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## ANNEX II

### List of NEPAD proposed projects

#### *Programmatic Area 1: Combating land degradation, drought and Desertification*

##### *Arab Magreb Union*

- Green belt: Conservation and sustainable use of natural resources in the Magreb countries
- Management of watersheds of wadi Mellegue and M' soun-Inaoune
- Rainwater harvesting and use in the arid and semi-arid zones of the Magreb Union
- Sustainable management of the agro-pastoral resource base in the Magreb zone and Egypt
- Rehabilitation and development of the oases ecosystems
- Promotion of development research for combating desertification in the Magreb Union
- Strengthening of the role of civil society in combating desertification
- Implementation of a long-term ecological monitoring network
- Creation of a observatory for drought, desertification and natural disasters in the UMA and CILSS
- Development of Arboriculture on foot slopes and marginal lands
- Combating sand encroachment in the transboundary area between Algeria and Tunisia (Taleb Larbi-Hazouna)
- Improving and protecting irrigated agricultural land of In Guezzam in the Algeria-Niger transboundary area
- Integrated management of the IGUELEN Tamanrasset zone between Algeria and Mali
- Protection of the trans-Magreb route from Nouakchott-Nouadhibou

##### *CILSS/ ECOWAS Region*

- Support programme for strengthening of management of transboundary rangelands
- Support programme for forest management
- Promoting the establishment and maintenance of shared and/or transboundary protected areas
- Conservation Strategy for Western African Elephants
- Conservation and rational management of sensitive ecosystems (mangroves, humid zones and arid zones)
- Adaptations to climate change in West Africa
- Development of diagnostic tools and monitoring systems for natural resources and the environment in West Africa

- Management of shared natural resources, diversification of livelihoods and strengthening of transboundary integration and combating of desertification
- Pilot transboundary project for the “Le Kantchari” (Burkina Faso and Niger)
- Pilot transboundary project for “L’Azaouak” (Mali and Niger)
- Pilot transboundary project for “Cures Salees”
- Coordination of the control of crop pests and diseases
- Harmonisation of phytosanitary legislation and regulations
- Control of weeds and pests on tree species
- Control of livestock diseases
- Commercialisation of typha australis in the transboundary areas of the Senegal river valley
- Provision of petrol to the sub-region (ECOWAS and CILSS)
- Rural electrification
- Commercialisation of coal mined in Niger in the sub-region
- Communication and Dissemination of Environmental Information in the Volta Basin
- Control of invasive aquatic weeds
- Control of sand encroachment in water courses and coastal areas
- Integrated management of the Oueme river basin
- Integrated Management of Niger river basin;
- Integrated management of Park W
- Integrated management of the upper and middle Niger
- Integrated land and water management in the Illumenden aquifer
- Integrated management of the Fouta Djallon Highlands
- Integrated Management of the Lake Chad Basin
- Integrated Management of the Senegal River Basin
- Integrated Management of the Gambia River Basin
- Integrated Management of the Mono River Basin

### ***CEMAC Region***

- International initiative for the sustainable management of natural resources in the Congo Basin
- Sub-regional programme for training of primary school teachers in combating desertification in the CEMAC Region.
- Generation of information for awareness raising on bush fires in the CEMAC Region.
- Water harvesting in arid and semi-arid zones (Chad, Cameroon, Central African Republic)
- Transfer of water between Oubangui and Lake Chad
- Desertification Observatory in Central Africa
- Development of Sub-regional cooperation strategy for combating desertification
- Development of community based agro-forestry
- Sustainable management of Soil fertility in equatorial humid zones

### ***IGAD Region***

- Household energy for poverty alleviation and women economic empowerment in IGAD sub-region
- Environment Education and Training in the IGAD sub region

- Capacity building in integrated water resources management in the IGAD sub-region
- Building capacity for community based natural resources management in IGAD sub-region
- Strengthening environment pollution control in the IGAD sub-region
- Promotion of sustainable crop production in Drylands of IGAD Sub-region: Management of soil fertility and water-use efficiency
- Promotion of sustainable crop production in Drylands of IGAD Sub-region: IGAD Human resources and gender equity development for semi-arid agricultural research
- Assessment and Mapping of Natural Resources in the IGAD Sub-region
- Assessment and mitigating the impact of invasive plant species
- Natural Resources Use Conflict Resolution Resulting from Droughts and Environmental Refugees
- Rehabilitation and management of Degraded Rangelands
- Strengthening Environment Pollution Control in the IGAD Sub-region
- Promotion of Trans-boundary Ecotourism
- Integrated Watershed Management for two transboundary systems - The Omo-Turkwell-Kerio-Tarch Rivers and L. Turkana Basins and the Juba-Shebele-Ewaso Ngiro River basins

#### ***SADC Region***

- Kalahari-Namib Project on Transboundary Desertification Control in Botswana, Namibia and South Africa
- Demonstration Phase Activities of the Africa Land and Water Management Initiative in the Limpopo River Basin in Southern Africa
- Capacity building for integrated rangeland management in the SADC region
- Assessment of Surface water resources of Southern Africa
- Protection and Strategic Uses of Ground Water Resources in the Transboundary Limpopo Basin and Drought Prone Areas of the SADC Region
- SADC regional project to control infestation and translocation of Aquatic weeds
- Okavango – Upper Zambezi natural resources management project
- Sustainable Conservation of Miombo and Savannah woodlands in the SADC region (Tanzania, Malawi, Mozambique, Zambia and Zimbabwe).
- Lake Malawi / Niasa/ Nyasa Ecosystem Management – Tanzania, Mozambique and Malawi
- Beira Corridor Sustainable Trans-boundary Natural Resources Management Programme
- Promotion of stakeholder participation in water resources management: Feasibility Study for Creating a fund to support NGO and CBO participation in water resources management – programme on means to empower women in water resources
- Networking / Information sharing on CCD in the SADC region
- Okacom water resources management
- Biodiversity conservation participatory development
- **Integrated Management in the south south-west region of Madagascar (Province Toliara)**

### ***Regional Action Programme***

- Ecological monitoring, mapping of Natural Resources, remote sensing, and early warning within the context of the regional action programme for Africa of the UNCCD
- Geographic Information System (GIS) on water resources in the countries of UMA and Egypt
- **Promoting cultivation and marketing of Agroforestry fruit trees for food, nutrition and improved incomes for small scale farmers in African countries.**

### ***Programmatic Area 2: Conserving Africa's wetlands***

- Capacity building for wetlands assessment, planning, management and monitoring in Africa
- Strengthening the information base and the opportunities for sharing experiences for the management of wetlands in Africa
- Restoration and rehabilitation of African wetlands
- Integrated management of Wetlands Ecosystems in Major Lake/River Basins in Africa
- Sustainable management of wetlands to enhance communities' livelihoods
- Management, restoration and rehabilitation of coastal wetlands
- Assessment and monitoring of Africa's freshwater ecosystems
- Improving Africa's freshwater ecosystems governance and management
- Valuing Africa's freshwater ecosystems in economic development and poverty alleviation

### ***Programmatic Area 3: Prevention, Control and Management of Invasive Alien Species***

- Assessment and Mitigation of the Impacts of Selected Plant Invaders (*Prosopis juliflora*, *Acacia* spp.) in Agriculture, Forestry and Rangelands in IGAD
- Sustainable management of key invasive woody species in Southern Africa
- Assessment and Mitigation of the Impacts of Selected Woody Alien Plant Invaders (*Prosopis juliflora*, *Acacia* spp.) in Agriculture, Forestry and Rangelands in Africa
- Assessment and mitigation of the impacts of water hyacinth *Eichornia crassipes* and other invasive alien aquatic plants (Pan-African)
- Control of the invasive Indian House Crow on the Eastern Africa coast and its hinterland
- Mitigation of Impacts of IAS Caused by Trade and Development Aid
- African Islands Biological Control Programme
- African Risk Assessment Programme
- Pilot programme to prevent invasive alien species entering through airports
- Hull Fouling/*Caulerpa* Prevention Programme
- Mariculture Monitoring Programme
- African Ballast Water Programme
- Raising Awareness and Providing Information to Enable the Effective Management of IAS in Africa

- Assessment of the Existing Institutional and Human Capacity to Enable the Effective Management of IAS in Africa

***Programmatic Area 4: Conservation and sustainable use of marine, coastal and freshwater resources***

- Municipal Solid Waste Management and Enhancement of Environmental Quality in sub-Saharan Africa.
- Management of Municipal Sewage in sub-Saharan Africa through Appropriate Technologie
- Control of eutrophication in semi-enclosed area
- Prevention of Pollution from Shipping Activities and Strengthening of National and Regional Oil Spill Management Systems in sub-Saharan Africa .
- Development of a conceptual framework for a control of eutrophication of lakes and reservoirs, with particularly attention to non-point source of pollution
- Mitigation of coastal erosion and restoration of degraded areas in sub-Saharan africa
- Development of Sound Land-use Practices and Reduction of Suspended Solids in Estuaries and Lagoons in Sub-Saharan Africa
- Addressing land degradation to mitigate sediment impacts on the aquatic environment
- Mitigation of coastal erosion caused by oil and gas exploration activities.
- Mangrove Management in sub-Saharan Africa.
- Improving the Protection and Stability of Coral Reefs and Associated Communities
- Conservation of Biodiversity through the Enhancement and or Establishment of Marine Protected Areas in sub-Saharan Africa
- Assesment and mitigation of the ecological and socio-economic impacts of destructive fishing practices in Sub-Saharan Africa
- Strengthening management, monitoring, control and surveillance capacity in fisheries management organizations in sub-Saharan Africa
- Management of invasive species in the aquatic environment
- Addressing Transboundary problems of freshwater ecosystems biodiversity
- Promoting the Establishment of RAMSAR Sites and Developing a Participatory and Integrated Approach for River Basin Management in sub-Saharan Africa
- Supporting the Development and Implementation of Integrated Coastal Area Management (ICAM) in Sub-Saharan Africa
- Enhancement and Conservation of Ecosystems Functions for River Basins and Associated Coastal Areas in Africa
- Development and Application of River Basin Information System on the Integrated Management of Africa's Transboundary River Basins
- Integrated Watershed and Coastal Areas Management of SIDS in Africa
- Impacts of dams and related development activities in the river basins.
- Reduction of environment Impact from Coastal tourism through introduction of policy changes and strengthening public-private partnership
- Promotion of alternative livelihood strategies in sub-Saharan Africa
- Mariculture and Aquaculture development in sub-Saharan Africa
- Augmenting urban water resources
- Groundwater vulnerability
- Transboundary aquifer management (Kalahari Aquifer System - Botswana, Namibia, Angola& Zaire ; Great Oriental Erg Aquifer System - Algeria, Tunisia and Nubian Aquifer System - Egypt Libya, Sudan, Chad
- Impact of global climate change on key marine and coastal ecosystems in sub-Saharan Africa

- Assessment of the Vulnerability of sub-Saharan Coastal Zones to the different Impacts of Climate Change (included sea level rise)
- Establishment of adaptation strategies for impacts of climate change on water availability and quality
- Addressing land-based activities in the Western Indian (WIO-LaB)
- **Combating coastal area degradation and living resources depletion in the Guinea Current LME through regional actions**
- **Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal areas**
- **Management of the Iullemeden Aquifer System - Mali, Niger, Nigeria**
- **Industrial waste including hazardous waste, toxic chemicals, POP's, including modeling and data collection**
- **Erosion caused by oil and gas exploration activities; (c) Freshwater ecosystem biodiversity**
- **Impact of dams and related development activities in the river basin Aquaculture**
- **Market facilities**
- **Tourism in inland waters**
- **Infrastructures to be addressed at national level**
- **The GOOS-Africa project – Regional operational observing, monitoring and forecasting system in Africa (ROOMFSA) will be included in the portfolio.**

#### *Programmatic Area 5: Combating climate change in Africa*

##### **Ongoing**

- Climate, water and agriculture: Impacts on and Adaptation of Agro-ecological systems in Africa (Regional- Burkina Faso, Cameroon, Egypt, Ethiopia, Ghana, Kenya, Niger, Nigeria, Senegal, South Africa, Zambia and Zimbabwe)
- National Adaptation Programmes of Action (NAPAs)
- Assessments of Impacts and Adaptations to Climate Change (AIACC)
- Capacity Building for Observing Systems for Climate Change.
- Refinement of early warning systems to enable timely remedial measures:
- Dialogue on Water and Climate in the sahel region (see IUCN West Africa office)
- Vulnerability and adaptation to climate change in the Sahel: project funded by the Canadian and implemented by the CILSS.

##### **Projects proposed**

- Integrated Assessment of Vulnerability to Climate Variability and Change and Response Strategies in Africa: (Learning about climate change from local action to national dialogues in Africa; Climate risk management and Adaptive resource management Carbon management for sustainable livelihood)
- Supporting public outreach and education programs on climate change
- Strengthening shared river basin management and develop sub-regional water resource strategies: (a) Incorporating climate change adaptation concerns into integrated watershed management plans for three watersheds in the Maghreb (Algeria, Morocco, Tunisia) (b) Assessing the Impacts of and Adaptation to Climate Change on the Watershed of the Gambia River Basin
- Building capacity for early warning (**early warning, seasonal forecasting and development of tools**)
- Environmental intervention to climate variability, malaria and poverty in the East African Highlands
- Impact of global climate change on Key Marine and Coastal Ecosystems in sub-Saharan Africa: (**develop predictions, build capacity and promote outreach**)

- Assessment of the Vulnerability of sub-Saharan Coastal Zones to the Different Impacts of Climate Change (included sea level rise): **(Measure historical sequences, identify vulnerable coastal areas, characterise vulnerability and identify adaptation options)**

*Energy projects*

- Mepanda Uncua hydropower Power Station **to** be built on the Zambezi river 60 km downstream from Cabora Bassa Dam in **Mozambique** to address the growing electricity demand in Mozambique
- Ethiopia-Sudan power systems interconnection between Debre Markos substation in Ethiopia with Roseires power station in eastern Sudan to enable synergetic benefits through power trading
- West Africa Power Pool to integrate power systems across eight countries
- Strengthening Algeria-Morocco-Spain interconnection by laying a 400 kV between Morocco and Spain; electing 400 kV substations in Morocco, Algeria and an overhead 400 kV line between these substations; and strengthening transmission networks in Morocco.
- Algeria gas-fired power station and Algeria-Spain interconnection which entails developing a 2000MW of combined cycle gas turbine power plant in Algeria. 40% will be for domestic use and the balance for export to Europe through Spain
- Mozambique-Malawi interconnection to **link Matambo substation in Mozambique to Phombeya substation in Malawi.**
- Kenya-Uganda oil Pipeline to link Eldoret to Kampala hence enabling flow from Mombasa direct to Kampala.
- West African Gas Pipeline to deliver natural gas from western Niger delta to Takoradi, 8Ghana, Cotonou (Benin), Lome (Togo) and Tema (Ghana).
- Tunisia-Libya gas pipeline to link Mellita terminal in Libya with Gabes terminal in Tunisia and hence enable importation of natural gas from Libya
- DRC-Grand Inga integrator study to look into the feasibility of developing a hydropower at Grand Inga and transmitting power to sub-regions and later interconnecting to Europe and the Middle East.
- DRC-Angola-Namibia Interconnection study to assess the possibility of interconnecting existing Inga to the Northern Angola grid, and northern to the southern grid in Angola, and Angolan grid with Namibian grid and transmitting power from DRC and Angola to South Africa.
- Nigeria- Algeria Gas Pipeline study to investigate the possibility of wheeling Nigerian natural gas through Algerian networks to Europe and how countries through which infrastructure will pass can benefit.
- Master Plan for sub-regional interconnections TOR
- Capacity Building: Operationalisation of African Energy commission (AFREC); Capacity building of REC and Training Energy experts
- Facilitation projects: activities include preparation and adoption of policies; preparation and adoption of energy protocol; proposals for co-operation in new and renewable sources of energy; generation of proposals for co-operation in oil/gas trade, procurement, refining and processing and distribution; generation of proposal on co-operation in rural energy.
- Development, elaboration and marketing of a sub-regional proposal on gas flaring for funding under the climate change mechanisms (such a project would demonstrate how to access funds under these mechanisms)
- Identification of Renewable energy initiatives and strategies on how NEPAD can access these
- Establishment of sustainable link and working module between climate change experts and energy initiative

- **Capacity development for sustainable development and Clean Development Mechanism (CDM).**
- Evaluating synergistic effects of adaptation with mitigation activities

### ***Programmatic Area 6: Cross-border & NRM***

#### ***Forests***

Support to forest programme development

- Mapping and inventory (knowledge) of forest ecosystems
- Monitoring and assessment
- Protected areas
- Private sector partnerships
- Civil society partnerships
- Forest law enforcement and governance
- Carbon trading via storage/sequestration (linked to protected areas)
- Reforestation for improved ecosystem services

### ***CROSS-CUTTING ISSUES***

#### **Health & Environment**

##### **Existing projects**

- Support for the implementation of the Stockholm Convention on POPs
- Development of national implementation plans for the management of POPs
- Reducing reliance on agricultural pesticides use through integrated production and pest management and establishment of community-based pollution prevention system in Senegal and Niger River Basins
- Regionally based assessment of persistent toxic substances
- Agrochemical pesticides project
- MIRT (Minority international research training) Programme
- Chemical Information Exchange (CIEN)
- Preparation of national inventories of PCBs and PCB-containing equipment in the SADC sub-region
- African stockpiles project
- Survey of chlorinated Dioxins, Dibenzofurans and PCBs in the major waters of South Africa
- Atmospheric environmental issues in developing countries
- National chemical profile development
- Action plan development as part of an integrated chemicals management programme
- GHS implementation

##### **Projects proposed**

#### ***Environmentally Sound Management of Pesticides and Other Toxic Chemicals***

- Education and awareness
- Establishment of Poison Centres

- Development of emergency response plans
- Development of African input into the Strategic Approach to International Chemicals Management
- Assessment, development and implementation of health indicators
- Implementation of GHS
- Prevention of illegal traffic in chemicals
- Eliminate stockpiles of obsolete pesticides from Africa

#### ***Waste management***

- Sewage system / Waste waters
- Solid Waste Management
- Environmentally sound management of hazardous waste
- Develop and implement waste minimisation programmes
- Management of Obsolete Stockpiles (ASP covers pesticides -need Industrial chemicals)

#### ***Support infrastructure***

- Establishment of environmental information management systems
- Establishment of improved capacity in: laboratory, scientific risk assessment
- Monitoring of environmental contaminants in environmental samples and marketable products

#### ***Sustainable Production and Consumption***

- Assessment of current status of production facilities
- Capacity to assess alternative cleaner production technologies
- Development of cleaner production capacity
- Research into alternative approaches to use of current hazardous formulations
- Development of strategies for remediation of contaminated sites
- Development of integrated vector management programmes

#### ***Networking and information dissemination***

- Support for development and enforcement of legislative frameworks
- Dissemination of information on chemicals and pesticides
- Co-ordination amongst countries on cleaner production centres, poison centres and laboratories

#### ***Atmospheric pollution (reduction of particles and harmful gases)***

- Reduction of emission from automobiles
- Elimination of lead in gasoline
- Strengthening of legislation related to vehicle emissions

### **Poverty & Environment**

#### ***Programme & project areas***

- Promotion of good governance (institutional)
- Capacity development for formulating, implementing and monitoring policies and strategies at the regional, national and local levels (technical)
- Promotion of community based natural resources management
- Prevention, resolution and management of conflicts
- Developing and implementing vertically and horizontally integrated sound strategies
- Environmental information, education and public awareness
- Promoting sustainable agricultural practices through promotion of science and technology
- Promote sustainable energy

- Improving the policy (macroeconomic and sectoral) environment with the view to attracting foreign investment and facilitate factor (capital and labour) mobility
- Cross country harmonisation of policies and strategies
- Promote integrated management of natural and human induced calamities and move towards sustainable development