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Matters relating to finance

**Report of the Green Climate Fund to the Conference of the Parties
and guidance to the Green Climate Fund**

**Report of the Global Environment Facility to the Conference of the Parties
and guidance to the Global Environment Facility**

Operation of the registry of nationally appropriate mitigation actions

Report by the secretariat

Summary

This report provides an overview of the operation of the registry of nationally appropriate mitigation actions in the reporting period (1 September 2016 to 30 September 2017). It is an update of the information contained in last year's report (FCCC/CP/2016/INF.1).

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I. Introduction

A. Mandate

1. The Conference of the Parties (COP), at its sixteenth session, decided to establish a registry to record nationally appropriate mitigation actions (NAMAs) seeking international support, and to facilitate the matching of financial, technology and capacity-building support with these actions.¹

2. COP 17 requested the secretariat to provide information on the operation of the registry to the COP annually in order to inform discussions on the Financial Mechanism.² It noted that this mechanism could make use of information available in the registry when considering the provision of support for the preparation and implementation of individual NAMAs that are seeking support.³

B. Scope of the report

3. This is the fifth annual report on the operation of the NAMA registry prepared for consideration by the COP.

4. This report is organized as follows:

(a) Chapter II provides information on the operation of the registry in the reporting period (1 September 2016 to 30 September 2017), including information contained in the registry and the main activities surrounding its use;

(b) The annex presents an analysis of information relating to the operation of the registry in the reporting period, including on its user base, NAMAs and support for NAMAs recorded in the registry.

II. Information on the operation of the registry in the reporting period

A. Users and nationally appropriate mitigation action entries in the registry

5. The number of individual users of the registry reached 151 in the reporting period, with a slight increase (4 per cent) compared with the last reporting period. As at 30 September 2017, 105 developing country Parties (69 per cent) had been provided access to the registry, compared with 102 developing countries (67 per cent) in 2016. However, only 26 per cent of countries that have access to the registry have recorded a NAMA in the registry.

6. As at 30 September 2017, the registry contained a total of 148 NAMAs seeking support for preparation, implementation or recognition, representing an increase of 9 per cent since 2016. By regional group the situation is as follows:

- (a) African States: increase by 19 per cent;
- (b) Asia-Pacific States: increase by 12 per cent;
- (c) Eastern European States: no increase for this region;
- (d) Latin American and Caribbean States: increase by 2 per cent;
- (e) Small island developing States (SIDS): increase by 22 per cent;

¹ Decision 1/CP.16, paragraph 53.

² Decision 2/CP.17, paragraph 52(b).

³ Decision 2/CP.17, paragraph 53.

(f) Least developed countries (LDCs): increase by 21 per cent.

7. NAMAs seeking support for preparation and those seeking support for implementation both make up almost half the entries (69 and 70, respectively); 9 entries are seeking support for recognition.

8. All regions have recorded NAMAs in the registry. Asia-Pacific States have the most recorded NAMAs (31 per cent), closely followed by Latin American and Caribbean States (30 per cent) and African States (26 per cent). The substantial number of NAMA entries recorded by Asia-Pacific States, African States, SIDS (7 per cent) and LDCs (23 per cent) is particularly noteworthy.

9. The most common type of action indicated in the recorded NAMA entries is developing and implementing national/sectoral policies or programmes, followed by setting up national/sectoral goals with the aim of reducing greenhouse gas emissions in a particular sector.

B. Nationally appropriate mitigation action cost and support required

10. In the reporting period, the total estimated cost of all NAMA entries reached USD 28.9 billion, almost all of it for implementation (USD 28.7 billion).

11. A total of USD 11 billion in international support was sought by NAMA entries in the reporting period. Financial support continues to make up the greatest share of international support sought (USD 9.3 billion), followed by technological support (USD 1.6 billion) and capacity-building support (USD 0.1 billion).

C. Support available and provided

12. The number of entries on support in the reporting period remained unchanged since 2016. As at 30 September 2017, the registry contained 18 entries on support.

13. A total of 18 entries on the matching of NAMAs with the available support within the registry was recorded in the reporting period, compared with 16 entries in 2016. Of the 18 supported NAMAs, 8 received support for preparation and 10 for implementation. The following two additional entries on support provided were recorded in the reporting period:

(a) The NAMA identified as NS-232 (“Rural electrification in Vanuatu”), recorded by Vanuatu, received financial support (USD 1 million) from the source identified as S-84 (“Austrian NAMA Initiative”), recorded by Austria;

(b) The NAMA identified as NS-269 (“Appropriate mitigation actions in energy generation and end use sectors in Sri Lanka”), recorded by Sri Lanka, received financial support (USD 1.8 million) from the source identified as S-83 (“Global Environment Facility Trust Fund”), recorded by the Global Environment Facility.

14. The support matched to NAMAs has increased to USD 37.7 million from USD 34.9 million since 2016. Most financial support was provided for the implementation of NAMAs (USD 31.3 million), followed by the preparation of NAMAs (USD 6.4 million). Some support-providing agencies did not mention information on the amount of support provided; hence, the actual support provided could be higher than that recorded in the registry.

D. Efforts of the secretariat to support users of the registry

15. Since the last report, the secretariat has continued its efforts on engaging with and supporting Parties and entities in the effective and increased use of the registry in the following manner:

(a) Ensuring smooth operation of the registry in accordance with the best technical standards;

(b) Providing assistance and up-to-date information to the users on recording their entries;

(c) Undertaking outreach activities to raise the visibility of high-quality NAMAs recorded in the registry;⁴

(d) Organizing a technical briefing on the NAMA registry during COP 22.⁵

16. The secretariat will continue such efforts in 2018.

E. Challenges in the operation of the registry

17. The registry faces the same challenges to effective use as those documented in the 2015 and 2016 reports.⁶

⁴ See <http://mitigationandtransparencyexchange.org/mate>.

⁵ See http://unfccc.int/cooperation_support/nama/items/9092.php.

⁶ FCCC/CP/2015/INF.2, paragraph 11, and FCCC/CP/2016/INF.1, paragraph 25.

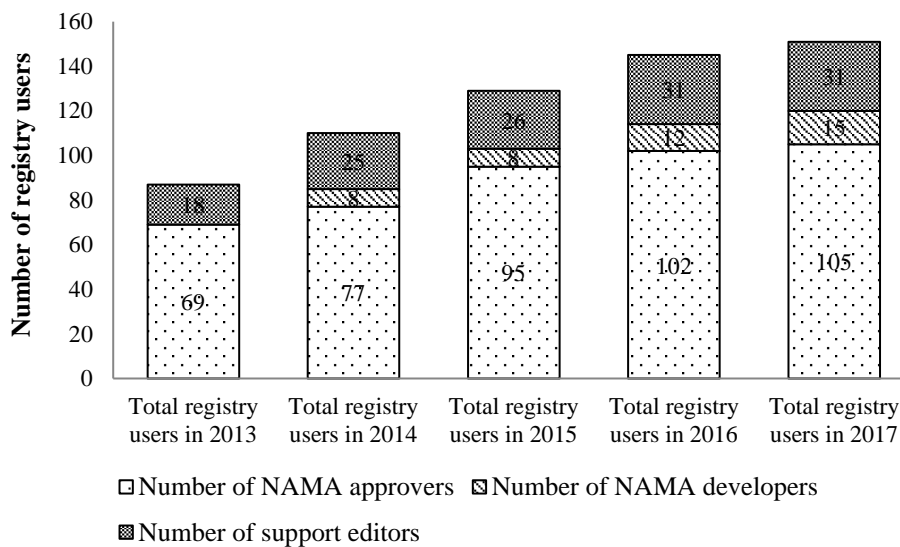
Annex

Analysis of information relating to the operation of the registry for nationally appropriate mitigation actions in the reporting period

I. Overview of user participation in the registry

1. Figure 1 provides a comparison of the number of registry users from 2013 to 2017.

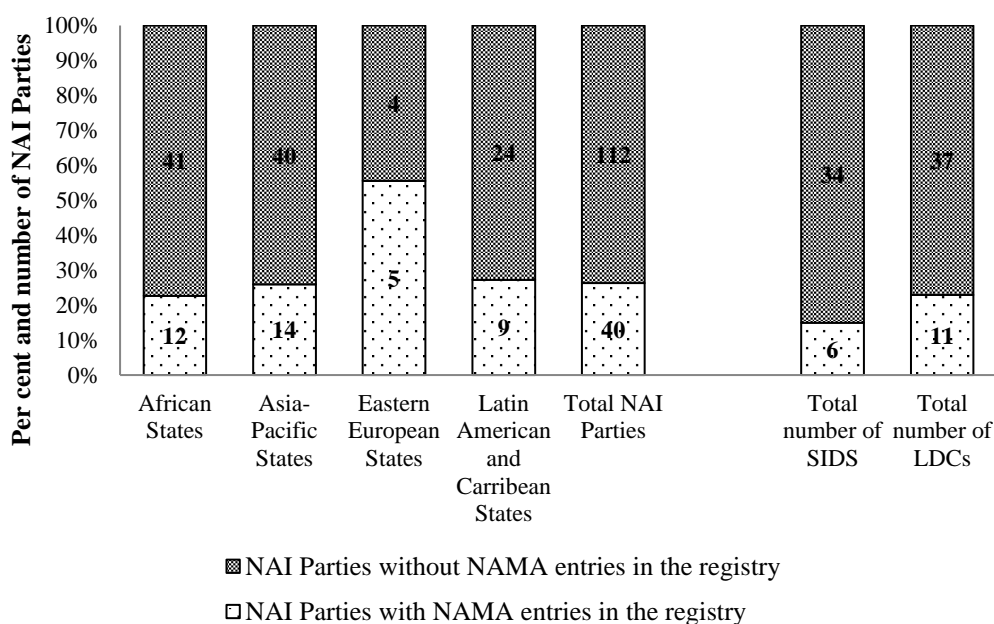
Figure 1
Number of registry users from 2013 to 2017



Abbreviation: NAMA = nationally appropriate mitigation action.

2. Figure 2 shows the share of Parties not included in Annex I to the Convention that have created entries in the registry.

Figure 2
Registry participation (registry entries) as at 30 September 2017

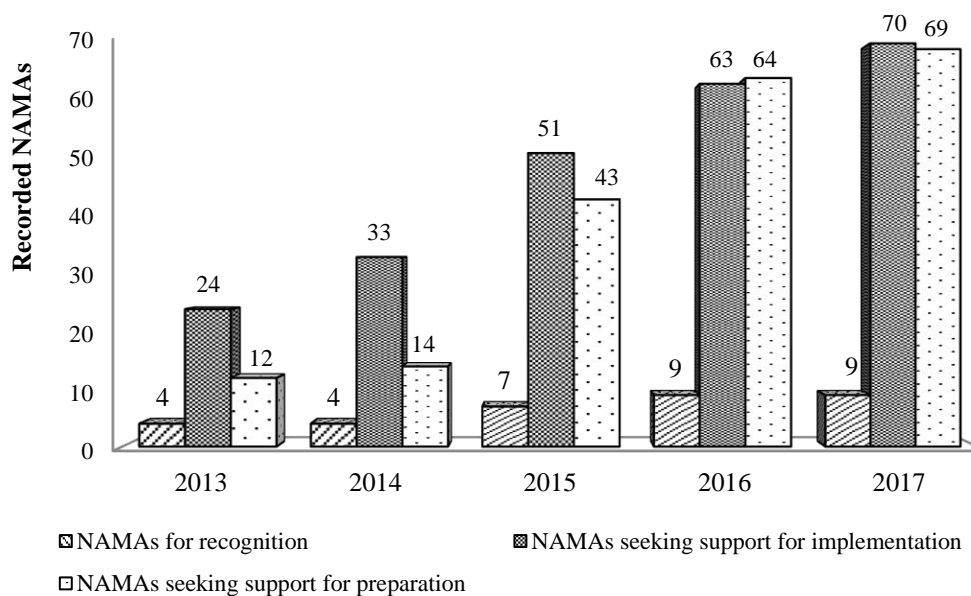


Abbreviations: LDCs = least developed countries, NAI Parties = Parties not included in Annex I to the Convention, NAMA = nationally appropriate mitigation action, SIDS = small island developing States.

II. Nationally appropriate mitigation action entries by type and regional group

3. Figure 3 illustrates the number of entries in the registry from 2013 to 2017.

Figure 3
Registry entries by nationally appropriate mitigation action type from 2013 to 2017

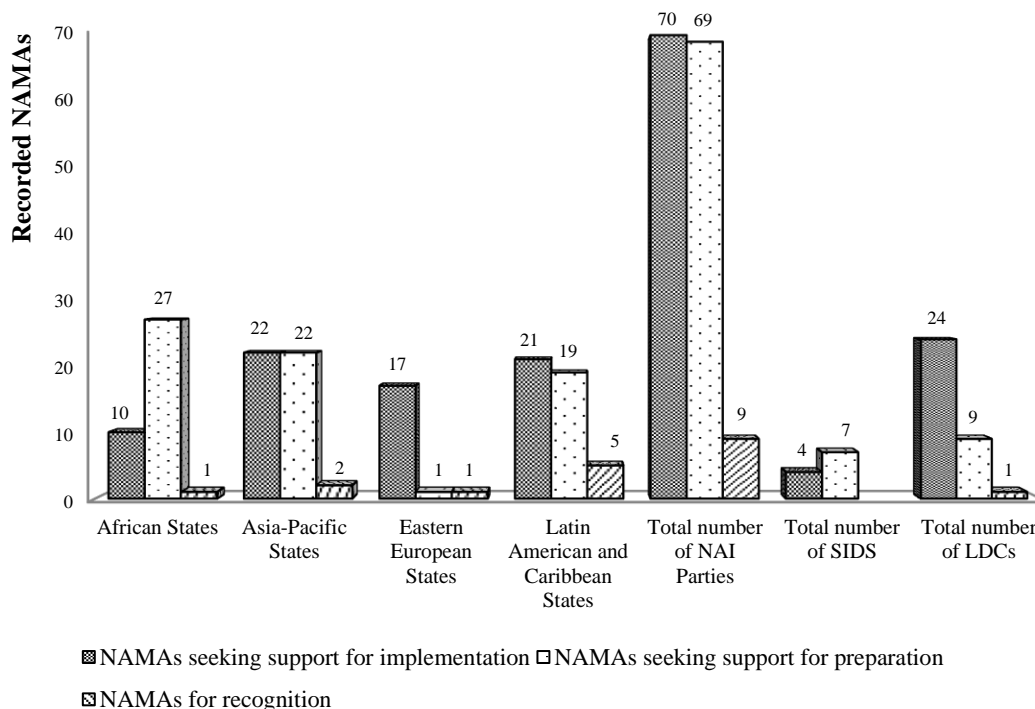


Abbreviation: NAMA = nationally appropriate mitigation action.

4. Figure 4 illustrates the distribution of NAMA entries by regional group. It shows the number of entries from small island developing States and the least developed countries, as well.

Figure 4

Distribution of nationally appropriate mitigation action categories by regional group as at 30 September 2017



Abbreviations: LDCs = least developed countries, NAI Parties = Parties not included in Annex I to the Convention, NAMA = nationally appropriate mitigation action, SIDS = small island developing States.

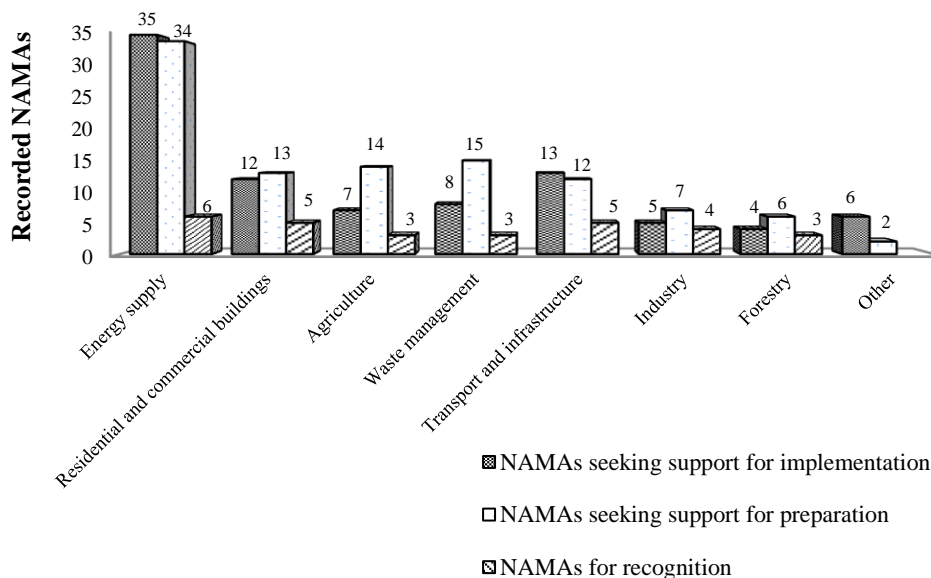
5. As in earlier years, there is a wide geographical distribution of recorded NAMAs. Asia-Pacific States have recorded most of the NAMA entries. As at 30 September 2017, the region had recorded 31 per cent of total NAMA entries, with an equal distribution between those seeking support. Asia-Pacific States are closely followed by Latin American and Caribbean States (30 per cent), while the remaining entries are distributed between African States (26 per cent) and Eastern European States (13 per cent).

III. Nationally appropriate mitigation action entries by sector, technology and type of action⁷

6. Figure 5 shows the number of NAMA entries recorded by sector.

⁷ Note that more than one sector, technology, type of action, support type or greenhouse gas type can be selected per NAMA entry.

Figure 5
Recorded nationally appropriate mitigation action entries by sector as at 30 September 2017

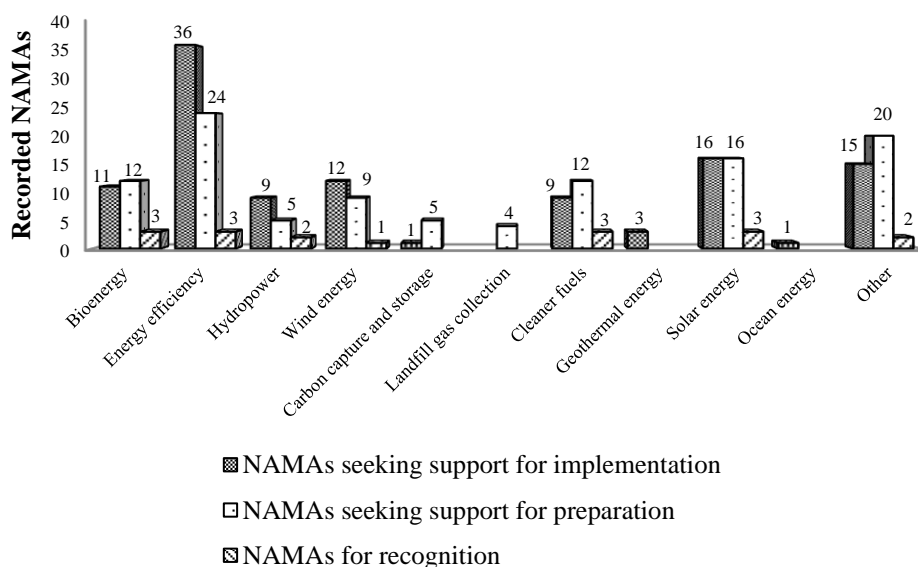


Abbreviation: NAMA = nationally appropriate mitigation action.

7. Of the total number of entries, the main sectors targeted by NAMAs are energy supply (34 per cent), followed by residential and commercial buildings (14 per cent) and transport and infrastructure (14 per cent). The recorded NAMAs also cover waste management (12 per cent), agriculture (11 per cent), industry (7 per cent) and forestry (6 per cent). The number of entries covering the residential and commercial buildings, transport and infrastructure, waste management, agriculture and forestry sectors is particularly noteworthy as it reflects diversified sectoral coverage.

8. Figure 6 presents the distribution of NAMAs by identified technology.

Figure 6
Characterization of nationally appropriate mitigation actions by technology as at 30 September 2017



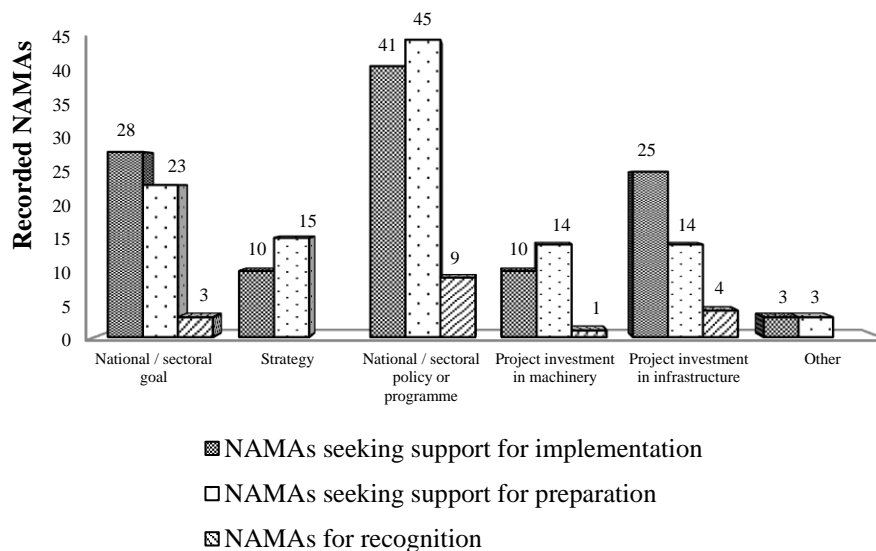
Abbreviation: NAMA = nationally appropriate mitigation action.

9. A total of 94 per cent of all recorded NAMAs identified an applicable technology. The NAMAs targeting the energy sector mainly focus on energy efficiency, solar energy, bioenergy, cleaner fuels, wind energy and hydropower. In the reporting period, energy efficiency was the technology specified in the largest number of NAMA entries (26 per cent), followed by solar energy (15 per cent), bioenergy (11 per cent), cleaner fuels (10 per cent) and wind energy (9 per cent).

10. Figure 7 provides a summary of the types of action specified in NAMA entries.

Figure 7

Distribution of nationally appropriate mitigation actions by type of action as at 30 September 2017



Abbreviation: NAMA = nationally appropriate mitigation action.

11. The recorded NAMA entries covered a wide range of actions. The majority of NAMAs (38 per cent) intend to implement national/sectoral policies or programmes for climate change mitigation actions, followed by national/sectoral goals (22 per cent), investments in infrastructure (17 per cent) and strategy (10 per cent).

IV. Greenhouse gas coverage and emission reductions

12. More than two thirds of the NAMA entries (84 per cent) specified the greenhouse gases they cover. Carbon dioxide (CO₂) is covered by the majority of NAMA entries (57 per cent), followed by methane (23 per cent) and nitrous oxide (14 per cent).

13. An estimation of the total emission reductions reflected in the registry (e.g. a sum of the data from all the entries) is not possible at this stage owing to the use of different standards, indicators and time frames. However, the following can be said:

(a) NAMAs seeking support for implementation: total emission reductions range from 0.01 Mt CO₂ eq to 66 Mt CO₂ eq; annual emission reductions range from 0.0002 Mt CO₂ eq to 7.8 Mt CO₂ eq;

(b) NAMAs for recognition: total emission reductions range from 10.8 Mt CO₂ eq to 113.3 Mt CO₂ eq; annual emission reductions range from 0.3 Mt CO₂ eq to 622 Mt CO₂ eq.

V. Total cost of nationally appropriate mitigation actions

14. Table 1 shows the total cost of NAMAs recorded as at 30 September 2017 by type and regional group. A total of 136 entries (92 per cent) specified the cost involved. The range of the cost per NAMA was as follows:

- (a) From USD 60,000 to USD 20 million for preparation;
 (b) From USD 70,000 to USD 6.2 billion for implementation.

Table 1
Total cost of nationally appropriate mitigation actions by type and regional group as at 30 September 2017

	<i>Estimated full cost (USD)</i>
<i>NAMAs seeking support for preparation</i>	
African States	16 628 000
Asia-Pacific States	113 019 835
Eastern European States	100 000
Latin American and Caribbean States	11 734 277
Subtotal	141 482 112
<i>NAMAs seeking support for implementation</i>	
African States	9 012 708 247
Asia-Pacific States	5 391 781 589
Eastern European States	2 822 289 634
Latin American and Caribbean States	11 467 217 651
Subtotal	28 693 997 121
<i>Other NAMAs – for recognition</i>	
African States	No entries for this region
Asia-Pacific States	No entries for this region
Eastern European States	1 000 000
Latin American and Caribbean States	20 036 500
Subtotal	21 036 500
Total	28 856 515 733

Abbreviation: NAMA = nationally appropriate mitigation action.

VI. Support sought for nationally appropriate mitigation actions

15. Of the NAMA entries seeking support, 53 per cent sought financial support, 13 per cent technology support and 33 per cent capacity-building support.

16. Table 2 provides a summary of support sought under each category and by regional group.

Table 2
Support sought for nationally appropriate mitigation actions by type and regional group as at 30 September 2017

<i>UNFCCC regional group by NAMA category</i>	<i>Sum of financial support (USD)</i>	<i>Sum of technology support (USD)</i>	<i>Sum of capacity-building support (USD)</i>
<i>NAMAs seeking support for preparation</i>			
African States	13 798 000	1 580 000	1 880 000
Asia-Pacific States	81 104 835	33 940 000	900 000
Eastern European States	100 000	No entries for this region	No entries for this region
Latin American and Caribbean States	9 321 277	800 000	750 000
Subtotal	104 324 112	36 320 000	3 530 000
<i>NAMAs seeking support for</i>			

<i>UNFCCC regional group by NAMA category</i>	<i>Sum of financial support (USD)</i>	<i>Sum of technology support (USD)</i>	<i>Sum of capacity-building support (USD)</i>
<i>implementation</i>			
African States	2 727 440 714	200 000	56 313 905
Asia-Pacific States	1 788 758 427	247 250 000	38 079 604
Eastern European States	2 550 782 000	1 101 800 000	920 000
Latin American and Caribbean States	2 152 898 939	199 512 603	3 263 000
Subtotal	9 219 880 080	1 548 762 603	98 576 509
Total	9 324 204 192	1 585 082 603	102 106 509

Abbreviation: NAMA = nationally appropriate mitigation action.

VII. Financial support sought for nationally appropriate mitigation actions

17. Table 3 shows the range of financial support sought for the implementation and preparation of NAMAs.

Table 3

Financial support sought for nationally appropriate mitigation actions as at 30 September 2017

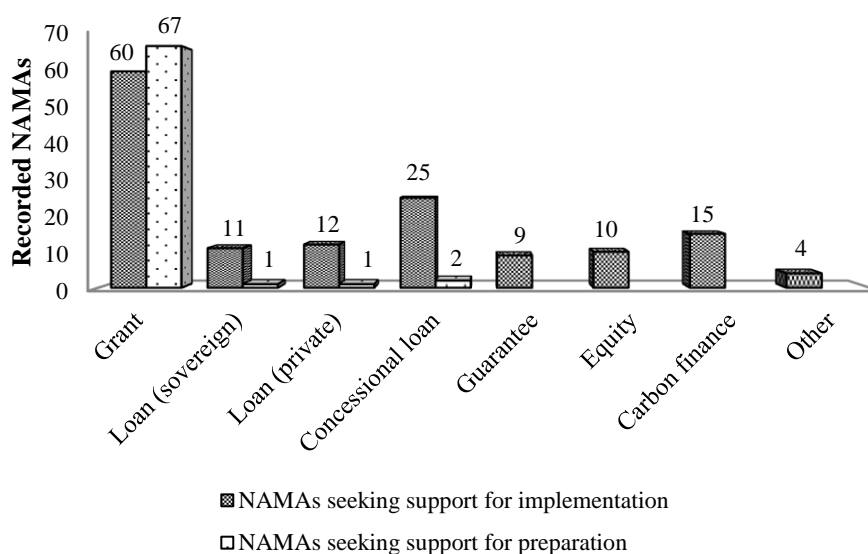
<i>NAMA category</i>	<i>Number of NAMAs</i>	<i>Range (USD)</i>		<i>Total (USD)</i>
		<i>Minimum</i>	<i>Maximum</i>	
Preparation	61	40 000	19 657 335	104 324 112
Implementation	67	70 000	1 520 000 000	9 219 880 080

Abbreviation: NAMA = nationally appropriate mitigation action.

18. Figure 8 summarizes the type of financial support sought for NAMAs.

Figure 8

Type of financial support sought for nationally appropriate mitigation actions as at 30 September 2017



Abbreviation: NAMA = nationally appropriate mitigation action.

VIII. Technology support sought for nationally appropriate mitigation actions

19. Table 4 shows the range of technology support sought for the implementation and preparation of NAMAs.

Table 4

Technology support sought for nationally appropriate mitigation actions as at 30 September 2017

NAMA category	Number of NAMAs	Range (USD)		Total (USD)
		Minimum	Maximum	
Preparation	18	20 000	9 058 000	36 320 000
Implementation	15	125 290	954 000 000	1 548 762 603

Abbreviation: NAMA = nationally appropriate mitigation action.

IX. Capacity-building support sought for nationally appropriate mitigation actions

20. Table 5 shows the range of capacity-building support sought for the implementation and preparation of NAMAs.

Table 5

Capacity-building support sought for nationally appropriate mitigation actions as at 30 September 2017

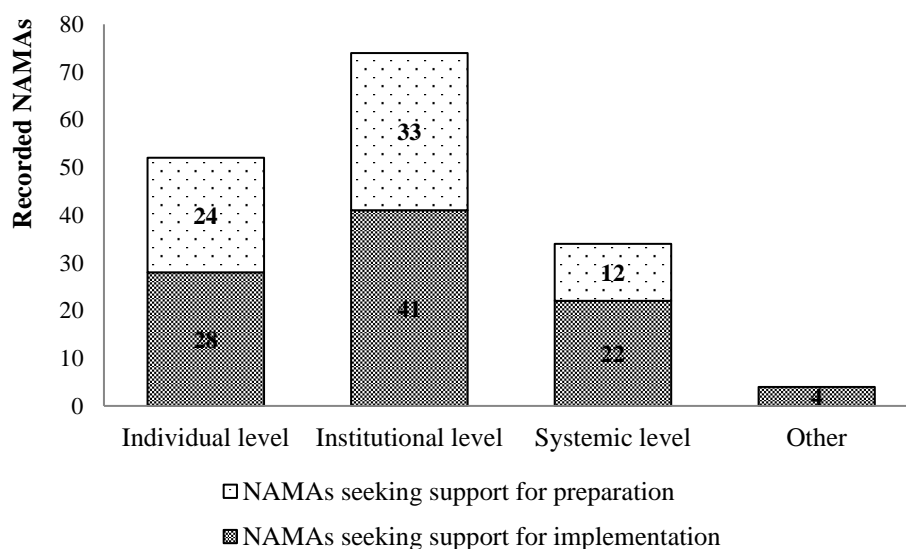
NAMA category	Number of NAMAs	Range (USD)		Total (USD)
		Minimum	Maximum	
Preparation	20	50 000	700 000	3 530 000
Implementation	21	20 000	35 000 000	98 576 509

Abbreviation: NAMA = nationally appropriate mitigation action.

21. Figure 9 illustrates the type of capacity-building support sought.

Figure 9

Type of capacity-building support sought for nationally appropriate mitigation actions as at 30 September 2017



Abbreviation: NAMA = nationally appropriate mitigation action.