

\$26 billion international finance to projects in non-

27% of total new commitments in 2017 were green finance commitments

27% increase

87% in home country of IDFC members

\$220 billion in green finance in 2017

84% of total finance committed in 2017 in Green energy and Mitigation of Greenhouse Gases

X2 growth in adaptation finance from 2016



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1. INTRODUCTION

Accelerating implementation of the Paris Agreement and advancing the Sustainable Development Goals requires greater mobilization and shifting of investments, public and private, towards sustainable development. To this end, the role of development financial institutions – international, multilateral, national and regional – is crucial.

The International Development Finance Club (IDFC), created in 2011, brings together 24 leading international, national and sub regional development banks from Africa, Asia, Europe, and Central and South America. At the One Planet Summit in Paris in December 2017, the IDFC, joined by the multilateral development banks, issued a joint statement on aligning their financial flows with the Paris Agreement. They committed to mobilize finance for climate action by:

- Further embedding climate change considerations within their strategies and activities inspired by the five voluntary Principles for Mainstreaming Climate Action within Financial Institutions. Specific attention will be devoted to managing climate risk and to the integration of climate resilience and adaptation.
- 2. Redirecting financial flows in support of transitions towards low-carbon and climate resilient sustainable development.
- Catalyzing investments to climate change by mobilizing additional private capital and to blend their financing most effectively.
- 4. Supporting the development of enabling policy and regulatory environments, at both national and sub-national levels.

This report is part of the IDFC's commitments undertaken in its Joint Statement to improve the quality, robustness and consistency of climate finance tracking and reporting, and offers a transparent view of the activities of IDFC Members, with the aim of identifying and categorizing financial flows from IDFC Members to green finance projects. Such consistent and transparent monitoring, tracking and reporting of climate

is critical for IDFC to ensure evidence-based decision making to effectively implement the Paris Agreement.

This report presents the applied finance tracking methodology and key outcomes for IDFC's green finance commitments in 2017. Comparative data for 2015 and 2016 have been shown where relevant. The structure of this year's green mapping report, prepared with the support of Climate Policy Initiative, is as follows:

- Section 2 provides an overview of the methodology used for the green finance mapping exercise.
- Section 3 discusses the climate finances flows by region of origin, instruments, region of recipient followed by breakdown by categories.
- Section 4 contains the conclusions and recommendations.

IDFC Members and their recent achievements

IDFC is a platform for advocacy, mobilization and action for low-carbon, climate resilient sustainable development, connecting local and international, as well as public and private finance and stakeholders. IDFC members have a combined portfolio of US \$4 trillion in assets, and with commitments above \$850 billion per year. IDFC continue to expand its diverse membership base with addition of two new members in 2018, namely Italy's Cassa Depositi e Prestiti (CDP) and the International Investment Bank (IIB). Provided below is a selection of IDFC member institutions achievements since 2017.

- AFD's climate finance mobilized an additional 33% or €1.32 billion from private sources in 2017 compared to 2016. The share of private climate finance flowing to Africa also increased to 32%.
- BNDES issued a \$1billion green bond in the international market. The funds raised were invested in wind and solar energy projects.
- CABEI dedicated 55% of financing to climate, an increase of 37% compared to the climate finance commitments in 2016.

- DBSA is currently working with the government of South Africa to develop policy and capacity incentives for mainstreaming biodiversity and ecosystems values into national, regional and local development policy and finance.
- JICA started the construction of a 'Pacific Climate Change Centre' in Samoa, which will be the Pacific regional center of excellence for climate change information, research and innovation.
- ICD supported Jordan's goal of 10% of electricity from renewables by 2020 by financing the Shobak Wind Project, a 45MW independent power project.
- KfW provided \$1billion for adaptation and 55% of the total new commitments of KfW
 Development Bank are attributable to projects relating to climate and environmental protection.
- CAF has undertaken the development of climate change vulnerability indexes, with a particular focus on cities, such as Guayaquil (Ecuador), Arequipa (Peru), and Sao Paulo (Brazil).

Our members

24 Members from developed and developing countries

EUROPE

Italia

Cassa depositi e prestiti (CDP)

Black Sea Region (Location: Greece) Black Sea Trade and Development Bank

Agence Française de Développement (AFD)

Croatia

Croatian Bank for Reconstruction and Development (HBOR)

Germany KfW Bankengruppe

Industrial Development Bank of Turkey (TSKB)

Russia

Vnesheconombank (VEB)

Caisse de Dépôt et de Gestion (CDG)

(DBSA)

Western Africa Region (Location: Togo)

Banque Ouest Africaine de Développement (BOAD)

Eastern & Southern Africa Region (Location: Burundi & Mauritius)

and Development Bank (TDB)

ASIA AND MENA

Small Industries Development Bank of India (SIDBI)

China Development Bank (CDB)

The Korea Development Bank (KDB)

Japan International Cooperation Agency

Central America Region (Location: Honduras)

Central American Bank for Economic Integration (BCIE/CABEI)

Nacional Financiera (NAFIN)

Central and Latin America Region (Location: Venezuela)

Development Bank of Latin America (CAF)

(COFIDE)

Colombia

Bancoldex S.A.

Econômico e Social (BNDES)

Banco Estado (BE)

Islamic Corporation for the Development of the Private Sector (ICD) (Location: Saudi Arabia)

International Investment Bank (IIB)



www.IDFC.org



in International Development Finance Club (IDFC)

2. METHODOLOGY

The mapping exercise is a three-level process involving survey submissions by IDFC members, verifying the reliability and accuracy of the survey results and presenting the findings in an aggregate level representing the IDFC as a group and/or at the organization level. The IDFC survey aligns with the MDB – IDFC Common Principles for Climate Mitigation Finance Tracking and MDB-IDFC Common Principles for Climate Change Adaptation Finance Tracking, agreed in 2015. Please refer to Appendix B for further guidance on the applied methodology.

This year's report aims to enhance the four vital components of defining, tracking and reporting climate finance:

- Transparency: to adopt a standardized and publicly available financial reporting format with common definitions and methodologies to quantify climate finance. The MDBs-IDFC Common Principles methodology is publicly available.
- 2. **Comparability:** to encourage a universal methodology/approach that institutions can use to assess and compare mobilized climate finance.
- 3. **Consistency:** to promote a yearly accounting requirement for financial institutions on climate finance.
- 4. **Flexibility:** to allow for a practical, adaptable, and coordinated universal reporting system to track climate finance.

Please refer to Appendix B for further guidance on the applied methodology.

A desk-based data collection approach was carried out using a standardized template. Detailed guidelines were provided to IDFC members on the categorization of projects and use of this template. Additional data was also requested to further disaggregate mitigation measures and to capture a more detailed picture of mitigation, adaptation, and other environment finance by geography, instrument, and OECD membership. IDFC members were asked to use the definitions and eligibility criteria guidelines provided (defined in Appendices B and C), taking the MDBs IDFC Common Principles for Climate Mitigation Finance Tracking and MDB-IDFC Common Principles for Climate Change Adaptation Finance Tracking from 2015 into account.

For measuring private sector mobilization, all forms of mobilized finance, directly or indirectly, through private sector entities and/or for projects that are more than 50% owned by private sector were taken into account.

If there were any deviations from the guidelines, organizations were encouraged to note and report them. Institutions could use a "miscellaneous and other" category for projects not referenced in any of the four major categories. Finally, the numbers across figures in this report may be slightly different due to rounding errors and some small reporting errors, such as double counting, by a couple of IDFC institutions. The institutions provided their data in U.S. dollars. If required, they were asked to use the average exchange rates from local currencies to U.S. dollars from the World Bank. As stated in the Common Principles, any uncertainty is overcome by following the principle of conservativeness, where climate finance is preferred to be under-reported rather than-over reported.

Eighteen surveys were collected from IDFC members in 2017,¹ compared to twenty surveys collected in 2015 and 2016. Differences in reporting institutions, as well as reporting coverage across all green finance activities, may vary from year to year.

New elements introduced in the 2017 Green Finance Mapping Exercise

- **1. Organization-level reporting:** IDFC members have agreed to publish organization level data for the first time, rather than reporting on aggregate data for the group. These numbers have been reported in Section 3.
- 2. Capturing more granular data: An attempt has been made to gather more detailed data on investments in different renewable technologies. Respondents were asked to provide a breakdown of their renewable commitments by different technologies; onshore wind, offshore wind, solar PV power, large/small hydro, biomass, geothermal, ocean power, renewable energy plant retrofits and other technologies. All members reporting commitments to electricity generation provided the breakdown by technologies.

3. GREEN FINANCE MAPPING OUTCOMES

In 2017, IDFC members committed \$220 billion in green finance, \$196 billion of which was climate finance. This represents a \$46 billion increase in green finance over 2016. Within climate finance, green energy and mitigation of GHGs was the largest category, representing 84% of the total green finance commitments, or \$184 billion, compared to \$153 billion from 2016. Adaptation finance doubled in absolute terms from 2016 to \$10 billion, while projects with both mitigation and adaptation remained at approximately \$1.5 billion. Finance for other environmental objectives increased by \$10 billion to reach \$24 billion in 2017.

3.1 GREEN FINANCE COMMITMENTS

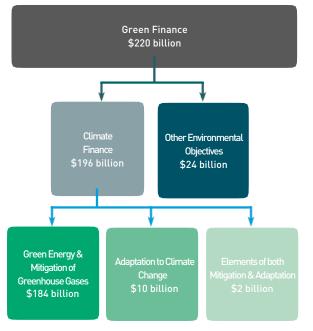
IDFC members contributed \$220 billion in green finance commitments in 2017 compared to \$173 in 2016, an increase of 27%. Total climate finance commitments stood at \$196 billion or 89% of the total green finance commitments in 2017. Within the climate finance category, the largest share went to projects focused on green energy and mitigation of GHGs with \$184 billion commitments (or 84% of total green finance), particularly in renewables-based power generation, low-carbon urban transport and agriculture, and forestry and land use.

Financing commitments for adaptation to climate change doubled in 2017 to reach \$ 10 billion. While these figures remain significantly low in comparison to mitigation and other environmental objective financing, they represent the adaptation-specific components of projects rather than the full value.

Finance for projects with elements of both mitigation and adaptation received about \$2 billion in commitments, compared to \$1 billion in 2016.

Finance for projects with other environmental objectives was small with commitments of \$24 billion. However, this represented an increase of 75% (or \$10 billion) from 2016 commitments.





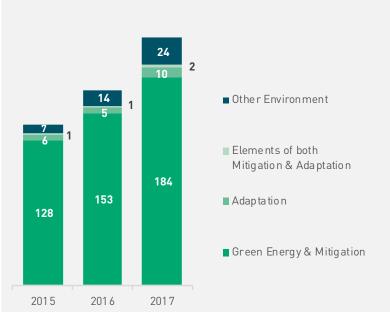


Table 1, for the first time in the Green Financing Mapping Report series, provides an institutional level breakdown of green finance. All the institutions reported commitments to mitigation projects and 10 institutions financed adaptation projects.

Only eight members, out of the 18 who reported in both 2016 and 2017, increased their green finance commitments, adding a combined \$49.5 billion.

One member almost doubled its commitments in

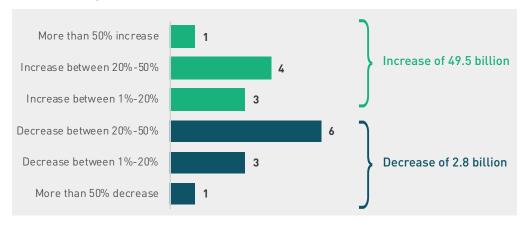
2017, while four others reported an increase between 20-50% in their green finance commitments between 2016 and 2017 (Figure 3).

However, this increase in green commitments was offset by eight members that reported a total reduction in commitments of \$2.8 billion.

Table 1 | Total Green Finance Commitments in 2017 by IDFC Members (\$, millions)

LOCATION OF IDFC MEMBER	REPORTING MEMBER INSTITUTIONS	GREEN ENERGY AND MITIGATION OF GHGs	ADAPTATION	BOTH MITIGATION AND ADAPTATION	OTHER	TOTAL GREEN COMMITMENTS
Europe	KfW	33,648	641	842	1,682	36,811
	AFD	3,159	847	596	993	5,595
	VEB	768				768
	TSKB	544			60	604
	HBOR	68	4		5	77
	BSTDB	30			11	41
Central & South	BNDES	4,258	19	75	232	4,585
America	CAF	1,787	1,647		135	3,568
	BCIE/CABEI	546	170		343	1,059
	BE	545				545
	NAFIN	514				514
	Bancoldex S.A.	14			4	18
Africa	DBSA	136	33		14	183
	CDG	2	10			12
Asia & MENA	CDB	134,064	3,175		18,076	155,315
	JICA	3,693	3,130	112	2,577	9,511
	KDB	421				421
	ICD	104				104
Total	18 reporting institutions	184,376	9,657	1,550	24,132	219,730

Figure 3 | Changes in Green Commitments of IDFC Members between 2016 and 2017 (number of members)



3.2 GREEN FINANCE COMMITMENTS FROM INSTITUTIONS BASED IN OECD AND NON-OECD COUNTRIES

The vast majority of green finance was committed to projects in the institution's home country, although this was more pronounced in non-OECD countries.

In 2017, 18 IDFC members responded to surveys, out of which 10 were non-OECD based institutions and 8 were OECD institutions. Three-fourths of the total green finance, or \$166 billion (Figure 4), was committed by institutions in non-OECD countries, a significant increase of 41% from 2016 flows of \$118 billion. Out of these total flows by non-OECD member institutions, 96%, or \$159 billion, were in the institution's home country (Figure 4).

Commitments from OECD-based institutions stood at \$54 billion in 2017, similar to 2016 levels. Out of these, \$32 billion, or 59%, were in projects in the home country of member institutions, and \$20 billion, or 37%, to projects in non-OECD countries.

Projects in non-OECD countries received a total of \$185 billion, or 85% of the total green finance, an increase of \$49 billion from 2016.

The amounts of international financing to non-OECD countries has stayed at similar levels between 2015 and 2017. Non-OECD countries received an average of \$27 billion in the same period wherein flows from OECD institutions and non-OECD institutions stood at \$20 billion and \$7 billion, respectively (Figure 5).

Figure 5 | Green Finance Commitments from OECD and Non-OECD Countries in 2015. 2016 and 2017 (\$ billion)

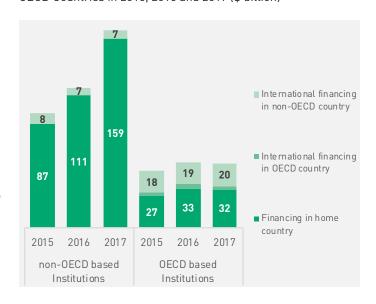


Figure 4 | Green Finance Flows from OECD and Non-OECD IDFC Members by Category in 2017 (\$ billion)

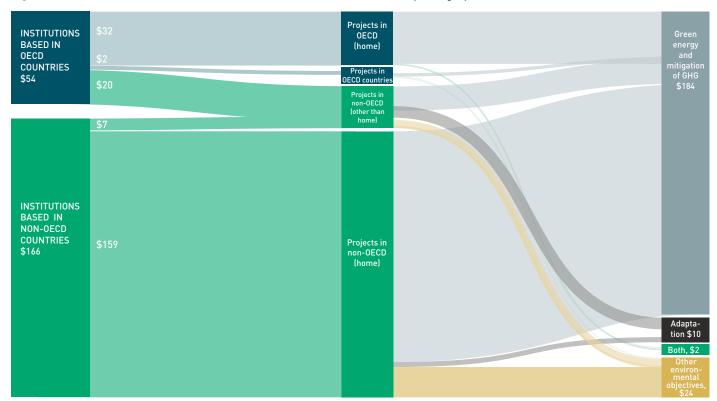


Figure 6 | Proportion of Domestic and International Green Financing Commitments by Category in 2015, 2016 and 2017

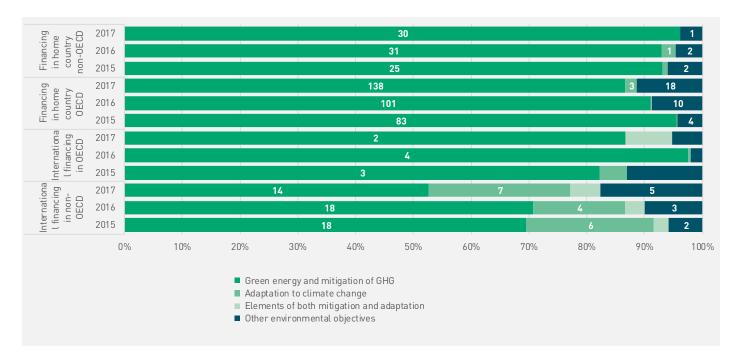


Figure 7 | Green Finance Commitments by Instrument Type in 2015, 2016 and 2017 (\$ Billions)

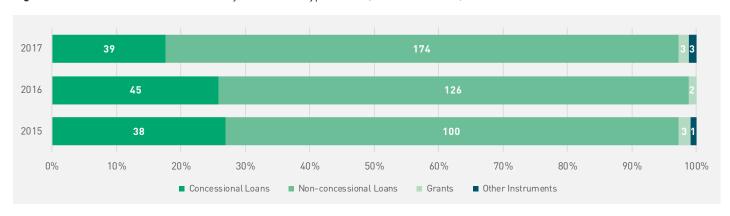


Figure 6 shows the domestic and international flows breakdown by green finance category. Mitigation accounted for 96% (\$31 billion) of the domestic financing flows into OECD countries, same as in 2016 and 87% (\$137 billion) of the domestic financing flows in non-OECD countries, up from \$101 billion. 67% (or \$7 billion) of adaptation flows in non-OECD were financed by international sources, while the remaining \$3 billion were domestic flows.

3.3 GREEN FINANCE COMMITMENTS BY INSTRUMENT TYPE

In 2017, loans accounted for \$213 billion, or 97% of green finance commitments (Figure 7), with concessional and non-concessional loans accounting for \$39 billion and \$174 billion, respectively. The amount

of non-concessional loans increased by \$48 billion, increasing its share from 73% to 79% in 2017. On the other hand, concessional loans declined by \$6 billion, decreasing its share from 26% in 2016 to 18% in 2017. The use of grants increased to \$3 billion in 2017, meaning it has been able to maintain a 2% share of green finance flows in the period between 2015 and 2017. Other instruments, such as equity and guarantees, have accounted for less than 1% of green finance flows each year.

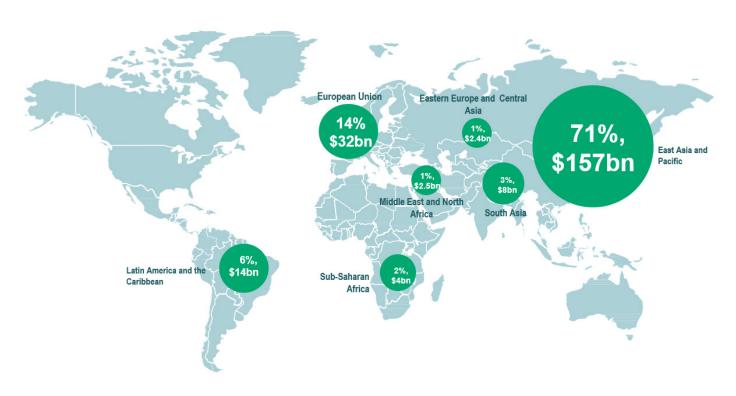
Figure 8 shows the distribution of green financing received by instrument type between 2015 and 2017.

Projects in the mitigation category saw a proportional increase in the use of non-concessional loans, accounting for 81% in 2017 from 73% in 2016. The share of grants and concessional loans received for

Figure 8 | Green Finance Commitments by Instrument and Category for 2015, 2016 and 2017 (Percent)



Figure 9 | Green Finance Commitments by Target Region in 2017 (Percent)

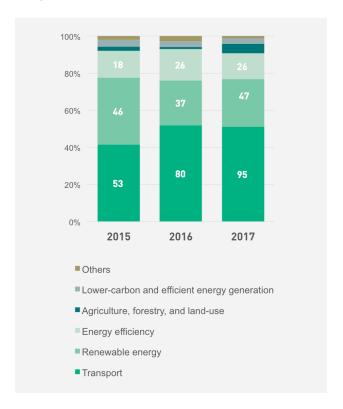


adaptation sectors have come down by 5% in 2017 to 8% and 35%, respectively, although this is largely due to the increase in the total amounts of adaptation finance reported. 10% of the adaptation finance was financed by other instruments, like equity. Further, a majority of projects with elements of both mitigation and adaption remain financed by grants (27%) and non-concessional loans (47%) in 2017, compared to 7% and 85% in 2016, respectively. Financing for the other environment objectives projects remains similar to 2016, with 83% being financed by non-concessional loans.

3.4 GREEN FINANCE COMMITMENTS BY TARGET REGION

Figure 9 depicts the distribution of green finance by region. The largest share of finance went to the East Asia and Pacific region with 72% (or \$157 billion), an increase from 65% (\$112 billion) in 2016. The second most popular destination was the European Union, receiving 14% of the total green finance, a decline of 5% compared to 2016, but remains same in absolute terms at \$32 billion. This was followed by Latin America and the Caribbean (6%) reporting a \$3 billion increase compared to 2016. Flows to South Asia (3%) and Sub-Saharan Africa (2%), the other significant destinations of financing, remained consistent in 2016 and 2017.

Figure 10 | Share of Green Finance Commitments to Green Energy and Mitigation of GHG in 2015, 2016 and 2017 (Percent and \$ billion)



Mitigation flows were mainly concentrated in the East Asia and Pacific region, receiving 73% of the total mitigation flows (\$134 billion) in 2017, compared to 66% (\$101 billion) in 2016. Unlike 2016, when the East Asia and Pacific region reported no adaption financing, it reported \$5 billion in 2017. Adaptation flows in Latin

Figure 11 | Disaggregation of the Most Significant Subcategories of Green Energy and Mitigation for 2015, 2016 and 2017 (Percent and \$ billion)

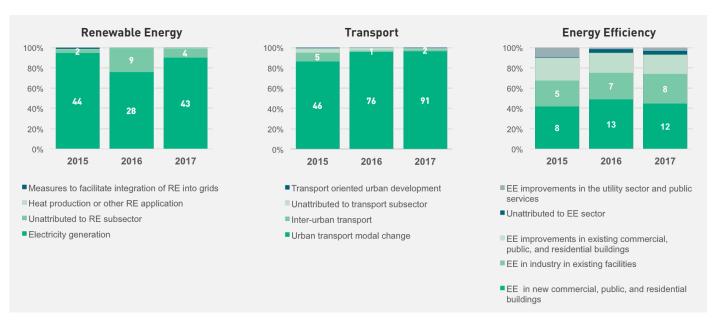
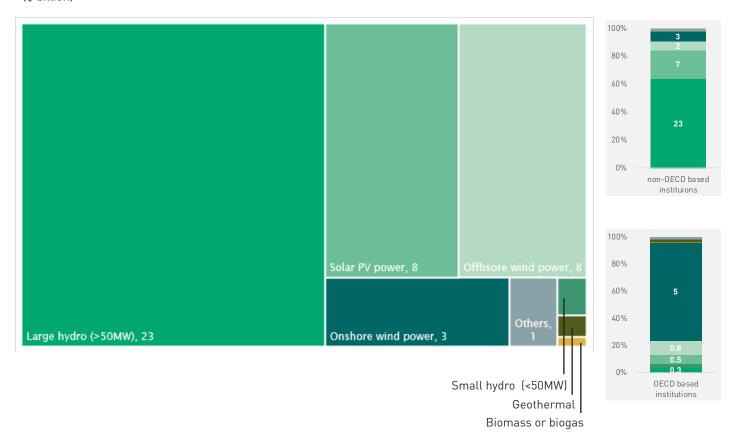


Figure 12 | Commitments to Renewable Energy Technologies by Technologies and OECD and non-OECD based Institutions for 2017 (\$ billion)



America and the Caribbean (\$2 billion), and in South Asia and Sub-Saharan Africa (\$1 billion each), were the same as in 2016. 78% of commitments to other environmental objectives were in the East Asia and Pacific region, an increase of 71% from 2016.

3.5 GREEN FINANCE COMMITMENTS TO GREEN ENERGY AND MITIGATION

Commitments to green energy and GHG mitigation in 2017 stood at \$184 billion, an increase of \$31 billion from 2016. Within mitigation, the share of transport remained the same as in 2016 at 51% of the total mitigation flows, or \$95 billion (Figure 10). The other major subcategory was renewable energy (26%) which received an additional flow of \$10 billion in 2017 to reach \$47 billion. The next largest gain was in agriculture, forestry, and land use, which increased to \$9 billion, compared to \$2 billion in 2016. Flows to energy efficiency (14%) and low-carbon and efficient energy generation (3%) stood at \$26 billion and \$5 billion, respectively.

Figure 11 depicts the further segmentation of the top three mitigation sub-categories. In transportation,

urban modal transportation accounted for 97% of the flows, or \$91 billion, an increase of \$15 billion from 2016.

Within the renewable energy category, electricity generation made up the largest portion with 90%, or \$43 billion, an increase of 76% from 2016. Within energy efficiency, the flows to various categories have remained similar to 2016 in absolute terms. New commercial, public and residential green buildings accounted for the largest share with 45% in 2016, followed by energy efficiency in existing facilities (29%), and then existing commercial, public, and residential buildings (19%).

This year IDFC members also reported the breakdown of renewable energy by different technologies. Large hydro was the largest category, accounting for 54% of total renewable energy generation financing. This was followed by off-shore wind power and solar PV, accounting for 18%, or \$8 billion each (Figure 12).

Approximately 64% of the commitments to renewable energy generation, by the institutions based out of the non-OECD countries, were in large hydro projects

(Figure 12). The second largest category for non-OECD institutions was in off-shore wind power, accounting for 20% of the commitments in renewable energy generation. This was in stark contrast with the OECD-based institutions, where 73% of the renewable energy generation commitments were in large-scale solar utility projects.

Figure 13 shows the international and domestic flows of commitments for green energy and mitigation of GHGs. IDFC members in OECD countries provided \$43 billion, or 23% of total mitigation finance, as compared to \$47 billion (31%) in 2016. Financing for mitigation from IDFC members based out of non-OECD countries stood at \$142 billion, an increase of \$36 billion compared to 2016.

OECD contributions to home countries were \$31 billion, same as in 2016. While financing to home countries by non-OECD instituions increased from \$101 billion in 2016 to \$137 billion in 2017. Commitments from OECD-based institutions and non-OECD based institutions to non-OECD countries declined by \$3 billion and \$1 billion, respectively.

3.6 GREEN FINANCE COMMITMENTS TO ADAPTATION TO CLIMATE CHANGE

Defining and identifying adaptation finance continues to pose challenges for multilateral development banks and IDFC member institutions, as it can vary by country and institution and often entails value judgement calls by those reporting. IDFC members have adopted the Common Principles for Adaptation Finance tracking defined in cooperation with MDBs, but there is still room for standardization and common understanding of adaptation-related terms and methodologies. In this context, 10 reporting banks have applied the principle of conservativeness, where climate finance is preferred to be under-reported rather than over-reported.

Finance commitments for adaptation to climate change doubled in absolute terms from 2016 to \$10

billion. Water preservation accounted for the largest share at 58% (up from 35% in 2016), an increase of \$4 billion compared to 2016 (Figure 14). This was followed by other disaster risk reduction activities, such as early-warning systems and disease monitoring, which doubled in 2017 to \$2 billion. The flows to other categories has remained broadly the same in 2017, in

Figure 13 | Commitments to Green Energy and Mitigation of GHGs from IDFC Members in 2016 (\$ Billion)

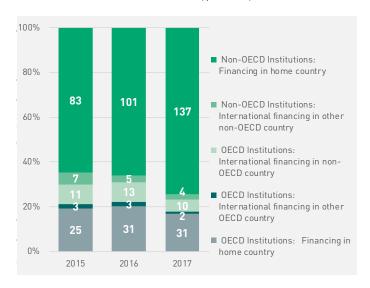


Figure 14 | Share of Green Finance Commitments to Adaptation to Climate Change in 2016 (Percent and \$ billions)

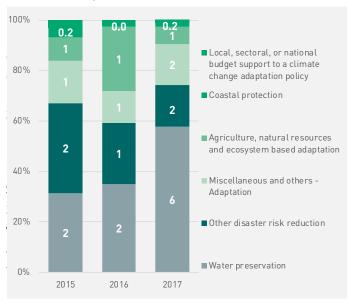
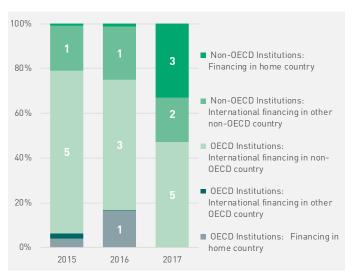


Figure 15 | Commitments to Adaptation to Climate Change from IDFC Members (\$ billion)



projects in non-OECD countries represented more than double that in 2016.

Financing to other environmental objectives from non-OECD based institutions in their home country also doubled to \$18 billion in 2017, while flows to other non-OECD countries remained at \$700 million.

3.8 MOBILIZED PRIVATE FINANCE

IDFC members have been tracking mobilized private sector finance since 2014, however, reporting from member institutions remains limited. This is primarily due to a lack of common understanding on what constitutes mobilized private finance, including differences in attribution methodologies.

In 2017, only 10 institutions reported mobilized finance, totaling \$6.2 billion in 2017, compared to \$4.5 billion in 2016, with nine-member institutions reporting. The corresponding figures for 2015 were \$5.6 billion. 91% of mobilized private investments went to green energy and mitigation as compared to 94% in 2016. Private financing for projects with both mitigation and adaptation benefits remained at \$400 million. Mobilized private finance in adaptation remains negligible at around 2% in 2017, indicating the need for greater targeting of private financing in adaptation.

Figure 16 | Share of Green Finance Commitments to Other Environmental Objectives in 2015, 2016, 2017 (Percent, \$ billion)

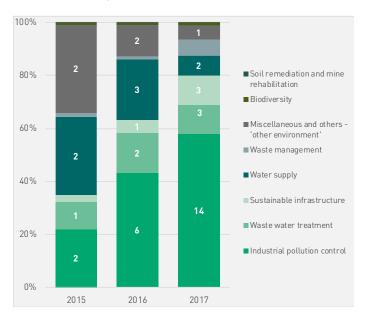


Figure 17 | International and Domestic Financing to Other Environmental Objective (\$ billion)

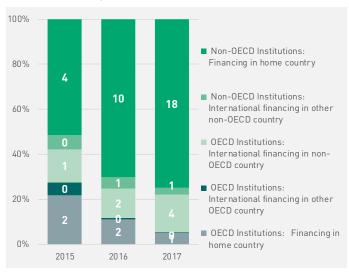
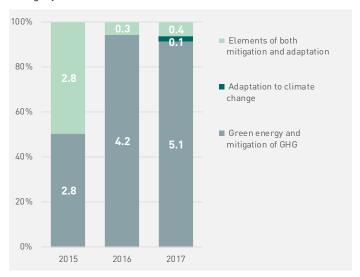


Figure 18 | Private sector financing in 2015, 2016 and 2017 by Category (\$ Billion and Percent)



4. CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

IDFC members committed \$220 billion in green finance, an increase of 27% of their total new commitments, on average, in 2017. The corresponding figure for green financing in 2016 was \$173 billion, an increase of \$46 billion. The 2017 figures are based on 18 surveys from IDFC's 23 members. The 2015 and 2016 figures are based on 20 surveys, wherein the composition of the members is different, and the degree of sector coverage varies from institution to institution.

Total climate finance commitments stood at \$196 billion, or 89% of the total green finance commitments in 2017. The largest share of climate finance was accounted by green energy and mitigation of GHGs which was \$184 billion (\$153 in 2016), advanced by domestic investments in renewables-based power generation, low-carbon urban transport and agriculture, and forestry and land use in China.

Adaptation financing to climate change commitments doubled to reach \$10 billion in 2017. However, these figures remain significantly low in comparison to other categories partly due to the lack of harmonization and common understanding of climate adaptation-related attribution methodologies. Finance for projects with elements of both mitigation and adaptation received \$2 billion in 2017. Finance for other environmental objectives was small, relative to climate finance, with commitments of only \$24 billion, a \$10 billion increase from 2016 figures.

Institutions based in non-OECD countries contributed \$166 billion, or 75% of the green finance commitments, an increase of \$48 billion. Commitments from OECD-based institutions were almost the same in 2017 as in 2016, at \$54 billion. The majority of green finance from OECD (\$32 billion) and non-OECD (\$159 billion) based institutions went to financing projects in the institutions home country. Projects in non-OECD countries received \$185 billion, or 85% of the total green finance commitments from all IDFC members, an increase of \$49 billion. Magnitude and trends in international financing in non-OECD countries has stayed similar to 2018, averaging \$27 billion, flowing mainly

from OECD-based institutions (\$20 billion).

Loans continue to provide more than 97% of green finance commitments. The share of concessional loans has declined from 26% in 2016 to 18% (or \$39 billion) in 2017, while non-concessional loans increased from 73% to 79% (\$174 billion). Grants averaged \$3 billion, or 2% of the green finance flows, in 2016 and 2017, while other instruments such as equity and guarantees stood at under 1%.

The largest share of finance went to the East Asia and Pacific region with 72%, or \$157 billion (65% in 2016), given two Asia-based institutions accounted for 67% of the total green commitments and 73% of the total financing directed at the institution's home country. Flows to the European Union (14%) remained the same in absolute terms, at \$32 billion while Latin America and the Caribbean (6%) received \$3 billion more in 2017. The share of South Asia (3%) and Sub-Saharan Africa (2%) remained same as in 2016.

Within mitigation, transport (51%), renewable energy (26%), and agriculture, forestry and land use (5%) saw the largest increases, receiving additional flows of \$15 billion, \$10 billion and, \$7 billion in 2017, respectively. Within adaptation, water preservation (58%) increased by \$4 billion, followed by a 1 billion increase in other disaster risk reduction projects (16%). For other environmental financing, industrial pollution control (43%) witnessed a \$8 billion increase in 2017.

Only 10 institutions reported mobilized private-sector finance in 2017, totaling \$6.2 billion, compared to 4.5 billion in 2016. 91%, or \$5.1 billion, of these private investments were to green energy and mitigation.

4.2 RECOMMENDATIONS

Gaps in existing reporting mechanisms should be identified to enhance transparency, consistency, and comparability of green finance commitments. There is a need for improvements in data tracking by identifying gaps in mapping exercise across reporting members. In fact, for the first time in this report series, the commitments of individual members are disclosed. However, the number of institutions responding to the survey decreased from 20 to 18 in 2017, compared to

2015 and 2016. Issues some IDFC members encounter include a lack of resources dedicated to collecting data, inadequate reporting systems, lack of common knowledge, confidentiality issues, and non-availability of data. This lack of systematic data often creates issues for comparability and prevents meaningful year on year comparisons. Several actions could help IDFC in improving their green finance mapping exercise:

- Support to non-reporting members, including ad-hoc specific advice and guidance on green definitions and interpreting internal systems. This could be accomplished by conducting regular workshops or inter-regional forums with member institutions and updating them regarding the evolving definitions and methodologies in the green finance space.
- Improved coverage on adaptation finance and resilience, and more granular data on the type of technologies under renewable energy generation, energy efficiency, and agriculture.
- Conducting different kinds of cooperation amongst the IDFC members under the Cooperation for Development (CfD), including knowledge sharing sessions, capacity building activities, and adopting regional or national best practices to different countries witnessing similar issues.

There is a need to better estimate, track, and report private finance efforts to catalyze private investments which are aligned with climate change objectives.

Estimating private finance mobilized is marred with definitional issues, including agreement on its definition, scope, and methodologies, including measuring the direct and indirect effect of these public interventions. Lack of any harmonized methodology for estimation and systematic reporting has resulted in very limited information on the private finance mobilized by IDFC members.

The MDB Taskforce on Private Investment Mobilization for tracking the private share of climate co-finance has developed a methodology for estimating and tacking private finance mobilized by individual MDBs. This has been adopted by the MDBs, which have started reporting on climate co-financing flows since 2015. To ensure greater private investments in the climate-related investments, we recommend adapting the MDB's

Private Investment Mobilization framework to improve tracking of private finance mobilization by IDFC members to better identify the volume and strategic direction of achieving scale.

This will further encourage IDFC members to diversify, innovate, and enhance their lending mechanisms to mobilize private capital for investment. For instance, assessing the role of successful green and social bonds issuances by IDFC members in supporting private finance scale-up into new green finance regions and sectors, as well as the activities supporting local commercial financing institutions in accessing the green bond market.

There needs to be more capacity to adopt and refine methodologies for adaptation and resilience finance tracking. Defining and identifying adaptation finance is particularly challenging as adaptation investment estimates often rely on expert judgement using criteria and guidelines adopted by each institution that reports on adaptation spending. Thus, there remains scope for standardization and development of common approaches, in particular in the area of adaptation and resilience. Also, capturing the mobilization of private investment in adaptation is a significant gap in understanding how such finance may be scaled up. A few proposed focus areas include:

- Pilot new methodological developments in adaption finance metrics to identify the best fit for the IDFC members. For instance, widening the scope of adaptation metrics to look at, not only inputs, but also outputs and outcomes.
- Continue to encourage and assist its members to adopt and report on the MDB-IDFC Common Principles for Climate Adaptation. This could include reporting on the total investment value of projects that have had adaptation components financed with them, to provide a perspective on financing toward climateresilient projects. This would allow greater harmonization, comparability, transparency, and robustness of climate finance accounting and metrics across institutions.

Improving knowledge-sharing, capacity building, and adoption of best practices amongst IDFC members.

As a group, IDFC offers a unique platform of varied bilateral agencies, national development banks, and regional development banks, which can be leveraged to scale-up absolute green finance commitments by all members. This provides an opportunity for these financial institutions to: learn from each other; ensure lessons-learned about good practice are disseminated; and support the development of new approaches. The existing IDFC Climate Finance Facility can be leveraged to better target the following areas:

- Mapping green finance reporting initiatives across IDFC members to better understand implementation challenges.
- Act as a platform for coordination and deliberation in seeking and assisting member institutions to adopt and integrate SDG frameworks and tracking mechanisms in their strategies, portfolios, and operating modalities.
- Strengthen knowledge sharing to identify local, national, and regional best practices for their replication in other countries.
- Facilitate access of IDFC members to international resources (GCF and others) to co-finance climate related operations. In fact, currently 10 IDFC members are accredited entities to the GCF.
- Facilitate identification, appraisal, piloting, and co-financing of innovative climate projects, models, or programs.

APPENDICES

APPENDIX A: LIST AND BRIEF DESCRIPTION OF IDFC MEMBER ORGANISATIONS

EUROPE

Agence Française de Développement (AFD), France*: A public institution and the central figure in France's development assistance system. AFD and its subsidiary PROPARCO are dedicated to private-sector finance projects and programs on five continents – with primacy given to Africa, and overseas France and 80 countries.

Black Sea Trade and Development Bank (BSTDB), Greece*: BSTDB is a financial institution established by Albania, Armenia, Azerbaijan, Bulgaria, Georgia, Greece, Moldova, Romania, Russia, Turkey, and Ukraine, to support economic development and regional cooperation.

Croatian Bank for Reconstruction and Development (HBOR), Croatia: HBOR is the development and export bank of the Republic of Croatia with the main task of promoting the development of the Croatian economy. HBOR builds bridges between entrepreneurial ideas and their accomplishment.

Industrial Development Bank of Turkey (TSKB), Turkey*: TSKB is Turkey's first privately-owned development and investment bank that supports Turkey's sustainable growth with its broad array of corporate banking, investment banking, and consultancy services.

KfW Bankengruppe, Germany*: KfW is a German government-owned development bank with KfW IPEX Bank GmbH, KfW DEG and KfW Development Bank predominantly active in the international arena.

Vnesheconombank (VEB), Russia: VEB is commonly called the Russian Development Bank. It acts on behalf of the national government to support and develop the Russian economy, as well as to manage state debts and pension funds.

Cassa depositi e prestiti (CDP), Italy: CDP a prominent Italian investment bank founded in 1850, with majority

shareholding by the Italian Ministry of Economy an Finance

CENTRAL AND SOUTH AMERICA

Bancoldex S.A., Colombia: Bancóldex is associated with Colombia's Ministry of Commerce, Industry, and Tourism, and offers products and services that address market gaps as well as the financial and nonfinancial needs of Colombian companies and citizens.

Banco Estado (BE) Chile*: State-owned BE provides wholesale and retail banking services to large and medium-sized companies and government entities, as well as individuals, small businesses, and micro-enterprises, primarily in Chile.

Banco Nacional de Desenvolvimento Econômico e Social (BNDES), Brazil: BNDES is a federal public company associated with Brazil's Ministry of Development, Industry and Foreign Trade – and one of the largest development banks in the world.

Central American Bank for Economic Integration (BCIE/CABEI), Honduras: CABEI is the largest financial institution in Central America. Founded in 1960 by Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua, its members now also include Argentina, Colombia, the Dominican Republic, Mexico, Panama, Spain and Taiwan.

Development Bank of Latin America (CAF), Venezuela: With 18 member countries from Latin America, the Caribbean, and Europe, CAF is one of the region's main sources of multilateral financing, with the mission of stimulating sustainable development and regional integration.

Nacional Financiera (NAFIN), Mexico*: NAFIN provides access to affordable financing to micro, small and medium-sized enterprises ("MSMEs") operating throughout Mexico. It is also key to promoting the Mexican government's policies for expanding economic and social development in the country with the primary objective of generating jobs and regional growth by strengthening and modernizing MSMEs, and to providing financing for infrastructure and power generation.

Corporación Financiera de Desarrollo S.A. (COFIDE), Peru: As a development bank, COFIDE participates in the sustainable and inclusive development of the country by providing financing for investments and the financial system, as well as support for entrepreneurial ventures, with creative products and services, while being socially responsible.

AFRICA

Banque Ouest Africaine de Développement (BOAD), Togo: The West African Development Bank (BOAD) is the common development finance institution of the member states of the West African Monetary Union (WAMU). It was established by an Agreement signed on 14 November 1973, and became operational in 1976. Member States include: Benin, Burkina, Côte d'Ivoire, Guinea Bissau, Mali, Niger, Senegal and Togo.

Caisse de Dépôt et de Gestion (CDG), Morocco: CDG is active in virtually all areas of Morocco's national economy and is the country's largest institutional investor in infrastructure and government treasury securities.

Development Bank of Southern Africa (DBSA), South Africa: DBSA is a development finance institution dedicated to promoting economic growth, human resource development, institutional capacity building, and development projects throughout the region of Southern Africa.

The Trade and Development Bank (TDB), Brundi: TDB is a African regional development financial institution established in 1985 whose mandate is to finance and foster trade, socioeconomic development, and regional economic integration across its member states.

ASIA AND MENA

China Development Bank (CDB), China: CDB is a financial institution in the People's Republic of China (PRC) under the direct jurisdiction of the State Council. The bank is the second largest bond issuer in China, as well as the country's largest foreign currency lender.

Japan International Cooperation Agency (JICA), Japan*: JICA is an independent agency that coordinates development assistance for the government of Japan, with a role in providing technical cooperation, capital grants and yen loans. Small Industries Development Bank of India (SIDBI), India: Small Industries Development Bank of India (SIDBI), set up on April 2, 1990 under an Act of Indian Parliament, is the Principal Financial Institution for the Promotion, Financing and Development of the Micro, Small and Medium Enterprise (MSME) sector and for Co-ordination of the functions of the institutions engaged in similar activities in India.

The Korea Development Bank (KDB), South Korea*: As government-owned bank and policy financial institution of Korea, KDB has important roles in supplying and managing major industrial capital to help develop the national economy.

INTER-REGIONAL INSTITUTIONS

International Investment Bank (IIB), Russia: IIB is a multilateral institution for development that promotes social and economic development, prosperity, and economic cooperation between its member states. Main directions for its activities are the support of the small and medium-sized businesses and participation in financing socially significant infrastructure projects.

Islamic Corporation for the Development of the Private Sector (ICD), Saudi Arabia: ICD is the private sector arm of the Islamic Development Bank with the mandate to support the development of the private sector in its member countries which are located in East Asia, Central Asia, Eastern Europe, Middle East, North Africa, Sub-Saharan Africa and South America.

Note: * The institutions marked * are based in OECD countries.

APPENDIX B: METHODOLOGY GUIDANCE

DEFINITIONS AND TERMINOLOGY

With no standardized and internationally agreed definitions for green and climate finance, this methodology provides working definitions for both the terminologies. Green finance is a broad term that can refer to financial investments flowing into sustainable development projects and initiatives, environmental products, and policies that encourage the development of a more sustainable economy. Green finance includes climate finance, but is not limited to it. It also refers to a wider range of other environmental objectives; for example, industrial pollution control, water sanitation, and biodiversity protection. Mitigation and adaptation finance is specifically related to climate change related activities. Mitigation financial flows refer to investments in projects and programs that contribute to reducing or avoiding GHG emissions, whereas adaptation financial flows refer to investments that contribute to reducing the vulnerability of goods and persons to the effects of climate change. Thus, for the purposes of the mapping exercise, green finance is split into three separate categories/ themes:

- Green energy and mitigation of GHG
- Adaptation to climate change impacts
- Other environmental objectives

To provide accurate and comparable data for this mapping exercise, a consistent categorization of mitigation and adaptation activities was agreed to by IDFC members, taking into consideration the outcomes of the MDBs-IDFC Common Principles for Climate Finance Tracking. The mapping exercise adopted a two-step approach based on

- A global definition of mitigation, adaptation and other environment projects. A list of definitions is provided in Table B2.
- A core list of project categories that were consensually accepted by all IDFC members as projects that typically con- tribute to tackling climate change. A list of project categories is provided in Appendix C.

The categories were adopted from the 2011 IDFC Green Finance Mapping methodology and updated according to the MDBs-IDFC Common Principles for Climate Finance

Tracking. As there are significant challenges to unambiguously attributing specific investments to only one of the three themes, it was decided to split each theme into separate subcategories with clear project activity examples. The category on green energy and mitigation was also disaggregated further into sub-subcategories, based on the developed MDBs-IDFC Common Principles for Climate Mitigation Finance Tracking. This approach also helps to avoid double-counting of projects. Additional details on the themes, subcategories, and sub-subcategories are provided in Appendix C. In those cases where IDFC members did not have, or refrained from providing, subcategory information, non-attributed data were provided.

In this study, given data are for financial flows committed in the year 2016 in the form of inter alia loans (concessional and non-concessional), grants, guarantees, equity, and mezzanine finance used by financial institutions to finance investments. New commitments refer to financial commitments signed or approved by the board of the reporting institution during 2015. Cross financial flows between IDFC banks are minimal in the climate financing area and hence are not accounted for in the assessment.

Table B1 | Definition of Instruments

INSTRUMENT	DEFINITION
Loans	A loan is a debt evidenced by a note that specifies, among other things, the principal amount, interest rate, and date of repayment.
of which concessional loans	Loans which are extended on terms substantially more generous than market loans. The concessionality is achieved either through interest rates below those available on the market or by longer pay back periods or a combination of these.
of which non-concessional loans	Loans with regular market conditions
Grants	Grants are transfers made in cash, goods, or services for which no repayment is required.
Other Instruments includes	
Guarantee	Formal assurance that liabilities of a debtor will be met if the debtor fails to settle the debt.
Equity	A stock or any other security representing an ownership interest.

Table B2 | Definition of Categories/Themes

OTHER ENVI	RONMENTAL OBJECTIVE	SOURCE
Definition	An activity will be classified as other environmental objective if it does not directly target climate-change mitigation or ad aptation, yet is, however, related to sustainable development with a positive impact on the environment.	IDFC Green Finance Mapping
CLIMATE-CH	ANGE MITIGATION	SOURCE
Definition	An activity will be classified as related to climate change mitigation if it promotes "efforts to reduce or limit greenhouse gas (GHG) emissions or enhance GHG sequestration". Reporting according to the Principles does not imply evidence of climate change impacts and any inclusion of climate change impacts is not a substitute for project-specific theoretical and/or quantitative evidence of GHG emission mitigation; projects seeking to demonstrate climate change impacts should do so through project-specific data	MDBs-IDFC Common Principles for Climate Mitigation Finance Tracking V2
Criteria for Eligibility	Where data is unavailable, any uncertainty is to be overcome following the principle of conservativeness where climate finance is preferred to be under-reported rather than over-reported The Principles are activity-based as they focus on the type of activity to be executed, and not on its purpose, the origin of the financial resources, or its actual results. The list of activities eligible under these principles are illustrated in Table 1 Project reporting is ex-ante project implementation at board approval or financial commitment Climate finance tracking is independent of GHG accounting reporting in the absence of a joint	MDBs-IDFC Common Principles for Climate Mitigation Finance Tracking V2
	GHG methodology. The Principles require mitigation activities to be disaggregated from non-mitigation activities as far as reasonably possible. If such disaggregation is needed and not possible using project specific data, a more qualitative/experience based assessment can be used to identify the proportion of the project that covers climate mitigation activities, consistent with the conservativeness principle. This is applicable to all categories, but of particular significance for energy efficiency projects. Mitigation activities or projects can consist of a stand-alone project, multiple stand-alone projects	
	under a larger program, a component of a stand-alone project, or a program financed through a financial intermediary. In fossil fuel combustion sectors (transport, and energy production and use), the methodology recognizes the importance of long-term structural changes, such as the energy production shift to renewable energy technologies, and the modal shift to low-carbon modes of transport. Consequently, for renewable energy and transport projects ensuring modal shift, both new and retrofit projects are included. In energy efficiency, however, the methodology acknowledges that drawing the boundary between increasing production and reducing emissions per unit of output is difficult. Consequently, greenfield energy efficiency investments are included only in few cases when they enable preventing a long-term lock-in in high carbon infrastructure, and, for the case of energy efficiency investments in existing facilities, it is required that old technologies are replaced well before the end of their lifetime, and new technologies are substantially more efficient than the replaced technologies. Alternatively, it is required that new technologies or processes are substantially more efficient than those normally used in greenfield projects. The methodology assumes that care will be taken to identify cases when projects do not mitigate emissions due to their specific circumstances.	

CLIMATE-CH	ANGE ADAPTATION	SOURCE
Definition	Adaptation finance tracking relates to tracking the finance for activities that address current and expected effects of climate change, where such effects are material for the context of those activities. Adaptation finance tracking may relate to activities consisting of stand-alone projects, multiple projects under larger programs, or project components, sub-components or elements, including those financed through financial intermediaries.	IDFC-MDBs Common principles for climate change adaptation
Criteria for Eligibility	Adaptation finance tracking process consists of the following key steps: Setting out the context of risks, vulnerabilities and impacts related to climate variability and climate change; Stating the intent to address the identified risks, vulnerabilities and impacts in project documentation;	IDFC-MDBs Common principles for climate change adaptation
	Demonstrating a direct link between the identified risks, vulnerabilities and impacts, and the financed activities. Adaptation finance tracking requires adaptation activities to be disaggregated from non-adaptation activities as far as reasonably possible. If disaggregation is not possible using project specific data, a more qualitative or experience-based assessment can be used to identify the proportion of the project that covers climate change adaptation activities. In consistence with the principle of conservativeness, climate finance is underreported rather than over-reported in this case.	

 Table B3 | Definition of Regions (Adapted from the World Bank)

EAST ASIA AND THE PACIFIC	EASTERN EUROPE AND CENTRAL ASIA	LATIN AMERICA AND THE CARIBBEAN	MIDDLE EAST AND NORTH AFRICA	SOUTH ASIA
American Samoa	Albania	Antigua and	Algeria	Afghanistan
,	, teaching	Barbuda	,g 5. 14	7.1.g.741113t411
Cambodia	Armenia	Argentina	Djibouti	Bangladesh
China	Azerbaijan	Belize	Egypt, Arab Rep.	Bhutan
Fiji	Belarus	Bolivia	Iran, Islamic Rep.	India
Indonesia	Bosnia and Herzegovina	Brazil	Iraq	Maldives
Kiribati	Georgia	Chile	Jordan	Nepal
Korea, Dem. Rep.	Kazakhstan	Colombia	Lebanon	Pakistan
Lao PDR	Kosovo	Costa Rica	Libya	Sri Lanka
Malaysia	Kyrgyz Republic	Cuba	Morocco	
Marshall Islands	Macedonia, FYR	Dominica	Syrian Arab Republic	
Micronesia, Fed. Sts	Moldova	Dominican Republic	Tunisia	
Mongolia	Montenegro	Ecuador	West Bank and Gaza	
Myanmar	Russian Federation	El Salvador	Yemen, Rep.	
Palau	Serbia	Grenada		
Papua New Guinea	Tajikistan	Guatemala		
Philippines	Turkey	Guyana		
Samoa	Turkmenistan	Haiti		
Solomon Islands	Ukraine	Honduras		
Thailand	Uzbekistan	Jamaica		
Timor-Leste		Mexico		
Tuvalu		Nicaragua		
Tonga		Panama		
Vanuatu		Paraguay		
Vietnam		Peru		
		St. Lucia		
		St. Vincent and the		
		Grenadines		
		Suriname		
		Uruguay		
		Venezuela, RB		

SUB-SAHARAN AFRICA		EU	Others
Angola	Mauritania	Austria	Trans-regional
Benin	Mauritius	Belgium	Include funds that are channelled to more than one region
Botswana	Mozambique	Bulgaria	and/or that are channelled through multilateral climate funds.
Burkina Faso	Namibia	Cyprus	
Burundi	Niger	Czech Republic	Australia
Cameroon	Nigeria	Denmark	Canada
Cape Verde	Rwanda	Estonia	Japan
Central African	São Tomé and	Finland	United States
Republic	Principe		
Chad	Senegal	France	
Comoros	Seychelles	Germany	
Congo, Dem. Rep.	Sierra Leone	Greece	
Congo, Rep	Somalia	Hungary	
Côte d'Ivoire	South Africa	Ireland	
Eritrea	South Sudan	Italy	
Ethiopia	Sudan	Latvia	
Gabon	Swaziland	Lithuania	
Gambia, The	Tanzania	Luxembourg	
Ghana	Togo	Malta	
Guinea	Uganda	Netherlands	
Guinea-	Zambia	Poland	
Bissau	Zimbabwe	Portugal	
Kenya		Romania	
Lesotho		Slovakia	
Liberia		Slovenia	
Madagascar		Spain	
Malawi		Sweden	
Mali		United Kingdom	

Table B4 | Definition of private sector co-financing

Definition	The asset financed is in private ownership (>= 50%) ("private investment") AND/OR the financial contribution comes from a private sector actor ("private capital")	DFI climate finance questionnaire
Criteria for Eligibility	Loans by private sector actors mobilised by IDFC member loans	
	Loans by private sector actors mobilised by IDFC member equity positions	
	Loans by private sector actor mobilised by IDFC member guarantees	
	Equity from private sector mobilised by IDFC member loans	
	Equity from the private sector actor mobilised by IDFC member equity positions	
	Loans by private sector actor mobilised by IDFC member grants (e.g. to cover costs of a renewable energy feed-in law or premium or CO2-certificates in the CDM)	
	Equity from private sector actor mobilised by IDFC member grants (e.g. to cover costs of a renewable energy feed-in law or premium or CO2-certificates in the CDM)	
	Loans to the private sector generated by the revolving use of credit lines or green funds (subtract original loan to avoid double counting)	
	Loans and equity mobilised from the private sector in other ways under Public-Private-Partnerships (PPP)	
Sampling vs. complete coverage	It is acceptable to derive representative mobilisation factors (e.g.1,5 for revolving credit lines to banks or 1,5 for equity in project finance) for homogenous fractions of the portfolio based on a representative subset of projects.	
Several public sector actors are involved	Allocate mobilised investment on a pro-rata basis to different public financiers independent of the specific instruments applied.	

Table B5 | Definition of climate policies

Definition	Specific climate strategy that the institution acts upon	IDFC green finance
Specifications	cifications Environment rate: rate that shows the proportion of commitments regarding environmental topics compared to total commitments	
	Climate guidelines for new projects (like ESG standards): inclusion of environmental, social & governance criteria/guidelines/policies in investment analysis and decision processes	

APPENDIX C: ELIGIBLE PROJECT CATEGORIES

Despite the efforts of MDBs and IDFC to develop Common Principles for Climate Finance Tracking, a key challenge of the mapping study is to overcome the varying definitions for green finance and to distinguish the finance flows, attributed to other environmental objectives, green energy and mitigation of GHG and adaptation categories, from each other. In order to most effectively distinguish between these categories, guidance was provided to IDFC members. Much of this guidance was determined in close coordination with representatives of IDFC.

Disaggregated data was collected as shown in Table 4 below. In addition, IDFC members were asked to further disaggregate their financial commitments to green energy and mitigation.

Table C1 | Eligible Project Categories (Based on MDBs-IDFC Common Principles 2015

Category	Sub-category	Activities
	nitigation of greenho	<u>'</u>
1. Renewable Energy	1.1 Electricity	Wind power
	Generation	Geothermal power (only if net emission reductions can be demonstrated)
		Solar power (concentrated solar power, photovoltaic power)
		Biomass or biogas power (only if net emission reductions, including carbon pool
		balance, can be demonstrated)
		Ocean power (wave, tidal, ocean currents, salt gradient, etc.)
		Hydropower plants (only if net emission reductions can be demonstrated)
		Renewable energy power plant retrofits
	1.2 Heat Production	Solar water heating and other thermal applications of solar power in all sectors
	or other renewable	Thermal applications of geothermal power in all sectors
	energy application	Wind-driven pumping systems or similar
		Thermal applications of sustainably/produced bioenergy in all sectors, incl.
		efficient, improved biomass stoves
	1.3 Measures to	New, expanded and improved transmission systems (lines, substations).
	facilitate integration	Storage systems (battery, mechanical, pumped storage)
	of renewable energy	
	into grids	New information and communication technology, smart-grid and mini-grid
2. Lower-carbon	2.1 Transmission and	Retrofit of transmission lines or substations and/or distribution systems to
and efficient energy	distribution systems	reduce energy use and/or technical losses including improving grid stability/
generation		reliability, (only if net emission reductions can be demonstrated)[1]
	2.2 Power Plants	Thermal power plant retrofit to fuel switch from a more GHG-intensive fuel to a
		different and less GHG-intensive fuel type
		Conversion of existing fossil-fuel based power plant to co-generation[2]
		technologies that generate electricity in addition to providing heating/cooling
		Waste heat recovery improvements.
		Energy-efficiency improvement in existing thermal power plant,

Category	Sub-category	Activities
3. Energy efficiency	3.1 Energy efficiency	industrial energy-efficiency improvements though the installation of more
	in industry in existing	efficient equipment, changes in processes, reduction of heat losses and/or
	facilities	increased waste heat recovery
		Installation of co/generation plants that generate electricity in addition to
		providing heating/cooling
		More efficient facility replacement of an older facility (old facility retired)
	3.2 Energy efficiency	Energy-efficiency improvement in lighting, appliances and equipment
	improvements in	Substitution of existing heating/cooling systems for buildings by co/generation
	existing commercial,	plants that generate electricity in addition to providing heating/cooling[3]
	public and residential	Retrofit of existing buildings: Architectural or building changes that enable
	buildings	reduction of energy consumption
	3.3 Energy efficiency	Energy-efficiency improvement in utilities and public services through the
	improvements in	installation of more efficient lighting or equipment
	the utility sector and	Rehabilitation of district heating and cooling systems
	public services	Utility heat loss reduction and/or increased waste heat recovery
		Improvement in utility scale energy efficiency through efficient energy use, and
		loss reduction
	3.4 Vehicle energy	Existing vehicles, rail or boat fleet retrofit or replacement (including the use of
	efficiency fleet retrofit	lower-carbon fuels, electric or hydrogen technologies, etc.)
	3.5 Energy efficiency	Use of highly efficient architectural designs, energy efficiency appliances and
	in new commercial,	equipment, and building techniques that reduce building energy consumption,
	public and residential	exceeding available standards and complying with high energy efficiency
	buildings	certification or rating schemes
	3.6 Energy audits	Energy audits to energy end-users, including industries, buildings, and transport
		systems

Category	Sub-category	Activities
4. Agriculture,	4.1 Agriculture	Reduction in energy use in traction (e.g. efficient tillage), irrigation, and other
forestry and land-use		agricultural processes
		Agricultural projects that improve existing carbon pools (, rangeland
		management, collection and use of bagasse, rice husks, or other agricultural
		waste, reduced tillage techniques that increase carbon contents of soil,
		rehabilitation of degraded lands, peatland restoration, etc.)
		Reduction of non Co2 GHG emissions from agricultural practices (eg: paddy rice
		production, reduction in fertilizer use).
	4.2 Afforestation	Afforestation (plantations) on non-forested land
	and reforestation,	Reforestation on previously forested land
	and biosphere	Sustainable forest management activities that increase carbon stocks or reduce
	conservation	the impact of forestry activities
		Biosphere conservation projects (including payments for ecosystem services)
		targeting reducing emissions from the deforestation or degradation of
		ecosystems
	4.3 Livestock	Livestock projects that reduce methane or other GHG emissions (manure
		management with biodigestors, etc.)
	4.4 Biofuels	Production of biofuels (including biodiesel and bioethanol) (only if net emission
		reductions can
		be demonstrated)
5. Non-energy GHG	5.1 Fugitive emissions	Reduction of gas flaring or methane fugitive emissions in the oil and gas
reductions		industry
		Coal mine methane capture
	5.2 Carbon capture	Projects for carbon capture and storage technology that prevent release of large
	and storage	quantities of CO2 into the atmosphere from fossil fuel use in power generation,
		and process emissions in other industries
	5.3 Air conditioning	Retrofit of existing industrial, commercial and residential infrastructure to
	and refrigeration	switch to cooling agent with lower global warming potential
	5.4 Industrial	Reduction in GHG emissions resulting from industrial process improvements
	processes	and cleaner production (e.g. cement, chemical), excluding carbon capture and
		storage
6. Waste and		Treatment of wastewater if not a compliance requirement (e.g. performance
wastewater		standard or safeguard) as part of a larger project that reduce methane
		emissions (only if net GHG emission reductions can be demonstrated)
		Waste management projects that capture or combust methane emissions
		Waste to energy projects
		Waste collection, recycling and management projects that recover or reuse
		materials and waste as inputs into new products or as a resource (only if net
		emission reductions can be demonstrated).
		materials and waste as inputs into new products or as a resource (only if net

Category	Sub-category	Activities
7. Transport	7.1 Urban transport	Urban mass transit
	modal change	Non-motorized transport (bicycles and pedestrian mobility)
	7.2 Transport oriented	Integration of transport and urban development planning (dense development,
	urban development	multiple land-use, walking communities, transit connectivity, etc.), leading to a
		reduction in the use of passenger cars
		Transport demand management measures dedicated to reduce GHG emissions
		(e.g., speed limits, high-occupancy vehicle lanes, congestion charging/road
		pricing, parking management, restriction or auctioning of license plates, car-
		free city areas, low-emission zones)
	7.3 Inter-urban	Railway transport ensuring a modal shift of freight and/or passenger transport
	transport	from road to rail (improvement of existing lines or construction of new lines)
		Waterways transport ensuring a modal shift of freight and/or passenger
		transport from road to waterways (improvement of existing infrastructure or
		construction of new infrastructure)
8. Low-carbon	8.1 Products or	Projects producing components, equipment or infrastructure dedicated for the
technologies	equipment	renewable and energy efficiency sectors
	8.2 R&D	Research and development of renewable energy or energy efficiency
		technologies
9. Cross-cutting	9.1 Support to	Mitigation national, sectorial or territorial policies/planning/action plan policy/
issues	national, regional or	planning/institutions
	local policy, through	Energy sector policies and regulations leading to climate change mitigation or
	technical assistance	mainstreaming of climate action (energy efficiency standards or certification
	or policy lending,	schemes; energy efficiency procurement schemes; renewable energy policies)
		Systems for monitoring the emissions of greenhouse gases
		Efficient pricing of fuels and electricity (subsidy rationalization, efficient end-
		user tariffs, and efficient regulations on electricity generation, transmission, or
		distribution),
		Education, training, capacity building and awareness raising on climate change
		mitigation/sustainable energy/sustainable transport; mitigation research
		Other policy and regulatory activities, including those in non-energy sectors,
		leading to climate change mitigation or mainstreaming of climate action
	9.2 Financing	Carbon Markets and finance (purchase, sale, trading, financing and other
	instruments	technical assistance). Includes all activities related to compliance-grade carbon
		assets and mechanisms, such as CDM, JI, AAUs, as well as well-established
		voluntary carbon standards like the VCS or the Gold Standard.
10. Miscellaneous	10.1 Other activities	Any other activity not included in this list for which the results of an ex-ante
	with net greenhouse	greenhouse gas accounting (undertaken according to commonly agreed
	gas reduction	methodologies) show emission reductions

^[1] In case capacity expansion only the part that is reducing existing losses is included

^[2] In all cogeneration projects it is required that energy efficiency is substantially higher than separate production.

^[3] ibid

Category	Sub-category	Activities	
Adaptation to climate change			
Water preservation	Water preservation	Improvement in catchment management planning (to adapt to a reduction in	
		river water levels due to reduced rainfall)	
		Installation of domestic rainwater harvesting equipment and storage (to adapt to	
		an increase in groundwater salinity due to sea level rise)	
		Rehabilitation of water distribution networks to improve water resource	
		management (to adapt to increased water scarcity caused by climate change)	
Agriculture, natural	Agriculture, natural	Conservation agriculture such as provision of information on crop diversification	
resources and	resources and	options (to adapt to an increased vulnerability in crop productivity)	
ecosystem based	ecosystem based	Increased production of fodder crops to supplement rangeland diet (to adapt to a	
adaptation	adaptation	loss in forage quality or quantity caused by climatic changes)	
		Adoption of sustainable fishing techniques (to adapt to the loss of fish stocks due	
		to changes in water flows or temperature)	
		Identification of protected ecosystem areas (to adapt to a loss of species caused	
		by sudden temperature changes)	
		Improved management of slopes basins (to adapt to increased soil erosion	
		caused by flooding due to excess rainfall)	
Coastal protection	Coastal protection	Building of dykes to protect infrastructure (to adapt to the loss and damage	
		caused by storms and coastal flooding, and sea level rise),	
		Mangrove planting (to build a natural barrier to adapt to increased coastal	
		erosion and to limit saltwater intrusion into soils caused by sea level rise)	
Other disaster risk	Other disaster risk	Early warning systems for extreme weather events (to adapt to an increase in	
reduction	reduction	extreme weather events by improving natural disasters management and reduce related loss and damage)	
		Improved drainage systems (to adapt to an increase in floods by draining off rainwaters)	
		Insurance against natural disasters (to adapt better to extensive loss and	
		damage caused by extreme weather events)	
		Building resilient infrastructures such as a protection system for dams (to adapt	
		to exposure and risk to extreme weather impacts, such as flooding, caused by	
		climate change)	
		Monitoring of disease outbreaks and development of a national response plan	
		(to adapt to changing patterns of diseases that are caused by changing climatic	
		conditions)	
Local, sectoral, or	Local, sectoral, or	Dedicated budget support to a national or local authorities for climate change	
national budget	national budget	adaptation policy implementation	
support to a climate	support to a climate		
change adaptation	change adaptation		
policy	policy		

Category	Sub-category	Activities	
'Other Environment'			
Water supply	Water supply	Water supply - municipal / industrial / agricultural	
Waste water treatment	Waste water treatment	Waste water treatment - municipal / industrial / agricultural	
Industrial pollution control	Industrial pollution control	Reduction of fluid and air pollutants from industry	
Soil remediation and mine rehabilitation	Soil remediation and mine rehabilitation	Clean up of hazardous waste sites	
Waste management	Waste management	Solid waste collection and treatment, recycling	
Biodiversity	Biodiversity	Forest species protection, biodiversity	
Sustainable infrastructure	Sustainable infrastructure	Improvement of general transport logistics such as reduction of empty running	

APPENDIX D: DATA TABLES

GREEN ENERGY AND MITIGATION OF GHG EMISSIONS	\$ BILLIONS IN 2015	\$ BILLIONS IN 2016	\$ BILLIONS IN 2017
Transport	53.4	79.6	94.6
Renewable energy	46.3	37.1	47.2
Energy efficiency	18.5	25.8	25.8
Lower-carbon and efficient energy generation	4.5	4.7	5.3
Unattributed	0.3	2.0	-
Agriculture, forestry, and land-use	3.1	1.8	9.3
Cross-cutting issues	1.3	1.0	1.2
Miscellaneous and others—green energy and mitigation	0.5	0.9	0.7
Waste and wastewater	0.4	0.4	0.3
TOTAL	128.5	153.3	184.5

ADAPTATION TO CLIMATE CHANGE	\$ BILLIONS IN 2015	\$ BILLIONS IN 2016	\$ BILLIONS IN 2017
Water preservation	1.9	1.7	5.6
Agriculture, natural resources and ecosystem based adaptation	0.6	1.2	0.7
Other disaster risk reduction	2.1	1.2	1.6
Miscellaneous and others - Adaptation	1.0	0.6	1.6
Local, sectoral, or national budget support to a climate change adaptation policy	0.2	0.1	0.1
Coastal protection	0.2	0.03	0.2
TOTAL	5.9	4.8	9.7

PROJECTS WITH ELEMENTS OF BOTH MITIGATION AND ADAPTATION	\$ BILLIONS IN	\$ BILLIONS IN	\$ BILLIONS IN
	2015	2016	2017
TOTAL	1.3	1.4	1.6

OTHER ENVIRONMENTAL OBJECTIVES	\$ BILLIONS IN 2015	\$ BILLIONS IN 2016	\$ BILLIONS IN 2017
Industrial pollution control	1.6	5.97	14.0
Water supply	2.2	3.18	1.8
Waste water treatment	0.8	2.10	2.7
Miscellaneous and others - 'other environment'	2.4	1.65	1.3
Sustainable infrastructure	0.2	0.66	2.6
Waste management	0.1	0.15	1.5
Biodiversity	0.05	0.13	0.3
Soil remediation and mine rehabilitation	0.013	0.001	0.001
TOTAL	7.3	13.83	24.2

APPENDIX E: INDEX OF ACRONYMS

ADB	Asian Development Bank
AFD	Agence Française de Développement
AfDB	African Development Bank
Bancoldex	Banco de Comercio Exterior de Colombia
BE	Banco de Estado
BNDES	Brazilian Development Bank
BOAD	Banque Ouest Africain de Développement
BSTDB	Black Sea Trade and Development Bank
CABEI	Central American Bank for Economic Integration
CAF	Development Bank of Latin America
CDB	China Development Bank
CDG	Caisse de Dépôt et de Gestion
CO ₂	Carbon dioxide
COFIDE	Corporación Financiera de Desarrollo S.A.
MDB-IDFC Common	Common Principles for Climate Mitigation as well Climate Change Adaptation Finance Tracking, jointly
Principles	developed by MDBs and IDFC
COP	Conference of Parties
CPI	Climate Policy Initiative
DBSA	Development Bank of Southern Africa
HBOR	Croatian Bank for Reconstruction and Development
ICD	Islamic Corporation for the Development of the Private Sector
IEB	Indonesia Exim Bank
IDFC	International Development Finance Club
IFC	International Finance Corporation
JICA	Japan International Cooperation Agency
KFW	Kreditanstalt für Wiederaufbau
KDB	Korean Development Bank
MDB	Multilateral Development Bank
NAFIN	Nacional Financiera S.N.C
OECD	Organisation for Economic Cooperation and Development
OECD-DAC	Organisation for Economic Cooperation and Development Assistance Committee
PV	Photovoltaic
SEI	Stockholm Environment Institute
SIDBI	Small Industries Development Bank of India
TDB	Trade and Development Bank
TSKB	Industrial Development Bank of Turkey
UNEP	United Nations Environmental Program
UNEP BFI	United Nations Environmental Program Bilateral Finance Institutions
UNFCCC	United Nations Framework Convention on Climate Change
VEB	Vnesheconombank
.20	THE STREET

ENDNOTES

The value of the largest category is assumed to be more accurate than the sum of the subcategories. For example, IDFC members' reported totals for green finance commitments is taken to be more accurate than the sum of finance commitments for green energy and mitigation, adaptation to climate change, projects with both elements of mitigation and adaptation, and other environmental objectives. If the former is larger than the latter, this negative fraction is not shown on the graph. If the former is larger than the latter, the difference is unattributed and is shown on the graphs when it exceeds 1 percent of the total for green finance. This same methodology applies to all finer categories.
http://www.eib.org/attachments/documents/mdb_idfc_mitigation_common_principles_en.pdf