to international climate finance that will allow the Dominican Republic to become the first LED-only country in the world, by leapfrogging to high efficiency LEDs for common residential, commercial and industrial applications. In addition the country will establish mandatory MEPS for all lighting technologies (including LEDs) and build up a national compliance and surveillance framework to ensure compliance with the new standards.

2. Description of the Assistance

2.1 Activities

Activity 1–Lighting status report including a market study to determine existing products in the country.

Activity 1.1 –Scoping mission to the Dominican Republic.

The objective of the scoping mission will be collecting information to start the development of the NAMA and ensure the experts are collaborating with the most relevant stakeholders. The mission will enable the experts to identify and meet with relevant national actors from the lighting and energy sectors, including industrial actors, private companies, governmental agencies and other organizations that should be involved in the NAMA preparation and implementation.

Activity 1.2–Report of current status of policies and activities relating to energy efficient lighting

The report will review the policies related to energy efficient lighting that are already in place in the country (specific to lighting or broader), as well as existing and planned activities related to efficient lighting. Based on this information, the report will identify gaps and opportunities regarding standards, labels and monitoring, verification and enforcement (MVE) for lighting products in the Dominican Republic.

Activity 1.3– Fact-finding and data collection for market study.

The collection of information will be conducted by the experts during the scoping mission and through additional desk research and remote exchanges with relevant organizations. The report will include a wide array of data and facts on lighting including but not limited to: overview of lighting technologies commercialized in the country, data of production, exports and imports, main commercial and technology partners, technology distributors, quality of products, market forecast if sufficient data is available, etc.

Activity 1.4– Validation and finalization of market study report.

Based on the information and data collected, the experts will draft and finalize the market study, and share with concerned stakeholders.

Deliverables	Delivery date
Report on current policy status	Month 3
Final market study report	Month 4

Activity 2–Definition of MEPS for lighting products in the residential, commercial and outdoor applications.

Activity 2.1 – Draft proposal for MEPS levels for lighting applications and circulation to national stakeholders for comments.

Experts will review standards that are existing or under development (such as MEPS for LEDs being developed by CNE and INDOCAL) and will draft a proposed regulation on MEPS levels for lighting applications and consultations will help further determine the level of standards that Dominican Republic could adopt. This proposal will be based on their national context and capacities and would take into account best practices from other countries in Latin America and the Caribbean, as well as other regions (European Union, USA, etc.).

Activity 2.2– Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal for MEPS.

A workshop will be organized in order to present and discuss the proposal with relevant actors. The objective of the consultations will be to ensure that the proposal is comprehensive enough, answers the needs of the various actors and is in line with their capacities and priorities.

Activity 2.3 – Finalization of MEPS proposal.

Experts will collect inputs and suggestions from the workshop and after the workshop, in order to finalize the proposal.

Deliverables	Delivery date
Draft MEPS proposal	Month 7
National consultation workshop on MEPS proposal	Month 8
Final MEPS levels proposal	Month 9

Activity 3 – Design of a monitoring, verification and enforcement (MVE) scheme for lighting products.

Activity 3.1 – Draft proposal for the design of an MVE scheme.

Experts will draft a proposal for the design of an MVE scheme for lighting products that will enable the government to ensure lighting products used in the countries will be in line with agreed standards. This proposal will make concrete suggestions on the technical and institutional aspects of the scheme, including specific recommendations on the responsibilities of the various actors, such as customs, the capacity building gaps to be addressed and specific verification mechanisms.

Activity 3.2 – Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal of an MVE scheme.

A workshop will be organized in order to present and discuss the proposal with relevant actors. The objective of the consultations will be to ensure that the proposal is comprehensive enough, answers the needs of the various actors and is in line with their capacities and priorities.

Activity 3.3 – Finalization of MVE scheme design.

Experts will collect inputs and suggestions from the workshop and after the workshop, in order to finalize the proposal.

Deliverables	Delivery date
Draft MVE scheme design proposal	Month 7
National consultation workshop on MVE scheme proposal	Month 8
Final MVE design proposal	Month 9

Activity 4 – Design of a sound financial and logistical scheme for the deployment of LED technology involving the Ministerio de Energía y Minas, Comisión Nacional de Energía, Corporación Dominicana de Empresas Eléctricas Estatales (CDEEE), utility companies, and customs

Activity 4.1 – Scoping mission

Experts will conduct a scoping mission in order to hold meetings with stakeholders to discuss the future methodology, business plan, applications, targets and options for the LED deployment scheme. The mission will also enable experts to identify potential local investors and financiers.

Activity 4.2 – Draft LED deployment plan

Based on the information collected during the scoping mission and additional desk work, experts will draft a plan to deploy LED technologies. The plan will include specific actions that the government can undertake to scale up the use of LEDs, as well as to ensure sound disposal of replaced products. This work will also include actions to consult and engage national stakeholders.

Activity 4.3 – Finalization of the LED deployment plan.

Deliverables	Delivery date
Draft LEDs deployment plan proposal	Month 9
Final LEDs deployment plan	Month 10

Activity 5– Development of a monitoring, reporting and verification (MRV) framework for the NAMA.

Activity 5.1 – Scoping mission to hold meetings with stakeholders to assess situation for possible MRV systems.

Experts will conduct a scoping mission to identify and meet the most relevant actors that can provide information, contribute, support and/or benefit from the MRV system of the NAMA. The MRV system will aim to ensure that all actions and objectives of the NAMA can be verified and lead to actual impacts in the country.

Activity 5.2 – Draft report on MRV framework and consultation of national stakeholders via email.

Based on information collected during the mission and follow-up discussions with relevant actors, experts will draft the MRV framework for the NAMA. It will include but not be limited to: roles and responsibilities of the various actors, specific indicators to be monitored (quantitative and qualitative), targets for each of the expected impacts, means of verification, and a specific timeframe for MRV activities.

Activity 5.3 – Finalization of MRV framework.

Deliverables	Delivery date
Draft report on MRV framework	Month 9
Final MRV framework	Month 11

Activity 6 – Coordination with international financial partners to secure their participation in the NAMA design and incentivize subsequent financial investment in the execution of the project.

Activity 6.1 – Donor engagement meeting with technical experts from the finance sector to foster participation in NAMA design

A meeting will be organized to bring together donors and investors that could be interested in funding the transition to efficient lighting in the Dominican Republic (including national, regional and international funders). The meeting will aim to present the status of energy efficient lighting in the country, preliminary work and findings of the assistance, and to understand the interest and priorities of funders. These elements will be taken into consideration to further develop the NAMA and ensure that actions to be implemented will be funded.

Activity 6.2 – Communication and outreach to international donors (“road show”).

Experts will develop outreach materials targeted at donors and investors (brochures, briefs, presentations) on the draft NAMA and will support the government in meeting the potential funders in their headquarters or regional/country offices.

Activity 6.3– Finalization of the draft NAMA

Experts will compile all documents produced during the assistance (activity 2 to 5) and add any other relevant components to the NAMA to follow the guidelines established by funders and the UNFCCC NAMA and NAMA facility registry.

Activity 6.4 – Presentation of NAMA to national stakeholders and international partners for financing. (IADB, WB, GEF, European Commission, GCF, NAMA Facility, bilateral donors, etc.)

The draft NAMA will be presented and discussed with national and international stakeholders (private sector, government, civil society, banks and investors, etc.). Based on the discussions, experts will revise and finalize the NAMA document.

Activity 6.5 – Registration in the UNFCCC NAMA Registry.

Experts will support the country in registering the NAMA document in the UNFCCC NAMA registry. The Consejo Nacional para el Cambio Climático y el Mecanismo de Desarrollo Limpio will also be involved in the UNFCCC registration process.

Deliverables	Delivery date
Technical meeting with financing institutions in Santo Domingo	Month 10
“Road show” for international financiers (IADB, WB, GEF, EC, GCF...)	Month 11-12
Final NAMA document	Month 12
Stakeholders and financiers workshop/s presenting the NAMA	Month 12

2.2 Expertise required

To be successful, the activities outlined in the work plan will require the expertise described in the table below.

Activities	Estimation of person/day
Activity 1	
Policy expert(s), especially on energy efficiency, environmental sound management and recycling of lighting technologies	<i>30 days</i>
<i>Market expert on lighting technologies</i>	<i>90 days</i>
Activity 2	
<i>MEPS expert</i>	<i>50 days</i>
Activity 3	
<i>MVE expertise</i>	<i>45 days</i>
Activity 4	
Deployment of advanced technologies finance expert	<i>55 days</i>
Activity 5	
<i>MRV expertise</i>	<i>25 days</i>
Activity 6	
<i>Communication and outreach expertise targeted to donors and funders</i>	<i>35 days</i>
<i>Policy expert on MEPS and energy efficient lighting</i>	<i>5 days</i>

Other resources will be needed to implement this response plan, including the workshops and meetings described in the activities, travel and per diem for experts, possible coordination support at national and international level, as needed, and communication costs (printing, phone, etc.)

2.3 Main partners

- **Comisión Nacional de Energía:** Executing partner of national consultation activities during the NAMA development stage.
- **Ministerio de Energía y Minas:** Overseeing institution at the national level in the field of energy and energy efficiency.

- **Ministerio de Medio Ambiente y Recursos Naturales:** Overseeing body over national stakeholder’s participation prior and during NAMA development.
- **EdeNorte, EdeSur, EdeEste:** electricity distribution companies that will be engaged in the design and operationalization of the large scale deployment mechanism for LEDs.

2.4 Synergies

The CTCN response will build on the already Central American and Dominican Republic Regional Efficient Lighting Strategy. It will also be coordinated to the UNEP en.lighten initiative, a global initiative seeking to transform the global lighting market to LED solutions and to which the Dominican Republic is a partner. Technical support will also be obtained from private sector companies Philips and Osram.

In addition, it will also link to the ongoing work of the Clean Energy Ministerial’s Global Lighting Challenge seeking to deploy 10 billion LEDs by 2020.

Further, CTCN assistance will closely link and coordinate with energy efficiency financing initiatives at regional (Inter-American Development Bank) and global levels (NAMA Facility, Green Climate Fund, World Bank, Global Environment Facility, etc).

2.5 Timeline

The estimated timeline to implement this CTCN response is indicated below. It is envisaged that the first month of implementation for this response will be October 2015.

ACTIVITIES	SUBACTIVITIES	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
1. Status report on lighting in the Dominican Republic including a market study	1.1. Scoping mission to the Dominican Republic													
	1.2. Report of current status of policies and activities relating to efficient lighting													
	1.3. Fact-finding and data collection for market study													
	1.4. Finalization of market study report													
2. Definition of MEPS for lighting products	2.1. Draft proposal for MEPS levels for all lighting applications and circulation to national stakeholders for comments													
	2.2. Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal for MEPS													
	2.3. Finalization of MEPS proposal													
3. Design of a MVE scheme	3.1. Draft proposal for the design of an MVE scheme													
	3.2. Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal of an MVE scheme.													
	3.3. Finalization of MVE scheme design.													

Risks	Consequence	Probability	Mitigation
Weak government support	Insufficient stakeholder participation impeding adequate development of NAMA	Low	Conduct direct consultation with policy makers for the formulation of roadmaps and during the NAMA development stage to provide greater commitment
Delayed implementation of baseline activities	Incremental activities of the proposed project not possible	Medium	Realistic schedule will be established among responsible agencies and international partners
Low-level participation from international financing organizations	NAMA does not include donor guidelines and may not receive funding	Medium	Involve key donors from the NAMA design stage

2.9 Monitoring and Reporting

The progress of the activities and deliverables will be monitored both by the NDE of Dominican Republic and the CTCN. This document defines all the elements that are essential to effectively monitor project progress and achievements, including: project activities, objectives and expected impacts, the work plan and expected milestones (see also the logframe in Annex 1), and a preliminary post-assistance plan for monitoring the expected impacts of the technical assistance provided.

The NDE and the CTCN will monitor the progress of the technical assistance activities by:

- Maintaining regular communication with response implementer and the Comisión Nacional de Energía(request applicant/proponent) (e.g. Quarterly progress updates and status update meetings or teleconferences)
- Verify project progress against timeline and associated milestones (see annex 1)

The Comisión Nacional de Energía (request applicant/proponent) will coordinate activities between the response implementer and stakeholders involved in the technical assistance activities. When and if required, the Comisión Nacional de Energía (request applicant/proponent) may suggest to the response implementer any adjustments and planning modification needed. Any proposed adjustments and planning modification must be agreed to by the NDE and CTCN to be effective.

The monitoring and reporting of the CTCN response will be constituted through bi-monthly teleconferences with in-country partners and international partners, to report on progress made in the NAMA development and on ongoing consultations in line with the agreed schedule of response. The Comisión Nacional de Energía (request applicant/proponent) and the response implementer can request the NDE and/or CTCN for additional coordination meetings or teleconferences whenever needed

3. Long-term impacts of the assistance

3.1 Expected climate benefits

The transition to energy efficient lighting in the Dominican Republic in the residential, commercial and industrial sectors would eventually result in significant savings including:

- More than 730 GWh savings in annual electricity consumption, reducing the national electricity consumption by more than 5% and therefore the country's dependency on fossil fuels imports, and blackout occurrence in the country
- More than 100 million US\$ per year in electricity bills
- 430 kTon of CO₂ each year, equivalent to the emissions of more than 100,000 medium-sized cars.

The above is based on estimates produced by the UNEP en.lighten initiative with data from 2010 (UNEP, Country Lighting Assessments, 2012, <http://map.enlighten-initiative.org>).

3.2 Co-benefits

Sustainable benefits in the long term from the transition to advanced efficient lighting technologies include creation of jobs and new economic opportunity (Green Growth), having positive impacts on local communities and also encouraging equal participation of both male and female community members. In addition jobs and new economic opportunities are expected to be created through the strengthening of monitoring, verification and enforcement activities (surveillance and testing) as well as by the development of a collection and recycling scheme for used lighting products. Mercury emissions would be avoided due to reduced burning of fossil fuels and additionally savings in mercury emissions would be saved through putting in place the collection and recycling system that is included in the project.

3.3. Post-assistance plans and actions

The CTCN assistance will allow for on-going efforts in energy efficiency improvement to make significant progress and gain momentum. Current efforts would therefore be increased with the appropriate financing provided, since in line with national priorities.

It is expected that the results of the assistance will be approved and enacted by the national government as needed, and that the actions identified in the NAMA will be funded and implemented.

4. Formal agreement and signatures

Signatures of the requesting country

For the NDE

Name: Mr. Pedro García Brito
Title: Director, Dirección de Cambio Climático,
Ministerio de Medio Ambiente y Recursos
Naturales

For the Request Applicant

Name: Mr. Francisco Mariano
Title: Director, Dirección Fuentes Alternas y Uso
Racional de la Energía, Comisión Nacional de
Energía

Date:

Date:

Signature:

Signature:

Signatures of the CTCN

For the CTCN Director

Name: Jukka Uosukainen

Title: CTCN Director

Date:

Signature:

For the Climate Technology Manager

Name: Patrick Nussbaumer

Title: Climate Technology Manager

Date:

Signature:

Annex 1: Logframe

Activity	Description of sub-activities conducted by the CTCN	Output and deliverables	Main national partners involved	Objectively Verifiable Indicator	Responsible person/organization
Activity 1: Status report on lighting in the Dominican Republic including a market study	Sub-activity 1 Scoping mission to the Dominican Republic.	1.1 Report on current policy status	CNE	Reports and studies finalized	en.lighten
	Sub-activity 2 Report of current status of policies and activities relating to efficient lighting.	1.2 Final market study report			
	Sub-activity 3 Fact-finding and data collection for market study.				
	Sub-activity 4 Finalization of market study report.				
Activity 2: Definition of MEPS for lighting products	Sub-activity 1 Draft proposal for MEPS levels for all lighting applications and circulation to national stakeholders for comments.	2.1 Draft MEPS proposal	CNE MEM MMARN INDOCAL	MEPS levels document finalized and workshops organized	en.lighten
	Sub-activity 2 Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal for MEPS.	2.2 National consultation workshop on MEPS proposal			

	Sub-activity 3 Finalization of MEPS proposal.	2.3 Final MEPS levels proposal			
Activity 3: Design of a MVE scheme	Sub-activity 1 Draft proposal for the design of an MVE scheme. Sub-activity 2 Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal of an MVE scheme. Sub-activity 3 Finalization of MVE scheme design.	3.1 Draft MVE scheme design proposal 3.2 National consultation workshop on MVE scheme proposal 3.3 Final MVE design proposal	CNE CODOCA	MVE scheme report finalized, workshop held and scheme approved by local authorities	en.lighten
Activity 4: Design of a sound financial and logistical scheme for the deployment of LED technology	Sub-activity 1 Scoping mission to hold meetings with stakeholders to define targets and assess options for the deployment scheme of LEDs. Sub-activity 2 Draft LEDs deployment plan, including plan for sound disposal of replaced products, and consultation of national stakeholders via email. Sub-activity 3 Finalization of LEDs deployment plan.	4.1 Draft LEDs deployment plan proposal for consultation 4.2 Final LEDs deployment plan	EdeNorte, EdeSur, EdeEste CNE CDEEE	Draft LED deployment plan finalized, final LED deployment plan agreed	UNEP-DTU Partnership & en.lighten

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<p>Activity 5: Development of a monitoring, reporting and verification (MRV) framework for the NAMA</p>	<p>Sub-activity 1 Scoping mission to hold meetings with stakeholders to assess situation for possible MRV systems</p> <p>Sub-activity 2 Draft report on MRV framework and consultation of national stakeholders via email.</p> <p>Sub-activity 3 Finalization of MRV framework.</p>	<p>5.1 Draft report on MRV framework for consultation</p> <p>5.2 Final report on MRV framework</p>	<p>CNE MMARN</p>	<p>MRVframework approved by local authorities</p>	<p>UNEP-DTU Partnership</p>
<p>Activity 6: Coordination with international financial partners</p>	<p>Sub-activity 1 Donor engagement meeting with technical experts from the finance sector.</p> <p>Sub-activity 2 Communication and outreach to international donors (“road show”).</p>	<p>6.1 Technical meeting with financiers in Santo Domingo</p> <p>6.2 “Road show” for international financiers (IADB, WB, GEF, EC, GCF...) – communication materials</p> <p>6.3 Final NAMA</p>	<p>MMARN MEM CNE</p>	<p>Meeting report incorporating feedback received by financing institutions and donors ; NAMA registered in UNFCCC Registry and in international donors’ platforms</p>	<p>en.lighten& UNEP-DTU Partnership</p>

Sub-activity 3

Finalization of the NAMA draft including all developed components in activities 2 to 5.

document

Sub-activity 4

Presentation of the NAMA to national stakeholders and international partners for financing. (IADB, WB, GEF, EC, GCF, NAMA Facility, bilateral donors...).

6.4 Stakeholders and financiers workshop presenting the final NAMA

Sub-activity 5

Registry in UNFCCC NAMA Registry.

Annex 2: Estimated budget

Activity	Notes	Quantity	Unit	Unit Cost (\$)	Cost 2015	Cost 2016	Total Cost (\$)
Activity 1 : Status report on lighting in the Dominican Republic including a market study							
Activity 1.1: Scoping mission to the Dominican Republic							
Travel							
Ticket for lead expert/ coordinator	Round trip ticket	1	Ticket	1500	1500	0	1500
DSA for lead expert/ coordinator for 5 days	DSA (Santo Domingo, Dominican Republic)	5	DSA	272	1360	0	1360
Ticket for two policy consultants	Round trip ticket	2	Ticket	1500	3000	0	3000
DSA for two policy consultants for 5 days	DSA (Santo Domingo, Dominican Republic)	10	DSA	272	2720	0	2720
Component sub-total							8580
Sub-total activity 1.1							8580
Activity 1.2 : Report of current status of policies and activities relating to efficient lighting							
Personnel							
Consultant (UN fee table, level C)	Develop a report on the current status of policies in the country regarding standards, labeling and MVE, for lighting products	30	Person day	500	15000	0	15000
Component sub-total							15000
Sub-total activity 1.2							15000
Activity 1.3 : Fact-finding and data collection for market study							
Personnel							
Consultant	Gather data on market status for lighting	80	Person day	450	36000	0	36000
Component sub-total							36000
Sub-total activity 1.3							36000
Activity 1.4 : Finalisation of market study report							

Personnel							
Consultant	Finalise market report	10	Person day	450	0	4500	4500
Component sub-total							4500
Sub-total activity 1.4							4500
Sub-Total Activity 1							64080
Activity 2 : Definition of MEPS for lighting products							
Activity 2.1 : Draft proposal for MEPS levels for all lighting applications and circulation to national stakeholders for comments							
Personnel							
Consultant (UN fee table, level C)	Develop draft proposal of MEPS and consult with national stakeholders	30	Person day	500	0	15000	15000
Component sub-total							15000
Sub-total activity 2.1							15000
Activity 2.2 : Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal for MEPS							
Personnel							
Consultant (UN fee table, level C)	Gather and integrate feedback to draft MEPS proposal	10	Person day	500	0	5000	5000
Component sub-total							5000
Travel and workshop venue							
Ticket for lead expert/ coordinator	Round trip ticket	1	Ticket	1500	0	1500	1500
DSA for lead expert/ coordinator	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Ticket for policy consultant	Round trip ticket	1	Ticket	1500	0	1500	1500
DSA for policy consultant	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Workshop	Rental meeting room and equipment	1	Day	5000	0	5000	5000
Workshop	Lunch (1) and coffee breaks (2)	1	Day	2000	0	2000	2000

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Workshop	Communication materials (design and printing)	100	TBD	40	0	4000	4000
Workshop	Posting workshop materials	1	Box	500	0	500	500
Component sub-total							15588
Sub-total activity 2.2							20588
Activity 2.3: Finalisation of MEPS proposal							
Consultant (UN fee table, level C)	Finalise MEPS proposal	10	Person day	500	0	5000	5000
Component sub-total							5000
Sub-total activity 2.3							5000
Sub-Total Activity 2							40588
Activity 3 : Design of an MVE scheme							
Activity 3.1 : Draft proposal for the design of an MVE scheme							
Personnel							
Consultant (UN fee table, level C)	Develop draft proposal of MVE scheme and consult with national stakeholders	30	Person day	500	0	15000	15000
Component sub-total							15000
Sub-total activity 3.1							15000
Activity 3.2 : Update of the proposal and face-to-face consultations with national stakeholders on the draft proposal of an MVE scheme							
Personnel							
Consultant (UN fee table, level C)	Gather and integrate feedback to draft MVE scheme proposal	5	Person day	500	0	2500	2500
Component sub-total							2500
Travel and workshop venue: merged with activity 2							
Sub-total activity 3.2							2500
Activity 3.3: Finalisation of MVE scheme design							
Consultant (UN fee table, level C)	Finalise MVE scheme design	10	Person day	500	0	5000	5000
Component sub-total							5000
Sub-total activity 3.3							5000

Sub-Total Activity 3							22500
Activity 4 : Design of a sound financial and logistical scheme for the deployment of LED technology							
Activity 4.1: Scoping mission to the Dominican Republic to hold meetings with stakeholders							
Travel: occurs the same week as activity 2 & 3 consultation workshops							
Ticket for Finance and MVE expert	Round trip ticket	1	Ticket	2000	0	2000	2000
DSA for Finance and MVE expert	DSA (Santo Domingo, Dominican Republic)	3	DSA	272	0	1360	1360
Ticket for 1 policy consultant	Round trip ticket	1	Ticket	2000	0	2000	2000
DSA for 1 policy consultant	DSA (Santo Domingo, Dominican Republic)	3	DSA	272	0	1360	1360
Component sub-total							6720
Sub-total activity 4.1							6720
Activity 4.2 : Draft LED deployment plan and consultation of national stakeholders via email							
Personnel							
Consultant (UN fee table, level C)	Draft LEDs deployment plan & disposal of replaced products and gather comments from stakeholders	45	Person day	500	0	22500	22500
Component sub-total							22500
Sub-total activity 4.2							22500
Activity 4.3 : Finalisation of LED deployment plan							
Personnel							
Consultant (UN fee table, level C)	Finalise LED deployment plan integrating stakeholder feedback	10	Person day	500	0	5000	5000
Component sub-total							5000
Sub-total activity 4.3							5000
Sub-Total Activity 4							34220
Activity 5 : Development of an MRV framework for the NAMA							
Activity 5.1: Scoping mission to the Dominican Republic to hold meetings with stakeholders							
Travel: merged with activity 4							

Activity 5.2 : Draft report on MRV framework and consultation of national stakeholders via email							
Personnel							
Consultant (UN fee table, level C)	Draft report on identified MRV framework and gather comments from stakeholders	15	Person day	500	0	7500	7500
Component sub-total							7500
Sub-total activity 5.2							7500
Activity 5.3 : Finalisation of MRV report							
Personnel							
Consultant (UN fee table, level C)	Finalise MRV framework integrating stakeholder feedback	10	Person day	500	0	5000	5000
Component sub-total							5000
Sub-total activity 5.3							5000
Sub-Total Activity 5							12500
Activity 6 : Coordination with international finance partners							
Activity 6.1: Donor engagement meeting with technical experts from the finance sector							
Travel and workshop venue							
Ticket for lead expert/ coordinator	Round trip ticket	1	Ticket	600	0	600	600
DSA for lead expert/ coordinator	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Ticket for policy consultant	Round trip ticket	1	Ticket	500	0	500	500
DSA for policy consultant	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Workshop	Rental meeting room and equipment	1	Day	5000	0	5000	5000
Workshop	Lunch (1) and coffee breaks (2)	1	Day	2000	0	2000	2000
Workshop	Communication materials: design and printing	50	TBD	40	0	2000	2000
Component sub-total							11188
Sub-total activity 6.1							11188
Activity 6.2 : Communication and outreach to international donors ("road show")							

Personnel							
Consultant	Develop communication materials for donors	30	Person day	500	0	15000	15000
Component sub-total							15000
Travel							
Ticket for lead expert / coordinator, finance expert, and 2 government officials	Round trip ticket	4	Ticket	2000	0	8000	8000
DSA for lead expert / coordinator, finance expert, and 2 government officials	DSA (Washington,USA)	60	DSA	363	0	21780	21780
Component sub-total							29780
Procurement							
Printing	Printing communication materials	200	Cost per page	3	0	600	600
Component sub-total							600
Sub-total activity 6.2							45380
Activity 6.3 : Finalization of the NAMA draft							
Personnel							
Consultant (UN fee table, level C)	Develop draft proposal of MEPS and consult with national stakeholders	5	Person day	500	0	2500	2500
Component sub-total							2500
Sub-total activity 6.3							2500
Activity 6.4 : Presentation of NAMA to national stakeholders and international partners for financing							
Travel and workshop venue							
Ticket for lead expert / coordinator	Round trip ticket	1	Ticket	600	0	600	600
Ticket for finance expert	Round trip ticket	1	Ticket	1500	0	1500	1500
DSA for lead expert / coordinator	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544

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DSA for finance expert	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Ticket for 1 policy consultant	Round trip ticket	1	Ticket	500	0	500	500
DSA for 1 policy consultant	DSA (Santo Domingo, Dominican Republic)	2	DSA	272	0	544	544
Workshop	Rental meeting room and equipment	1	Day	5000	0	5000	5000
Workshop	Lunch (1) and coffee breaks (2)	1	Day	2000	0	2000	2000
Workshop	Communication materials: design and printing	50	TBD	40	0	2000	2000
Component sub-total							13232
Sub-total activity 6.4							13232
Sub-Total Activity 6							72300
Miscellaneous							2000
TOTAL BUDGET							248,188