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**STRATEGIC COUNTRY CLUSTER EVALUATION:  
SAHEL AND SUDAN-GUINEA SAVANNA BIOMES**

**VOLUME I – MAIN REPORT**

(Prepared by the Independent Evaluation Office of the GEF)

## VOLUME I: MAIN REPORT

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## **ABBREVIATIONS**

AfDB	African Development Bank
ALS	Alternative Livelihood System
APR	Annual Performance Report
CEO	Chief Executive Officer
FAO	Food and Agriculture Organization
GEF	Global Environment Facility
IEO	Independent Evaluation Office
IFAD	International Fund for Agricultural Development
LDCF	Least Developed Countries Fund
NDVI	Normalized Difference Vegetation Index
OPS6	Sixth Comprehensive Evaluation of the GEF
PMIS	Project Management Information System
POP	persistent organic pollutant
SCCE	Strategic Country Cluster Evaluation
SCCF	Special Climate Change Fund
SIDS	small island developing states
STAR	System for Transparent Allocation of Resources
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme

**Note:** All dollar amounts are U.S. dollars unless otherwise indicated. The GEF replenishment periods are as follows:

Pilot phase: 1991–94

GEF-1: 1995–98

GEF-2: 1999–2002

GEF-3: 2003–06

GEF-4: 2006–10

GEF-5: 2010–14

GEF-6: 2014–18

GEF-7: 2018–22

## EXECUTIVE SUMMARY

### Background, Purpose, Objectives, Scope, and Methods

1. The Sahel and Sudan-Guinea savanna biomes in Sub-Saharan Africa experience severe environmental challenges, driven largely by climate change. Common challenges in the area are deforestation, land degradation, and desertification; biodiversity loss; water quality/quantity threats and threats to inland as well as coastal marine water resources; mining; and natural disasters. The pressing socioeconomic needs of a rapidly growing population compound the challenges at hand. Degradation of agricultural lands coupled with the high variability of rainfall poses obstacles to the food security and poverty reduction efforts in the region. While these concerns also apply to Sub-Saharan Africa overall, they are particularly important in the Sahel and Sudan-Guinea savanna biomes, where livelihoods are under pressure from environmental challenges, and socioeconomic needs often take priority over environmental considerations in government development agendas. Differences do exist between countries in terms of their reliance on natural resources, susceptibility to natural disasters, population's dependence on the environment, and government socioeconomic development and other priorities.
2. Over the last two and a half decades, the Global Environment Facility (GEF) has provided support to address Sub-Saharan Africa's main environmental challenges through national and regional programs and projects focusing on land, water, forests, energy, and biodiversity. To date, GEF investments in Sub-Saharan Africa amount to \$4.78 billion for national, regional and global interventions. Since its pilot phase, the GEF has invested \$2.48 billion in grants, accompanied by \$16.37 billion in cofinancing through 794 national and regional projects in the countries in the two biomes.
3. In light of the many common environmental and economic challenges shared by the countries in the two biomes, this evaluation was conducted as a country cluster evaluation. It had the following strategic objectives: (1) to provide a deeper understanding of the determinants of the sustainability of outcomes of GEF support in the two biomes, and (2) to assess the relevance and performance of the GEF with regard to the their main environmental challenges from the countries' perspective. The evaluation examined the relevance, performance, and sustainability of GEF interventions based on a desk review of the GEF project portfolio in the 23 biome countries from GEF-4 to GEF-6, and on five in-depth country case studies selected based on the aggregate and geospatial analyses of the portfolio under review. A specific focus of this evaluation was on the determinants of sustainability; this entailed in-depth assessment of a cohort of projects completed between 2007 and 2014, which allowed for sufficient time after completion to begin to evaluate the sustainability of GEF outcomes. A mixed-methods approach was followed, and systematic triangulation of the evidence collected was applied to evaluate performance and sustainability and capture lessons.

## Main Findings and Conclusions

4. **GEF support addresses the main environmental challenges faced by countries in the two biomes, with no major gaps of coverage.** Most of the GEF support to these countries has focused on climate change, an important underlying cause of most environmental challenges in the biomes. Seventy-eight percent of the climate change focal area support in the two biomes is invested in support to adaptation. Land degradation began to be addressed in GEF-4 through focal area–specific support and continued afterwards mainly through multifocal area interventions.
5. **The relevance of GEF support to country needs has not been affected by the GEF’s move toward integrated programming, including through multifocal projects and programmatic approaches.** Investment in programs initially increased in GEF-4 and substantially decreased in GEF-5 and GEF-6. Programs and their respective child projects are becoming larger in size, and a move from projects addressing a single focal area toward multifocal interventions is observed in the two biomes. The increase in size of child projects is viewed favorably by country stakeholders, who tend to view projects in terms of the direct benefits they generate within the national boundaries.
6. **The expansion of GEF Agencies has been a positive development in the biome countries in terms of offering them more choice, more diversity of expertise, and better focal area coverage.** Most Agencies active in the Sahel and Sudan-Guinea savanna biomes have a rather diversified portfolio that covers all GEF focal areas. Importantly, countries select GEF Agencies based on a larger set of comparative advantages than just their technical area of specialization, including, among other factors, the history of engagement between the Agency and the country in which the project is to be implemented.
7. **In general, fewer projects in the two biomes—and in Africa as a whole—receive satisfactory ratings in terms of outcomes and their likely sustainability than the overall GEF portfolio, confirming findings from previous analyses.** Whereas projects in Africa tend to have lower ratings, more recent terminal evaluations of GEF-4 to GEF-6 projects in the biomes rated higher than terminal evaluations of earlier projects completed between 2007 and 2014, which is promising.
8. **While a larger percentage multifocal projects than those with a single focus undertaken in the biomes were rated as having satisfactory outcomes (85 percent compared to an average of 68 percent of single focal area projects), only 38 percent were rated as having outcomes that were likely to be sustained.** Clearly, there is room for improvement on how to foster broader adoption and likelihood of sustainability of project outcomes through consideration of sustainability measures at project design, especially in multifocal interventions. This is particularly important given the GEF’s move toward integrated programming and multifocal support.
9. **Demonstrating sustainability takes time.** Projects tend to show higher observed sustainability of outcomes at postcompletion than at the terminal evaluation stage. While it is

plausible that, as time goes by, context-related factors increasingly come into play as compared to project-related ones, field observations in this evaluation underscored the importance of designing projects with due consideration to measures that increase the likely sustainability of outcomes.

10. **Financial sustainability is an issue in Sub-Saharan Africa overall, and is particularly challenging in the biomes.** These findings reiterate the importance of planning at the design stage in order to set up viable financial mechanisms and measures that can continue to deliver benefits after project completion.

11. **Context-sensitive, technologically appropriate project design positively affects the sustainability of outcomes in the biomes.** Design that promotes sustainability takes into due consideration a country's socioeconomic and political context as well as local conditions and knowledge, and includes measures and activities designed to support—from both financial and institutional standpoints—the continuation of outcomes postcompletion.

12. **Designing profitable beneficiary-relevant alternative livelihood activities and working with existing institutions to include environmental considerations in local development plans emerged as important project-related sustainability factors in the biomes.** This evaluation confirmed the importance of designing profitable alternative livelihood activities that correspond as much as possible to real needs in the everyday lives of beneficiaries. Continued operation and maintenance of small-scale infrastructure depends on the costs being within the financial reach of households. Local authorities in Guinea, Guinea-Bissau, and Mali have included environmental conservation activities in their commune and/or municipality sustainable development plans and budgets.

13. **Not much consideration is given at project design to the influence of synergies and trade-offs between socioeconomic and environmental objectives on the prospects for sustainability in the biomes.** This underscores the importance of nexus thinking between environmental and socioeconomic objectives and between short-term and long-term planning in enhancing sustainability. This evaluation found several examples demonstrating that when alternate livelihood systems with a clear, positive environmental-socioeconomic nexus were in place, the chances of the environmental benefits generated by GEF interventions being sustained was greater.

14. **Gender considerations are increasingly incorporated in GEF interventions in the two biomes.** In-line with similar findings of previous analyses by the GEF's Independent Evaluation Office, gender is considered during implementation even if not addressed at the design stage in projects developed by the biome countries.

15. **Resilience to climate risks is addressed in climate change adaptation projects mostly in the form of risk management and as a cobenefit.** Newer GEF projects, whether funded through the main GEF Trust Fund, the Least Developed Countries Fund, or the Special Climate Change Fund, integrated resilience within the respective project's multiple benefits framework.



16. **Fragility has affected the timely delivery of GEF support, but the outcomes and sustainability of GEF support in the two biomes has been largely unaffected.** This evaluation found several examples in which the negative effects of newly emerged fragile situations have tended to be felt less in rural areas; or in relation to activities with a clear and tangible financial viability, and a high correspondence with beneficiary needs.

## **Lessons**

17. This evaluation's findings and conclusions can be used to inform future GEF programming in the Sahel and Sudan-Guinea savanna biome countries. General examples include the following, most of which have wider applicability in all of the world regions in which the GEF intervenes:

- Consider sustainability factors in project design and track them during implementation
- In particular take financial sustainability into account during design and implementation
- Foster synergies and mitigate trade-offs between the environment and development

An important lesson is that the GEF should pay attention to the nature and degree of multidimensionality it incorporates in the design of its multifocal interventions, especially as it goes toward integrated programming to scale up and address the main drivers of environmental degradation. The full range of lessons generated by this evaluation will feed into the seventh comprehensive evaluation of the GEF.

## **RECOMMENDATIONS**

18. **Project and program design in the biomes must include a discussion on how sustainability, including financial sustainability, is going to be addressed and managed.** A well-designed intervention should include measures and activities that will support the continued delivery of outcomes beyond the life of the project. Sustainability factors identified at the design stage should be tracked by GEF Agencies during implementation and terminal evaluations should report on these. Financial sustainability must be given priority in the design and implementation of GEF support in the biomes and in Africa overall. The GEF Secretariat and GEF Agencies should elaborate financial arrangements at the project-design stage, that can continue after project completion to deliver benefits over time. Support to institutions should be designed considering measures to enable those institutions to operate postcompletion on a sufficient and stable financial foot.

19. **A clear discussion on how to foster synergies between environment and development must be included in design and managed through implementation.** When designing and appraising proposals in the two biomes attention should be paid to the influence synergies between socioeconomic and environmental objectives have on the prospects for sustainability. Not much consideration has been given at project design stage to the influence that synergies between socioeconomic and environmental objectives have on the prospects for sustainability in the biomes. Several examples observed in the five countries visited provided compelling evidence

indicating that when these considerations have been taken into account in design and implementation the prospects for sustainability postcompletion greatly improved. Fostering synergies between the environmental and development objectives should be more systematically pursued as the GEF already increasingly considers socioeconomic cobenefits in its recent portfolio.

## 1. INTRODUCTION

### 1.1 Evaluation Background, Purpose, Objectives, Scope, and Methods

20. Since its inception, the Global Environment Facility (GEF) has invested heavily in Africa—and especially in Sub-Saharan Africa, providing almost 30 percent of its total funding to this area struggling to meet the dual challenges of climate change and extreme poverty. GEF grants totaling \$4.78 billion, complemented by cofinancing of \$16.37 billion,<sup>1</sup> have been allocated to Sub-Saharan Africa since 1992 in an effort to support a set of countries in which socioeconomic needs are frequently prioritized over environmental considerations in government development agendas. Although differences exist among the Sub-Saharan countries in terms of their reliance on natural resources, their susceptibility to natural disasters, the dependence of their poor on the environment for subsistence, and their socioeconomic development priorities, they all face challenges of environmental resource loss and competition as they strive to improve their people's standard of living. The GEF has thus provided support to help the region meet its main environmental challenges through national and regional programs and projects focused largely on land, water, forests, energy, and biodiversity.

21. Despite the GEF's long and intensive engagement in the region, evaluations conducted by the GEF's Independent Evaluation Office (IEO) have revealed pervasive and long-standing weaknesses. Notably, the Sixth Comprehensive Evaluation of the GEF (OPS6) found that fewer GEF-funded projects in Sub-Saharan Africa were rated as having satisfactory level of outcomes achievement or as having outcomes that were likely to be sustained than in other world regions (GEF IEO 2017). One shortcoming that may be related to these lower ratings is limited institutional capacity, which has been identified as an important issue to be addressed. Also, mechanisms for projects' future financial sustainability—through the market, government budgets, or both—are lacking. Establishing such mechanisms is a key condition for transformational change to occur in Sub-Saharan Africa.

22. To explore the factors enabling or hindering the achievement of results and the sustainability of the effects from GEF-funded interventions in Sub-Saharan Africa—and at the request of the GEF-7 Replenishment Group—the GEF IEO undertook a biome-based evaluation of regional support.<sup>2</sup> Specifically, the IEO structured a strategic country cluster evaluation (SCCE) focusing on two ecologically homogeneous zones of the Sub-Saharan Africa region: the Sahel and the Sudan-Guinea savanna biomes. These two biomes include 23 countries particularly and similarly confronted by land-based environmental issues such as deforestation and land degradation, biodiversity loss, and desertification; as well as challenges related to governance,

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<sup>1</sup> Funding figures are as of December 30, 2019, and exclude unallocated parent program financing, funding for dropped and canceled projects, and Agency fees. They do include project preparation grants.

<sup>2</sup> A biome is an ecological zone sharing similar habitats or vegetation types. Its uniformity is defined by the type of plant life in relation to temperature and rainfall patterns. Each biome consists of several terrestrial ecoregions (a smaller class). An ecoregion covers a realm of land/water having geographically distinctive communities, sharing the same environmental conditions and ecological dynamics (Data Basin 2010).

demographics, migration, and conflict and fragility. It should be noted that 13 of these 23 countries are considered fragile. These latter challenges serve to drive the environmental issues the countries face. Since GEF-4, the GEF has invested a total of \$1.737 billion through 511 interventions; this evaluation focuses on 453 of those, accounting for \$1.63 billion in GEF funding. The majority of this funding was provided from the GEF Trust Fund, with the Least Developed Countries Fund (LDCF) accounting for almost a third of total GEF funding; the Special Climate Change Fund (SCCF) accounts for a negligible percentage of funding to the two biomes.

23. The African Biomes SCCE looked at the relevance of GEF interventions to national priorities and took a “deep dive” into the sustainability of outcomes in the biomes. It looked at the 453 interventions comprising the GEF-4 to GEF-6 cohort to assess the relevance of GEF support to the respective national environmental and sustainable development priorities of the countries. It also assessed their environmental outcomes and the sustainability of those outcomes. Specifically, the evaluation included an in-depth analysis of the project- and context-related factors contributing to and/or hindering outcome sustainability. A focus of the evaluation was on the nexus (whether explicitly recognized or not) between national environment and socioeconomic development priorities as determinants of the observed sustainability in the countries five years after completion. The African Biomes SCCE also looked at gender, resilience, and fragility as cross-cutting issues affecting the GEF interventions.

24. As described in the evaluation approach paper contained in volume 2 of this report ([GEF IEO 2018g](#)), the overarching objectives of the evaluation were to (1) provide a deeper understanding of the determinants of GEF-funded outcome sustainability in the two biomes and (2) assess the relevance and performance of the GEF toward the two biomes’ main environmental challenges from the countries’ perspective. These objectives were translated into five key evaluation questions, two of which address the cross-cutting issues of gender, resilience, and fragility:

- (a) What are the key factors influencing sustainability of outcomes in the two biomes?
- (b) In what way, if any, does the environment and socioeconomic development/livelihoods nexus in terms of promotion of synergies and mitigation of tradeoffs help explain the sustainability of outcomes in the two biomes?
- (c) To what extent has GEF support been relevant to the main environmental challenges countries face in the two biomes, and are there any gaps?
- (d) To what extent have gender and resilience been taken into consideration in GEF programming in the two biomes?
- (e) To what extent has GEF support performed in the 13 fragile countries in the two biomes, and how have the results obtained from completed GEF programs and projects been affected in those situations that have become fragile?

25. The evaluation was conducted through a mixed-methods approach encompassing both quantitative and qualitative sources of data, information, and analytical tools. The analysis involved an extensive desk study of project and program documents using a project review template (included in volume 2 of this report) and an aggregate portfolio review. The complete list of projects reviewed is provided in annex 1. Both components aimed to identify trends as well as cases of positive and absent or negative change.

26. In addition, the evaluation conducted five country case studies in Guinea, Mali, Mauritania, Nigeria, and Uganda. These countries were purposively selected based on the results of the aggregate desk study and portfolio trend analyses, following a rigorously structured selection process ([GEF IEO 2018h](#)) and a standardized country study approach ([GEF IEO 2019b](#)). Both the selection process and the country study approach are described in volume 2. Five to 10 projects per country were reviewed in the country case studies for a total of 31 projects, 16 of which were field verified. Annex 2 lists the projects visited in the five case study countries. A geospatial analysis was conducted prior to the case study missions. Targeted field verifications were conducted in specific project sites selected based on the findings of the geospatial and aggregate portfolio analyses. The purpose of the field verifications was to identify and understand the determinants of the observed change, or lack thereof. Detailed country case study reports are included in volume 2.

27. For most evaluation components, the African Biomes SCCE covered the period from GEF-4 (starting in 2006) to GEF-6. This relevance cohort comprises 453 national and regional interventions. The sustainability analysis focused on national and regional interventions completed between 2007 and 2014, which ensured sufficient time after completion to observe the sustainability of project outcomes over the long term. This ‘sustainability cohort’ is composed of 88 interventions, 67 of which were analyzed using a detailed project review template. Triangulation of the qualitative as well as quantitative data and information collected was conducted at completion of the data gathering and analysis phase to determine trends and identify the main findings, conclusions, and lessons.

28. The Sahel and Sudan-Guinea savanna biomes delineated the geographic scope of the evaluation. The African Biomes SCCE portfolio included enabling activities, full- and medium-size projects, as well as programs in the 23 countries that are part of the two biomes. Global initiatives and those regional interventions established as umbrella arrangements for administrative convenience, such as the GEF Biosafety Program (GEF ID 3654), were excluded from the evaluation’s scope.<sup>3</sup>

29. The analysis focused on the biodiversity and climate change (both adaptation and mitigation) focal areas, the latter specifically focusing on carbon sequestration from forestry and other land management practices. Land degradation; international waters; chemicals and waste (particularly initiatives involving chemical stockpiles and the elimination of pesticides); and

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<sup>3</sup> Exclusions account for 18.6 percent of the total grants in the biomes between GEF-4 and GEF-6.

multifocal interventions composed of biodiversity, climate change adaptation, and land degradation were also part of the scope.

30. In line with IEO practice, stakeholder engagement and quality assurance measures were established for the evaluation. A reference group, consisting of representatives from the GEF Secretariat, the GEF Agencies, and the GEF Scientific and Technical Advisory Panel provided feedback and comments on the approach paper ([GEF IEO 2018f](#)), the preliminary findings, and the draft evaluation report. The Director of the Evaluation Office of the United Nations Environment Programme (UNEP) served as an external peer reviewer.

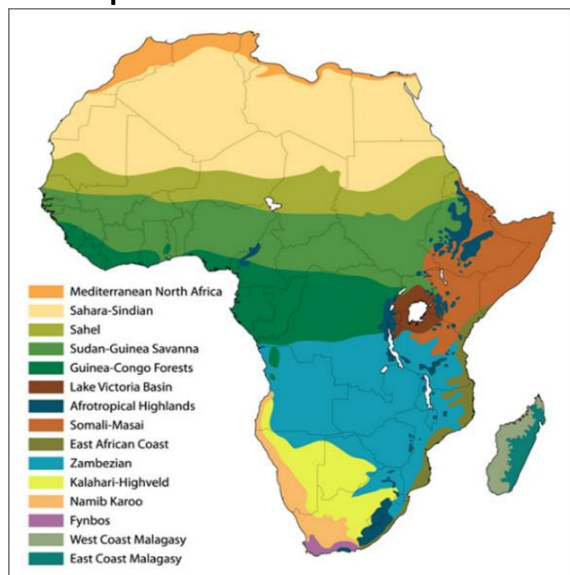
31. Two limitations were encountered in the course of this evaluation: (1) the limited reliability of the GEF Project Management Information System (PMIS) data on programs and projects, especially on implementation status; and (2) the limited number of field visits able to be conducted. The first limitation, noted in many GEF IEO evaluations, was addressed by cross-checking the PMIS data and information with data from the management information systems of GEF Agencies before undertaking any analysis. The PMIS data were additionally cross-referenced and updated with the newly created GEF portal data management system to ensure that the most recent project information and financing were captured. The second limitation was addressed by conducting field missions to countries jointly with those in parallel SCCEs as well as other evaluations conducted by the IEO, to increase field coverage. The Guinea-Bissau country case study conducted as part of the small island developing states (SIDS) SCCE is an example of such increased coverage.

## 1.2 The Sahel and Sudan-Guinea Savanna Biomes

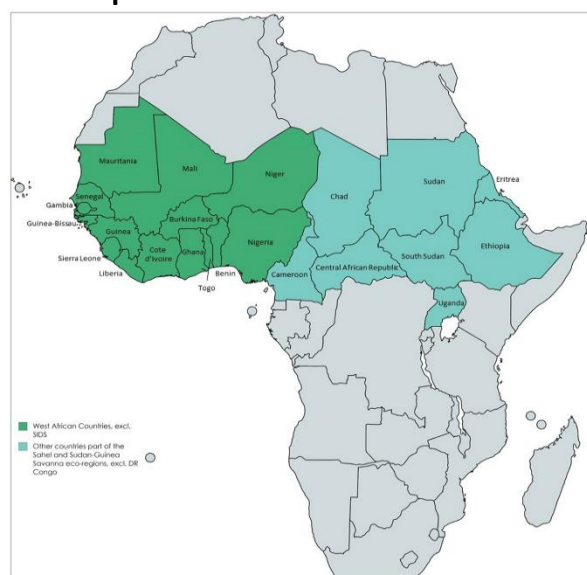
32. The Sahel and Sudan-Guinea savanna biomes face severe environmental challenges, driven largely by climate change. Their most significant challenges are deforestation and land degradation, biodiversity loss, and desertification. Additionally, their inland and coastal marine water resources are threatened by issues of water quality and quantity. Mining and an accelerating pace of natural disasters in the context of climate change also threaten the biomes' natural resources. Exacerbating these issues are the pressing socioeconomic needs of a rapidly growing population. Notably, degradation of agricultural lands, coupled with highly variable rainfall, jeopardizes food security and poverty reduction efforts in the region ([UN 2013](#)).

33. The Sahel and Sudan-Guinea Savanna biomes cover 12.2 million square kilometers, stretching from African East to West Coast. The Sahel includes parts of 10 countries. The Sudan-Guinea Savanna covers large parts of 16 countries. Eight countries are part of both biomes (maps 1 and 2).

**Map 1: Sub-Saharan Africa biomes**



**Map 2: Countries in the two biomes**



Source: [Riley 2012](#).

34. Despite experiencing strong economic growth in recent years, most countries in the Sahel and the Sudan-Guinea savanna remain low-income countries, with an average gross domestic product per capita of \$1,396.<sup>4</sup> The United Nations projects that population growth in these areas—a combined 604 million as of 2014 will be in line with those of least developed countries worldwide—namely, a doubling of population between 2010 and 2050. Over 60 percent of the biomes' population lives in rural areas; overall population density in the two biomes is relatively low at 49 people per square kilometer ([UN DESA 2014](#)). At the same time, the average urban growth rate is close to 4 percent per year. Many governments in the biomes, as in similar areas, struggle to provide basic social services, especially access to water and sanitation ([UN DESA 2014](#)). Other challenges relate to achieving food and energy security and managing environmental risks.

35. A large portion of the two biomes is characterized by arid and semiarid climates with strong climatic variation and irregular rainfall. Forty-one percent of the land area is dedicated to agriculture, of which approximately 12 percent is designated arable land. Approximately 12 percent is classified as forest area, and approximately 13 percent is designated terrestrial protected area. Rain-fed subsistence agriculture is the main source of household livelihoods in many parts of the African drylands, especially the Sahel ([Kumssa and Jones 2010](#)). The drylands, grasslands, and savannas in the two biomes experience high spatial and temporal variability in rainfall, resulting in dramatic differences in plant growth, habitats, and human livelihoods ([UNEP 2007](#)). Balancing needs between the environment and development is central to sustainability, sustainable development, and livelihoods ([Biggs et al. 2015](#)). The main environmental challenges

<sup>4</sup> 2014–16 average at constant 2010 dollars.

faced by countries in the two biomes face severe environmental challenges are categorized in Figure 1. Climate change is a major driver for most of these challenges.










36. **Deforestation, land degradation, and desertification.** A significant part of the Sahel is classified as desert, while the remainder is highly vulnerable to desertification. This vulnerability is prone to increase with prolonged droughts and increasing human pressure on water and land resources. Biomass burning, a common practice throughout all African savannas, is among the contributing factors. Controlled fires are used in the two biomes to manage grasslands and savannas for livestock production and wildlife, control pests, clear dying vegetation, and convert wild lands to croplands ([Trollope and Trollope 2004](#)). Poor agricultural practices are the primary human cause for desertification in the two biomes because of their role in deforestation, soil erosion, and pollution.

37. **Threats to biodiversity.** The Sahel and Sudan-Guinea savanna face critical threats to biodiversity loss. Hosting two of Africa's eight biodiversity hotspots—the Guinean Forests of West Africa and the "W" biosphere reserve—these areas act as a buffer against advancing desertification. Human-induced activity such as agricultural expansion, uncontrolled fires, and poaching pose a threat to the biodiversity and wildlife in these hotspots. Species are also threatened by logging, mining, and hunting. Growing household demand for fuelwood and charcoal puts further pressure on forest resources, threatening biodiversity. Marine and coastal biodiversity is under stress because of overharvesting and unsustainable fishing in the coastal areas of West Africa ([USAID 2013](#)). Balancing needs between the environment and development is central to sustainability, sustainable development, and livelihoods ([Biggs et al. 2015](#)).

38. **Water-related environmental challenges.** The two biomes face pressure with regard to water availability, accessibility, and demand. In these predominantly arid and semiarid lands, water consumption for agriculture highly exploits both surface and groundwater resources. Combined with climate variability and drought, this puts further pressure on the already limited water resources available to the two biomes. Because of decreased rainfall and increased water usage, the extent of Lake Chad decreased by 95 percent over approximately 35 years ([UNEP 2008](#)). Lake Chad and the Nile River basin provide most of the available freshwater from transboundary watercourses. Groundwater in West Africa is difficult to access, accounting it thereby for only about 1 percent of the water used in the biomes.



**Figure 1: Main environmental challenges for the 23 countries covered**

Environmental challenge	Exclusively or predominantly Sahel biome countries	Exclusively or predominantly Guinea-Savannah biome countries
Deforestation and land degradation 	Eritrea, Mauritania, Chad, Mali, Niger, Sudan, Burkina Faso, Senegal	Benin, Cameroon, Central African Republic, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Nigeria, Sierra Leone, South Sudan, Togo, Uganda
Threats to biodiversity 	Eritrea, Mali, Niger, Sudan	Benin, Cameroon, Central African Republic, Ethiopia, Ivory Coast, Liberia, Nigeria, South Sudan, Togo, Uganda
Desertification 	Mauritania, Chad, Mali, Niger, Burkina Faso	Benin, Nigeria
Water quality and quantity 	Chad, Eritrea, Mali, Burkina Faso	Ethiopia, Liberia, Uganda
Coastal and coral reef degradation 	Mauritania, Senegal	Cameroon, Gambia, Guinea, Guinea-Bissau, Ivory Coast
Threats to marine resources 	Mauritania, Senegal	Gambia, Guinea, Guinea-Bissau, Sierra Leone
Threats to in-land water resources 	Sudan	Ghana, Guinea, South Sudan
Mining 	Mauritania, Niger	Central African Republic, Nigeria
Natural disasters 	Chad, Mali	Gambia

Source: Adapted from [UNEP 2008](#).

### 1.3 International Environmental Conventions

39. Faced with several environmental challenges as delineated above, most countries in the two biomes have become signatories to the main international and regional environmental conventions (Table 1). By complying with convention obligations, these countries can access and benefit from financial support from the GEF. The United Nations Convention to Combat Desertification and the Convention for Biological Diversity have been ratified by all 23 countries in the biomes. And all these countries except South Sudan have ratified the United Nations Framework Convention on Climate Change and the Stockholm Convention on Persistent Organic Pollutants (POPs). Most countries are also party to the more recent Minamata Convention on Mercury. Additionally, some countries have joined other biome- or ecoregion-specific

environmental agreements, such as the Permanent Inter-State Committee for Drought Control in the Sahel and the Abidjan Convention for the Cooperation in the Protection, Management and Development of the Marine and Coastal Environment of the Atlantic Coast of the West, Central and Southern Africa Region.

**Table 1:** Countries' Ratification of International Environmental Agreements

<b>Country</b>	<b>UNFCCC</b>	<b>UNCCD</b>	<b>CBD</b>	<b>Stockholm</b>	<b>Rotterdam</b>	<b>Basel</b>	<b>Minamata</b>
Benin	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Burkina Faso	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cameroon	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Central African Republic	Yes	Yes	Yes	Yes	No	Yes	Yes
Chad	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eritrea	Yes	Yes	Yes	Yes	Yes	Yes	No
Ethiopia	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gambia	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ghana	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Guinea	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Guinea-Bissau	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ivory Coast	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Liberia	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mali	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mauritania	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Niger	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nigeria	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Senegal	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sierra Leone	Yes	Yes	Yes	Yes	Yes	Yes	Yes
South Sudan	No	Yes	Yes	No	No	No	No
Sudan	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Togo	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Uganda	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Source: International environmental convention websites.

Note: CBD=Convention on Biological Diversity. UNCCD=United Nations Convention to Combat Desertification. UNFCCC=United Nations Framework Convention on Climate Change.

40. To comply with convention obligations, several countries in the two biomes have developed sound national environmental policy and legal frameworks. Unfortunately, these frameworks are often not enforced because of a lack of funding, limited technical capacity, or political will in terms of different government priorities. According to the United Nations Environment Programme (UNEP), “Although some [African] countries have incorporated the Multilateral Environmental Agreements into national policies and framework laws, few have succeeded in achieving the enforcement of policies and laws” ([UNEP 2006, p. 501](#)).<sup>5</sup> On the positive side, Africa has a more advanced framework for environmental laws and constitutional rights than any other region, because of its long history of abuse by extraction industries. African countries are more likely to have transparency laws, such as requiring all or some contracts related to oil, gas, or mining to be made public.

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<sup>5</sup> African countries are not the only ones with weak enforcement. A recent UN report finds that while most countries in the world have environmental regulations, very few actually abide by them ([UNEP 2019](#)).

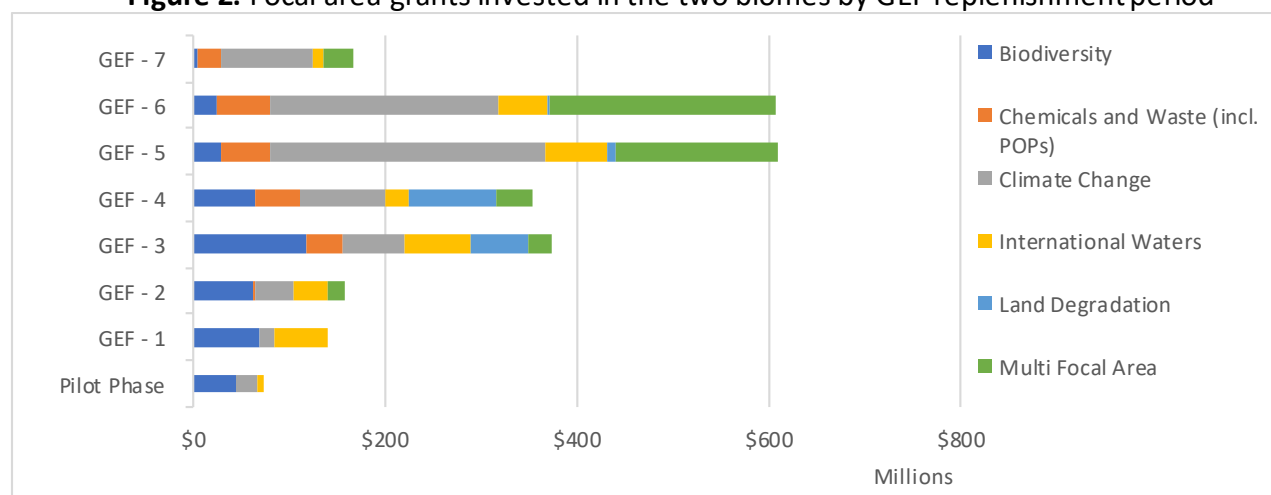
## 2. GEF'S ENGAGEMENT IN THE TWO BIOMES

### 2.1 Portfolio

#### *Funding*

41. **GEF support to the Sahel and Sudan-Guinea savanna biomes increased substantially since the pilot phase, reaching over \$600 million in both GEF-5 and GEF-6.** Approximately one-third of this amount came from allocations programmed under the System for Transparent Allocation of Resources (STAR). Support provided in the GEF-7 replenishment cycle to date continues to be strong, with maximum programming funds of \$220 million from STAR allocations, to which additional non-STAR resources, including set-aside incentives for participating in integrated programs, can be accessed. Since its pilot phase, the GEF has invested a total of \$2.48 billion in grants, with an accompanying \$16.37 billion in cofinancing, through 794 national and regional projects in the countries in the two biomes (Figure 2). The 23 countries also participate in 80 global projects and 14 global programs totaling \$1.04 billion. One of these global programs is the Small Grants Programme, for which a total of \$209 million in funding has been provided in each replenishment period from GEF-4 to GEF-6.

**Figure 2: Focal area grants invested in the two biomes by GEF replenishment period**



Note: Excludes funding for global interventions and unallocated parent program financing.

42. **Most of the GEF support to the two biomes has focused on climate change.** Climate change interventions accounted for the largest share of the GEF portfolio in the two biomes in GEF-5, followed by multifocal area projects. Just over two-thirds of these climate change interventions were for adaptation, which accounted for 23 percent of total project financing across all focal areas in the two biomes.

43. **Land degradation started to be addressed in GEF-4 through focal area-specific support and continued afterwards mainly through multifocal area interventions.** The OPS6 reports that while GEF focal area objectives are in most cases strongly aligned with country priorities, there are some exceptions. Previous evaluations identified a disconnect between GEF support and

countries' demands for land degradation support (GEF IEO 2009a). The Fifth Overall Performance Study of the GEF concluded that support for land degradation was available through the focal area allocation and was later partially fulfilled through multifocal support. A similar evolution is observed in the two biomes, where land degradation projects began in GEF-3 with the establishment of the land degradation focal area. These projects increased from 16 percent in GEF-3 to 22 percent of the total in GEF-4 and decreased in GEF-5. As is the case for the GEF overall, multifocal area projects in this portfolio began to increase during GEF-4, a trend that continues to date. The most common focal area combination of multifocal interventions in the two biomes is land degradation, biodiversity, and climate change adaptation; this combination accounts for 36 percent of the total multifocal area support provided from GEF-4 to GEF-6.

44. Excluding global interventions, which are outside the scope of this evaluation, between GEF-4 and GEF-6, the GEF invested \$1.63 billion in grants, accompanied by \$14.68 billion in cofinancing, through 453 national and regional interventions—including enabling activities and medium- and full-size projects. Thirty percent of these interventions are part of 11 programmatic approaches (Table 2).

**Table 2: GEF support by geographic scope and support modality**

Intervention scope	Enabling activity		Medium-size project		Full-size project		Total*	
	Million \$	No.	Million \$	No.	Million \$	No.	Million \$	No.
Country	21.4	80	82.9	74	1,093.3	225	1,197.5	379
Regional	9.3	7	24.4	21	401.1	46	434.8	74
Global	30.8	9	21.7	15	313.2	21	365.7	45
<b>Total</b>	<b>61.5</b>	<b>96</b>	<b>129.0</b>	<b>110</b>	<b>1,807.5</b>	<b>292</b>	<b>1,998.0</b>	<b>498</b>

\*These totals include \$147.27 million of unallocated financing remaining in parent programs.

### *Modality*

45. **GEF support for countries in the biomes was delivered predominantly through full-size projects, either as stand-alone initiatives or as part of a program.**<sup>6</sup> Full-size projects have been by far the most used support modality in the 23 countries over the last three GEF replenishment periods. Child projects under programmatic approaches account for 33 percent of GEF financing in the biomes (Table 3). Most child projects are full-size interventions, further bolstering the large number of full-size projects in the area.

<sup>6</sup> A program is a coherent set of interventions designed to attain specific global, regional, country, or sector objectives, consisting of a variable number of child projects.

**Table 3:** GEF interventions by support modality

Modality	Number of projects	GEF funding (\$)
Parent program	11	60,707,930*
Child projects	135	476,912,027
Enabling activities	67	30,385,577
Full-size projects	183	983,363,679
Medium-size projects	68	80,920,026
<b>Total</b>	<b>453**</b>	<b>1,632,289,240</b>

\*Total unallocated financing.

\*\*Excludes the 11 parent programs.

46. **Investment in programs increased in GEF-4, but decreased in GEF-5 and GEF-6.** The programmatic approach modality was formally introduced in 2008 during GEF-4. At that time, programs constituted approximately 65 percent of total programming in the two biomes. Funding for programs decreased substantially afterwards, accounting for less than a quarter of funding in both GEF-5 and GEF-6. The shift away from programmatic approaches in the biomes observed between GEF-4 and GEF-6 occurred while the GEF moved toward integrated programming (Table 4). Completed programmatic interventions include TerrAfrica, a large World Bank–implemented program focusing on sustainable land management with a GEF grant of more than \$150 million and over \$1 billion in cofinancing. During its 10-year life span, TerrAfrica supported the implementation of two major investment programs: the 2008 Strategic Investment Program, which mobilized over \$1 billion to address land degradation in Africa through 36 programs and projects; and the 2011 Great Green Wall Initiative, a \$1.1 billion program that promoted sustainable land use practices in 12 countries to build the resilience of ecosystems and livelihoods.

**Table 4:** Programmatic and nonprogrammatic support by GEF replenishment period

Replenishment period	Programmatic support			Nonprogrammatic support		Total	
	Number of programs	Number of child projects	Million \$	Number of stand-alone projects	Million \$	Number of projects	Million \$*
GEF-4	5	76	233.74	49	124.89	125	358.63
GEF-5	4	40	142.70	144	482.21	184	624.91
GEF-6	2	19	161.18	125	487.57	144	648.75
<b>Total</b>	<b>11</b>	<b>135</b>	<b>537.62</b>	<b>318</b>	<b>1,094.67</b>	<b>453</b>	<b>1,632.29</b>

\*Including unallocated parent program financing.

47. **Programs and their respective child projects are becoming larger, and a move from a single focal area toward multifocal interventions is occurring.** These trends signal an important change in the way GEF programs are designed and implemented in the region. Child project size went from an average of \$3.0 million in GEF-4 to \$6.3 million in GEF-6. The introduction in GEF-6 of the Integrated Approach Pilots, in which several countries in the two biomes participate, contributed to this development. The STAR allocation committed by countries for participating in

the Integrated Approach Pilots is matched with a one-to-one dollar incentive from focal area set-aside funding.

48. **Country stakeholders tend to view projects in terms of the direct benefits they generate within the national boundaries.** Less attention is paid to the shared knowledge that could be derived from their affiliation with a larger program that operates in multiple countries. This is consistent with the findings of the recent programmatic approaches evaluation (GEF IEO 2018b). National project managers and implementers consulted through dyadic interviews in Ghana and Malawi did not see any difference between stand-alone and child projects. The Uganda case study revealed that the preferred GEF support modality was national, multifocal full-size projects. Interviewees explained that national projects are tailored to national needs and are managed in-country. They further maintain that the scale of investment for full-size projects has the potential for long-term impact: hence, the larger a project is, the better. Multifocal projects are seen as addressing the multidimensional nature and interconnectedness of environmental challenges through application of a multisectoral approach.

49. GEF interventions in the two biomes take time to be implemented. This is not surprising, considering the often-challenging conditions in which GEF support is delivered in these countries. Thirty-four percent of GEF support in the two biomes includes projects under implementation. The majority of these are projects approved in GEF-4 and GEF-5. Most of the projects completed in the last three replenishment periods were begun in GEF-4, while most GEF-6 interventions have yet to start implementation (Table 5).

**Table 5: Project status by GEF phase**

Status	GEF-4		GEF-5		GEF-6		Total	
	Million \$	No.	Million \$	No.	Million \$	No.	Million \$*	No.
Pending approval	0	0	0.22	1	147.24	25	147.46	26
PIF/PPG approval or clearance	0	0	0	0	2.40	2	2.40	2
Council approved	0.43	1	12.75	14	88.98	18	102.17	33
CEO approved/endorsed	3.50	1	86.16	12	219.37	53	309.03	66
Under implementation	135.64	42	476.93	128	148.55	46	761.13	216
Completed/closed	215.36	81	34.02	29	0	0	249.39	110
<b>Total</b>	<b>354.94</b>	<b>125</b>	<b>610.09</b>	<b>184</b>	<b>606.55</b>	<b>144</b>	<b>1,571.58</b>	<b>453</b>

Note: CEO=Chief Executive Officer. PIF=project identification form. PPG=project preparation grant.

\*Excluding unallocated parent program financing.

### *Agencies*

50. **The number of GEF Agencies providing support to the biomes increased from GEF-4 onwards.** OPS6 notes that the expansion of the GEF partnership to 18 Agencies has increased GEF relevance in countries through greater choice and focal area coverage. This finding also applies to the countries in the two biomes under consideration here. The United Nations Development Programme (UNDP), UNEP, and the World Bank—the three original GEF Agencies active since the

pilot phase—have the largest share of GEF grants in the 23 countries, implementing 75 percent of projects by number and 77 percent of GEF funding (Table 6).

**Table 6:** Share of GEF projects and grant amount by GEF Agency

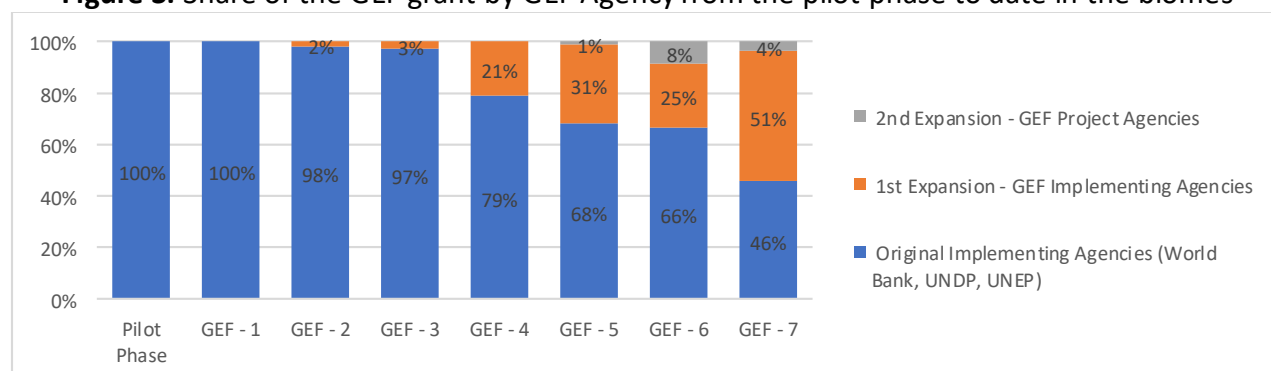
Agency	GEF-4		GEF-5		GEF-6		Total	
	Million \$	No.	Million \$	No.	Million \$	No.	Million \$	No.
AfDB	4.50	1	96.15	17	69.68	12	170.33	30
BOAD	0	0	0	0	18.90	2	18.90	2
CI	0	0	0.96	1	14.11	4	15.07	5
FAO	29.45	7	42.55	11	40.96	7	112.96	25
GEF Secretariat*	0	0	0.30	20	0	0	0.30	20
IFAD	27.28	7	28.69	5	22.27	3	78.24	15
IUCN	0	0	6.59	1	17.98	5	24.56	6
UNDP	106.91	44	215.60	56	230.20	55	552.71	155
UNEP	53.07	26	68.40	30	86.09	32	207.56	88
UNIDO	13.86	11	19.56	26	20.02	15	53.44	52
World Bank	119.86	29	131.29	17	86.35	9	337.50	55
<b>Total</b>	<b>354.94</b>	<b>125</b>	<b>610.09</b>	<b>184</b>	<b>606.55</b>	<b>144</b>	<b>1,571.58</b>	<b>453</b>

Note: AfDB= African Development Bank. BOAD=West African Development Bank. CI=Conservation International. FAO=Food and Agriculture Organization of the United Nations. IUCN=International Union for Conservation of Nature. UNIDO=United Nations Industrial Development Organization.

\*The GEF Secretariat directly implemented the National Portfolio Formulation Exercises conducted in GEF-5.

51. The relative share of funding in the biomes for these three original Agencies diminished as newer Agencies joined the partnership from GEF-4 onwards, beginning with the first expansion of 7 additional Agencies and continuing with the second expansion of 10 in GEF-6. This trend, shown in Figure 3, holds true for the GEF portfolio worldwide. Although GEF-7 is not yet fully programmed, further diversification of the GEF Agencies is observed. For the first time in GEF history, the combined portfolio funding share for the three original GEF Agencies in the area is under 50 percent in GEF-7 to date. This finding is partly explained by a more specific and diversified demand for technical services by recipient countries, as well as by the GEF's strategic move from single focal area support toward multisectoral integrated programming through large impact programs.

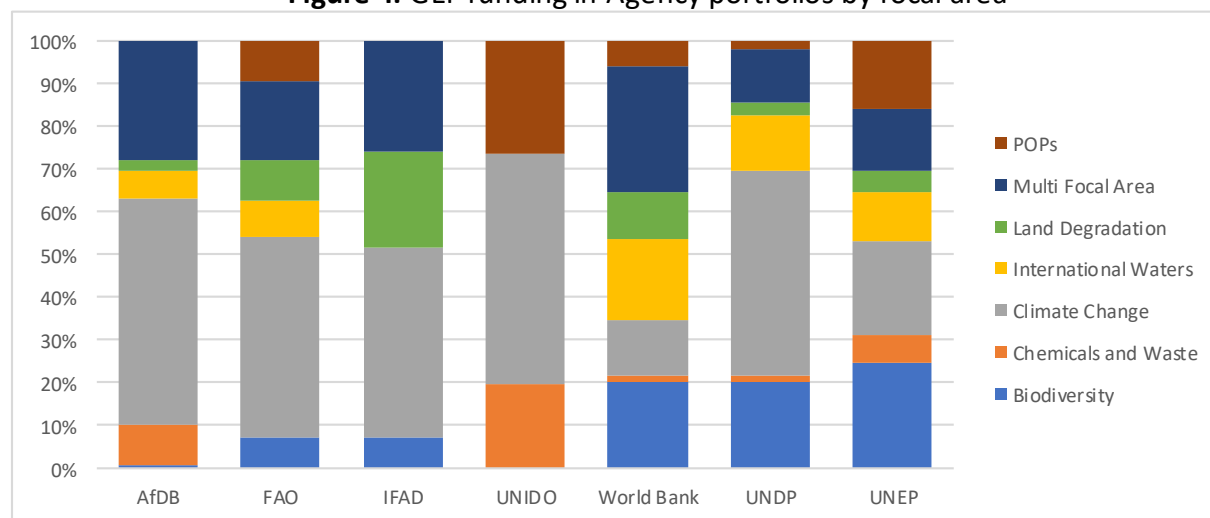
**Figure 3:** Share of the GEF grant by GEF Agency from the pilot phase to date in the biomes





52. **GEF Agencies in the region are diversified across focal areas.** Most GEF Agencies active in the Sahel and the Sudan-Guinea savanna have a rather diversified portfolio in terms of focal area composition, albeit with a large share of climate change projects implemented by each Agency. Very few GEF Agencies tend to focus on their areas of specialization in providing services to the countries in the two biomes. One Agency that does have a rather specialized portfolio is the United Nations Industrial Development Organization, which implements almost equal shares of projects addressing climate change and chemicals and waste/POPs, and is the only Agency active in the biomes that does not implement any multifocal interventions (Figure 4).

**Figure 4: GEF funding in Agency portfolios by focal area**



Note: The West African Development Bank, the International Union for Conservation of Nature, and the Conservation International are omitted because of the low number of projects.

53. **Countries select GEF Agencies based on a larger set of comparative advantages than just technical area of specialization.** From a detailed review of project documents, it clearly emerged that the comparative advantage of a GEF Agency includes (1) the history of its engagement with the country in which the project is implemented; (2) its ability to bring in technical expertise, provide policy support, and strengthen national capacity; and (3) its thematic knowledge and familiarity with a given subject area through experience with similar projects implemented in the same country or region.

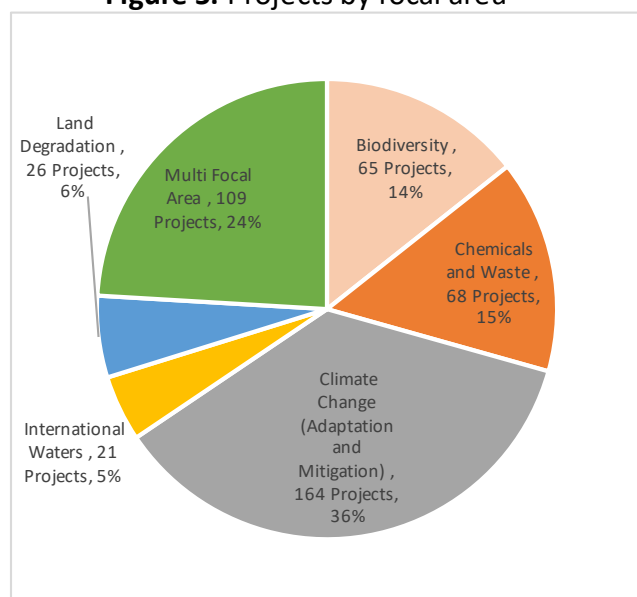
54. Interviews with national stakeholders conducted during country case studies confirmed the above finding. Government officials in Guinea indicated that the expansion of GEF Agencies has increased the relevance of GEF support to Guinea's national environmental priorities and enabled the country to work with a range of partners based on their comparative and competitive advantage. For example, Guinea opted to work with the Food and Agriculture Organization of the United Nations on a project related to land management around forest areas—a technical domain in which the Agency has much to offer in terms of both expertise and regional experience. Similarly, based on its familiarity with the subject matter, the International Union for Conservation of Nature was asked to accompany a group representing four neighboring

countries—Guinea, Sierra Leone, Liberia, and Côte d’Ivoire—on a regional project to fight against wildlife crime. This project was initially sponsored by the African Development Bank. Once the International Union for Conservation of Nature officially became an accredited GEF Agency, it was asked by the participating countries to take the lead implementing role. This change was made in agreement with the African Development Bank.

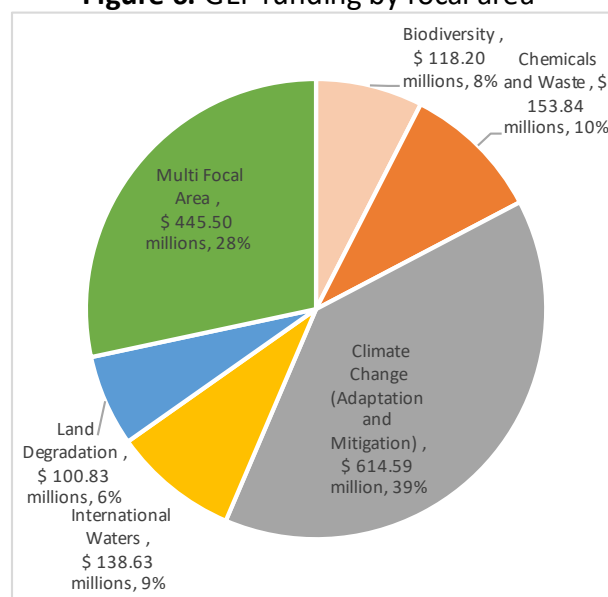
### *Focal Areas*

55. **Seventy-eight percent of climate change focal area funding for the two biomes is invested in support to adaptation.** The remaining 22 percent is dedicated to mitigation. Climate change and multifocal support accounted for most of the portfolio in the GEF-4 to GEF-6 period in terms of both number of projects and funding (Figure 5 and Figure 6). Funding for climate change adaptation comes exclusively from the LDCF and the SCCF, while most of the funding for mitigation interventions originates from the GEF Trust Fund.

**Figure 5: Projects by focal area**

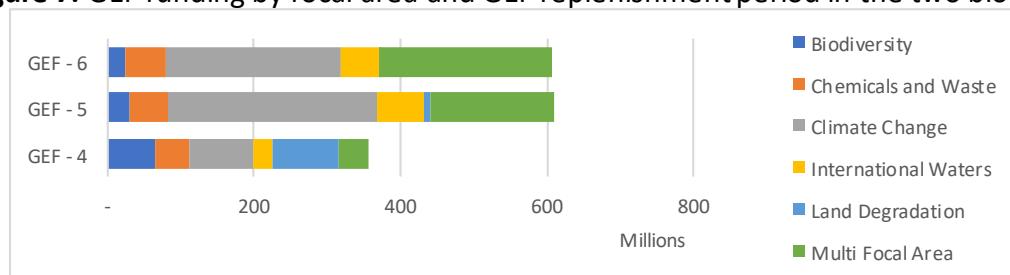


**Figure 6: GEF funding by focal area**



56. **In line with the GEF’s move toward integrated programming, the share of multifocal projects in the two biomes is increasing.** A substantial increase is also observed for the climate change focal area. Investment in biodiversity has decreased over time (Figure 7).

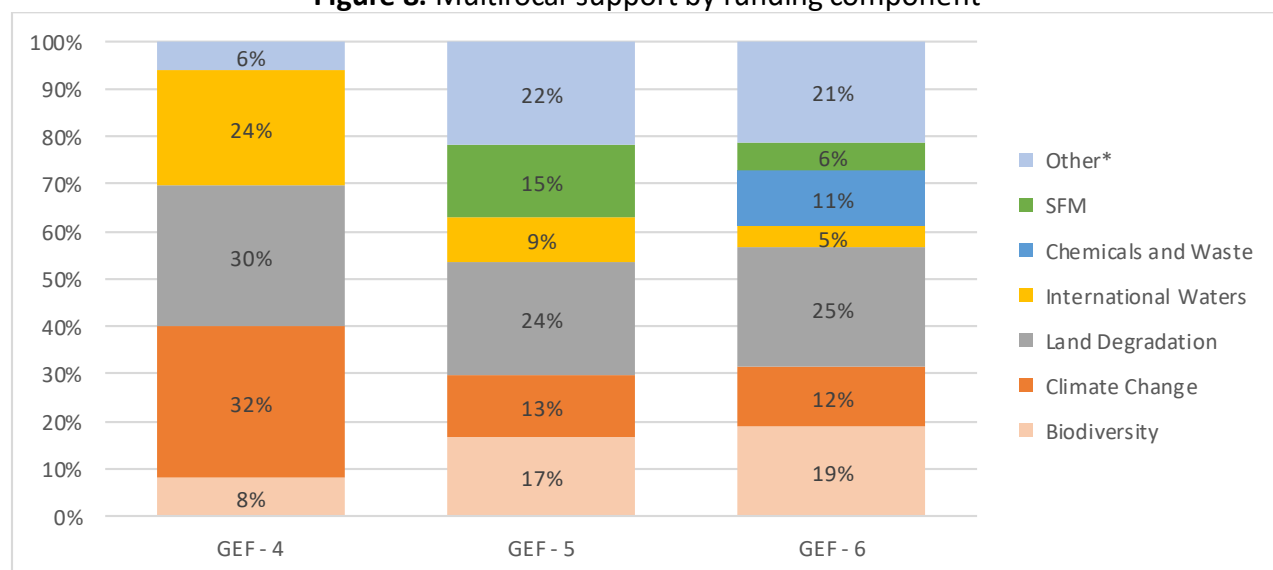
**Figure 7: GEF funding by focal area and GEF replenishment period in the two biomes**



57. Despite the increase in the number of multifocal area projects with land degradation components in the overall GEF portfolio (GEF IEO 2018e), the share of land degradation financing in those projects ranged between 16 and 19 percent during the GEF-4 to GEF-6 period, peaking in GEF-5. However, the share for land degradation in multifocal funding in the biomes was much higher, ranging from 24 to 30 percent, with its peak in GEF-4. This large relative share indicates the importance of funding for land degradation in the region.

58. In both GEF-5 and GEF-6, more than 20 percent of the funding for multifocal interventions in the biomes originated from sources other than single focal area allocations. Sources include funding for Integrated Approach Pilots, the LDCF, the SCCF, and funding for multifocal projects not specifically earmarked to any GEF focal area (Figure 8).

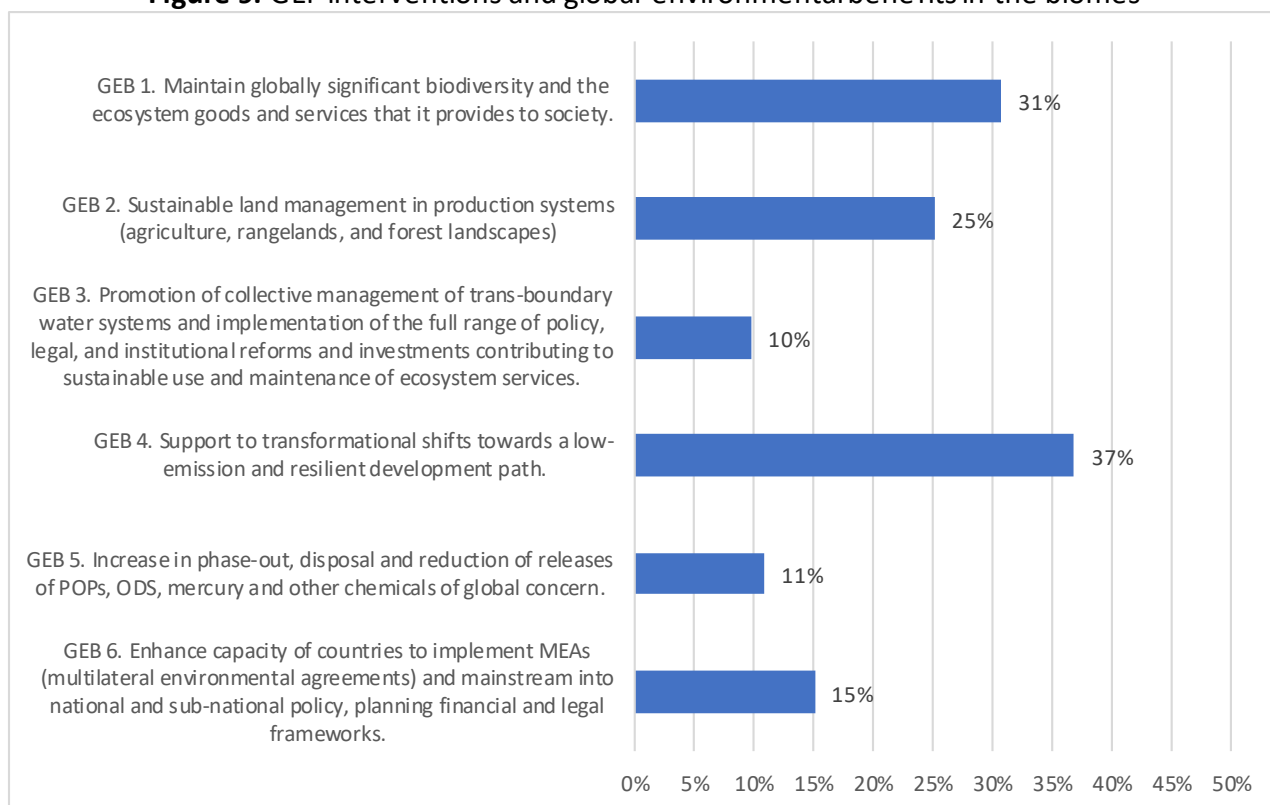
**Figure 8: Multifocal support by funding component**



Source: GEF PMIS data provided by the GEF Secretariat.

59. Within each focal area it is important for the GEF to ensure support to achieve global environmental benefits. A desk review of the global environmental benefits sought through GEF support in the two biomes found that the main intervention domains included support to transformation shifts toward low-emissions and resilient development paths (37 percent), followed by maintaining globally significant biodiversity (31 percent) and sustainable land management (25 percent) (Figure 9). A review of the environmental domains in the project logical frameworks, results frameworks and related monitoring tools shows that the most measured domains are deforestation, land degradation and sustainable land management (30 percent), and threats to terrestrial biodiversity (23 percent).

**Figure 9: GEF interventions and global environmental benefits in the biomes**



Note:  $n = 358$ . Several projects address multiple areas of intervention.

## 2.2 Relevance to National Environmental Challenges

**60. GEF interventions are aligned with the respective government's environmental priorities in the Sahel and Sudan-Guinea savanna countries.** Ninety-three percent of the GEF projects reviewed in the relevance cohort described the project's relevance to the country's specific priorities and considered these priorities in their design. In addition, 85 percent of projects included detailed reference to the specific environmental challenges in the country. These challenges are addressed in the project objectives and components. Relevance was confirmed in country case studies. Government officials interviewed in the countries visited noted that the GEF is an important source of funding that fits well into their planning. For example, GEF support is aligned to Uganda's Vision 2040 and national development plans that call for conservation of natural resources and protection of the environment. Both government representatives and nongovernmental stakeholders interviewed in Conakry, Guinea, reported that GEF projects are usually in line with national strategies and address priority needs. In particular, GEF support has been critical in addressing, advancing, and raising awareness of the country's main environmental issues, including deforestation, land degradation, destruction of mangroves, and sea level rise.

**61. GEF support addresses the main environmental challenges faced by countries in the two biomes.** Although not a specific national environmental challenge for countries in the Sahel or

the Sudan-Guinea savanna, climate change is addressed by 44 percent of the projects reviewed. In addition to being a major financing window in the GEF as well as in the environmental donor community, climate change acts as a major driver for land degradation, desertification, and water scarcity. Seventy-seven projects (22 percent) addressed deforestation, land degradation and desertification, which were the main challenges for 21 of the 23 countries; 69 projects addressed biodiversity, the main challenge for 16 countries (Table 7). Thirty percent of projects in the Sahel addressed land degradation as did 25 percent of projects in the Sudan-Guinea savanna, where a larger share of projects addressed threats to biodiversity (28 compared to 21 percent in the Sahel). Furthermore, for 30 percent of the projects reviewed, the results framework contains indicators on deforestation and land degradation, including sustainable land management. Indicators on threats to terrestrial biodiversity are included in 23 percent of the projects reviewed. These findings confirm the strong alignment of GEF support to the main environmental challenges in the biomes.

62. **GEF interventions consider country socioeconomic priorities.** In addition to sharing many common environmental challenges, the 23 countries in the two biomes face pressing socioeconomic challenges, affecting the severity of the environmental issues at hand. Most are least developed countries, and 13 have gone or are going through situations of sociopolitical instability. Not surprisingly in this context, national infrastructure and socioeconomic development investments are often given priority over environmental conservation initiatives. In Guinea, government-sponsored bauxite mining attracts a growing number of workers, increasing pressure on the scarce natural resources of the northern part of the country. In Uganda, economic development is often favored over biodiversity conservation: where infrastructure such as oil fields and related investments such as roads and airstrips are developed, forests are heavily encroached upon. A similar dynamic is observed in Guinea-Bissau with a push from the central, district, and community levels toward oil and mining explorations in protected areas. Cognizant of beneficiaries' livelihood needs, project documents are beginning to capture the socioeconomic dimension of GEF interventions. Thirty percent of the project result frameworks reviewed ( $n = 358$ ) have indicators on alternative livelihoods and income generation/diversification. Sixteen percent of projects measured resilience in their logical framework, and an additional 12 percent measured food security.

**Table 7: National projects addressing the main environmental challenges in the biomes**

Country	Climate Change	Deforestation, Land Degradation, Desertification	Threats to Biodiversity	Waste Management	Threats to in-land Water Resources	Water Quality and Quantity	Threats to Marine Resources	Coastal and coral Reef Degradation	Mining	Air Quality and Air Pollution	Natural Disasters
Benin	6	3	2	1			1				
Burkina Faso	9	4	5	2	1				1		
Cameroon	4	5	9	3	3		2	1			
Central African Republic	2	1	1	1	1	1					
Chad	4	4	2	1	1	1	1		1		
Cote d'Ivoire	5	1	2	1						3	
Eritrea	1	2	1	2					1		
Ethiopia	7	6	6	1							
Gambia	7	3	2				1	1			
Ghana	4	7	8	1	5		1		1		
Guinea	6	2	1				1	2			
Guinea-Bissau	2	3	4			1					
Liberia	6	1	4					2			
Mali	7	4	5								
Mauritania	3	8	2		1	2	1				
Niger	5	5	3		1						1
Nigeria	10	5	3	3	1						
Senegal	10	5	2	1			1	1			
Sierra Leone	5		1			2					
Sudan	8	1	1								
Togo	2		1								
Uganda	7	7	4	1	1	1					
<b>Total</b>	<b>120</b>	<b>77</b>	<b>69</b>	<b>18</b>	<b>15</b>	<b>8</b>	<b>9</b>	<b>7</b>	<b>4</b>	<b>3</b>	<b>1</b>

Source: Adapted from [UNEP 2008](#); PMIS data. Blue cells indicate that projects address the common underlying challenge of climate change; green cells indicate that projects address one main challenge in the country; yellow cells indicate that projects address a challenge that is not among the main ones for the country; red cells indicate that no projects address any of the main challenges for the country. Several projects address multiple challenges.

63. **In the much-needed areas of institutional development and governance, more than half the projects reviewed focus on policy frameworks and skills building.** GEF support can be classified into three main categories: knowledge and information, institutional capacity, and implementing strategies. These areas of GEF support interact, complement, and reinforce each other, collectively contributing toward addressing environmental stress reduction and improved environmental status ([GEF IEO 2013](#)). GEF institutional support in the biomes mostly focused on helping countries develop their respective environmental policy, legal, and regulatory

frameworks; on building skills and capacities; and on introducing innovative technologies and approaches (Table 8). All of these are domains in which the GEF has traditionally invested most of its financing and technical expertise, demonstrating its comparative advantage and additionality. The majority of GEF interventions in the biomes included indicators in their results framework on capacity, institutions, and governance. Sixty-nine percent of projects had indicators measuring capacity and skills development; 68 percent had indicators for the development of plans, policies, laws, and regulations; and 45 percent included indicators on knowledge management and awareness raising.

**Table 8:** Intervention typologies in the two biomes

Intervention area	Typology	No.	(%)
Knowledge and information	Knowledge generation	135	38
	Information sharing and access	120	34
	Awareness raising	89	25
	Skills building	208	58
	Monitoring and evaluation	95	27
Institutional capacity	Policy, legal, and regulatory frameworks	220	61
	Governance structures and arrangements	69	19
	Informal processes for trust building and conflict resolution	3	1
Implementing strategies	Technologies and approaches	185	52
	Implementing mechanisms and bodies	112	31
	Financial mechanisms for implementation and sustainability	52	15

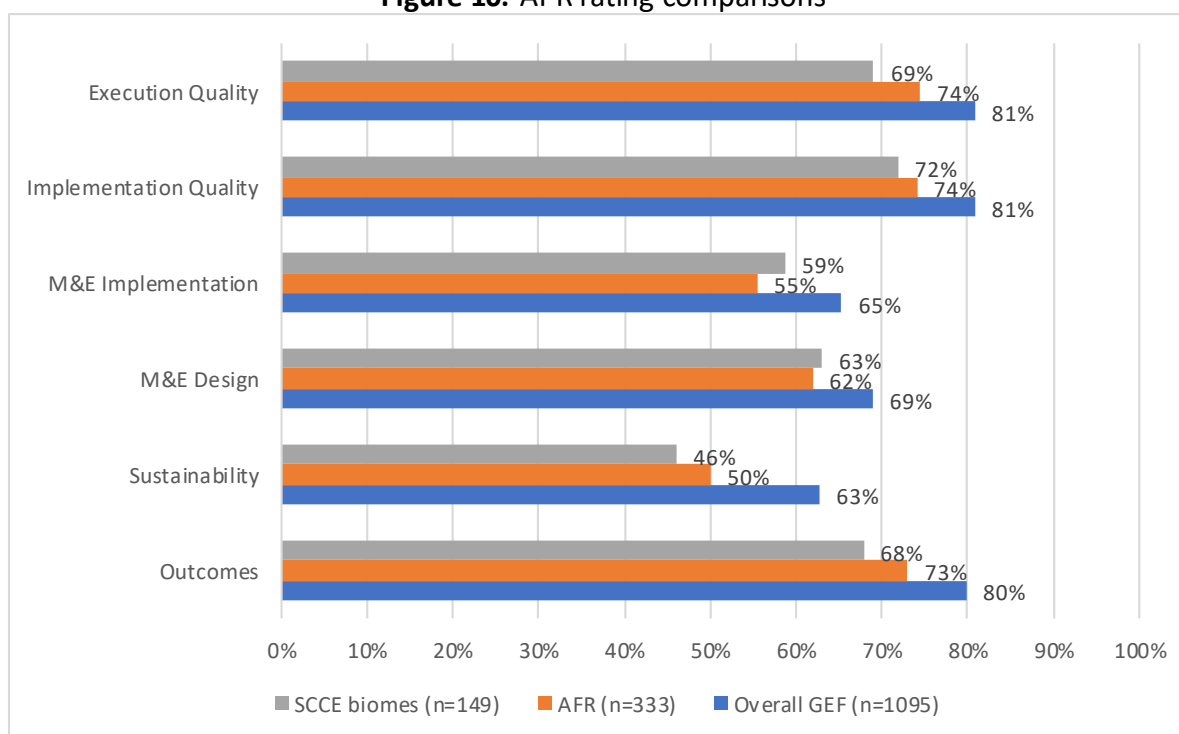
Note:  $n = 358$ . Several projects address multiple areas of intervention.

### 3. RESULTS AND SUSTAINABILITY

#### 3.1 Performance

64. **Projects in the two biomes and in Africa overall received lower performance ratings than the overall GEF portfolio.** Analysis of terminal evaluation ratings from the most recent IEO Annual Performance Report (APR) 2019 database shows that projects in the biomes significantly underperformed when compared with the overall GEF portfolio on most dimensions (Figure 10).

**Figure 10: APR rating comparisons**



65. Focusing on the two dimensions of interest to this evaluation—project outcomes and likelihood of their sustainability—68 percent of projects were rated as having outcomes in the ‘Satisfactory’ range;<sup>7</sup> this is a significantly lower percentage than for the overall GEF portfolio (80 percent of projects) and for the Africa region (73 percent of projects). Ratings for the likelihood of sustainability of outcomes at project closure followed a similar pattern: only 46 percent of projects in the biomes were rated in the ‘Likely’ range for sustainability,<sup>8</sup> compared to 63 percent of the overall GEF portfolio and 50 percent of the Africa portfolio of projects. It is useful to note that outcomes and their likely sustainability have been found to be statistically correlated (GEF IEO 2019a). The statistical test for proportionality for this evaluation indicates that the outcome and sustainability ratings for the three comparators—the overall GEF, Africa,

<sup>7</sup> This range includes three ratings: Marginally Satisfactory, Satisfactory and Highly Satisfactory.

<sup>8</sup> This range includes two ratings: Moderately Sustainable and Likely Sustainable.



and the two biomes—differ in their proportions. This difference between the cohorts is statistically significant: the p-value for the outcome and sustainability differ, but in both cases, the p-value is less than 0.0005.

66. These findings re-affirm the evaluative evidence collected by the IEO from 2008 to 2014 through country portfolio evaluations in the two biomes. In 2008, the IEO found that the results of GEF support to Cameroon were at risk because of weak financial, institutional, and socioeconomic sustainability. The Cameroon country portfolio evaluation recommended that the GEF further support trust funds as an approach to improving the financial sustainability of protected areas (GEF IEO 2009c). More recent reporting on the GEF portfolios in Eritrea, Sierra Leone, and Tanzania, consolidated in the seventh Annual Country Portfolio Evaluation Report, concluded that the likelihood of sustainability has been highest when pursued through fostering institutional and individual capacity development and the promotion of livelihood activities through community-based approaches, such as those financed by the Small Grants Programme (GEF IEO 2014a). The report also found that the most successful efforts for promoting the sustainability of outcomes have been those aimed at developing local capacities as well as at linking local community benefits to improved environmental management.

67. **While projects in Africa tend to have lower ratings, more recent terminal evaluations of GEF-4 to GEF-6 completed projects in the biomes have accorded better ratings than terminal evaluations for earlier projects completed between 2007 and 2014.** These findings are consistent with recent IEO analyses, according to which projects in Africa are less likely to be rated in the likely range for outcome sustainability than projects elsewhere but have improved significantly from GEF-3 onward (GEF IEO 2019a).

68. **Multifocal projects perform better on outcomes but lower on sustainability.** A larger percentage of multifocal (85 percent) than single focal area projects (ranging from 45 to 75 percent by focal area) were rated as having satisfactory outcomes. However, only 38 percent were rated as having outcomes likely to be sustained, compared to a range of 43 percent (biodiversity) to 52 percent (land degradation) of single focal area projects. Land degradation, biodiversity, and climate change had a higher percentage of projects with satisfactory outcomes and a lower percentage of projects with likely sustainability ratings (Table 9).

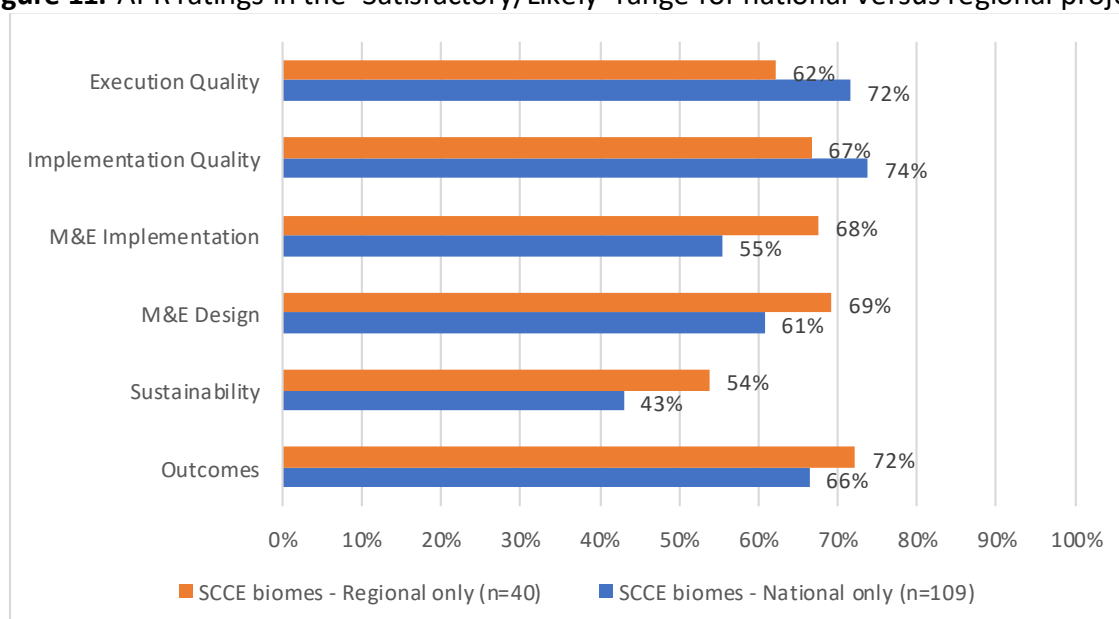
**Table 9: Outcome and sustainability ratings by focal area**

Focal Area	Satisfactory Outcomes	Likely Sustainability	Total
Biodiversity	65%	43%	46
Climate change	72%	47%	41
International waters	45%	50%	12
Land degradation	75%	52%	25
Multi focal area	85%	38%	14
POPs	50%	45%	11
<b>Total</b>	<b>68%</b>	<b>46%</b>	<b>149</b>

69. A larger percentage of international waters projects are rated as likely to be sustainable compared to the percentage of projects rated as having in the 'Satisfactory' range for achievement of outcomes. Information collected in Guinea on the International Waters Regional Project Reversing Land and Water Degradation Trends in the Niger River Basin (GEF ID 1093) supports this finding. This project aimed at supporting the nine participating riparian countries of the Niger River basin in their efforts to work together to ensure the sustainable development and management of the basin's land and water resources, including protection of its unique dryland environment and associated biodiversity. Interviewees at the Direction Nationale de l'Hydraulique in Conakry reported that although only a small project component focusing on small-scale interventions and capacity-building activities was implemented in Guinea, the project has succeeded in introducing an environmental and social management framework for screening all pilot projects and microgrant activities in the country. A microgrant operational manual with environmental screening criteria, notification and procedural rules for implementation, and institutional responsibilities for the parties involved is being used at the community level for screening and implementation of investments to be funded through the recently established national agency for financing community development plans (Agence Nationale de Financement des Collectivités Locales).

70. From an analysis of terminal evaluations of completed projects, the SIDS SCCE found that a larger percentage of regional projects were rated in the 'Satisfactory' range for outcomes and 'Likely' range for sustainability as compared with national projects (GEF IEO 2020). A similar analysis in this evaluation found that although more regional projects in the two biomes are rated in the Satisfactory/Likely range for outcomes, sustainability, and monitoring and evaluation design and implementation, a larger percentage of national projects are rated in the 'Satisfactory' range for implementation and execution quality (Figure 11).

**Figure 11:** APR ratings in the 'Satisfactory/Likely' range for national versus regional projects



71. Observed postcompletion sustainability of four out of the five field-verified regional projects was positive. In two cases, the sustainability ratings changed from negative (outcomes were rated unlikely or moderately unlikely to be sustained) at completion to positive (sustainability of outcomes rated in the likely range) at postcompletion. These rating improvements seem more attributable to the relevance of the technologies introduced than to the fact that they were introduced by a regional project. Integrated pest and pollution management training in Mali provided by the regional project Reducing Dependence on POPs and other Agro-Chemicals in the Senegal and Niger River Basins through Integrated Production, Pest and Pollution Management (GEF ID 1420) introduced a number of biological control agents (*Azadiractha Indica* flour and crushed seeds, root powder of *Securidaca longepedunculata*, chopped fresh organs from *Physalis*, broth of fresh organs of *Hyptis suaveolens*, and chopped fresh organs of *Cassia nigricans*). These agents provide economic and health benefits in terms of reduced cost in pest control and reduced poisoning among human populations, as well as environmental benefits in terms of increased biodiversity. The regional project Adaptation to Climate and Coastal Change in West Africa - Responding to Shoreline Change and Its Human Dimensions in West Africa through Integrated Coastal Area Management (GEF ID 2614) addresses coastal dune sustainability, which is one of the major environmental problems in Mauritania. The project piloted a method of reconstituting the ecosystem and biodiversity of a part of the coastal dune, making it possible to secure the city of Nouakchott against ocean incursion.

### 3.2 Outcomes and Sustainability

72. The GEF supports activities that directly or indirectly contribute to the improvement of environmental status or address drivers of environmental degradation, or both. The impact of GEF support may occur immediately as a result of project activities, but often change takes years (or even decades) after a project is completed. By analyzing how GEF support contributes to progress toward impact, the IEO can assess the extent to which this support is likely to lead to impact and ultimately sustainability in the long term. Progress toward impact is assessed through the extent to which the broader adoption of GEF interventions and outcomes by governments and other stakeholders takes place during implementation or at project end. Broader adoption pertains to the transformational processes by which the widespread implementation of interventions aids the achievement of global environmental benefits. This may take place in different ways, specifically, mainstreaming, replication, scaling-up, sustaining, and market change (box 1). This approach has been used by the IEO since 2013 to assess broader adoption of outcomes and progress toward impact of GEF interventions (GEF IEO 2013).

### Box 1: Mechanisms of broader adoption

**Mainstreaming:** When information, lessons, or specific aspects of a GEF initiative become part of a stakeholder's own initiatives, such as through laws, policies, regulations, or programs. This may occur through governments, through development organizations and other sectors, or both.

**Replication:** When a GEF-supported intervention is copied at a similar scale, often in other locations.

**Scaling-up:** When a GEF-supported intervention is implemented at a larger geographical scale, often expanded to include more political, administrative, economic, or ecological components. This allows concerns that cannot be resolved at lower scales to be addressed and promotes the spread of GEF contributions to areas contiguous to the original project site.

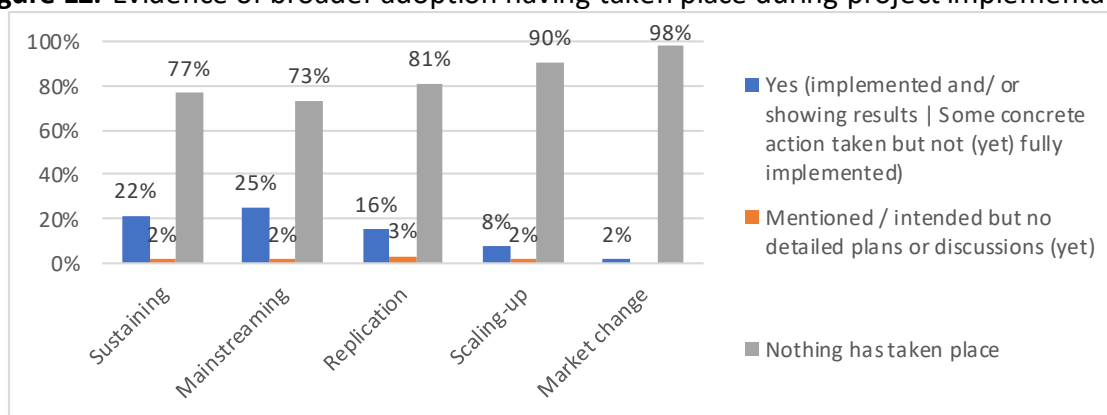
**Sustaining:** When a GEF-supported intervention or outcome is continued by the original beneficiaries without GEF support so they can continue to reap the benefits.

**Market change:** When a GEF-supported intervention influences an economic demand and supply shift to more environmentally friendly products and services.

73. In APR 2017, the IEO conducted a desk review of postcompletion verification reports ( $n = 53$ ). According to the analysis, outcomes of most GEF projects are sustained during the postcompletion period. In addition, a large percentage of projects achieve environmental stress reduction and broader adoption at postcompletion. The review concluded that the key factors that contribute to higher outcomes and broader adoption at postcompletion are strong levels of stakeholder buy-in, political support, availability of financial support for follow-up, and sustained efforts on the part of the national executing agency. A few projects regressed to a lower outcome sustainability level postcompletion because of a lack of financial support for follow-up, low political support, low institutional capacities, low stakeholder buy-in, and flaws in the project's theory of change. Importantly, catalytic processes of broader adoption such as mainstreaming, replication, and scaling-up, and/or sustaining project outcomes were observed in a larger percentage of projects at postcompletion than at implementation completion (GEF IEO 2019a).

74. Overall, completed projects in the biomes showed lower broader adoption rates than those of the overall GEF portfolio analyzed as part of the APR 2017. For 49 of the 67 projects for which terminal evaluations were reviewed for sustainability in the biomes, no actions were taken during implementation to stimulate broader adoption of project outcomes postcompletion (Figure 12). When present, the most prevalent processes implemented for broader adoption were mainstreaming (25 percent) and sustaining (22 percent) in projects indicating that measures for broader adoption to occur had been fully or partially implemented while the projects were ongoing. This trend is comparable to the APR 2017 finding mentioned, according to which broader adoption of project outcomes occurred through sustaining and mainstreaming processes, at 49 and 40 percent, respectively.

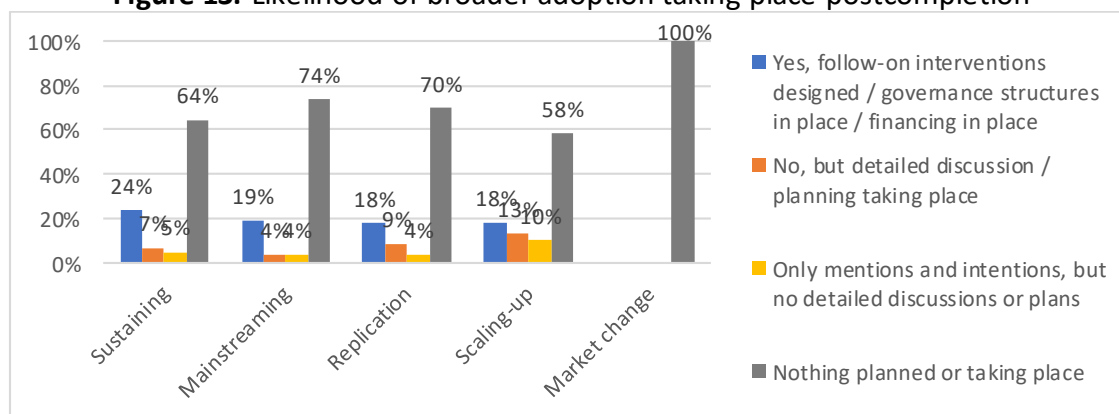
**Figure 12: Evidence of broader adoption having taken place during project implementation**



Note: Sustainability cohort ( $n = 67$ ).

75. The likelihood of broader adoption taking place postcompletion increases when concrete actions are undertaken to this end during implementation—such as the detailed design of follow-up activities, or the establishment of governance structures or financing windows. In the biomes, these actions translated in concrete sustaining, mainstreaming, replication, and scaling-up initiatives implemented in 18 to 24 percent of the projects reviewed (Figure 13).

**Figure 13: Likelihood of broader adoption taking place postcompletion**



Note: Sustainability cohort ( $n = 67$ ).

76. **Demonstrating sustainability takes time, as evidenced by higher observed sustainability of outcomes at postcompletion than at the terminal evaluation stage.** This finding supports the APR 2017 conclusion as well as a similar conclusion from the SIDS SCCE (GEF IEO 2020). Field visits to 16 completed projects during the country case studies—including to one regional project visited both in Guinea and Mali—showed that 14 projects demonstrated maintained or improved sustainability postcompletion (Table 10). These improvements, documented in the country case studies presented in volume 2 of this report, are attributable to the quality of project design as well as to positive changes in the context occurring postcompletion.

**Table 10:** Postcompletion sustainability ratings for field-verified projects in country studies

Country	GEF ID	Terminal Evaluation Sustainability Rating	Observed Sustainability Rating Postcompletion
Guinea	1877	negative	<b>positive</b>
	1093 (regional)	positive	positive
	1273	positive	positive
Uganda	1830	positive	<b>negative</b>
	1175	negative	negative
	2140 (regional)	negative	negative
Mauritania	1258 (regional)	positive	positive
	2459	negative	<b>positive</b>
	2614 (regional)	negative	<b>positive</b>
	3379	positive	<b>negative</b>
Mali	1253	negative	<b>negative</b> on infrastructure but <b>positive</b> for livelihoods
	1420 (regional)	negative	<b>positive</b>
	1152	—	positive
	3763	—	negative
Nigeria	942	negative	<b>positive</b>
	1503	positive	positive

Note: Positive sustainability includes likely and moderately likely ratings; negative the unlikely and moderately unlikely ones. Green-highlighted text indicates improved rating postcompletion, red means the rating has worsened.

77. Both context- and project-related factors were at play in the two cases where sustainability worsened. The field-verified Protected Areas Management and Sustainable Use (GED ID 1830) project in Uganda had a lower sustainability rating at postcompletion; this was attributable to a series of contextual factors including the government prioritizing infrastructure and economic development over conservation of protected areas, political interference, and the limited allocation of funds to the environment sector at both the national and district levels. The SIP: Participatory Environmental Protection and Poverty Reduction in the Oases of Mauritania (GEF ID 3379) project showed lower sustainability attributable to the high costs and inappropriateness of the approaches and technologies introduced. The project aimed at improving the livelihoods of oases residents, farmers, and herders by (1) significantly reducing land degradation and enhancing land and water productivity through targeted on-the-ground investments, and (2) promoting environmentally friendly income-generating activities and energy-saving options. The water-lifting and irrigation systems introduced by the projects, including drip irrigation and motorized pumping systems, have not survived because they were either too complex, too costly to operate, or both.

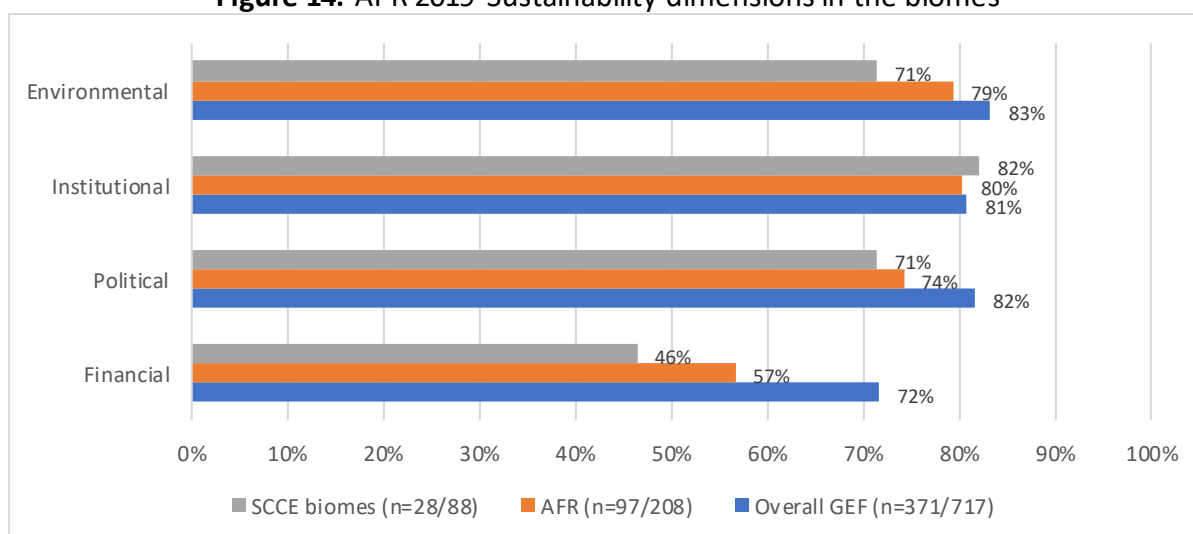
### 3.3 Factors influencing Outcome Sustainability

78. This section looks at the factors that contribute or hinder outcome sustainability. The discussion starts from an analysis of available terminal evaluations with ratings on four dimensions—financial, institutional, sociopolitical, and environmental—affecting the likelihood of project outcome sustainability. It then explores in depth a wider array of factors, using evidence from previous IEO analyses, from the 67 terminal evaluations in the sustainability cohort, and from the country case studies.

79. Fifty-two percent of the terminal evaluations from the APR 2019 cohort of projects completed between 2007 and 2014 ( $n = 371$ ) have ratings. A subset of 29 percent of these is of projects completed in Africa, 12 percent of which is of projects in the biomes. These three cohorts can be compared to identify if any of the four dimensions are more prominent in influencing outcome sustainability.

80. **Financial sustainability is an issue in Sub-Saharan Africa overall and is particularly acute in the biomes.** Across the GEF portfolio, for those projects for which these ratings are available, more than 80 percent of projects were rated as having outcomes that were likely to be sustained in terms of their sociopolitical, institutional, and environmental dimensions; however, only 72 percent were so rated with regard to financial sustainability. The same trend is observed when looking at the Africa and biomes subsets of this cohort; in fact, their financial sustainability ratings are even lower (Figure 14). In fact, financial sustainability differs most across all three cohorts. Statistical testing for proportionality conducted on these results indicates that these four dimensions differ in proportionality across the cohorts by varying degrees: financial ( $p\text{-value} = 0.001027$ ), political ( $p\text{-value} = 0.1451$ ), environmental ( $p\text{-value} = 0.2274$ ), institutional ( $p\text{-value} = 0.9791$ ). Limited or lack of postproject financing has also emerged as a context-related hindering factor in five out of the six country case studies, the exception being Nigeria (annex 3).

**Figure 14: APR 2019 Sustainability dimensions in the biomes**



81. On the positive side, likelihood of institutional sustainability emerged as the most prominent dimension, rated above 80 percent both for Africa and the biomes, and comparable to the overall GEF cohort. These positive ratings suggest that the investments made by the GEF in building new and/or supporting existing institutional structures and capacities in the biomes are paying off.

82. A more in depth analysis needs to go beyond the four sustainability dimensions discussed above. The APR 2017 review of postcompletion verifications identified six main hindering factors, observed in those cases where outcomes were not sustained: (1) lack of financial support for the maintenance of infrastructure or follow-up; (2) lack of sustained efforts from the executing agency; (3) inadequate political support including limited progress on the adoption of legal and regulatory measures; (4) low institutional capacities of key agencies; (5) low levels of stakeholder buy-in; and (6) flaws in the theory of change of projects. These factors were observed in the biomes as well, as the analysis of the 67 terminal evaluations of projects in the sustainability cohort indicates.

83. On the positive side, data from the sustainability cohort analysis point at “a strong buy-in and a strong sense of project ownership among key stakeholders” (30 percent) and “good coordination with/continuity of previous or current initiatives” (27 percent) as the most prominent project-related factors positively impacting the likelihood of sustainability of outcomes. These factors are especially important for projects implemented in the Sahel (44 and 56 percent, respectively). Other project-related contributing factors that emerged from the sustainability cohort analysis include “good project management or co-management” (26 percent); “good engagement of key stakeholders/ stakeholders involved at design and decision-making” (24 percent); and “timely adaptive management” (23 percent). While not as pronounced in the Sudan-Guinea Savanna, “highly relevant technology/ approach” was identified as an important factor in 25 percent of the Sahel projects. On the negative, “poor project design” greatly hinders the prospects for sustainability (33 percent overall, 18 in Sahel and 45 percent in the Sudan-Guinea Savanna projects), “insufficient time for implementation” (30 percent), and “poor project management” (21 percent).

84. The predominant context-related contributing factor in the biomes is “national government support” (41 overall, 50 percent for Sahel and 38 percent for Sudan-Guinea Savanna projects). “Unfavorable political conditions/events” and “low institutional capacities” come next as context-related factors hindering the likelihood of sustainability (33 and 29 percent, respectively). “Unfavorable political conditions/events” is particularly important for projects implemented in the Sahel (56 percent) and “low institutional capacities to implement activities” for projects implemented in the Sudan-Guinea Savanna biome (41 percent). Of all these factors, “lack of financial support” and “poor project design” were the most frequently observed factors in the countries and projects visited by this evaluation (Table 11). A detailed summary of case study findings on the observed factors is presented in annex 3.



**Table 11: Factors hindering sustainability observed in country case studies**

<b>Factors Identified in APR 2017</b>	<b>Mauritania</b>	<b>Mali</b>	<b>Nigeria</b>	<b>Guinea</b>	<b>Guinea Bissau</b>	<b>Uganda</b>
Flaws in the projects' theory of change /poor design	x	x	x	x		x
Lack of financial support	x	x	x	x		
Inadequate political support				x	x	x
No continuation from executing agency	x					x
Low institutional capacities					x	
Low stakeholder buy-in					x	

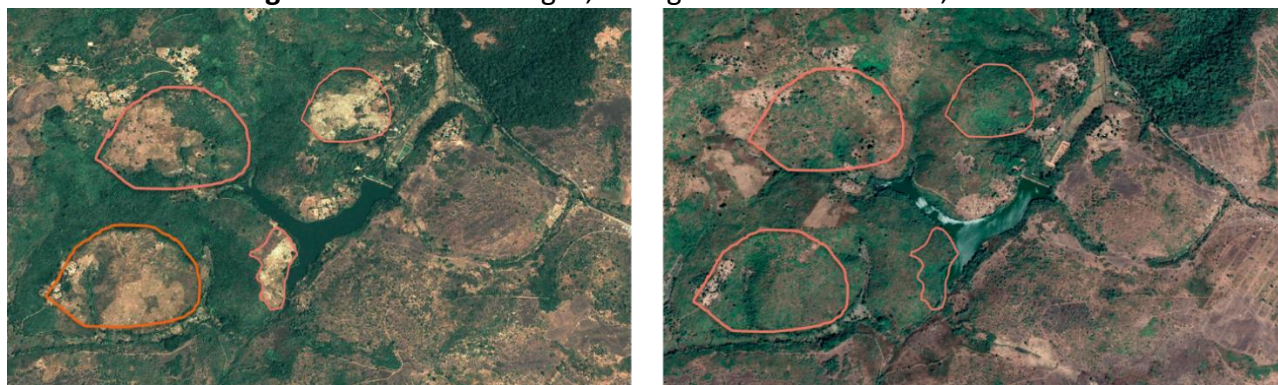
85. **Project design matters for sustainability.** As discussed in the preceding paragraph, project design is the among the most prominent factors that could influence positive or negative sustainability depending on its quality. Design that promotes sustainability takes into due consideration the country socioeconomic and political context as well as the local conditions and knowledge, and includes measures and activities designed to support from both the financial and institutional standpoint the continued delivery of outcomes postcompletion. Field observations in Uganda, Mauritania, and Nigeria indicate that project designs that included long-lasting infrastructure investments requiring limited associated operating costs tend to be more sustainable than investments in capacity-building activities where the trainees cannot apply what they learned due to lack of funds postcompletion. In Uganda, protected area district officials from the Ministry of Water and Environment stated that they could not apply the skills they learned because of limited local funding to regularly monitor forest degradation and to provide technical support to scale up afforestation efforts. Lack of funding could have been mitigated at design by including post-projects revenue generation activities and/or measures such as taxes or other financial incentive mechanisms.

86. An example of inadequate project design was observed in Tolo, Guinea. There, the sustainability of the positive environmental outcomes achieved in the area around the source of the Bafing River, reforested with support from the Community-based Land Management (GEF ID 1877) project after relocating the farming communities to a nearby watershed, is threatened by insufficient groundwater. In this case, no technical feasibility study to assess water availability and its seasonal variation during the year, or other groundwater stock analyses were conducted as part of project design.

87. The Bafing River is the source to half the water going to the Senegal River. Deforestation around the river source is caused by land clearing for agriculture. After intense participatory consultations, farmers agreed to relocate to a watershed at 2 kilometers from the river source, where communities can practice horticulture. This relocation was informed by a socioeconomic study followed by negotiations that provided an agreement for the distribution of land in the watershed and included compensation measures. Years after the relocation, the ecosystem has

been slowly rehabilitated through intense reforestation measures. This positive outcome is evidenced by satellite images taken in 2012 and 2018 showing increased vegetation directly adjacent to the perimeter of the river source and decreased agricultural activity on the hillslopes (Figure 15).

**Figure 15:** Satellite images, Bafing River source—2012, 2018



88. A quantitative analysis of annual satellite imagery using the annual mean Normalized Difference Vegetation Index from 2000 to 2018 also demonstrates increasing levels of vegetation cover/productivity throughout the time period (Figure 16). This trend is juxtaposed against a slight decreasing trend in rainfall. These data provide evidence that the restoration efforts around the river source are having positive effects on the vegetation. Continuation of these positive environmental outcomes is threatened by the limited access to water in the relocation site. Water scarcity remains the key impediment for agriculture in the watershed where the farmers have relocated. The mission found this area underused. Farmers reported that despite the investments made, they only have enough irrigation water for six months per year.

**Figure 16:** Time series of vegetation productivity and rainfall in the project period—Bafing River source



89. **Designing profitable beneficiary-relevant alternative livelihood activities and working with existing decentralized institutions to include environmental considerations in local development plans emerged as important sustainability factors in the biomes.** Both the terminal evaluation review of sustainability cohort projects and the postcompletion verifications conducted in country case studies added a new set of both project- and context-related factors that impact sustainability of outcomes to the factors identified in previous IEO analyses (annex 3). Of these, the most frequently observed project-related contributing factor was “designing alternative livelihood activities that are profitable for and corresponding to beneficiary concrete needs,” observed through several examples of both successes and failures in all the countries visited except for Guinea Bissau. In Mali, alternative livelihood activities provided income-generating support for mills, but equipment for the processing of nontimber forest products introduced by the SPWA-BD: Expansion and Strengthening of Mali's Protected Area System (GEF ID 3763) project failed two years after completion as the equipment was no longer operational. Lack of savings for repairs and lack of working capital, as well as lack of raw materials and markets in nonwood forest products processing explain the failure of this activity. As a contrast, in Mauritania, the SIP: Participatory Environmental Protection and Poverty Reduction in the Oases of Mauritania (GEF ID 3379) project introduced small-scale infrastructure investments (solar pumps) within the financial reach of households in the oases. These have been maintained by the households, with auto investment in new structures postproject by the households themselves.

90. Field verifications in country studies shed light on a few more important factors affecting the observed sustainability in the biomes. The most interesting was “working with existing decentralized institutions through their local development plans,” observed in Mali, Guinea, and Guinea Bissau. Setting up intercommunal institutions as was done in Guinea with the sustainable land management of a transboundary watershed, or in the case of Mauritania with the monitoring and management association of the Gourma elephant protected area, were important factors in sustainability. Another factor was the involvement of women in the alternative livelihood activities as well as in small infrastructure management groups. Women's direct engagement in the management of these activities contributed to their continuation in Guinea, Mauritania, and Guinea Bissau. This important factor is discussed in greater detail in the section on gender in this report.

91. The most interesting context-related factor for sustainability emerged in this evaluation is related to country insecurity, emergence of fragile political, or socioeconomic situations, observed in Mali, Guinea, and Mauritania. While fragility negatively affects outcomes and sustainability in various ways when it suddenly emerges, these negative effects tend to occur in the capital and other urban areas, where most of the population resides. This evaluation found that in rural areas these negative effects tend not to be felt. Even in countries like Mali that are fragile since many years, financially viable and beneficiary-relevant alternative livelihoods activities tend to continue. This aspect is further discussed in the section dedicated to fragility in this report.

92. **Consideration of risks and mitigation measures are important drivers and were well documented in a majority of projects.** A comprehensive discussion about context-related factors of sustainability needs to consider the fact that if risks are not accounted for at design, their eventual occurrence during implementation is likely hindering both outcomes and sustainability postcompletion. Risks include socioeconomic and political as well as climate-related ones. The review of design documents of both the relevance and sustainability cohorts indicates that 85 percent of projects included risk considerations and related mitigation measures, in compliance with GEF requirements. Of these, 71 percent indicated in detail both climatic and nonclimatic risks in project documents. An picture of improvement emerges when narrowing the analysis to the sustainability cohort projects. A large majority of the projects reviewed (86 percent) included risk considerations at design. Sixty-six percent of projects indicated climatic as well as nonclimatic risks in the project preparation document. An additional 30 percent included some mention of risks although incomplete or with some serious omissions.

93. Risks mentioned in project documents focused on institutional or governance risk (73 percent), specifically pertaining to institutional arrangements as well as lack of or limited capacity. Project design documents also referred to implementation risks in 28 cases in terms of stakeholder engagement at all government levels (local, municipal, ministerial, national). Several projects mentioned as a major risk to project success the inability of stakeholders to work effectively or collaborate. Twenty-five projects cited climatic and environmental risks to projects implementation. Most of these projects discussed extended drought periods, advancing desertification in the Sahel biome, and natural disasters as attributable to climate change. Financial or fiduciary risk, or both, were also identified in 24 projects, mainly in the form of limited availability of funds for cofinancing either from the government or the private sector.

94. Risk mitigation measures discussed at project design focused on enhancing community engagement and stakeholder participation, increasing technical and institutional capacity, and focusing on cost effectiveness. The Institutional Strengthening and Resource Mobilization for Mainstreaming Integrated Land and Water Management Approaches into Development Programs in Africa (GEF ID 1325) indicated that the project would be implemented in a decentralized community-driven development process so that it would not take on the aspect of a top-down, government-led program, and addressed community concern and skepticism that the project would deliver its intended outcomes. The Biodiversity Conservation and Participatory Sustainable Management of Natural Resources in the Inner Niger Delta and Its Transition Areas, Mopti Region (GEF ID 1152) project in Mali aimed at mitigating risks linked to (1) land tenure issues, and to the difficulty of preparing and implementing common programs involving one or several village communities (collective sites); (2) the inadequate mobilization of the people to undertake work to restore and protect the natural resources on the village lands, which could cause their planning, implementation, and monitoring/sustainability efforts to fail; and (3) the inadequate account taken of transhumant or semisedentary herders, who do not always share the same objectives as the sedentary populations in a typically pastoral zone

with a strong agro-pastoral character. Mitigation measures to address the above-mentioned risks include socioeconomic forecasts in order to better understand contextual constraints, such as land use dynamics and the various interests at stake in terms of natural resources management. In that project, measures were to be put in place in advance and in conjunction with the various users to prevent conflicts, mainly relating to water, land, or grazing land access.

### 3.4 Influence of Environment and Development on Sustainability

95. **Little consideration is given at the project design stage to socioeconomic and environmental synergies and trade-offs that could influence sustainability.** The review of design documents in the relevance cohort indicates that only 15 percent of projects ( $n = 52$ ) had some mention of trade-offs and/or synergies at the design stage. Twenty-nine of these projects fully discussed synergies and trade-offs. Eight also addressed trade-off-related mitigation measures. Twenty-two projects focused on synergies with similar initiatives from previous and current projects/programs. Most of these mention either addressed trade-offs or fostered synergies through coordination between different sectors, with other ongoing initiatives, or between long- and short-term impacts. For example, the LCB-NREE Chad Child Project: Integrated Management of Natural Resources in the Chadian Part of the Lake Chad Basin (GEF ID 9476) sought to enhance synergies between environmental, agricultural, and livelihood outcomes and provide synergies with the regional water project in the area. The Biodiversity Conservation and Participatory Sustainable Management of Natural Resources in the Inner Niger Delta and Its Transition Areas, Mopti Region in Mali (GEF ID 1152) aimed at the restoration, conservation, and sustainable management of the ecosystems and their biodiversity in the Inner Delta of the Niger River and its transition zones. The project sought to ensure synergy with other biodiversity conservation and land restoration projects implemented by the GEF, the World Bank, and UNDP in the Niger River Delta.

96. Examples of promoting synergies or addressing trade-offs between long- and short-term impacts include the Local Empowerment and Environmental Management Project - Micro Watershed and Environmental Management Project in Nigeria (GEF ID 942) and the Coastal and Biodiversity Management Project in Guinea-Bissau (GEF ID 1221). Both projects recognized the need for short- and long-term technical assistance to enhance project sustainability and build local capacity, as well as the need for an intensive participatory planning process to ensure greater community inclusiveness and ownership of decision making. Only 12 projects discussed synergies and/or trade-offs between development and environment, focusing on socioeconomic impacts and livelihoods. Projects targeted synergies between sustainable natural resource management of land, watersheds, protected areas, wildlife, and local benefits. Two of those projects mentioned mitigation measures toward the environment and identified development trade-offs.

97. **Findings from case studies and interviews consistently indicated the importance of a nexus approach to environmental and socioeconomic objectives and between short- and long-term planning in enhancing sustainability.** Case studies indicate that when systemic provisions and measures for alternative livelihood activities are put in place and there is a positive environment-socioeconomic nexus, the chances of sustaining the environmental benefits of project interventions were much improved (Box 2).

**Box 2: Examples of positive influence of environment/development synergies on sustainability**

**Mali:** The regional project Reducing Dependence on POPs and other Agro-Chemicals in the Senegal and Niger River Basins through Integrated Production, Pest and Pollution Management (GEF ID 1420) resulted in economic, health, and environmental benefits by reducing the cost of pest control in market gardening, leading to reduced poisoning among the populace and increased biodiversity. In the project entitled Biodiversity Conservation and Participatory Sustainable Management of Natural Resources in the Inner Niger Delta and its Transition Areas, Mopti Region (GEF ID 1152), the regeneration of bourgou, an aquatic grass, through nurseries and replanting had a major impact on the economy and on community livelihoods. The system of regeneration exploits the synergy between the environment (increased biodiversity, including a return of migrating birds and increased fish stocks) and increased income generation (livestock feed, increased fishing, etc.). Where the nexus does not exist, however, or where projects introduced alternative livelihood activities that are not economically viable from a beneficiary standpoint, the sustainability of any related environmental benefits is compromised. Thus, the same biodiversity conservation project provided an example of a lack of nexus thinking where sustainability was compromised. Mechanizing bourgou hay making for livestock feed failed, as farmers could not afford the costs of operating the equipment. Similarly, efforts to replant forests with doum palm (*Hyphaene Thebaica*) were unsuccessful, because of the long time these palms take to grow. Field observations in Mali also indicated that once a positive socioeconomic-environment nexus is ensured, activities and benefits controlled by individuals, households, and/or families are more likely to lead to sustainable outcomes compared with community-managed schemes.

**Guinea-Bissau:** The Coastal and Biodiversity Management Project (GEF ID 1221) and a series of replication projects (including Small Grants Programme projects) focused on the water-energy-food nexus through water drilling and installation of wells and water pumps. The water is mainly used for drinking, but there is some community-based horticulture as well. The improved drinking water has positive impacts on human health and reduced the number of cases of diarrhea among children. The two regional projects reviewed—Combating Living Resource Depletion and Coastal Area Degradation in the Guinea Current LME through Ecosystem-based Regional Actions and Adaptation to Climate Change - Responding to Shoreline Change and its human dimensions in West Africa through integrated coastal area management (GEF IDs 1188 and 2614, respectively)—have used a watershed management approach for land use planning, natural disaster mitigation, and erosion control.

**Mauritania:** In the Community-based Watershed Management Project (GEF ID 2459), residents have derived clear economic, as well as environmental, benefits from infrastructure investments made by the project. However, the long-term sustainability of these benefits is compromised by the inability of the local populations and institutions to finance and carry out maintenance activities without the support of follow-up projects or state interventions. In the SIP: Participatory Environmental Protection and Poverty Reduction in the Oases of Mauritania (GEF ID 3379) project, it is reported that small-scale infrastructure investments in solar pumps that are well within the financial reach of oasis households have been maintained with automatic investment in new structures postproject by the households themselves. In contrast, small-scale alternative livelihood activities are no longer functioning, even though these produced economic benefits to households over the short run. These activities were not sustainable because beneficiaries have not been able to generate the requisite operating funds and capital replacement funds to keep the activities running; the beneficiaries did not view this investment as cost effective. Sustainability of small-scale alternative livelihoods depends on the existence of a positive environment-socioeconomic nexus in the medium term. Virtually all alternative livelihood investments in Mauritania have proved to be nonsustainable, even though they produced economic benefits to households in

### 3.5 Cross-cutting Issues

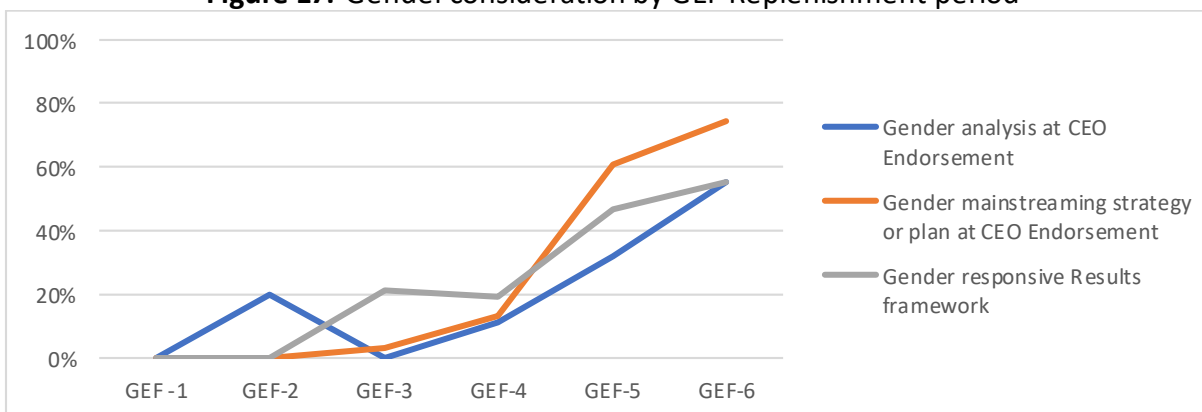
#### *Gender*

98. **Gender is increasingly incorporated in GEF interventions in the biomes.** To determine the extent to which gender has been taken into consideration in GEF programming in the two biomes, the evaluation completed a quality at entry review of design documents of both the relevance and sustainability cohorts ( $n = 358$ ). The assessment verified whether projects had completed, before Chief Executive Officer (CEO) endorsement,

- a gender analysis,
- a gender mainstreaming plan, and
- a gender-responsive results framework.

99. As shown in Figure 17, a progressively increasing number of projects are undertaking a gender analysis before CEO endorsement; this number more than doubled between GEF-4 and GEF-6. The same trend can be observed for the existence of a gender mainstreaming plan and of a gender-responsive results framework. Interestingly, a larger percentage of projects have a gender mainstreaming plan in place than have conducted a gender analysis: 40 percent versus 25 percent.

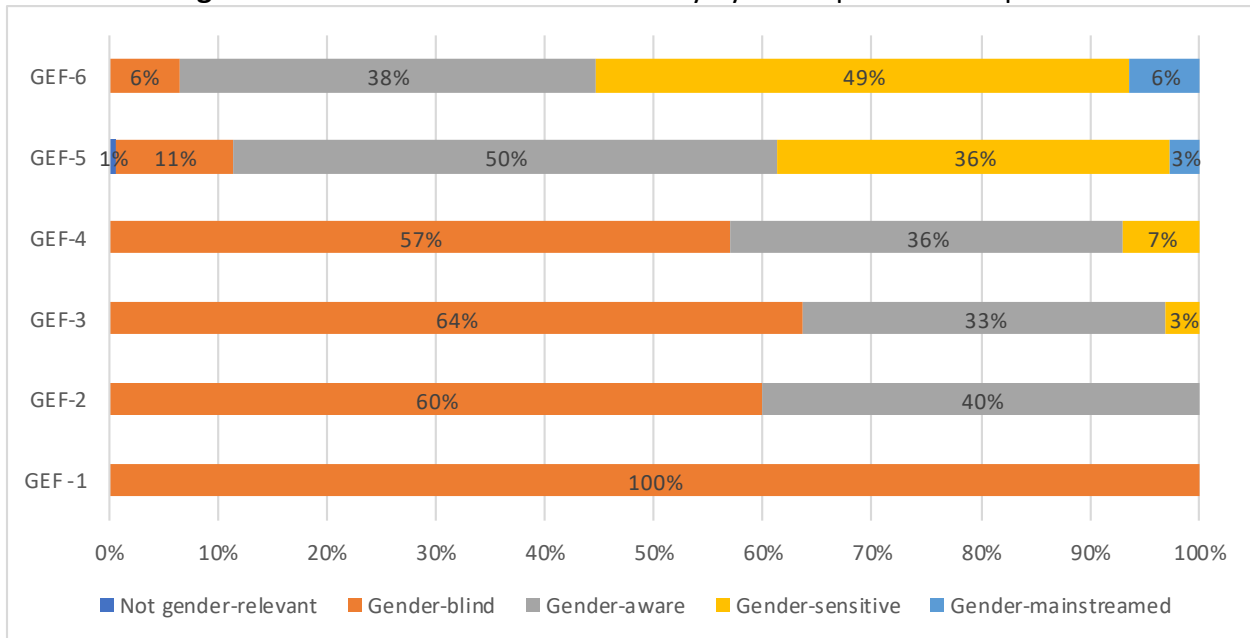
**Figure 17: Gender consideration by GEF Replenishment period**



100. **Consideration of gender improved over the GEF phases.** Projects in the biomes were reviewed at entry and at completion (for completed projects with terminal evaluations) using a classification followed in recent IEO analyses ([GEF IEO 2018a](#)). While over 60 percent of GEF-1 to GEF-3 projects were classified as gender blind, this percentage decreased to 11 percent in GEF-5 and to 6 percent in GEF-6, subsequent to the GEF Gender Mainstreaming Policy coming into effect in May 2011 ([GEF 2012](#)). Gender-sensitive projects increased substantially in GEF-5 and GEF-6 (Figure 18).

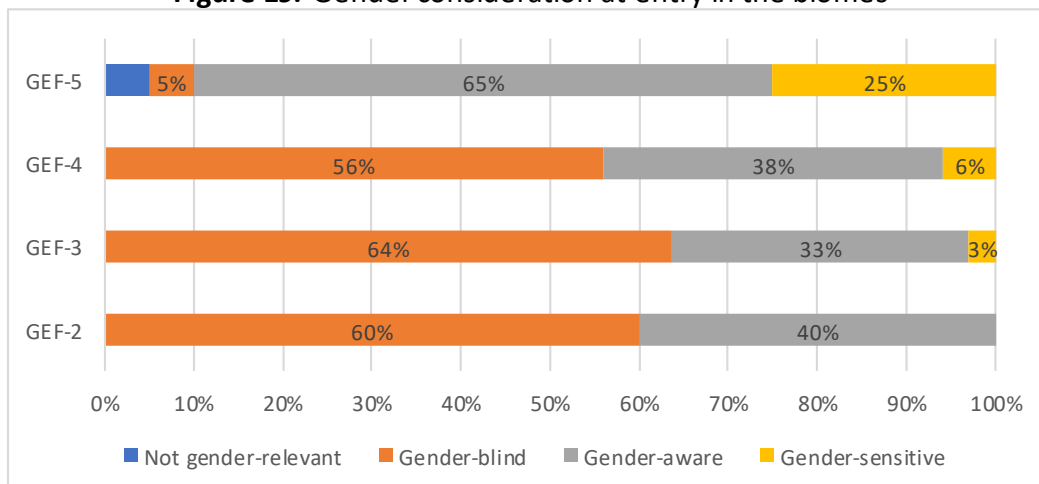


**Figure 18: Gender consideration at entry by GEF replenishment period**



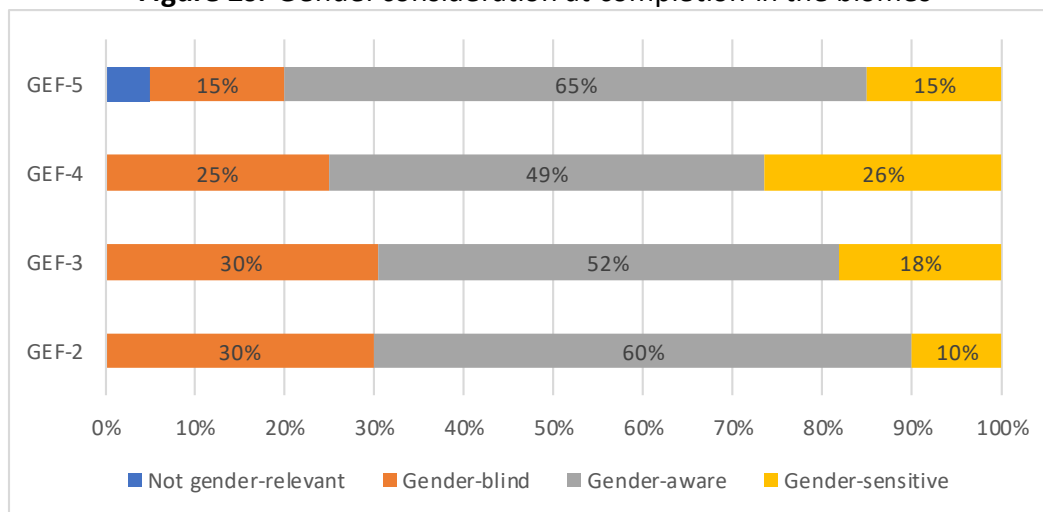
101. **Gender is being increasingly considered during project implementation even when not explicitly addressed at the design stage.** The GEF IEO's gender evaluation (GEF IEO 2018a) found that consideration of gender at the point of project completion had improved for GEF-1 to GEF-4 projects. The evaluation reported a decrease in number of gender-blind projects and an increase in the number of gender-aware projects, with some increase in gender-sensitive projects. Similarly, projects implemented in the biomes are taking gender into account during project implementation even when it had not been considered at design; this is evidenced by a comparison of gender consideration at project entry and completion. Figure 19 and Figure 20 show consideration of gender at entry and completion for projects with terminal evaluations ( $n = 134$ ). This comparison shows a shift toward projects being gender aware or gender sensitive at completion.

**Figure 19: Gender consideration at entry in the biomes**





**Figure 20: Gender consideration at completion in the biomes**



102. **Seventy percent of completed projects had evidence of women's inclusion and empowerment emerging during implementation.** Gender-disaggregated data in project documents tend to focus on the share of men and women as beneficiaries. No evidence of women being considered or consulted at the design stage emerged from the project documents reviewed.

103. **Case studies confirmed that, even when not designed explicitly with gender mainstreaming in mind, all the projects were implemented in a gender-sensitive manner.** Specifically, projects demonstrated clear evidence of women's inclusion and empowerment. Most frequently, women were involved in alternative livelihood activities. Despite countries being at different stages in their development of a gender policy, in general there is no hindrance for stronger gender considerations in GEF projects. Evidence from the Mali and Guinea case studies indicated that women-led alternative livelihood activities have been likely to be sustained. From discussions with stakeholders during site visits in Mali, socially positive impacts were evident. Women felt empowered, as their personal income increased through proceeds from livelihood activities introduced by the GEF projects. Most of these activities visited in Guinea project sites are run by women's groups, notably the gardening sites supported by the GEF. Continuation of these activities is partly supported by the government. The women's group in Tougny is a member of the government forum for gardening farmers and pays annual membership fee regularly. In return, the group receives technical assistance on horticulture as well as farming tools. Continuation of women-led gardening activities is also due to a strong interest and commitment on the part of the women themselves (Box 3).

### Box 3: The Mounafanyi Women Group—Mamou, Guinea

The women-owned market gardening group in Mounafanyi consists of 20 women who grow vegetables throughout the year. The group was created with support from the GEF's Community-based Land Management (GEF ID 1877) project. As of this writing, Mounafanyi has more than \$1,000 saved in its bank account. Using the revenues earned from gardening, the group has bought a piece of land to build an elementary school for the members' children. The women's cooperative association aims to contribute to the overall socioeconomic development of their communities. An agriculture extension technician residing in the village provides technical advice to the group, connecting the women to available government services for tools and seed supplies.

#### *Resilience*

104. Promoting resilience to climate shocks is critical to the geographic region covered by this evaluation, as demonstrated by the large and growing number of adaptation interventions, as well as the considerable amount of LDCF and SCCF funding in the two biomes. In the absence of an official GEF definition of resilience, this evaluation takes resilience to mean the capacity of social, economic, and environmental systems to cope with a hazardous event, responding or reorganizing in ways that maintain their essential function, identity, and structure, while also maintaining the capacity for adaptation, learning, and transformation (Béné et al. 2012).

105. Two resilience considerations have been examined in this evaluation. First, the analysis looked at how resilience is considered in the GEF portfolio in the two biomes, whether in terms of (1) risk management, (2) as a cobenefit, or (3) integrated into a multiple benefits framework as explained in Box 4 (STAP 2014). Second, the analysis looked at the core component of the resilience concept in resilience-focused projects, identifying whether resilience was viewed (1) in a static system/engineering sense, (2) as incremental change, or (3) as transformational change. Types of resilience thinking are outlined in

106. Box 5.

### Box 4: Climate resilience in the GEF

**Resilience as risk management:** A first level of response emerges from pure risk management considerations: sustained delivery of future global environmental benefits is at risk from climate change; therefore, projects ought to be screened for climate risks, and suitable risk management measures should be developed and adopted in project design and implementation. This would increase the resilience of the GEF portfolio to climate change. Such a de-risking approach is now being widely adopted by most multilateral and bilateral funding organizations, starting with the development and adoption of screening tools.

**Resilience as a cobenefit:** GEF focal area interventions offer the opportunity of enhancing resilience of human socioeconomic systems to climate change; it is therefore worth seeking resilience cobenefits of GEF focal area interventions, or in some cases, use approaches practiced in other focal areas, specifically for enhancing the climate resilience of human systems. This is the underlying logic of ecosystem-based adaptation, where ecosystem restoration serves as a means for reducing the vulnerability of human socioeconomic systems.

**Resilience integrated into a multiple benefits framework:** It is increasingly important to develop frameworks and approaches that allow multiple objectives and multiple benefits to be achieved simultaneously across social and natural systems. In this framing, resilience is not seen as an add-on (additional risk to be managed) or a cobenefit, but rather as a system property that needs to be considered together with all of the other system properties, and thus linked to the idea of sustainable development.

### Box 5: Types of resilience system thinking

**Resilience from a systems or engineering perspective (absorptive):** This was the original, relatively narrow focus of resilience; the ability of a system to bounce back or return to equilibrium following disturbance, referred to by Holling (1973) as “engineering resilience.” This comes down to absorptive (coping) capacity, which Cutter et al. (2008, p.663) defined as “the ability of the community to absorb event impacts using predetermined coping responses.”

**Resilience as incremental change (adaptive):** Adaptive resilience refers to the various adjustments (incremental changes) that people undergo in order to continue functioning without major qualitative changes in function or structural identity. These incremental adjustments and changes can take many forms (e.g., adopting new farming techniques, change in farming practices, diversifying livelihood bases, engaging in new social networks, etc). These adaptations can be individual or collective, and they can take place at multilevel (intrahousehold, groups of individuals/households, community, etc.).

**Resilience as transformational change (transformative):** Transformational changes often involve shifts in the nature of the system, the introduction of new state variables, and possibly the loss of others, such as when a household adopts a new direction in making a living or when a region moves from an agrarian to a resource extraction economy. It can be a deliberate process, initiated by the people involved, or it can be forced on them by changing environmental or socioeconomic conditions. What the growing body of literature that discusses transformational changes highlights is that the main challenges associated with transformation are not of a technical or technological nature only. Instead, as pointed out by Pelling (2011), these shifts may include a combination of technological innovations, institutional reforms, behavioral shifts, and cultural changes.

107. **Resilience is addressed in climate change adaptation projects mostly in the form of climate risk management and as a cobenefit.** Support to climate change adaptation through LDCF and SCCF funds aims to strengthen resilience and reduce vulnerability to the adverse impacts of climate change in GEF recipient countries. The GEF additionally supports the integration of climate adaptation into development. While all climate change adaptation projects under the LDCF/SCCF trust funds included resilience considerations, 37 percent of nonclimate change adaptation projects showed some evidence of resilience considerations. Resilience considerations in the terminal evaluations of projects completed between 2007 and 2014 focused on risk management and resilience as a cobenefit. When looking at the entire portfolio covered by this evaluation, spanning from GEF-4 to GEF-6, a move to resilience considerations being integrated within the project’s multiple benefits framework was observed. When present, resilience considerations and thinking were in the form of incremental change or in a static system/engineering sense.

108. Almost all the country case studies found evidence of resilience thinking in projects implemented in all five countries. In Mali, resilience considerations were integrated as an incremental change in the multiple benefits framework. The project Integrating Climate Resilience into Agricultural Production for Food Security in Rural Areas (GEF ID 3979) specifically contributed toward achievement of at least four of seven priorities for the agricultural sector contained in the national adaptation program of action. This included the development of an adaptation training package for rural populations, strengthening the resilience of local grain production systems to climate change through the dissemination of seeds adapted to changing climatic conditions, diversification of revenue sources in rural communities as a means to

enhance the food security of vulnerable households, and restoring soil fertility through climate-resilient techniques.

109. In Nigeria, resilience thinking in the completed GEF projects and in the two recent and ongoing projects is integrated as an incremental change in the multiple benefits framework. The SPWA-BD: Niger Delta Biodiversity Project (GEF ID 4090) aimed at increasing the ecological representation and ecosystem resilience of a system of state and community-based protected or specially managed areas. The project's strategic approach was to mainstream biodiversity management objectives into oil and gas laws, policies, and oil company operations to ensure that mainstreaming actions consider the Niger Delta's ecological integrity and sustainability. However, there are no clear linkages in project documents to country priorities on resilience, as such priorities have not been established or documented. The Great Green Wall (GGW): Nigeria Erosion and Watershed Management Project (GEF ID 4907) is another example of resilience thinking integrated into the multiple benefits framework as an incremental change. With the overall aim of reducing vulnerability to soil erosion in targeted sub-watersheds, the project supports the country's transformation agenda to achieve greater environmental and economic security.

110. Four of the projects reviewed in Guinea-Bissau have strengthened the resilience of the country and local communities to climate change and reduced their vulnerability to natural disasters and other shocks. Two of the projects completed between 2007 and 2014—Combating Living Resource Depletion and Coastal Area Degradation in the Guinea Current LME through Ecosystem-based Regional Actions (GEF ID 1188) and Adaptation to Climate Change - Responding to Shoreline Change and Its Human Dimensions in West Africa through Integrated Coastal Area Management (GEF ID 2614)—together with two more recent projects—Strengthening Resilience and Adaptive Capacity to Climate Change in Guinea-Bissau Agrarian and Water Sectors (GEF ID 4019) and Promoting Investments in Small and Medium Scale Renewable Energy Technologies in the Electricity Sector (GEF ID 5331)—have reduced Guinea-Bissau's fragility and improved national resilience to climate risks.

111. Surprisingly, no evidence of resilience thinking was found in GEF projects in Mauritania, where only the most recent project Improving Climate Resilience of Water Sector Investments with Appropriate Climate Adaptive Activities for Pastoral and Forestry Resources in Southern Mauritania (GEF ID 5190) described clear linkages with country priorities on resilience, with links to the national adaptation program of action and other country strategies in alignment with country priorities.

112. Of the countries visited, Uganda had by far the most developed policies and institutions dealing with climate resilience. Established in 2008, the Climate Change Department operates under the Ministry of Water and Environment and produces estimates of nationally determined contributions and prepares official government pronouncements to contribute to the international discussion on reduction of carbon emissions. Its Adaptation Section coordinates the implementation of adaptation and resilience projects within the country. Despite this

conducive national framework, however, climate resilience is only now beginning to be considered in projects. Notably, resilience was given some prominence in the Integrated Landscape Management for Improved Livelihoods and Ecosystem Resilience in Mount Elgon (GEF ID 5718) project and the SIP: Enabling Environment for SLM to Overcome Land Degradation in the Cattle Corridor of Uganda (GEF ID 3393) project. In the latter project, to reinforce landscape resilience, tree planting was integrated into the landscape to reduce wind speed and increase water retention. The technologies promoted through these projects help keep more water and nutrients in the soil, and conservation agriculture increases maximum use of resources and productivity. The projects also have further enhanced community resilience by organizing community members to undertake joint landscape management activities, while savings groups simultaneously seek to reduce land mortgaging for small loans.

### *Fragility*

**113. Overall, the analysis of outcome and sustainability ratings showed no difference between projects implemented in fragile countries in the biomes and those that were not.** Moreover, this evaluation found that financially viable and beneficiary-relevant alternative livelihood systems tended to continue even in countries experiencing fragility, conflict, and/or violence—especially when these are located away from capital cities where conflict tends to occur. These findings emerged from the analysis of the thirteen countries in the biomes that are or have been a country affected by Fragility, Conflict, and Violence in the last 10 years ([World Bank 2018](#)) (annex 4). The GEF has provided support in all of those countries, including through 44 completed projects, 11 of which were designed or implemented at the time when the country was not fragile. Of the remaining 33 projects, 28 were included in the APR 2019 terminal evaluation data set. Fifty-seven percent of those projects were rated in the satisfactory range for outcomes and 39 percent were rated as having outcomes likely to be sustained. These percentages are comparing to the sustainability cohort of national and regional interventions, where 59 percent of projects were rated in the satisfactory range for outcomes at the time and 39 percent for likely sustainability. When looking at the entire cohort covered by this evaluation (GEF-4 to GEF-6), there were a few cases in which implementation was interrupted because of the emergence of a fragile situation, but that the project continued when the situation returned back to normal. This was the case for 7 percent of GEF-4 to GEF-6 projects and 12 percent of those completed between 2007 and 2014.

**114. Fragility has affected the timely delivery of GEF support but has mostly not impacted the outcomes and sustainability of GEF support in the two biomes.** The evaluation had the opportunity to visit projects in three countries—Guinea, Mali, and Mauritania—that have been or are still in a fragile situation. The situation in Guinea directly affected timely delivery of GEF support. In 2008–10, there was an interruption of the Support Program for Village Communities World Bank project due to civil unrest following the president’s death; this forced the World Bank to suspend all operations in the country. The Community-based Land Management (GEF ID 1877) and the Coastal Marine and Biodiversity Management (GEF ID 1273) projects were

stopped as well, because they were hosted and executed through the World Bank's Support Program for Village Communities. Interviews with World Bank and government representatives indicated that this unforeseen interruption caused serious delays during implementation, but no other major consequences were discerned.

115. In Mali, the Biodiversity Conservation and Participatory Sustainable Management of Natural Resources in the Inner Niger Delta and Its Transition Areas, Mopti Region (GEF ID 1152) had delays in implementation of its agreement with the government's funding arm for local development (Agence Nationale d'Investissement des Collectivités Territoriales), and the political crisis in the project area in 2012 and 2013 greatly penalized the financing of the microprojects. As a result, following the supervisory mission in April 2013, 22 contracts amounting CFAF 110 million (\$182,350) were canceled, but other activities continued, as reported in the project's terminal evaluation. Other projects visited continued operations despite the fragile situation.

116. Mauritania was at one time in 2007 classified with marginal fragility, and its experience demonstrates how insecurity in the region can negatively affected project outcomes. During implementation of the Mauritania component of the regional project Enhancing Conservation of the Critical Network of Sites Required by Migratory Waterbirds on the African/Eurasian Flyways (GEF ID 1258), the stated objective of growing equitable biodiversity-friendly tourism by increasing park revenues was negatively affected by unexpected insecurity issues and political instability linked to the events of August 2008, as well as a number of foreign terrorist attacks on European visitors in other parts of the country. These events brought about a major reduction in tourist numbers and revenues to the entire country—a situation from which, as observed during the field verification mission, Mauritania has not yet fully recovered.

117. **The negative effects of emerging fragile situations have not affected profitable and beneficiary-relevant Alternative Livelihood Activities in the biomes.** Even in countries such as Mali that have been fragile for many years, financially viable and beneficiary-relevant alternative livelihood activities tend to continue. This finding further informs the discussion of this evaluation on context-related factors that potentially hinder the likelihood of sustainability of outcomes from GEF-supported projects. The Gourma Biodiversity Conservation (GEF ID 1253) project in Mali demonstrated that alternative income-generation activities under individual household control (market gardens, small ruminants, credit associations) seem to have worked—and are still working in the current insecurity situation.

#### *Private Sector*

118. Although not initially identified as a cross-cutting issue to be investigated in this evaluation, the private sector emerged from case study analysis as a potentially important cross-cutting element of GEF interventions with an influence on sustainability. The decision was thus made to take a closer look at private sector engagement in GEF-supported projects in the biomes.

119. **The private sector has had limited involvement in GEF projects in the biomes; when involved, it has contributed to sustainability and trade-offs.** Fifty-six percent of the projects reviewed in this evaluation showed evidence of some form of private sector engagement in the two biome countries. Projects engaged with the private sector either as a stakeholder (32 percent) or for input on project design to promote buy-in from inception (18 percent). Only 15 percent of projects engaged with the private sector during the design stage to secure cofinancing. Of these, only two project terminal evaluations reported evidence of private sector cofinancing provided after project completion. As to involvement during implementation, 25 percent of projects showed evidence of having established public-private partnerships. Fifteen percent of these partnerships were established in the context of existing country regulatory frameworks that enable the private sector to address environmental issues.

120. In the Guinea-Bissau country case study, the private sector was engaged only in the procurement of goods and services for the project itself. In contrast, in Uganda, the private sector was included to help with project sustainability. Specifically, the Protected Areas Management and Sustainable Use (GEF ID 1830) project increased private sector investment in park facilities. The private sector was persuaded to develop infrastructure in the parks, such as hotels and camps in the reserve areas, thus generating income and employing local community members. This action enhanced the nexus between environmental conservation and increased income for the private sector, as well as for local government districts through the levy of hotel taxes.

121. The evaluation of GEF support on national environmental laws and policies in selected countries demonstrated the importance of legal reforms and frameworks in paving the way for the private sector to operate in countries ([GEF IEO 2018d](#)). An example in the biomes is the Lighting Africa Program Expansion (GEF ID 4495), which demonstrated the importance of GEF support to legal and regulatory frameworks in stimulating the engagement of the private sector. Created to transform the off-grid market by removing barriers and providing market intelligence, the program improved the enabling environment by developing a quality assurance infrastructure; facilitating business-to-business interactions; helping governments address policy barriers; providing business development services; and facilitating access to finance for manufacturers, local distributors, and other stakeholders.

## 4. CONCLUSIONS AND LESSONS

### 4.1 Conclusions

122. The Sahel and Sudan-Guinea Savanna biomes experience severe environmental challenges, driven by climate change among the major underlying causes. The most common challenges are deforestation and land degradation, biodiversity loss, and desertification. Other important challenges in the two biomes include water quality/quantity threats and threats to in-land as well as coastal marine water resources, mining, and natural disasters. The pressing socioeconomic needs of a rapidly growing population compound the challenges at hand. Degradation of agricultural lands coupled with the high variability of rainfall poses obstacles to the food security and poverty reduction efforts in the region.

123. Against this background of constraints, this evaluation examined the relevance, performance, and sustainability of GEF interventions based on a desk review of the GEF project portfolio in the 23 biome countries from GEF-4 to GEF-6, and on five in-depth country case studies selected based on the aggregate and geospatial analysis of the portfolio under review. The evaluation took a closer look at the determinants of sustainability by focusing on a cohort of projects completed between 2007 and 2014. This approach allowed for enough time after completion – five years for outcome sustainability– to be robustly re-visited and assessed. The evaluation questions were answered through a mixed-methods approach using both quantitative and qualitative analytical tools. This evaluation has reached the following conclusions, presented hereafter under six main headings corresponding to the main themes embedded in the evaluation questions.

#### *Overall Relevance to Country Environmental Priorities*

124. **GEF support to the Sahel and Sudan-Guinea Savanna biomes increased consistently since the pilot phase onwards.** Over the years, the Sahel and Sudan-Guinea Savanna countries have substantially benefited from GEF investments. From the pilot phase onwards, GEF support doubled every two replenishment periods, reaching over \$600 million both in GEF-5 and GEF-6. Support continues to be strong, having reached \$220 million plus an equivalent amount of additional set-aside funds at midway through GEF-7. GEF finance has leveraged several times the allocated STAR grants in additional cofinancing resources for its interventions.

125. **GEF support addresses the main environmental challenges faced by countries in the two biomes, and there are no major gaps.** This evaluation concludes that GEF support is well aligned and highly relevant to national environmental priorities in the two biomes' countries. Most of the GEF support to these countries has focused on climate change, the underlying cause of most environmental challenges in the biomes. Seventy-eight percent of the climate change focal area support in the two biomes is invested in support to adaptation. Land degradation started to be addressed in GEF-4 through focal area-specific support and continued afterwards mainly through multifocal area interventions. Review of project documents in the



Sahel and Sudan-Guinea Savanna biomes portfolio and interviews with GEF focal points in case study countries strongly confirmed that GEF interventions are well aligned with the governments' environmental priorities in the Sahel and Sudan-Guinea Savanna. Staffs from the ministries of environment and related government institutions indicated that the GEF is an important source of environment funding contributing to national sustainable development planning. In the areas of institutional development and governance, an area in high need of both financial and technical support in the biomes and where the GEF concentrates most of its efforts, more than half of the projects reviewed focus on policy frameworks and skills building. Both areas, much in need in the biomes, can benefit from the institutional support provided by the GEF, which has largely demonstrated its comparative advantage and additionality in the other world regions where it intervenes.

*Relevance of the Financial and Technical Support Offered by the GEF to Countries in the two Biomes (Modality, Array of Services Offered by GEF Agencies, Intervention Typologies)*

**126. Relevance of GEF support has not been affected by the GEF move toward integrated programming, including through multifocal projects and programmatic approaches.** Although investment in programs initially increased in GEF-4 and substantially decreased in GEF-5 and GEF-6, programs and their respective child projects are becoming larger in size, and a move from single focal area toward multifocal interventions is observed in the two biomes. This trend signals an important change in the way GEF programs are designed and implemented in this region, which is reflective of the GEF's move toward integrated programming to achieve impact at scale and address the main drivers of environmental degradation. The increase in size of child projects is viewed favorably by country stakeholders, who tend to view projects in terms of the direct benefits they generate within the national boundaries.

**127. There has been an expansion of coverage with new Agencies in the biome countries, a positive development in terms of more choice for countries and more diversity of expertise.** A shift toward more diversity in GEF Agencies is observed from GEF-4 onward in the two biomes. This culminated in GEF-7, where for the first time in GEF history, the cumulative portfolio share of the three original GEF Agencies, UNDP, UNEP, and the World Bank, has gone under 50 percent. However, no clear trend emerges when considering GEF Agency's comparative advantage in terms of specialized technical knowledge. Most Agencies active in the Sahel and Sudan-Guinea Savanna biomes have a rather diversified portfolio that covers all GEF focal areas. Importantly, countries select GEF Agencies based on a larger set of attributes than just their technical area of specialization, including, among other factors, the history of engagement between the GEF Agency and the country in which the project is going to be implemented.

*Overall Performance and Sustainability*

**128. Projects in the two biomes and in Africa are overall rated lower than the overall GEF portfolio.** According to an analysis of the most recent APR available data from the 2019 cohort, completed projects in the Sahel and Sudan-Guinea Savanna biomes were rated lower in

terminal evaluations than projects in the Africa region and lower still than the overall GEF portfolio on all performance indicators. The same trend is observed when focusing on the two rating dimensions of interest in this evaluation, namely outcomes and sustainability. This finding supports previous findings from IEO performance as well as country portfolio analyses in SSA. Whereas projects in Africa tend to have lower ratings, more recent terminal evaluations of GEF-4 to GEF-6 projects in the biomes reported higher project ratings than those reported in terminal evaluations of earlier projects completed between 2007 and 2014, which is promising.

**129. While 85 percent of multifocal projects had higher outcomes, only 38 percent had ratings in the satisfactory range for their likely sustainability.** The multifocal cohort is the one that was rated the lowest compared with single focal area cohorts. Otherwise, the broader adoption analysis of completed projects reviewed for sustainability in the biomes indicates that for 73 percent of these projects no action was taken during implementation to stimulate broader adoption of outcomes postcompletion. Clearly, there is room for improvement on fostering broader adoption and likelihood of sustainability of project outcomes through consideration of sustainability measures at design in the biomes, especially in multifocal interventions. This is particularly important in consideration of the GEF move toward integrated programming and multifocal support.

**130. Demonstrating sustainability takes time.** A large part of the data gathering and analysis effort in this evaluation has focused on understanding what happens to the outcomes of GEF interventions a few years after completion. The results of this analysis confirmed a similar finding from both the APR 2017 and the recently completed SIDS SCCE, namely that projects tend to show higher observed sustainability of outcomes at postcompletion than at terminal evaluation stage. While it's plausible that as time goes by, context related factors increasingly come into play as compared to project related ones, field observations in this evaluation underscored the importance of designing projects with due consideration of measures fostering the likely sustainability of outcomes postcompletion.

#### *Factors of Sustainability*

**131. Financial sustainability is an issue in SSA overall, which is particularly challenging in the biomes.** This evaluation has found financial sustainability in the biome countries as the weakest among four dimensions, namely the financial, institutional, environmental and political. Likelihood of financial sustainability goes from 72 percent in the overall GEF-4 to GEF-6 portfolio down to 57 percent in Africa and 46 percent in the two biomes' countries. Limited or lack of postproject financing has been confirmed as a major context-related hindering factor in five out of the six country case studies. These findings reiterate the importance of planning already at the design stage for setting up viable financial mechanisms and measures that take over from where the project outcomes left at completion and continue delivering benefits over time. Financial considerations are important also where strengthening of local institutions and capacities has succeeded. Despite the likelihood of institutional sustainability was the highest ranked sustainability dimension both in Africa and in the biomes (i.e., above 80 percent in both

cohorts), case studies pointed at several examples where the institutions have been strengthened but stopped short of funding postcompletion and could not continue operating.

132. **Context-sensitive, technologically appropriate project design positively affects the sustainability of outcomes in the biomes.** Design that promotes sustainability takes into due consideration the country socioeconomic and political context as well as the local conditions and knowledge, and includes measures and activities designed to support from both the financial and institutional standpoint the continued delivery of outcomes postcompletion. Field observations in this evaluation met with successful designs that included long-lasting infrastructure investments requiring limited associated operating costs, as well as missed opportunities from substantial investments in skills and capacities where the trainees cannot apply what they earned due to lack of funds postcompletion.

133. **Designing profitable beneficiary-relevant alternative livelihood activities and working with existing institutions to include environmental considerations in local development plans emerged as new project-related sustainability factors in the biomes.** These factors, not highlighted in previous IEO's sustainability assessments, emerged both from the review of terminal evaluations of sustainability cohort projects and the postcompletion verifications conducted in the countries visited by this evaluation. Several country study examples—both in terms of successes as well as failures—confirmed the importance of designing profitable alternative livelihood activities that correspond as much as possible to the real needs in the everyday lives of beneficiaries. Small infrastructure operations and maintenance have demonstrated the dependence on it being within the financial reach of households. Local authorities met in Mali, Guinea and Guinea Bissau included environmental conservation activities in their commune and/or municipality sustainable development plans and budgets.

134. **Not much consideration is given at project design to the influence that synergies and tradeoffs between socioeconomic and environmental objectives have on the prospects for sustainability in the biomes.** While in general the socioeconomic priorities are considered by GEF interventions in the biomes, only a small percentage of design documents of projects in the relevance cohort discuss how to address synergies or mitigate tradeoffs between short- and long-term, environment, and development objectives. As highlighted in the introductory paragraphs of this conclusion chapter, in addition to sharing many common environmental challenges, the 23 countries in the two biomes also face pressing socioeconomic challenges, affecting the severity of the environmental issues at hand. National infrastructure and socioeconomic development investments are often given priority over environmental conservation initiatives. It is not surprising that findings from case studies and interviews conducted in this evaluation consistently indicate the importance of nexus thinking between environmental and socioeconomic objectives and between short-term and long-term planning in enhancing sustainability. Field observations provide several examples demonstrating that when alternate livelihood systems with a clear, positive environment/socioeconomic nexus were in place, the chances of sustainability of the environmental benefits generated by GEF

interventions was greater.

#### *Gender and Resilience*

135. **Gender considerations are increasingly incorporated within GEF interventions in the two biomes.** Consistent with similar findings of previous IEO analyses, this evaluation confirms that in the two biomes' countries, gender is considered during project implementation even when not specifically addressed at the design stage. This is demonstrated by the comparison between gender considerations assessed at entry and at completion, as well as from many examples field-verified in all the five country case studies. Gender considerations are important also in the discussion on factors for outcome sustainability. This evaluation has brought forward several examples confirming that when alternative livelihood activities were led by women, they tended to be more sustainable compared with men-controlled ones.

136. **Resilience to climate risks is addressed in climate change adaptation projects mostly in the form of climate risk management and as a cobenefit.** Promoting resilience to climate risks is a key aspect in the geographic region covered by this evaluation, as demonstrated by the large and growing number of adaptation interventions as well as the considerable amount of LDCF and SCCF funding in the two biomes. When looking at the entire portfolio covered by this evaluation, spanning from GEF-4 to GEF-6, a move to resilience considerations being integrated within the project's multiple benefits framework is observed. Resilience considerations in the sustainability cohort projects focused on risk management and resilience as a cobenefit. Newer GEF projects, no matter the source of funding being from the main GEF Trust Fund, the LDCF or the SCCF, integrated resilience within the project's multiple benefits framework.

#### *Fragility*

137. **Fragility has affected the timely delivery of GEF support but has mostly not impacted outcomes and sustainability of GEF support in the two biomes.** Overall, the outcome and sustainability ratings show no difference between projects implemented in fragile countries in the biomes and those that were not. As observed in country visits in Mali, Guinea, and Mauritania, country insecurity and emergence of fragile situations can significantly delay implementation and outcomes. However, activities such as alternate livelihood systems that demonstrate to be financially viable and beneficiary-relevant tend to continue, especially when these are located away from capital cities. The negative effects of a sociopolitical crisis tend to occur in the capital and other urban areas, where most of the population resides. This evaluation found several examples in which the negative effects of suddenly emerged fragile situations have tended to be less felt in rural areas, on activities with a clear and tangible financial viability, and a high correspondence with a beneficiary need.

### 4.1 Lessons

138. A number of lessons can be derived from the above findings and conclusions to inform future GEF programming in the Sahel and Sudan-Guinea Savanna biomes. Among these, the

following three lessons are particularly important at the project design stage: (1) Give due consideration to sustainability factors in project design and track them during implementation, (2) Take particular attention to financial sustainability in project design; and (3) Foster the synergies and mitigate the tradeoffs between environment and development objectives. A more general, yet equally important lesson is that the GEF should pay attention to the nature and degree of multidimensionality it incorporates in the design of its multifocal interventions, especially as it goes toward integrated programming to scale up and address the main drivers of environmental degradation. Most if not all these lessons have wider applicability to all the world regions where the GEF intervenes. The full range of lessons generated by this evaluation will feed into the seventh comprehensive evaluation of the GEF.

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# ANNEX 1: LIST OF PROJECTS REVIEWED

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
1234	WB	Benin	Guinean-Savannah	Community-based Coastal and Marine Biodiversity Management Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3704	UNDP	Benin	Guinean-Savannah	Integrated Adaptation Programme to Combat the Effects of Climate Change on Agricultural Production and Food Security	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3770	UNDP	Benin	Guinean-Savannah	SPWA-BD: Incorporation of Sacred Forests into the Protected Areas System of Benin	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4756	FAO	Benin	Guinean-Savannah	Disposal of POPs and Obsolete Pesticides and Strengthening Life-cycle Management of Pesticides	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5002	UNDP	Benin	Guinean-Savannah	Strengthening Climate Information and Early Warning Systems in Western and Central Africa for Climate Resilient Development and Adaptation to Climate Change	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
5215	WB	Benin	Guinean-Savannah	GGW: Forests and Adjacent Lands Management Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5232	AfDB	Benin	Guinean-Savannah	Flood Control and Climate Resilience of Agriculture Infrastructures in Oueme Valley	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5431	UNDP	Benin	Guinean-Savannah	Strengthening the Resilience of the Energy Sector in Benin to the Impacts of Climate Change	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5752	UNDP	Benin	Guinean-Savannah	Promotion of Sustainable Biomass-based Electricity Generation in Benin	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5807	UNEP	Benin	Guinean-Savannah	Preparation of Benin's First Biennial Update Report (BUR1) to UNFCCC	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
6974	AfDB	Benin	Guinean-Savannah	Improving Mobility in Parakou	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance
1063	WB	Cameroon	Guinean-Savannah	Forest and Environment Development Policy Grant (FEDPG)	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2549	WB	Cameroon	Guinean-Savannah	Sustainable Agro-Pastoral and Land Management Promotion under the National Community Development Program Support Program (PNDP)	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3821	FAO	Cameroon	Guinean-Savannah	CBSP Sustainable Community Based Management and Conservation of Mangrove Ecosystems in Cameroon	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4084	WB	Cameroon	Guinean-Savannah	CBSP Conservation and Sustainable Use of the Ngoyla Mintom Forest	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4641	FAO	Cameroon	Guinean-Savannah	Disposal of POPs and Obsolete Pesticides and Strengthening Sound Pesticide Management	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4674	UNEP	Cameroon	Guinean-Savannah	Support to Cameroon for the Revision of the NBSAPs and Development of Fifth National Report to the CBD	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
4739	UNEP	Cameroon	Guinean-Savannah	Participative Integrated Ecosystem Services Management Plans for Bakassi Post Conflict Ecosystems (PINESMAP-BPCE)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
4785	UNIDO	Cameroon	Guinean-Savannah	Promoting Integrated Biomass and Small Hydro Solutions for Productive Uses in Cameroon	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4800	FAO	Cameroon	Guinean-Savannah	Sustainable Forest Management under the Authority of Cameroonian Councils	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5060	UNEP	Cameroon	Guinean-Savannah	Developing Core Capacity for MEA Implementation in Cameroon	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5210	UNEP	Cameroon	Guinean-Savannah	Sustainable Farming and Critical Habitat Conservation to Achieve Biodiversity Mainstreaming and Protected Areas Management Effectiveness in Western Cameroon SUFACHAC	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5263	AfDB	Cameroon	Guinean-Savannah	Enhancing the Resilience of Poor Communities to Urban Flooding in Yaounde	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5367	UNEP	Cameroon	Guinean-Savannah	PCB Reduction In Cameroon Through The Use Of Local Expertise And The Development Of National Capacities	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5796	UNDP	Cameroon	Guinean-Savannah	A Bottom Up Approach to ABS: Community Level Capacity Development for Successful Engagement in ABS Value Chains in Cameroon (Echinops giganteus)	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
9116	AfDB	Cameroon	Guinean-Savannah	Promoting Access to Renewable Energy and Development of IT Tools for	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Rural Communities of Cameroon				
9155	UNDP	Cameroon	Guinean-Savannah	Integrated and Transboundary Conservation of Biodiversity in the Basins of the Republic of Cameroon	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
9172	UNEP	Cameroon	Guinean-Savannah	Development of Minamata Initial Assessment in Cameroon	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9470	AfDB	Cameroon	Guinean-Savannah	LCB-NREE Cameroon child project: Improving Agro-Pastoral Systems in the Far North Region of Cameroon	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
5163	UNIDO	Central African Republic	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5504	AfDB	Central African Republic	Guinean-Savannah	Reducing Rural and Urban Vulnerability to Climate Change by the Provision of Water Supply	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
9532	AfDB	Central African Republic	Guinean-Savannah	LCB-NREE CAR child project: Enhancing Agro-ecological Systems in Northern Prefectures of the Central African Republic (CAR)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
3533	WB	Cote d'Ivoire	Guinean-Savannah	Protected Area Project (Projet d'Appui a la Relance de la Conservation des Parcs et Reserves, PARC-CI)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3876	UNEP	Cote d'Ivoire	Guinean-Savannah	SPWA-CC: Promotion of Energy Efficiency Lighting in Public, Commercial and Residential Buildings	GEF-4 (2006-2010)	Medium-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
4005	UNIDO	Cote d'Ivoire	Guinean-Savannah	SPWA-CC: Promoting Renewable Energy-based Grids in Rural Communities for Productive Uses	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4693	UNEP	Cote d'Ivoire	Guinean-Savannah	Support to Cote d'Ivoire for the Revision of the NBSAPs and Development of Fifth National Report to the CBD	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
4970	UNEP	Cote d'Ivoire	Guinean-Savannah	Integrated Management of Protected Areas in Cote d'Ivoire, West Africa	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5101	UNDP	Cote d'Ivoire	Guinean-Savannah	Strengthened Environmental Management Information System for Coastal Development to Meet Rio Convention Objectives	GEF-5 (2010-2014)	Medium-sized project	Completed / Closed	Relevance
5362	WB	Cote d'Ivoire	Guinean-Savannah	Obsolete Pesticides Management Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5500	UNIDO	Cote d'Ivoire	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5788	UNEP	Cote d'Ivoire	Guinean-Savannah	Assessment of Land Degradation Dynamic in Coffee-Cocoa Production and Northern Ivory Coast to Promote SLM Practices and Carbon Stock Conservation ALDD SLM CSC	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
9130	AfDB	Cote d'Ivoire	Guinean-Savannah	Cities-IAP: Abidjan Integrated Sustainable Urban Planning and Management	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
2794	WB	Ethiopia	Guinean-Savannah	SIP: Country Program for Sustainable Land Management (ECPSLM)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3154	UNDP	Ethiopia	Guinean-Savannah	Coping with Drought and Climate Change	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3367	IFAD	Ethiopia	Guinean-Savannah	SIP: Community-Based Integrated Natural Resources Management in Lake Tana Watershed	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3736	UNDP	Ethiopia	Guinean-Savannah	Mainstreaming Agro-biodiversity Conservation into the Farming Systems of Ethiopia	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4091	UNEP	Ethiopia	Guinean-Savannah	Capacity Building for Access and Benefit Sharing and Conservation and Sustainable Use of Medicinal Plants	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4222	UNDP	Ethiopia	Guinean-Savannah	Promoting Autonomous Adaptation at the community level in Ethiopia	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4992	UNDP	Ethiopia	Guinean-Savannah	Strengthening Climate Information and Early Warning Systems to Support Climate Resilient Development and Adaptation to Climate Change	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
5040	UNIDO	Ethiopia	Guinean-Savannah	Investment Promotion on Environmentally sound Management of Electrical and Electronic Waste: Up-Scale and Promotion of Activities and Initiatives on Environmentally Sound Management of Electrical and Electronic Waste.	GEF-5 (2010-2014)	Medium-sized project	Completed / Closed	Relevance
5107	UNIDO	Ethiopia	Guinean-Savannah	Enabling Activities to Review and Update the National	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)				
5220	WB	Ethiopia	Guinean-Savannah	PSG: Sustainable Land Management Project 2	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5440	UNDP	Ethiopia	Guinean-Savannah	Mainstreaming Incentives for Biodiversity Conservation in the Climate Resilient Green Economy Strategy (CRGE)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5501	UNDP	Ethiopia	Guinean-Savannah	Promoting Sustainable Rural Energy Technologies (RETs) for Household and Productive Uses	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
6967	UNDP	Ethiopia	Guinean-Savannah	CCA Growth: Implementing Climate Resilient and Green Economy plans in highland areas in Ethiopia	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9048	UNDP	Ethiopia	Guinean-Savannah	Ethiopian Urban NAMA: Creating Opportunities for Municipalities to Produce and Operationalise Solid Waste Transformation (COMPOST)	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9135	UNDP	Ethiopia	Guinean-Savannah	Food-IAP: Integrated Landscape Management to Enhance Food Security and Ecosystem Resilience	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9157	UNDP	Ethiopia	Guinean-Savannah	Enhanced Management and Enforcement of Ethiopia's Protected Areas Estate	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
1067	WB	Gambia	Guinean-Savannah	Integrated Coastal and Marine Biodiversity Management	GEF-2 (1998-2002)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3135	UNEP	Gambia	Guinean-Savannah	Adoption of Ecosystem Approach for Integrated	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Implementation of MEAs at National and Divisional Level				
3368	AfDB	Gambia	Guinean-Savannah	SIP: Participatory Integrated Watershed Management Project (PIWAMP)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3728	UNEP	Gambia	Guinean-Savannah	Strengthening of The Gambia's Climate Change Early Warning Systems	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3922	UNIDO	Gambia	Guinean-Savannah	SPWA-CC: Promoting Renewable Energy Based Mini Grids for Productive Uses in Rural Areas in The Gambia	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3961	WB	Gambia	Guinean-Savannah	SPWA - The Gambia Biodiversity Management and Institutional Strengthening Project	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
4724	UNDP	Gambia	Guinean-Savannah	Enhancing Resilience of Vulnerable Coastal Areas and Communities to Climate Change in the Republic of Gambia	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5071	UNEP	Gambia	Guinean-Savannah	Strengthening Climate Services and Early Warning Systems in the Gambia for Climate Resilient Development and Adaptation to Climate Change – 2nd Phase of the GOTG/GEF/UNEP LDCF NAPA Early Warning Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5406	FAO	Gambia	Guinean-Savannah	Community-Based Sustainable Dryland Forest Management	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5529	UNDP	Gambia	Guinean-Savannah	Gambia Protected Areas Network and Community Livelihood Project	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance



Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5609	UNIDO	Gambia	Guinean-Savannah	Greening the Productive Sectors in Gambia: Promoting the Use and Integration of Small to Medium Scale Renewable Energy Systems in the Productive Uses	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5782	FAO	Gambia	Guinean-Savannah	Adapting Agriculture to Climate Change in the Gambia	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
136	WB	Ghana	Guinean-Savannah	Natural Resource Management	GEF -1 (1994-1998)	Full-sized project	Completed / Closed	Relevance and Sustainability
777	WB	Ghana	Guinean-Savannah	Northern Savanna Biodiversity Conservation (NSBC) Project	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
2183	WB	Ghana	Guinean-Savannah	Community-based Integrated Natural Resources Management Project in Okyeman	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2402	UNDP	Ghana	Guinean-Savannah	Sustainable Land Management for Mitigating Land Degradation, Enhancing Agricultural Biodiversity and Reducing Poverty (SLaM)	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2785	UNDP	Ghana	Guinean-Savannah	Capacity Building for PCB Elimination	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3004	UNEP	Ghana	Guinean-Savannah	Review of the National Biodiversity Strategy, Development of the Action Plan and Participation in the National Clearing House Mechanism	GEF-4 (2006-2010)	Enabling activity	Council Approved	Relevance
3126	UNDP	Ghana	Guinean-Savannah	Establishing an Effective and Sustainable Structure for Implementing Multilateral Environmental Agreements	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
3218	UNDP	Ghana	Guinean-Savannah	Integrating Climate Change into the Management of Priority Health Risks	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3369	WB	Ghana	Guinean-Savannah	SIP: Sustainable Land Management in Ghana	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3836	WB	Ghana	Guinean-Savannah	SPWA-BD: Management of Riparian Biological Corridors	GEF-4 (2006-2010)	Medium-sized project	Under Implementation	Relevance
4368	IFAD	Ghana	Guinean-Savannah	Promoting Value Chain Approach to Adaptation in Agriculture	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
4528	WB	Ghana	Guinean-Savannah	West Africa Regional Fisheries Program in Ghana	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
5138	UNEP	Ghana	Guinean-Savannah	Support to Ghana for the Revision of the National Biodiversity Strategy and Action Plan (NBSAPs and Development of Fifth National Report to the Convention on Biological Diversity (CBD)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5221	WB	Ghana	Guinean-Savannah	PSG-Additional financing - Sustainable Land and Water Management Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5445	UNEP	Ghana	Guinean-Savannah	Preparation of Ghana's Initial Biennial Update Report to UNFCCC	GEF-5 (2010-2014)	Enabling activity	Council Approved	Relevance
9171	UNEP	Ghana	Guinean-Savannah	Enabling Preparation of Ghana's Fourth National Communication (NC4) and Second Biennial Update Report (BUR2) to UNFCCC	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9340	WB	Ghana	Guinean-Savannah	Food-IAP: Sustainable Land and Water Management Project, Second Additional Financing	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
9381	UNDP	Ghana	Guinean-Savannah	Development of Minamata Convention Initial Assessment (MIA) for Ghana	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
8	WB	Guinea	Guinean-Savannah	Rural Energy	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
1273	WB	Guinea	Guinean-Savannah	Coastal Marine and Biodiversity Management	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1877	WB	Guinea	Guinean-Savannah	Community-based Land Management	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3703	UNDP	Guinea	Guinean-Savannah	Increased Resilience and Adaptation to Adverse Impacts of Climate Change in Guinea's Vulnerable Coastal Zones	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3958	UNIDO	Guinea	Guinean-Savannah	SPWA-CC: Promoting Development of Multi-Purpose Mini-hydro Power Systems	GEF-4 (2006-2010)	Medium-sized project	Under Implementation	Relevance
4667	UNDP	Guinea	Guinean-Savannah	National Biodiversity Planning to Support the Implementation of the CBD 2011-2020 Strategic Plan in Guinea	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
4692	UNDP	Guinea	Guinean-Savannah	Strengthening Resilience of Farming Communities' Livelihoods against Climate Changes in the Guinean Prefectures of Gaoual, Koundara and Mali	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
5041	UNDP	Guinea	Guinean-Savannah	Strengthening Decentralized Management of the Environment to Meet Rio Convention Objectives	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5153	UNIDO	Guinea	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on	GEF-5 (2010-2014)	Enabling activity	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Persistent Organic Pollutants (POPs)				
5289	UNDP	Guinea	Guinean-Savannah	Developing a Market for Biogas Resource Development and Utilization in Guinea	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5382	UNDP	Guinea	Guinean-Savannah	Ecosystem-Based Adaptation Targeting Vulnerable Communities of the Upper Guinea Region	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
1221	WB	Guinea-Bissau	Guinean-Savannah	Coastal and Biodiversity Management Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3575	UNDP	Guinea-Bissau	Guinean-Savannah	SPWA-BD: Support for the Consolidation of a Protected Area System in Guinea-Bissau's Forest Belt	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3817	WB	Guinea-Bissau	Guinean-Savannah	SPWA-BD: Guinea Bissau Biodiversity Conservation Trust Fund Project	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
4019	UNDP	Guinea-Bissau	Guinean-Savannah	Strengthening Resilience and Adaptive Capacity to Climate Change in Guinea-Bissau's Agrarian and Water Sectors	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
5331	UNIDO	Guinea-Bissau	Guinean-Savannah	Promoting Investments in Small to Medium Scale Renewable Energy Technologies in the Electricity Sector	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5368	UNDP	Guinea-Bissau	Guinean-Savannah	Strengthening the Financial and Operational Framework of the National PA System in Guinea-Bissau	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
1475	WB	Liberia	Guinean-Savannah	Establishing the Basis for Biodiversity Conservation on Sapo National Park and in South-East Liberia	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
3284	WB	Liberia	Guinean-Savannah	Consolidation of Liberia's Protected Area Network	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3837	WB	Liberia	Guinean-Savannah	SPWA-BD: Biodiversity Conservation through Expanding the Protected Area Network in Liberia (EXPAN)	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3885	UNDP	Liberia	Guinean-Savannah	Enhancing Resilience of Vulnerable Coastal Areas to Climate Change Risks	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3944	UNIDO	Liberia	Guinean-Savannah	SPWA-CC: Installation of multi purpose mini-hydro infrastructure (for energy & irrigation )	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4268	UNDP	Liberia	Guinean-Savannah	Enhancing Resilience to Climate Change by Mainstreaming Adaption Concerns into Agricultural Sector Development in Liberia	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4950	UNDP	Liberia	Guinean-Savannah	Strengthening Liberia's Capability to Provide Climate Information and Services to Enhance Climate Resilient Development and Adaptation to Climate Change	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5108	UNIDO	Liberia	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5712	CI	Liberia	Guinean-Savannah	Improve Sustainability of Mangrove Forests and Coastal Mangrove Areas in Liberia through Protection, Planning and Livelihood Creation- as a	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Building Block Towards Liberia's Marine and Coastal Protected Areas				
8015	UNDP	Liberia	Guinean-Savannah	Enhancing Resilience Of Liberia Montserrado County Vulnerable Coastal Areas To Climate Change Risks	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance
9292	AfDB	Liberia	Guinean-Savannah	Increasing Energy Access through the Promotion of Energy Efficient Appliances in Liberia	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
942	WB	Nigeria	Guinean-Savannah	: Local Empowerment and Environmental Management Project - Micro Watershed and Environmental Management Project	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
1503	WB	Nigeria	Guinean-Savannah	National Fadama Development Program II (NFDP II): Critical Ecosystem Management	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2828	WB	Nigeria	Guinean-Savannah	Rural Electrification and Renewable Energy Development	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3384	WB	Nigeria	Guinean-Savannah	SIP: Scaling up SLM Practice, Knowledge, and Coordination in Key Nigerian States	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3794	UNDP	Nigeria	Guinean-Savannah	SPWA-CC: Promoting Energy Efficiency in Residential and Public Sector in Nigeria	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3804	UNDP	Nigeria	Guinean-Savannah	Less Burnt for a Clean Earth: Minimization of Dioxin Emission from Open Burning Sources	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3827	WB	Nigeria	Guinean-Savannah	SPWA-CC: Nigeria Urban Transport	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
3943	UNIDO	Nigeria	Guinean-Savannah	SPWA-CC: Mini-grids based on Renewable Energy (small-hydro and biomass) Sources to Augment Rural Electrification	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4090	UNDP	Nigeria	Guinean-Savannah	SPWA-BD: Niger Delta Biodiversity Project	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4100	WB	Nigeria	Guinean-Savannah	PCB Management and Disposal Project	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4439	GEF Secretariat	Nigeria	Guinean-Savannah	GEF National Portfolio Formulation Document	GEF-5 (2010-2014)	Enabling activity	Completed / Closed	Relevance
4671	UNEP	Nigeria	Guinean-Savannah	Support to Nigeria for the Revision of the NBSAPs and Development of Fifth National Report to the CBD	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
4907	WB	Nigeria	Guinean-Savannah	GGW: Nigeria Erosion and Watershed Management Project (NEWMAP)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5167	UNIDO	Nigeria	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5345	UNDP	Nigeria	Guinean-Savannah	De-risking Renewable Energy NAMA for the Nigerian Power Sector	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5375	UNIDO	Nigeria	Guinean-Savannah	Scaling up Small Hydro Power (SHP) in Nigeria	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5745	UNDP	Nigeria	Guinean-Savannah	Sustainable Fuelwood Management in Nigeria	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5777	UNDP	Nigeria	Guinean-Savannah	Preparation of Third National Communication (TNC) to the UNFCCC and Capacity Strengthening on Climate Change	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5871	UNIDO	Nigeria	Guinean-Savannah	Minamata Convention Initial Assessment in the Federal Republic of Nigeria	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
6976	UNDP	Nigeria	Guinean-Savannah	Nigeria's First Biennial Update Report	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9143	UNDP	Nigeria	Guinean-Savannah	Food-IAP: Integrated Landscape Management to Enhance Food Security and Ecosystem Resilience in Nigeria	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
9161	AfDB	Nigeria	Guinean-Savannah	LCB-NREE: Nigeria Child Project: Comprehensive and Integrated Management of Natural Resources in Borno State	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
9358	UNIDO	Nigeria	Guinean-Savannah	National Action Plan on Mercury in the Nigerian Artisanal and Small-Scale Gold Mining sector	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
3937	UNIDO	Sierra Leone	Guinean-Savannah	SPWA-CC: Promoting Mini Grids Based on Small Hydropower for Productive Uses in Sierra Leone	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4105	WB	Sierra Leone	Guinean-Savannah	SPWA-BD: Wetlands Conservation Project	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4599	UNDP	Sierra Leone	Guinean-Savannah	Building Adaptive Capacity to Catalyze Active Public and Private Sector Participation to Manage the Exposure and Sensitivity of Water Supply Services to Climate Change in Sierra Leone	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4840	UNDP	Sierra Leone	Guinean-Savannah	Energy Efficient Production and Utilization of Charcoal through Innovative	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance



Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Technologies and Private Sector Involvement				
5006	UNDP	Sierra Leone	Guinean-Savannah	Strengthening Climate Information and Early Warning Systems in Africa for Climate Resilient Development and Adaptation to Climate Change	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5209	AfDB	Sierra Leone	Guinean-Savannah	Building Resilience to Climate Change in the Water and Sanitation Sector	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
9454	UNEP	Sierra Leone	Guinean-Savannah	Development of Minamata Initial Assessment and National Action Plan for Artisanal and Small Scale Gold Mining in Sierra Leone	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
5907	UNEP	South Sudan	Guinean-Savannah	Support to South Sudan for the Revision of the NBSAPs and Development of Fifth National Report to the CBD	GEF-5 (2010-2014)	Enabling activity	Pending Approval	Relevance
4026	UNDP	Togo	Guinean-Savannah	SPWA-BD: Strengthening the Conservation Role of Togo's National System of Protected Areas (PA)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4570	IFAD	Togo	Guinean-Savannah	Adapting Agriculture Production in Togo (ADAPT)	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
4765	UNDP	Togo	Guinean-Savannah	Strengthening National and Decentralized Management for Global Environmental Benefits	GEF-5 (2010-2014)	Medium-sized project	Completed / Closed	Relevance
5035	UNIDO	Togo	Guinean-Savannah	Enabling activities to review and update the national implementation plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5279	AfDB	Togo	Guinean-Savannah	Strengthening Climate Resilience of Infrastructure in Coastal Areas in Togo	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5850	UNDP	Togo	Guinean-Savannah	Togo's First Biennial Update Report (FBUR)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
1175	UNDP	Uganda	Guinean-Savannah	Conservation of Biodiversity in the Albertine Rift Forest Areas of Uganda	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1830	WB	Uganda	Guinean-Savannah	Protected Areas Management and Sustainable Use (PAMSU)	GEF -1 (1994-1998)	Full-sized project	Completed / Closed	Relevance and Sustainability
1837	UNDP	Uganda	Guinean-Savannah	Extending Wetland protected Areas through Community Based Conservation Initiatives	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3392	WB	Uganda	Guinean-Savannah	SIP: Sustainable Land Management Country Program	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3393	UNDP	Uganda	Guinean-Savannah	SIP: Enabling Environment for SLM to overcome land degradation in the cattle corridor of Uganda	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3682	UNEP	Uganda	Guinean-Savannah	Developing an Experimental Methodology for Testing the Effectiveness of Payments for Ecosystem Services to Enhance Conservation in Productive Landscapes in Uganda	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3854	UNEP	Uganda	Guinean-Savannah	Development of a National Clearing House Mechanism and Capacity Assessment for Taxonomy and Indigenous Knowledge(Add-on) (New title as of March 19, 2009)	GEF-4 (2006-2010)	Enabling activity	Completed / Closed	Relevance
4456	UNDP	Uganda	Guinean-Savannah	Conservation and Sustainable Use of the Threatened Savanna Woodland in the Kidepo	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Critical Landscape in North Eastern Uganda				
4644	UNDP	Uganda	Guinean-Savannah	Addressing Barriersto the Adoption of Improved Charcoal Production Technologies and Sustainable Land Management Practices through an Integrated Approach	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4993	UNDP	Uganda	Guinean-Savannah	Strengthening Climate Information and Early Warning Systems in Africa to Support Climate Resilient Development and Adaptation to Climate Change	GEF-5 (2010-2014)	Full-sized project	Completed / Closed	Relevance
5042	UNEP	Uganda	Guinean-Savannah	Support to Alignment of Uganda's National Action Programme and Reporting Process to the UNCCD Ten-Year Strategy	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5204	AfDB	Uganda	Guinean-Savannah	Building Resilience to Climate Change in the Water and Sanitation Sector	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5603	UNIDO	Uganda	Guinean-Savannah	Reducing Vulnerability of Banana Producing Communities to Climate Change Through Banana Value Added Activities - Enhancing Food Security And Employment Generation	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5625	UNIDO	Uganda	Guinean-Savannah	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5718	UNDP	Uganda	Guinean-Savannah	Integrated Landscape Management for Improved Livelihoods and Ecosystem Resilience in Mount Elgon	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
9137	UNDP	Uganda	Guinean-Savannah	Food-IAP: Fostering Sustainability and Resilience for Food Security in Karamoja Sub Region	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9210	UNDP	Uganda	Guinean-Savannah	NAMA on Integrated Waste Management and Biogas in Uganda	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
9335	UNDP	Uganda	Guinean-Savannah	Strengthening Institutional Capacity for Effective Implementation of Rio Conventions in Uganda	GEF-6 (2014-2018)	Medium-sized project	CEO Approved / Endorsed	Relevance
876	WB	Burkina Faso	Sahel	Partnership for Natural Ecosystem Management Program (PAGEN)	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
1178	WB	Burkina Faso	Sahel	Sahel Integrated Lowland Ecosystem Management (SILEM), Phase I	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2876	WB	Burkina Faso	Sahel	SPWA-CC: Ouagadougou Transport Modal Shift	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3567	IFAD	Burkina Faso	Sahel	CPP: Burkina Faso - Sub-programme of the Northern Region-under Partnership Programme for Sustainable Land Management	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3684	UNDP	Burkina Faso	Sahel	Strengthening Adaptation Capacities and Reducing the Vulnerability to Climate Change in Burkina Faso	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4073	UNDP	Burkina Faso	Sahel	SPWA-CC: Promotion of Jatropha Curcas as a	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Sustainable Source of Agrofuel in Burkina-Faso				
4221	UNDP	Burkina Faso	Sahel	SPWA-BD: Protected Area Buffer Zone Management in Burkina Faso	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4285	UNIDO	Burkina Faso	Sahel	Promoting Energy Efficiency Technologies in Beer Brewing Sector in Burkina Faso	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4767	UNDP	Burkina Faso	Sahel	Capacity Development : Generating Global Environmental Benefits from Improved Local Planning and Decision-making Systems in Burkina Faso	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
4971	UNDP	Burkina Faso	Sahel	Adapting Natural Resource Dependent Livelihoods to Climate induced Risks in Selected Landscapes in Burkina Faso: the Boucle du Mouhoun Forest Corridor and the Mare d'Oursi Wetlands Basin	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5003	UNDP	Burkina Faso	Sahel	Strengthening Climate Information and Early Warning Systems in Africa for Climate Resilient Development and Adaptation to Climate Change - Burkina Faso	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5014	FAO	Burkina Faso	Sahel	Integrating Climate Resilience into Agricultural and Pastoral Production for Food Security in Vulnerable Rural Areas Through the Farmers Field School Approach.	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5061	UNIDO	Burkina Faso	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5187	WB	Burkina Faso	Sahel	GGW: Community based Rural Development Project 3rd Phase with Sustainable Land and Forestry Management	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
9141	IFAD	Burkina Faso	Sahel	GEF-IAP: Participatory Natural Resource Management and Rural Development Project in the North, Centre-North and East Regions (Neer Tamba project)	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9711	UNIDO	Burkina Faso	Sahel	National Action Plan on Mercury in the Artisanal and Small-Scale Gold Mining Sector in Burkina Faso	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
1855	WB	Chad	Sahel	Community-Based Ecosystem Management Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3959	UNIDO	Chad	Sahel	SPWA-CC: Promoting renewable energy based mini-grids for rural electrification and productive uses	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
5376	IFAD	Chad	Sahel	Enhancing the Resilience of the Agricultural Ecosystems	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5795	UNIDO	Chad	Sahel	Promoting Energy Efficient Cook Stoves in Micro and Small-scale Food Processing Industries	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
9100	UNIDO	Chad	Sahel	Minamata Convention Initial Assessment in Chad	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
9476	AfDB	Chad	Sahel	LCB-NREE Chad Child Project: Integrated Management of Natural Resources in the Chadian part of the Lake Chad Basin	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
3139	UNIDO	Eritrea	Sahel	Enabling Activities to Facilitate Early Action on the Implementation of the Stockholm Convention on POPs	GEF-4 (2006-2010)	Enabling activity	Under Implementation	Relevance
3362	IFAD	Eritrea	Sahel	SIP: Catchments and Landscape Management	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3364	UNDP	Eritrea	Sahel	SIP: Sustainable Land Management Pilot Project	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3987	FAO	Eritrea	Sahel	Eritrea: Prevention and Disposal of POPs and Obsolete Pesticides	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4559	UNDP	Eritrea	Sahel	Integrated Semenawi and Debubawi Bahri-Buri-Irrori-Hawakil Protected Area System for Conservation of Biodiversity and Mitigation of Land Degradation	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5389	UNEP	Eritrea	Sahel	Support to Eritrea for the Revision of the NBSAPs and Development of Fifth National Report to the Convention on Biological Diversity(CBD)	GEF-5 (2010-2014)	Enabling activity	Council Approved	Relevance
5616	UNIDO	Eritrea	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
6923	UNDP	Eritrea	Sahel	Mainstreaming Climate Risk Considerations in Food Security	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				and IWRM in Tsilima Plains and Upper Catchment Area				
9641	UNEP	Eritrea	Sahel	Development of Minamata Initial Assessment and National Action Plan for Artisanal and Small Scale Gold Mining in Eritrea	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
1152	IFAD	Mali	Sahel	Biodiversity Conservation and Participatory Sustainable Management of Natural Resources in the Inner Niger Delta and its Transition Areas, Mopti Region	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1253	WB	Mali	Sahel	Gourma Biodiversity Conservation Project	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
1274	WB	Mali	Sahel	Household Energy and Universal Rural Access Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3377	WB	Mali	Sahel	SIP: Fostering Agricultural Productivity in Mali	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3699	UNDP	Mali	Sahel	SPWA-CC: Promotion of the Use of Agrofuels from the Production and Use of Jatropha Oil in Mali	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3763	UNDP	Mali	Sahel	SPWA-BD: Expansion and Strengthening of Mali's PA System	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3776	UNDP	Mali	Sahel	Enhancing Adaptive Capacity and Resilience to Climate Change in the Agriculture Sector in Mali	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3979	FAO	Mali	Sahel	Integrating Climate Resilience into Agricultural Production for Food Security in Rural Areas	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4429	GEF Secretariat	Mali	Sahel	GEF National Portfolio Formulation Document	GEF-5 (2010-2014)	Enabling activity	Completed / Closed	Relevance



Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
4822	FAO	Mali	Sahel	Strengthening Resilience to Climate Change through Integrated Agricultural and Pastoral Management in the Sahelian zone in the Framework of the Sustainable Land Management Approach	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5192	UNDP	Mali	Sahel	Strengthening the Resilience of Women Producer Group's and Vulnerable Communities in Mali	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5270	WB	Mali	Sahel	GGW Natural Resources Management in a Changing Climate in Mali	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5443	UNDP	Mali	Sahel	Third National Communication to the UNFCCC	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5644	UNIDO	Mali	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs) in the Republic of Mali	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5746	UNEP	Mali	Sahel	Scaling up and Replicating Successful Sustainable Land Management (SLM) and Agroforestry Practices in the Koulikoro Region of Mali	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5819	UNDP	Mali	Sahel	Promoting Sustainable Electricity Generation in Malian Rural Areas through Hybrid Technologies	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
6971	UNDP	Mali	Sahel	Generating Global Environment Benefits through Improved Environmental	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Information, Planning and Decision Making Systems				
2459	WB	Mauritania	Sahel	Community-based Watershed Management Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3379	IFAD	Mauritania	Sahel	SIP: Participatory Environmental Protection and Poverty Reduction in the Oases of Mauritania	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3893	IFAD	Mauritania	Sahel	Support to the Adaptation of Vulnerable Agricultural Production Systems	GEF-4 (2006-2010)	Full-sized project	CEO Approved / Endorsed	Relevance
5190	AfDB	Mauritania	Sahel	Improving Climate Resilience of Water Sector Investments with Appropriate Climate Adaptive Activities for Pastoral and Forestry Resources in Southern Mauritania	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5580	UNEP	Mauritania	Sahel	Development of an Improved and Innovative Management System for Sustainable Climate-resilient Livelihoods in Mauritania	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
5639	UNEP	Mauritania	Sahel	Stocktaking and Update of National Biosafety Framework for Mauritania	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5769	UNDP	Mauritania	Sahel	Promoting Sustainable Mini-grids in Mauritanian Provinces Through Hybrid Technologies	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5792	WB	Mauritania	Sahel	PSG-Sustainable Landscape Management Project under SAWAP	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
8029	WB	Mauritania	Sahel	West Africa Regional Fisheries Program SOP C1	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
1275	WB	Niger	Sahel	Community-based Integrated Ecosystem Management	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Program under the Community Action Program				
2380	UNDP	Niger	Sahel	Sustainable Co-Management of the Natural Resources of the Air-Tenere Complex	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
3381	UNDP	Niger	Sahel	SIP: Oasis Micro-Basin Sand Invasion Control in the Goure and Maine Regions (PLECO)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3382	WB	Niger	Sahel	SIP: Community Driven SLM for Environmental and Food Security	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3383	IFAD	Niger	Sahel	SIP: Agricultural and Rural Rehabilitation and Development Initiative (ARRDI)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3760	UNDP	Niger	Sahel	SPWA-BD: Integrating the Sustainable Management of Faunal Corridors into Niger's Protected Area System	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3796	UNDP	Niger	Sahel	SPWA-CC: Integration of Greenhouse Gas Emission Reductions in Niger's Rural Energy Service Access Program	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4701	UNDP	Niger	Sahel	Scaling up Community-Based Adaptation (CBA) in Niger	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4702	FAO	Niger	Sahel	Integrating Climate Resilience into Agricultural and Pastoral Production for Food Security in Vulnerable Rural Areas through the Farmers Field School Approach	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5436	WB	Niger	Sahel	Disaster Risk Management and Urban Development Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5493	UNIDO	Niger	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Stockholm Convention on Persistent Organic Pollutants (POPs)				
9136	IFAD	Niger	Sahel	Niger: Food-IAP: Family Farming Development Programme (ProDAF)	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9497	AfDB	Niger	Sahel	LCB-NREE Niger child project: Improving Sustainable Management of Natural Resources in Niger's Diffa Region	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
921	WB	Senegal	Sahel	Electricity Services for Rural Areas Project	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability
1189	WB	Senegal	Sahel	Integrated Marine and Coastal Resource Management Project	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2268	UNDP	Senegal	Sahel	SIP: Integrated Ecosystem Management in Four Representative Landscapes of Senegal, Phase 2	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3385	WB	Senegal	Sahel	SIP: Sustainable Land Management in Senegal	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3386	UNDP	Senegal	Sahel	SIP: Innovations in Micro Irrigation for Dryland Farmers	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4055	UNDP	Senegal	Sahel	TT-Pilot (GEF-4): Technology Transfer: Typha-based Thermal Insulation Material Production in Senegal	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4080	UNDP	Senegal	Sahel	SPWA-BD: Participatory Biodiversity Conservation and Low Carbon Development in Pilot Ecovillages in Senegal	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4095	UNDP	Senegal	Sahel	SPWA-CC: National Greenhouse Gas Reduction Program Through Energy	GEF-4 (2006-2010)	Medium-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Efficiency in the Built Environment				
4888	UNIDO	Senegal	Sahel	Environmentally Sound Management of Municipal and Hazardous Solid Waste to Reduce Emission of Unintentional POPs	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5371	AfDB	Senegal	Sahel	Project for the Restoration and Strengthening the Resilience of the Lake de Guiers Wetland Ecosystems (PRRELAG)	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5449	WB	Senegal	Sahel	PSG- Sustainable and Inclusive Agribusiness Development Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5469	UNIDO	Senegal	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
5503	FAO	Senegal	Sahel	Mainstreaming Ecosystem-based Approaches to Climate-resilient Rural Livelihoods in Vulnerable Rural Areas through the Farmer Field School Methodology	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5566	UNDP	Senegal	Sahel	Strengthening Land & Ecosystem Management Under Conditions of Climate Change in the Niayes and Casamance regions- Republic of Senegal	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5802	UNEP	Senegal	Sahel	Promoting SLM Practices to Restore and Enhance Carbon Stocks through Adoption of Green Rural Habitat Initiatives	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
9123	WB	Senegal	Sahel	Cities-IAP: Sustainable Cities Initiative	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9134	IFAD	Senegal	Sahel	Food-IAP: Agricultural Value Chains Resilience Support Project (PARFA)	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
3430	UNDP	Sudan	Sahel	Implementing NAPA Priority Interventions to Build Resilience in the Agriculture and Water Sectors to the Adverse Impacts of Climate Change	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3748	UNDP	Sudan	Sahel	Protected Area Network Management and Building Capacity in Post-conflict Southern Sudan	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3915	IFAD	Sudan	Sahel	Integrated Carbon Sequestration Project in Sudan	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4745	UNDP	Sudan	Sahel	Promoting Utility-Scale Power Generation from Wind Energy	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4958	UNDP	Sudan	Sahel	Climate Risk Finance for Sustainable and Climate Resilient Rainfed Farming and Pastoral Systems	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5019	UNDP	Sudan	Sahel	National Biodiversity Planning to Support the implementation of the CBD 2011-2020 Strategic Plan in Sudan	GEF-5 (2010-2014)	Enabling activity	Completed / Closed	Relevance
5030	UNIDO	Sudan	Sahel	Enabling Activities to Review and Update the National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants (POPs)	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5619	WB	Sudan	Sahel	GGW Sudan Sustainable Natural Resources Management Project SSNRMP	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5651	IFAD	Sudan	Sahel	Livestock and Rangeland Resilience Program	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5673	UNDP	Sudan	Sahel	Promoting the Use of Electric Water Pumps for Irrigation	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5703	UNEP	Sudan	Sahel	Enhancing the Resilience of Communities Living in Climate Change Vulnerable Areas of Sudan Using Ecosystem Based Approaches to Adaptation (EbA)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
9108	UNDP	Sudan	Sahel	Third National Communication (TNC) and First Biennial Update Report (BUR)	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9345	UNIDO	Sudan	Sahel	Minamata Convention: Initial assessment in the Republic of Sudan	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9501	AfDB	Sudan	Sahel	Rural Livelihoods' Adaptation to Climate Change in the Horn of Africa - Phase II (RLACC II)	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
457	UNDP	Regional		Conservation of Biodiversity through Participatory Rehabilitation of Degrade Land in Arid and Semi-Arid Cross-Border Zones of Mauritania and Senegal	GEF -1 (1994-1998)	Full-sized project	Completed / Closed	Relevance and Sustainability
504	UNEP	Regional		management of Indigenous Vegetation for the Rehabilitation of Degraded Rangelands in the Arid Zone of Africa	GEF-2 (1998-2002)	Full-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
1093	WB	Regional		Reversing Land and Water Degradation Trends in the Niger River Basin	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1111	UNEP	Regional		Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1216	UNEP	Regional		Building Scientific and Technical Capacity for Effective Management and Sustainable Use of Dryland Biodiversity in West African Biosphere Reserves	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1258	UNEP	Regional		Enhancing Conservation of the Critical Network of Sites of Wetlands Required by Migratory Waterbirds on the African/Eurasian Flyways.	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1325	WB	Regional		Institutional Strengthening and Resource Mobilization for Mainstreaming Integrated Land and Water Management Approaches into Development Programs in Africa	GEF-2 (1998-2002)	Medium-sized project	Completed / Closed	Relevance and Sustainability
1348	WB	Regional		Africa Stockpiles Program, P1	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1420	UNEP	Regional		Reducing Dependence on POPs and other Agro-Chemicals in the Senegal and Niger River Basins through Integrated Production, Pest and Pollution Management	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
1909	FAO	Regional		Protection of the Canary Current Large Marine Ecosystem (LME)	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance



Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
2041	UNEP	Regional		Managing Hydrogeological Risk in the Iullemeden Aquifer System	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2129	UNEP	Regional		Demonstrating and Capturing Best Practices and Technologies for the Reduction of Land-sourced Impacts Resulting from Coastal Tourism	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2139	FAO	Regional		SIP: Transboundary Agro-Ecosystem Management Programme for the Kagera River Basin (Kagera TAMP)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
2140	UNEP	Regional		Removing Barriers to Invasive Plant Management in Africa	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2184	UNEP	Regional		SIP: Stimulating Community Initiatives in Sustainable Land Management (SCI-SLM)	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2396	UNEP	Regional		Dryland Livestock Wildlife Environment Interface Project (DLWEIP)	GEF-3 (2002-2006)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2546	UNEP	Regional		Demonstration of Sustainable Alternatives to DDT and Strengthening of National Vector Control Capabilities in Middle East and North Africa	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
2584	UNDP	Regional		Nile Transboundary Environmental Action Project (NTEAP), Phase II	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
2586	UNDP	Regional		PAS: Implementing Sustainable Integrated Water Resource and Wastewater Management in the Pacific Island Countries - under the GEF Pacific Alliance for Sustainability	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
2614	UNDP	Regional		Adaptation to Climate Change - Responding to Shoreline Change and its human dimensions in West Africa through integrated coastal area management.	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2720	UNIDO	Regional		Develop Appropriate Strategies for Identifying Sites Contaminated by Chemicals listed in Annex A, B and/or C of the Stockholm Convention	GEF-3 (2002-2006)	Full-sized project	Completed / Closed	Relevance and Sustainability
2770	UNEP	Regional		Demonstration of a Regional Approach to Environmentally Sound Management of PCB Liquid Wastes and Transformers and Capacitors Containing PCBs	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
2820	UNEP	Regional		Supporting the Development and Implementation of Access and Benefit Sharing Policies in Africa	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
2865	UNIDO	Regional		Promotion of Strategies to Reduce Unintentional Production of POPs in the PERSGA Coastal Zone	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
2906	UNDP	Regional		CBSP Sustainable Financing of Protected Area Systems in the Congo Basin	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3101	UNDP	Regional		Pacific Adaptation to Climate Change Project (PACC)	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance and Sustainability
3321	UNDP	Regional		Mainstreaming Groundwater Considerations into the Integrated Management of the Nile River Basin	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
3346	UNEP	Regional		DSSA Malaria Decision Analysis Support Tool (MDAST): Evaluating Health Social and Environmental Impacts and Policy Tradeoffs	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3398	WB	Regional		SIP: Eastern Nile Transboundary Watershed Management in Support of ENSAP Implementation	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3401	UNEP	Regional		SIP: Equatorial Africa Deposition Network (EADN)	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3522	UNDP	Regional		CTI Arafura and Timor Seas Ecosystem Action Programme (ATSEA) - under the Coral Triangle Initiative	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3591	ADB	Regional		PAS: Strengthening Coastal and Marine Resources Management in the Coral Triangle of the Pacific - under the Pacific Alliance for Sustainability Program	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3619	FAO	Regional		CTI Strategies for Fisheries Bycatch Management	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3664	UNEP	Regional		PAS: Prevention, Control and Management of Invasive Alien Species in the Pacific Islands	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3673	UNEP	Regional		Supporting the Implementation of the Global Monitoring Plan of POPs in Eastern and Southern African Countries	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
3674	UNEP	Regional		Supporting the Implementation of the Global Monitoring Plan of POPs in West Africa	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
3779	WB	Regional		CBSP Enhancing Institutional Capacities on REDD issues for Sustainable Forest Management in the Congo Basin	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3781	UNEP	Regional		SPWA-BD: Evolution of PA systems with regard to climate change in the West Africa Region	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3809	WB	Regional		Red Sea and Gulf of Aden Strategic Ecosystem Management	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3822	UNEP	Regional		CBSP - A Regional Focus on Sustainable Timber Management in the Congo Basin	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
3788	UNEP	Regional		LGGE Promoting Energy Efficiency in Buildings in Eastern Africa	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3960	WB	Regional		CBSP-Capacity Building for Regional Coordination of Sustainable Forest Management in the Congo Basin under the GEF Program for the Congo Basin	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance and Sustainability
3968	UNEP	Regional		AFLDC: Capacity Strengthening and Technical Assistance for the Implementation of Stockholm Convention National Implementation Plans (NIPs) in African Least Developed Countries (LDCs) of the COMESA Subregion	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
3969	UNEP	Regional		AFLDC: Capacity Strengthening and Technical Assistance for	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				the Implementation of Stockholm Convention National Implementation Plans (NIPs) in African Least Developed Countries (LDCs) of the ECOWAS Subregion				
3984	FAO	Regional		SPWA-BD: Development of a Trans-frontier Conservation Area Linking Forest Reserves and Protected Areas in Ghana and Cote d'Ivoire	GEF-4 (2006-2010)	Medium-sized project	Completed / Closed	Relevance
4023	UNEP	Regional		PAS: Implementing the Island Biodiversity Programme of Work by Integrating the Conservation Management of Island Biodiversity	GEF-4 (2006-2010)	Full-sized project	Completed / Closed	Relevance
4066	UNEP	Regional		PAS: Pacific POPs Release Reduction Through Improved Management of Solid and Hazardous Wastes	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4074	WB	Regional		Africa Stockpiles Program (ASP) - Project 1- Supplemental Funds for Disposal and Prevention	GEF-4 (2006-2010)	Full-sized project	Under Implementation	Relevance
4178	UNIDO	Regional		SPWA-CC Promoting Coherence, Integration and Knowledge Management under Energy Component of SPWA	GEF-4 (2006-2010)	Medium-sized project	Under Implementation	Relevance
4523	UNEP	Regional		Support to Preparation of the Second National Biosafety Reports to the Cartagena Protocol on Biosafety-Africa	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
4569	UNIDO	Regional		Improve the Health and Environment of Artisanal and	GEF-5 (2010-2014)	Medium-sized project	Completed / Closed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Small Scale Gold Mining (ASGM) Communities by Reducing Mercury Emissions and Promoting Sound Chemical Management				
4611	UNDP	Regional		Reducing UPOPs and Mercury Releases from the Health Sector in Africa	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4668	UNEP	Regional		Demonstration of Effectiveness of Diversified, Environmentally Sound and Sustainable Interventions, and Strengthening National Capacity for Innovative Implementation of Integrated Vector Management (IVM) for Disease Prevention and Control in the WHO AFRO Region	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4740	FAO	Regional		Disposal of Obsolete Pesticides including POPs and Strengthening Pesticide Management in the Permanent Interstate Committee for Drought Control in the Sahel (CILSS) Member States	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4746	UNDP	Regional		Implementation of Global and Regional Oceanic Fisheries Conventions and Related Instruments in the Pacific Small Island Developing States (SIDS)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4748	UNDP	Regional		Improving Lake Chad Management through Building Climate Change Resilience and Reducing Ecosystem Stress through Implementation of the SAP Minamata Convention:	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
				Initial Assessment in Cabo Verde and Sao Tome and Principe				
4886	UNEP	Regional		Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm Convention in the Africa Region	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4940	WB	Regional		Implementation of the Strategic Action Programme for the Protection of the Western Indian Ocean from Land-based Sources and Activities (WIO-SAP)	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
4953	IUCN	Regional		Mano River Union Ecosystem Conservation and International Water Resources Management (IWRM) Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5133	WB	Regional		Senegal River Basin Climate Change Resilience Development Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5195	UNEP	Regional		Building National and Regional Capacity to Implement MEAs by Strengthening Planning, and State of Environment Assessment and Reporting in the Pacific Islands	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5404	UNDP	Regional		R2R: Testing the Integration of Water, Land, Forest & Coastal Management to Preserve Ecosystem Services, Store Carbon, Improve Climate Resilience and Sustain Livelihoods in Pacific Island Countries	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
5454	UNEP	Regional		Ratification and Implementation of the Nagoya Protocol on Access and Benefit Sharing (ABS) for the Member Countries of the Central African Forests Commission COMIFAC	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5487	AfDB	Regional		Integrated Development for Increased Rural Climate Resilience in the Niger Basin	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
5513	UNDP	Regional		Western Indian Ocean Large Marine Ecosystems Strategic Action Programme Policy Harmonization and Institutional Reforms (SAPPHIRE)	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
5633	UNEP	Regional		Lead Paint Elimination Project in Africa	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5634	UNEP	Regional		Ratification and Implementation of the Nagoya Protocol in the Countries of the Pacific Region	GEF-5 (2010-2014)	Medium-sized project	Council Approved	Relevance
5674	AfDB	Regional		Lakes Edward and Albert Integrated Fisheries and Water Resources Management Project	GEF-5 (2010-2014)	Full-sized project	Under Implementation	Relevance
5798	FAO	Regional		Adaptive Management and Monitoring of the Maghreb's Oases Systems	GEF-5 (2010-2014)	Medium-sized project	Under Implementation	Relevance
5860	UNEP	Regional		Development of Minamata Convention on Mercury Initial Assessment in Africa	GEF-5 (2010-2014)	Enabling activity	Under Implementation	Relevance
6944	UNEP	Regional		Development of Minamata Convention on Mercury Initial Assessment in Africa	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance



Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
6964	WB	Regional		Volta River Basin Strategic Action Programme Implementation Project	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
6982	UNDP	Regional		Enhancing Capacity to Develop Global and Regional Environmental Projects in the Pacific	GEF-6 (2014-2018)	Medium-sized project	Completed / Closed	Relevance
9080	UNEP	Regional		Integrated Health and Environment Observatories and Legal and Institutional Strengthening for the Sound Management of Chemicals in Africa (African ChemObs)	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance
9098	UNIDO	Regional		Minamata Convention Initial Assessment in Francophone Africa II	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9101	UNIDO	Regional		Minamata Convention Initial Assessment in Francophone Africa I	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9118	UNEP	Regional		Support to Preparation of the Third National Biosafety Reports to the Cartagena Protocol on Biosafety - AFRICA REGION	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance
9173	UNEP	Regional		Development of Minamata Convention Mercury Initial Assessment in Africa	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9276	UNEP	Regional		Regional Project on the Development of National Action Plans for the Artisanal and Small-Scale Gold Mining in Africa	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9360	WB	Regional		West Africa Regional Fisheries Program, Additional Financing	GEF-6 (2014-2018)	Full-sized project	Under Implementation	Relevance

Project ID	Agency	Country	Biome	Project Name	GEF Replenishment	Project type	Project Status	Type of Review
9446	AfDB	Regional		Regional Project for the Conservation and Sustainable Development of Lake Chad: Enhancing Transboundary Cooperation and Integrated Water Resources Management in the Lake Chad Basin	GEF-5 (2010-2014)	Full-sized project	CEO Approved / Endorsed	Relevance
9491	UNDP	Regional		Mainstreaming Conservation of Migratory Soaring Birds into Key Productive Sectors along the Rift Valley / Red Sea Flyway (Tranche II of GEFID 1028)	GEF-6 (2014-2018)	Full-sized project	CEO Approved / Endorsed	Relevance
9533	UNEP	Regional		Development of National Action Plan for Artisanal and Small Scale Gold Mining Mali and Senegal	GEF-6 (2014-2018)	Enabling activity	Under Implementation	Relevance
9547	UNEP	Regional		Development of National Action Plan for Artisanal and Small Scale Gold Mining in Guinea and Niger	GEF-6 (2014-2018)	Enabling activity	Cancelled	Relevance
9817	UNEP	Regional		Support to Eligible Parties to Produce the Sixth National Report to the CBD (Africa-1)	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance
9824	UNEP	Regional		Support to Eligible Parties to Produce the Sixth National Report to the CBD (Africa-2)	GEF-6 (2014-2018)	Medium-sized project	Under Implementation	Relevance

## ANNEX 2: LIST OF COUNTRY CASE STUDIES AND PROJECTS VISITED

Country / ID	Agency	Focal Area	GEF Phase	Type	Title
<b>GUINEA</b>					
1093	WB/ UNDP	IW	GEF-3	Reg.	Reversing Land and Water Degradation Trends in the Niger River Basin
1273	WB	BD	GEF-3	FSP	Coastal Marine and Biodiversity Management
1877	WB	LD	GEF-3	FSP	Community-based Land Management
3703	UNDP	A	GEF-4	FSP	Increased Resilience and Adaptation to Adverse Impacts of Climate Change in Guinea's Vulnerable Coastal Zones
4692	UNDP	A	GEF-5	FSP	Strengthening resilience of communities' livelihoods against climate changes in Gaoual, Koundara and Mali
<b>UGANDA</b>					
1175	UNDP	BD	GEF-3	FSP	Conservation of Biodiversity in the Albertine Rift Forest Protected Areas
1830	WB	BD	GEF-1	FSP	1830 Protected Areas Management and Sustainable Use (PAMSU)
2140	UNEP	BD	GEF-3	Reg.	Removing Barriers to Invasive Plant Management in Africa
3393	UNDP	LD	GEF-4	FSP	SIP: Enabling Environment for SLM to Overcome Land Degradation in the Cattle Corridor of Uganda
4644	UNDP	MF	GEF-5	FSP	Addressing Barriers to Adoption of Improved Charcoal Production Technologies and SLM
5718	UNDP	MF	GEF-5	FSP	Integrated landscape management for improved livelihoods and ecosystem resilience in Mount Elgon
<b>NIGERIA</b>					
942	WB	BD	GEF-3	FSP	Local Empowerment and Environmental Management Project
1503	WB	LD	GEF-3	FSP	National Fadama Development Program II: Critical Ecosystem Management Project
1258	UNEP	BD	GEF-3	Reg.	Enhancing Conservation of Network of Wetlands Required by Migratory Water Birds on African/Eurasian Flyways
4090	UNDP	BD	GEF-4	FSP	Niger Delta Biodiversity Project
4907	WB	LD	GEF-5	FSP	GGW: Nigeria Erosion and Watershed Management Project
<b>MALI</b>					
1152	IFAD	BD	GEF-3	FSP	BD Conservation and Participatory SM of Natural Resources in the Inner Niger Delta, Mopti Region
1253	WB	BD	GEF-2	FSP	Gourma Biodiversity Conservation
1420	UNEP	MF	GEF-3	Reg.	Reducing Dependence on POPs and Other Agro-Chemicals in the Senegal and Niger River Basins through IPPM
3377	WB/UNDP	LD	GEF-4	FSP	Strategic Investment Plan - Fostering Agricultural Productivity in Mali
3763	UNDP	BD	GEF-4	FSP	SPWA-BD: Expansion and Strengthening of Mali's Protected Area System
3979	FAO	A	GEF-4	FSP	Integrating Climate Resilience into Agricultural Production for Food Security in Rural Areas
5270	WB	MF	GEF-5	FSP	GGW- Natural Resources Management in a Changing Climate in Mali
<b>MAURITANIA</b>					
1258	UNEP	BD	GEF-3	Reg.	Enhancing Conservation of Network of Wetlands Required by Migratory Water Birds on African/Eurasian Flyways
2459	WB	LD	GEF-3	FSP	Community-based Watershed Management Project
2614	UNDP	A	GEF-3	Reg.	Responding to Shoreline Change and Its Human Dimensions in West Africa through Integrated Coastal Area Management
3379	IFAD	LD	GEF-4	FSP	SIP: Participatory Environmental Protection and Poverty Reduction in the Oases of Mauritania
3893	IFAD	A	GEF-4	FSP	Support to the Adaptation of Vulnerable Agricultural Production Systems
5190	AfDB	A	GEF-5	FSP	Improving Climate Resilience of Water Sector Investments with Appropriate Climate Adaptive Activities for Pastoral and Forestry Resources in Southern Mauritania

### ANNEX 3: SUSTAINABILITY FACTORS OBSERVED IN COUNTRY CASE STUDIES

(cells containing the same factor are identified with the same color)

	Mauritania	Mali	Nigeria	Guinea	Guinea Bissau	Uganda
	Contributing Factors					
Project-related	1. Good project design (long lasting infrastructure as birdwatching hideouts, earth bunds and small rock dams in the farmers' fields, fencing to control livestock, solar water pumping systems)	1. Beneficiary relevant, cost effective ALS with positive Env&Dev nexus under individual rather than community management (rock bunds in and live fences around crop fields maintained by individual families; biological dune fixation; Bourgou natural regeneration giving livestock feeds, increased fishing and facilitating the return of migrating birds; Gourma Elephants PA small ruminants, market gardens, credit associations), all of which work	1. Good project design (long lasting infrastructure as Ibbi Eco Center at Park boundary; establishment of the SLBCOF a trust fund for ALSs, requiring contributions from the three participating states to the four PAs. Fund transferred to the National Parks Service)	1. Working with existing decentralized institutions through local dev. Plans (GEF projects CMBMP and CLMP working with WB project PACV and the ongoing decentralization dynamic supported by the 15% mining tax channeled to local development plans through ANAFIC)	1. Stakeholder engagement during implementation (all projects)	1. Alignment with national priorities (including with national environmental threats)
	2. Beneficiary relevant, cost effective ALS with positive Env&Dev nexus in the short to medium term	2. Appropriate technology (IPPM/bio-pesticides reducing pest control costs, improving farmers' health, and increasing biodiversity; IPPM works despite weak interest by the National Directorate for Agriculture, which is still pushing for use of chemical pest control)	1. Beneficiary relevant, cost effective ALS with positive Env&Dev nexus under individual rather than community management (Tunga Bali fruits orchard, animal fattening group, motorbike loans, some of which scaled up and/or replicated)	2. Partnering with a national program with a strong track record (PACV, now became the national decentralization agency, ANAFIC)	2. Supporting local community institutions based on their own investment priorities (GEF IDs 1221, partly 1188 and 2614 established a partnership relation based on trust and strong stakeholder engagement, i.e. always using local park rangers)	2. Good project design (several examples from GEF IDs 1830 and 1175 of long lasting infrastructure and equipment; relevant normative support, data and information, capacity building)
		3. Working with existing decentralized institutions through local dev. Plans (Great Green Wall examples)	2. ALS requiring minimum post project maintenance, but yielding economic benefits over time (cashew, oil palm, rubber and cocoa planted orchards; Teak and Gmelina woodlots to a lesser extent as needs longer time to mature)	3. Beneficiary relevant, cost effective ALS with positive Env&Dev nexus (examples from CLMP include the partial success of the ecosystem approach applied in Tolo, Bafing lake)	3. Integrating women in groups (water pumps, agriculture, other)	3. Stakeholder engagement at design and during implementation (all projects at district and commune levels; GEF ID 2014 community-based trainers remained in the community after closure; multi-ministry coordination at central level)
		4 Promoting women-led ALS (fish smoking Chockor ovens)		4. Promoting women-led ALS (fish smoking units, gardening in Tounifily, Mounafanyi group in Mamou)	4. Establishment of a BD Conservation Trust Fund (The Guinea-Bissau BD Conservation Trust Fund that was established under GEF ID 3817)	4. Promoting self-financing aspects for parks internal revenue generation (GEF ID 1830: increased revenue from gate collections, donations, boat rides, game drives, and the like is used to run park activities and maintain vehicles)
		5. Creation of a local inter-communes institution (the PA monitoring and management Association - AIG - of the Gourma elephant PA)		5. Creation of a local inter-communes institution for SLM (introduced by CLMP, each participating commune earmarks a certain amount of budget from their local development plans to transboundary watershed SLM)		
Context-related	1. Beneficiaries' post project financing (small technology/ appropriate infrastructure in the short to medium term)	1. Govt. post project financing (to AIG for Gourma PA)	1. Govt. post-project financing (NPS funding the Ibbi Eco Center; NPS securing additional federal funding for SLBCOF; Kotopo organic fertilizer plant; others)	1. Donors' post project financing (CC adaptation support highly relevant nationally, RAZC and RADCC follow up projects)	1. Existing protected areas regulation (communities inside the parks should not have higher poverty rate than those outside)	1. Post project follow up of selected technologies and practices (Govt. agencies, i.e. National Forestry Authority (NFA) and DWD continued providing tree seedlings from GEF ID 1175; other follow-on GEF and non-GEF supported projects scaled up some of the previously promotes technologies and practices)
	2. Local level technicians retained in local Govt. offices		2. GEF and other donors post project financing through follow up projects (2013 GEF Scaling up SLM project, World Bank FADAMA III)	2. Local level technicians retained in local Govt. offices by the new decentralization agency ANAFIC	2. Post project follow up of selected technologies and practices (Govt. agencies and/or GEF and non-GEF funding)	
					3. Strong political support (GEF supported national BD agency (IBAP), Tourism & Agriculture Ministries recognise BD concerns)	

	Mauritania	Mali	Nigeria	Guinea	Guinea Bissau	Uganda
	<b>Hindering Factors</b>					
<b>Project-related</b>	<b>1. Poor project design</b> (cost-ineffective training as ecotourist guides as there was no demand for these services; rock dams on gulleys too technically complex/labor intensive for beneficiaries to maintain; drip irrigation and other motorized water pumping systems too complex/costly to operate and maintain; dune fixation too costly/labor intensive)	<b>1. Poor project design</b> (non compliance with PA regulations, lack and/or inadequate stakeholder consultation in Nema wula and Mandé wula PAs, and basing the use of these PAs on hunting rather than ecotourism, all of which caused their rejection by the local populations)	<b>1. Poor project design</b> (too complex business centers, communities afraid of bees, community vs individual management, inappropriate technology, lack of funds by beneficiaries to replace worn out equipment parts)	<b>1. Poor project design</b> (selecting farming areas with scarce ground water resources; inappropriate technology, i.e. coastal dams, improved stoves, cooling unit, fish smoking units, iodine silt, others)	<b>1. Limited local stakeholder engagement at design</b> (especially for regional GEF IDs 1188 and 2614, which gave a slow start that resulted in extension of the implementation periods)	<b>1. Projects not institutionalized in line Ministries</b> (despite involvement of national agencies for implementation; GEF ID 1175 hired external technicians rather than seconding Ministry staff for implementation (those technicians were not adsorbed in relevant Govt. institutions post completion).
		<b>2. ALS not cost effective for beneficiaries in the long term</b> (mills and equipment for processing for which beneficiaries have not been able to generate operating and/or capital replacement funds, also because they did not receive proper technical and managerial training)	<b>2. ALS not cost effective for beneficiaries in the long term</b> (small livestock ALS like snails, grass cutters and apiaries have largely failed – service providers had limited technical knowledge, so beneficiaries' learning was limited)		<b>2. Insufficient environmental awareness raising</b> (efforts didn't change local communities and teachers attitudes. Large amounts of garbage are observed in front of the schools, as awareness raising and waste collection haven't been integrated in curricula)	<b>2. Insufficient and/or poorly designed ALS</b> (GEF ID 3393, not providing short term compensation for the benefits foregone by abandoning depletion practices)
	<b>2. ALS not cost effective for beneficiaries in the long term</b> (beneficiaries, who have not been able to generate operating and/or capital replacement funds)	<b>3. Absence of Env&amp;Dev nexus</b> (mechanization of hay making of Bourgou for livestock feeding failed as the operation of the equipment was not cost effective, and replanting of forests with Doums Palms (Hyphaene thebaica) failed because their establishment was difficult for farmers and growth takes a long time)	<b>2. Community rather than individual ALS</b> (group ownership may cause delays: plantations must have timely weeding, husbandry of animals must be timely and regular: groups may not respond when due because of different commitment levels. Oil palm plantations, although community owned, are managed by individuals)		<b>3. Lengthy GEF project cycle</b> (GEF funding for BD trust Fund delays disincentivating Govt. funding)	<b>3. Lengthy GEF project cycle</b> (delays in design for all projects, GEF ID 1175 was deeply affected)
<b>Context-related</b>	<b>1. No post project funding to maintain infrastructure</b> (both from Govt/ and donors)	<b>1. Insecurity</b> affecting PA management (Gourma elephant PA staff relocated to Bamako since 2012, solar panel boreholes vandalized)	<b>1. Short term profit seeking economic activities</b> (cattle rearers, logging activities)	<b>1. Govt. priorities favoring economic development over conservation</b> (mining)	<b>1. Govt. priorities favoring economic development over BD conservation</b> (IBAP only exception)	<b>1. Govt. priorities favoring economic development over conservation</b> (central, district and commune levels with the push towards oil and mining explorations in PAs, GEF ID 1175)
	<b>2. Insecurity</b> (2008 coup d'état, terrorist attacks hindering tourists attraction to oases and protected areas)	<b>2. Limited post project funding</b>	<b>2. Demographic pressures</b> (high farming density, bush burning for wildlife hunting)	<b>2. Political interference and weak enforcement of laws and policies</b> (mining concessions, charcoal)	<b>2. Limited/no Govt. post-project financing</b> (IBAP and other PA activities, including national parks and Ramsar sites are 100% donor-funded)	<b>2. Political interference and weak enforcement of laws and policies</b> (when people are told to move out of PAs, they move back towards elections and politicians protect them: L Mburo park de-gazetted areas, GEF IDs 1830, 1175)
	<b>3. Central level project staffs not adsorbed in relevant Govt. institutions</b> (MDR, MoE)		<b>3. Migrants from Nigeria conflict-affected states entering the Ibibi reserve to poach and exploit resources</b>	<b>3. Limited Govt. post-project financing</b> (national and district levels)	<b>3. Weak enforcement of protected areas</b> (cropping in protected areas by foreigners in Senegal, Guinea, illegal hunters and fishermen, often armed)	<b>3. Limited Govt. post-project financing</b> (several examples at national and district levels from all projects)
	<b>4. Govt. uncontrolled private investments in coastal areas</b> (buildings for tourism on land where dune fixation for coastal protection was built)			<b>4. Insecurity</b> (2008 PACV stop for 2 years)		<b>4. Institutional changes</b> (GEF support to the UWA, GEF ID 1830, resulted into strategic plans and management systems still used several years later. PAMSU supported the Wildlife Education Centre, still in operation today. The transition of UWA from a Govt. to an agency for regulating tourism undermined these results)
				<b>5. Govt. uncontrolled private investments in coastal areas</b> (building/tourism)		<b>5. Unfavorable land tenure systems</b> (where people were renting land hindered sustainability, land owners wanted to get back the land back after seeing good profits from it. Insecure land tenure also hindered planting trees in GEF IDs 1175, 3393 and
						<b>6. Demographic pressure</b> (where by people own small pieces of land which leads to encroaching on PAs for settlement, cultivation and grazing, GEF IDs 1830, 1175).
						<b>7. Prolonged dry weather</b> (Lake Mburo lost 90% of the trees planted in recent years, GEF IDs 1830 and 1175)

# ANNEX 4: CLASSIFICATION OF FRAGILE AND CONFLICT-AFFECTED SITUATIONS IN THE BIOMES

Country	Fragile (FY06)	Fragile (FY07)	Fragile (FY08)	Fragile (FY09)	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY18 Peacekeeping (PK)/Peacebuilding & Political Mission (P)	TREND
Benin															
Burkina Faso															
Cameroon				Marginal	3.429										
Central African Republic	Severe	Severe	Core	Core	2.671	2.775	2.850	2.84	2.8	2.4	2.4	2.42	2.45	P	(0.0548)
Chad	Marginal	Core	Core	Core	2.813	2.792	2.742	2.80	2.9	2.9	3.0	3.02	2.99		0.0335
Cote d'Ivoire	Core	Severe	Core	Core	2.70	2.867	2.842	2.85	3.1	3.3	3.4	3.46	3.53	PK	0.1111
Eritrea	Core	Core	Core	Core	2.392	2.283	2.271	2.15	2.0	2.0	2.1	2.02	1.99		(0.0482)
Ethiopia															
Gambia	Marginal	Marginal	Marginal	Marginal	3.250						3.2	3.02	2.93	PK	(0.0341)
Ghana															
Guinea	Core	Core	Core	Core	3.083	2.979	3.050	3.08							0.0062
Guinea-Bissau	Core	Core	Core	Core	2.788	2.850	2.950	3.04	2.7	2.6	2.6	2.60	2.54	P	(0.0480)
Liberia	Severe	Severe	Core	Core	3.125	3.232	3.271	3.38	3.4	3.3	3.3	3.28	3.23	PK	0.0090
Mali									3.7	3.6	3.5	3.53	3.55	PK	(0.0370)
Mauritania		Marginal													
Niger															
Nigeria	Core	Marginal													
Senegal															
Sierra Leone	Marginal	Marginal	Marginal	Marginal	3.217	3.334	3.312	3.33	3.3	3.4	3.3	3.29	3.28	P	0.0028
Somalia	Severe	Severe	Core	Core				1.13	1.2	1.1	1.1	1.11	1.47	P	0.0409
South Sudan									2.2	2.2	2.1	1.92	1.72	PK	(0.1240)
Sudan	Core	Core	Core	Core	2.604	2.513	2.525	2.48	2.5	2.5	2.5	2.49	2.51	PK	(0.0079)
Togo	Core	Severe	Core	Core	2.800	2.913	2.971	2.94	3.1		3.1	3.10	3.11		0.0361
Uganda															

Source: [World Bank 2018](#).

Note: FY=fiscal year.