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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 October 2017 to 30 September 2018) and in terms of the cumulative status of nationally appropriate mitigation action entries in the registry as at 30 September 2018. It is an update of the information contained in last year's report (FCCC/CP/2017/INF.3).

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Contents

	<i>Paragraphs</i>	<i>Page</i>
I. Introduction	1–4	3
A. Mandate	1–2	3
B. Scope of the report	3–4	3
II. Information on the operation of the registry	5–37	3
A. Registry usage	5–8	3
B. Nationally appropriate mitigation action entries recorded in the registry in the reporting period	9–15	4
C. Cumulative status of nationally appropriate mitigation action entries in the registry	16–32	5
D. Support available and provided	33–34	11
E. Efforts of the secretariat to support users of the registry	35–36	12
F. Challenges in the operation of the registry	37	12

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 sixth annual report on the operation of the NAMA registry prepared for consideration by the COP.

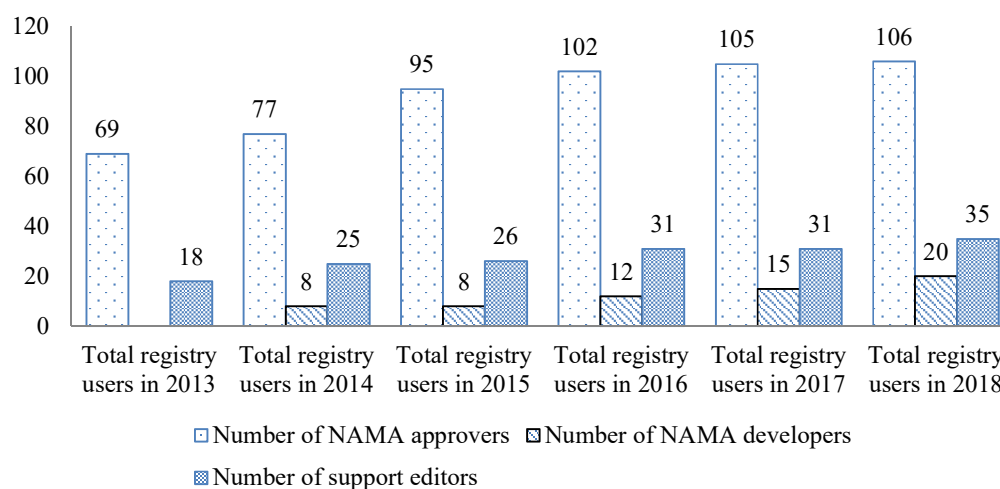
4. The report provides information on the operation of the registry in the reporting period (1 October 2017 to 30 September 2018) and in terms of the cumulative status of NAMA entries in the registry as at 30 September 2018.

II. Information on the operation of the registry

A. Registry usage

5. The number of individual users of the registry reached 161 in the reporting period, which was a slight increase (7 per cent) compared with the number of users in the previous reporting period. Figure 1 provides a comparison of the number of registry users from 2013 to 2018.

Figure 1
Number of registry users from 2013 to 2018



Abbreviation: NAMA = nationally appropriate mitigation action.

¹ Decision 1/CP.16, paragraph 53.

² Decision 2/CP.17, paragraph 52(b).

³ Decision 2/CP.17, paragraph 53.

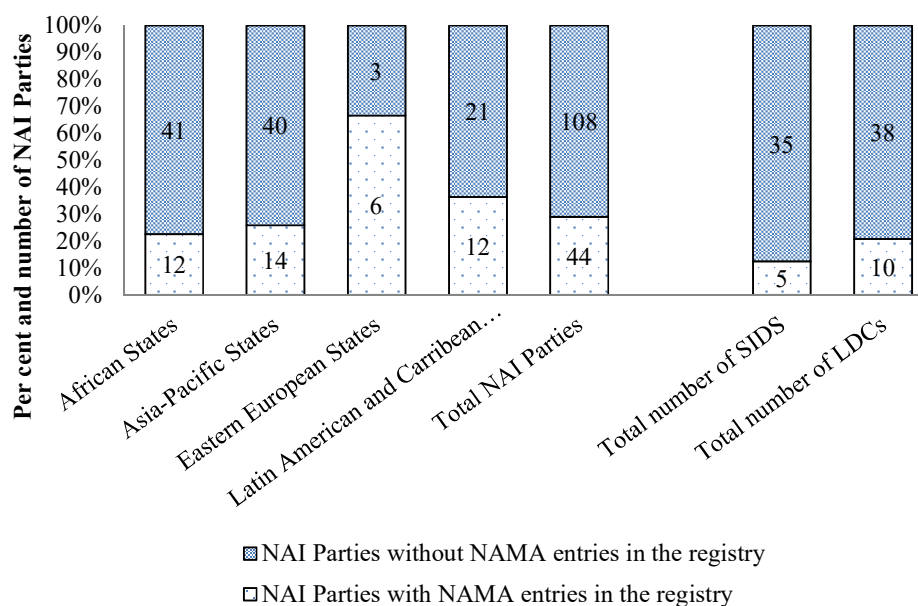
6. As at 30 September 2018, 106 developing country Parties (70 per cent) had been provided with access to the registry. As a percentage of the number of countries in each regional group, African States had the most access rights (92 per cent), followed by Eastern European States (67 per cent), Latin American and Caribbean States (64 per cent) and Asia-Pacific States (55 per cent). In the case of small island developing States (SIDS) and the least developed countries (LDCs), the percentage of Parties with the right to access the registry was 55 and 67 per cent, respectively.

7. Of the 106 developing country Parties that have access to the registry, only 44 (42 per cent) recorded a NAMA in the registry. Similarly, only 18 (51 per cent) of the 35 support editors with access to the registry recorded information on support in the registry.

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

Figure 2

Registry participation (registry entries) as at 30 September 2018



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.

B. Nationally appropriate mitigation action entries recorded in the registry in the reporting period

9. The registry recorded an additional 22 NAMA entries in the reporting period. The Republic of Moldova submitted the largest number of entries (12), followed by Guatemala (2), Thailand (2), Chile (1), Colombia (1), El Salvador (1), Mexico (1), Honduras (1) and Viet Nam (1).

10. Of the additional 22 NAMA entries, 18 sought support for implementation, 3 sought support for preparation and 1 sought recognition. The breakdown of NAMAs by regional group was as follows:

- (a) African States: no entries;
- (b) Asia-Pacific States: three entries (one seeking recognition, two seeking support for implementation);
- (c) Eastern European States: 12 entries (all seeking support for implementation);
- (d) Latin American and Caribbean States: seven entries (four seeking support for implementation and three seeking support for preparation).

11. The sector most commonly targeted by the new NAMA entries was energy supply (29 per cent), followed by the agriculture (19 per cent), forestry (16 per cent), residential and commercial buildings (16 per cent), transport and infrastructure (7 per cent), industry (7 per cent), waste management (3 per cent) and other (3 per cent) sectors.

12. Most new NAMA entries specified energy efficiency as the technology to be adopted (39 per cent), followed by other (22 per cent), carbon capture and storage (9 per cent), low till or no till (9 per cent), bioenergy (5 per cent), wind energy (4 per cent), landfill gas collection (4 per cent), cleaner fuel (4 per cent) and solar energy (4 per cent) technologies.

13. Almost half of the newly recorded NAMA entries fell under the category of national/sectoral policy or programme (46 per cent), with national/sectoral goal (38 per cent), project (12 per cent) and strategy (4 per cent) comprising the remaining entries.

14. The total estimated cost of the newly recorded NAMA was USD 12 billion, almost all of which was for implementation.

15. The new NAMA entries sought a total of USD 4.7 billion in international support. As in previous reporting periods, financial support made up the greatest share of international support sought (USD 4.5 billion), followed by technological support (USD 0.14 billion) and capacity-building support (USD 0.06 billion).

C. Cumulative status of nationally appropriate mitigation action entries in the registry

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

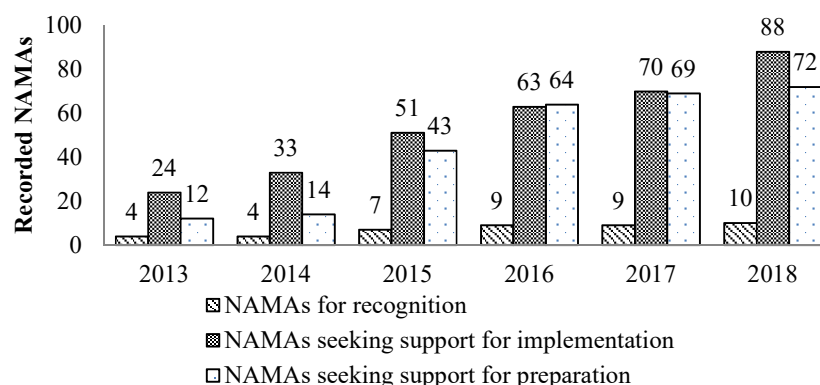
16. As at 30 September 2018, the registry contained a total of 170 NAMAs seeking support for preparation or implementation or seeking recognition, representing an increase of 15 per cent since 2017. The change in the number NAMA entries since 2017 by regional and other groupings was as follows:

- (a) African States: no increase;
- (b) Asia-Pacific States: increase of 7 per cent;
- (c) Eastern European States: increase of 63 per cent;
- (d) Latin American and Caribbean States: increase of 16 per cent;
- (e) SIDS: no increase;
- (f) LDCs: no increase.

17. Figure 3 shows the number of entries in the registry from 2013 to 2018 by type.

Figure 3

Nationally appropriate mitigation action entries by type from 2013 to 2018



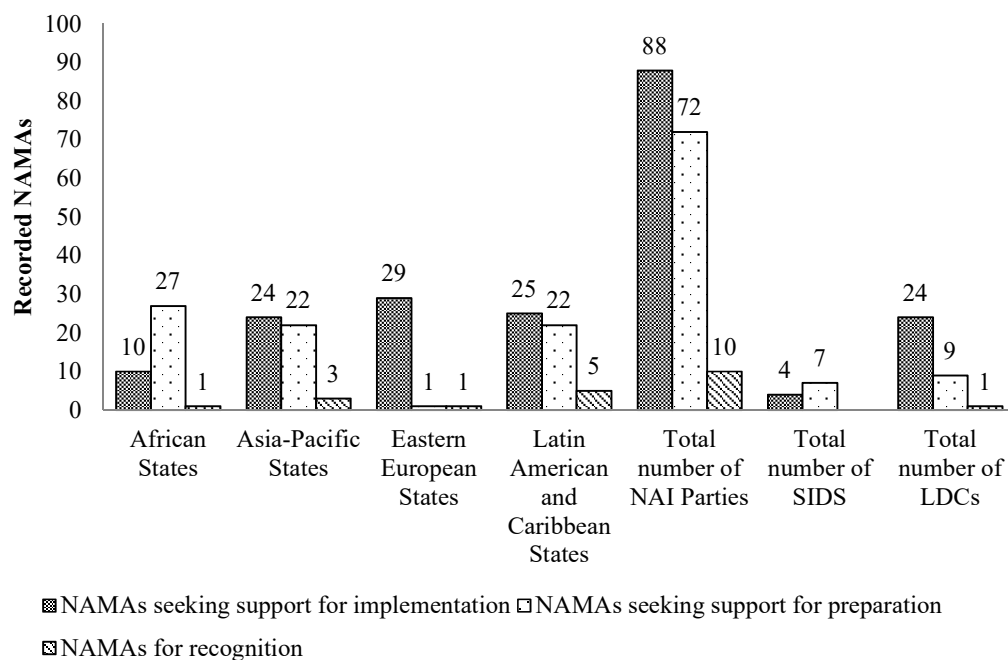
Abbreviation: NAMA = nationally appropriate mitigation action.

18. NAMAs seeking support for implementation comprised the highest share of NAMA entries (52 per cent), followed by those seeking support for preparation (42 per cent) and those seeking recognition (6 per cent).

19. The geographical distribution of NAMAs was wide: all regions recorded NAMAs in the registry. Latin American and Caribbean States recorded the most NAMA entries (31 per cent), followed by Asia-Pacific States (29 per cent), African States (22 per cent) and Eastern European States (18 per cent). The substantial number of NAMA entries recorded by African States, Asia-Pacific States, SIDS (6 per cent) and the LDCs (20 per cent) was particularly noteworthy. Figure 4 shows the distribution of NAMA entries by regional group. It also shows the number of entries from SIDS and the LDCs.

Figure 4

Nationally appropriate mitigation action entries by regional group as at 30 September 2018



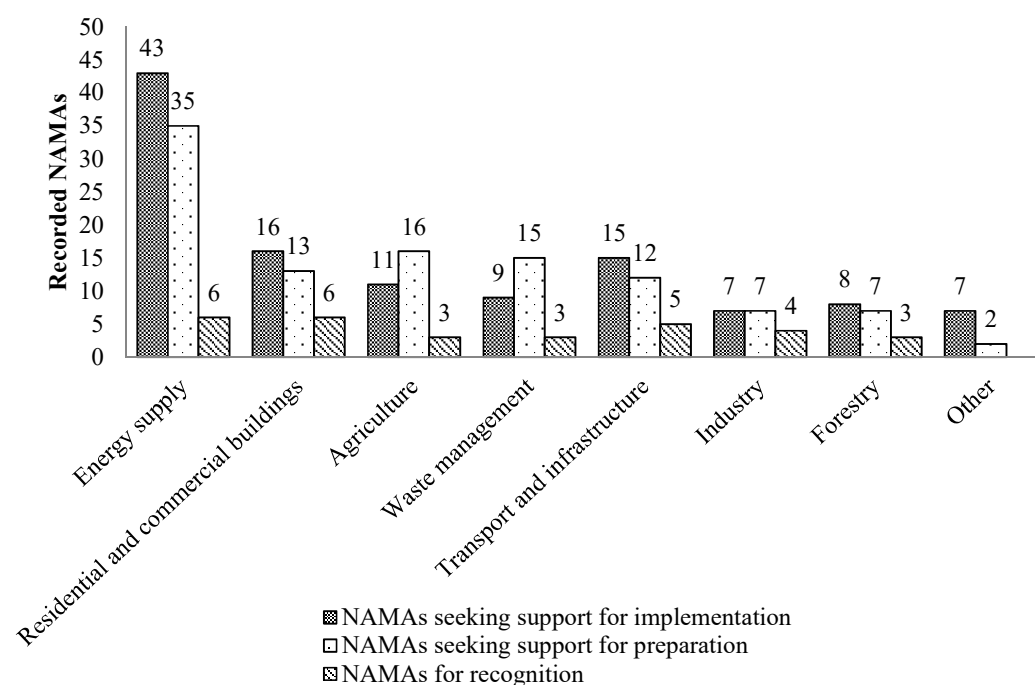
Abbreviations: LDCs = least developed countries, NAI Parties = Parties not included in Annex I to the Convention, NAMA = nationally appropriate mitigation action, SIDS = small island developing States.

2. Nationally appropriate mitigation action entries by sector, technology and type of action⁴

20. The NAMA entries targeted the following sectors: energy supply (33 per cent), residential and commercial buildings (14 per cent), transport and infrastructure (13 per cent), agriculture (12 per cent), waste management (11 per cent), industry (7 per cent), forestry (7 per cent) and other (3 per cent). The number of entries covering the residential and commercial buildings, transport and infrastructure, waste management, agriculture and forestry sectors was particularly noteworthy as it reflected diverse sectoral coverage. Figure 5 shows the number of NAMA entries recorded by sector.

⁴ Note that more than one sector, technology or type of action can be selected for each NAMA entry.

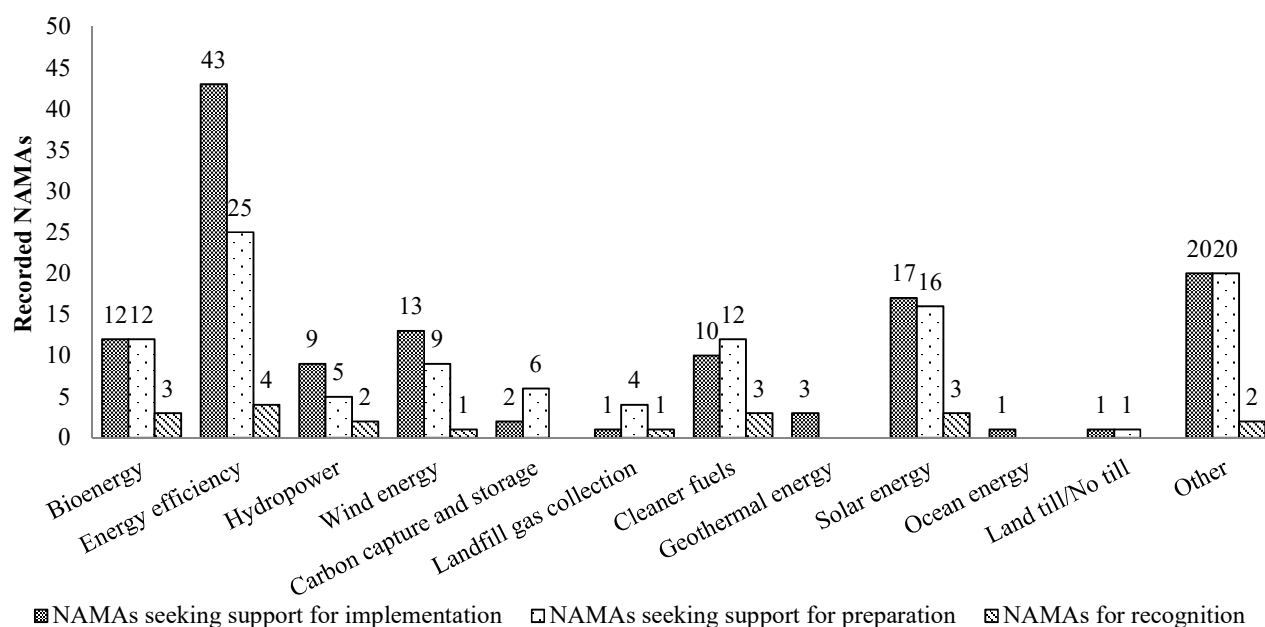
Figure 5

Nationally appropriate mitigation action entries by sector as at 30 September 2018

Abbreviation: NAMA = nationally appropriate mitigation action.

21. A total of 94 per cent of all recorded NAMAs identified an applicable technology. Among the energy sector NAMAs, energy efficiency was the technology specified in the largest number of entries (28 per cent), followed by solar energy (14 per cent), bioenergy (10 per cent), cleaner fuels (10 per cent) and wind energy (9 per cent). Figure 6 shows the distribution of NAMAs by identified technology.

Figure 6

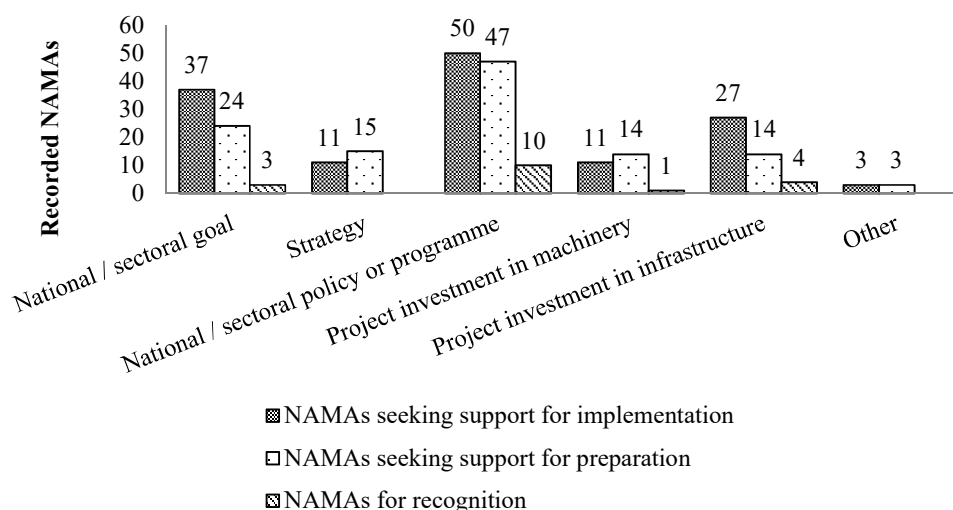
Nationally appropriate mitigation action entries by technology as at 30 September 2018

Abbreviation: NAMA = nationally appropriate mitigation action.

22. The NAMA entries covered a wide range of actions. The majority of NAMAs (39 per cent) intend to implement national/sectoral policies or programmes for climate change mitigation action. These were followed by NAMAs that relate to national/sectoral goals (23 per cent), project investment in infrastructure (16 per cent), project investment in machinery (9 per cent) and strategy (9 per cent). Figure 7 shows the types of action specified in NAMA entries.

Figure 7

Nationally appropriate mitigation action entries by type of action as at 30 September 2018



Abbreviation: NAMA = nationally appropriate mitigation action.

3. Greenhouse gas coverage and emission reductions

23. More than two thirds of the NAMA entries (86 per cent) that had been recorded in the registry as at 30 September 2018 specified the greenhouse gases covered. Carbon dioxide was covered by most NAMA entries (58 per cent), while methane was covered by 23 per cent and nitrous oxide by 14 per cent.

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

(a) For NAMAs seeking support for implementation, the total emission reductions ranged from 0.01 to 66 Mt carbon dioxide equivalent (CO₂ eq), and annual emission reductions ranged from 0.0002 to 7.8 Mt CO₂ eq;

(b) For NAMAs seeking recognition, the total emission reductions ranged from 10.8 to 113.3 Mt CO₂ eq, and annual emission reductions ranged from 0.001 to 622 Mt CO₂ eq.

4. Nationally appropriate mitigation action cost

25. As at 30 September 2018, the cumulative total estimated cost of all NAMA entries in the registry reached USD 40.95 billion, almost all of which was for implementation. Table 1 shows the total cost of NAMAs recorded by type and regional group. A total of 159 entries (94 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 2018

<i>Regional group and NAMA category</i>	<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	12 894 277
Subtotal	142 642 112
<i>NAMAs seeking support for implementation</i>	
African States	9 012 708 247
Asia-Pacific States	11 854 717 248
Eastern European States	5 242 366 233
Latin American and Caribbean States	14 673 888 295
Subtotal	40 783 680 023
<i>NAMAs for recognition</i>	
African States	No entries for this region
Asia-Pacific States	14 000
Eastern European States	1 000 000
Latin American and Caribbean States	20 036 500
Subtotal	21 050 500
Total	40 947 372 635

Abbreviation: NAMA = nationally appropriate mitigation action.

5. Support required

26. Of the NAMA entries seeking support, 52 per cent sought financial support, 14 per cent technology support and 34 per cent capacity-building support.

27. A cumulative total of USD 15.7 billion in international support was sought by all NAMA entries. Financial support continued to make up the greatest share of international support sought (USD 13.84 billion), followed by technological support (USD 1.7 billion) and capacity-building support (USD 0.15 billion). Table 2 shows 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 2018

<i>Regional group and 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	19 781 277	1 150 000	850 000
Subtotal	114 784 112	36 670 000	3 630 000

NAMAs seeking support for implementation

African States	2 727 440 714	200 000	56 313 905
Asia-Pacific States	2 293 018 427	250 430 000	43 679 604
Eastern European States	4 254 689 153	1 163 500 000	6 365 500
Latin American and Caribbean States	4 450 289 146	275 512 603	42 414 538
Subtotal	13 725 437 440	1 689 642 603	148 773 547
Total	13 840 221 552	1 726 312 603	152 403 547

Abbreviation: NAMA = nationally appropriate mitigation action.

(a) Financial support

28. 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 2018

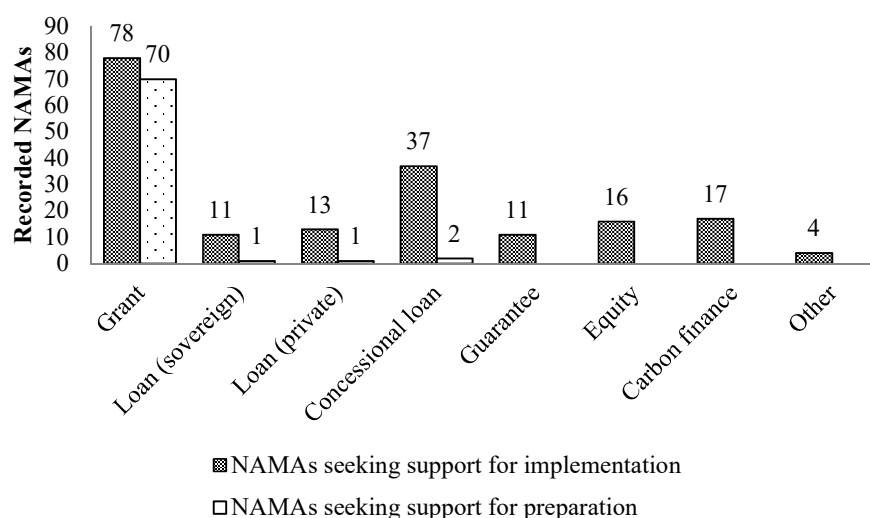
NAMA category	Number of NAMAs	Range (USD)		Total (USD)
		Minimum	Maximum	
Preparation	64	40 000	19 675 335	114 784 112
Implementation	85	70 000	2 108 000 000	13 725 437 440

Abbreviation: NAMA = nationally appropriate mitigation action.

29. Figure 8 shows the type of financial support sought for NAMAs.

Figure 8

Type of financial support sought for nationally appropriate mitigation actions as at 30 September 2018



Abbreviation: NAMA = nationally appropriate mitigation action.

(b) Technological support

30. 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 2018

NAMA category	Number of NAMAs	Range (USD)		Total (USD)
		Minimum	Maximum	
Preparation	19	20 000	9 058 000	36 670 000
Implementation	21	125 290	954 000 000	1 689 642 603

Abbreviation: NAMA = nationally appropriate mitigation action.

(c) Capacity-building support

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

Table 5

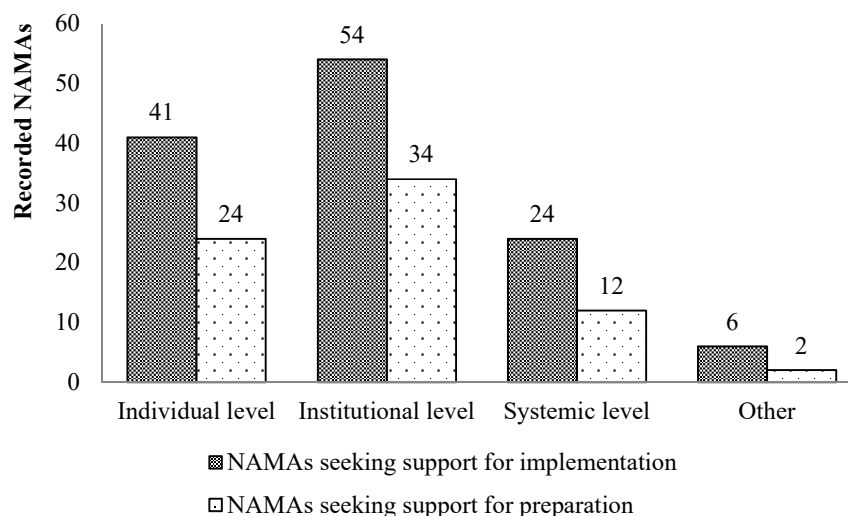
Capacity-building support sought for nationally appropriate mitigation actions as at 30 September 2018

NAMA Category	Number of NAMAs	Range (USD)		Total (USD)
		Minimum	Maximum	
Preparation	21	50 000	700 000	3 630 000
Implementation	37	20 000	36 021 538	148 773 547

Abbreviation: NAMA = nationally appropriate mitigation action.

32. Figure 9 shows the type of capacity-building support sought.

Figure 9

Type of capacity-building support sought for nationally appropriate mitigation actions as at 30 September 2018

Abbreviation: NAMA = nationally appropriate mitigation action.

D. Support available and provided

33. The number of entries on support available and support provided in the reporting period remained unchanged since 2017. As at 30 September 2018, the registry contained 18 entries on support and 18 entries on the matching of NAMAs with the support available in the registry.

34. The support matched to NAMAs totals USD 37.7 million. Most of the 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.

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

35. Since the previous report, the secretariat continued its efforts on engaging with and supporting Parties and entities in the effective and increased use of the registry, including by ensuring the smooth operation of the registry and providing assistance and up-to-date information to the users on recording their entries.

36. The secretariat will continue such efforts in 2019.

F. Challenges in the operation of the registry

37. The registry faces the same challenges to effective use as those documented in the 2015⁵ and 2016⁶ reports.

⁵ FCCC/CP/2015/INF.2, paragraph 11.

⁶ FCCC/CP/2016/INF.1, paragraph 24.