

**GMS CORE ENVIRONMENT PROGRAM - MILESTONES AND INDICATORS (2013 - 2016)**

Component	Sub-component	Activity	MILESTONES				2016 Performance Targets
			2013	2014	2015	2016	
Environmental planning systems, methods, and safeguards improved	Sub-component 1.1 - Planning	Conduct economic assessment of natural capital and valuation of ecosystem services	Initial analytical framework for the economic assessment of natural capital and ecosystem services established.  - Scope of natural capital and ecosystem services study defined. - Key partners and implementing arrangements identified.	Awareness of economic value of natural capital and ecosystem services increased  - Dialogue between government, universities and regional think tanks initiated through a regional event	Economic value of natural capital and ecosystem services in the GMS established  - Regional and national maps on economic value of natural capital and ecosystem services available interactively online and in publications	Economic values of natural capital and ecosystem services in the GMS integrated into strategic planning procedures  - Study results and statistics/maps used in at least 4 area-based and/or sector plans	- Environmental and social considerations included in at least 12 GMS sector or corridor strategies and plans  - At least 150,000 people in the GMS economic corridors benefit from environmental measures, with at least 35% of them being women  - At least 150 agency staff (at least 35% women) able to implement safeguard assessments  - At least two new or updated legal instruments (laws or regulations) at a sector or national level supporting SEA or related tools prepared in GMS countries  - At least five GMS strategic plans and environmental reports supported by the EOC Environment Information System.
		Support multi-sector/ area-based planning	Entry points for integrating environmental considerations into area based planning identified  - Scoping study for strategic planning support completed. - Key partners and implementing arrangements identified.	Technical capacity of national planners and practitioners (NSU, government, universities, national think tanks) for integrated planning improved.  - At least three GMS based universities trained in SEA and related tools. - At least two cross sector dialogues held for decision makers and practitioners	Planning systems for multi-sector / area-based plans strengthened  - SEA guidelines adopted and followed by concerned sector line agencies - Pilot planning support tools and procedures on three area-based plans	GMS area-based plans have natural capital and ecosystem service values, climate change aspects, and gender and social considerations in-built  - Documented changes in three area-based plans	
		Support sector planning	Entry points for integrating environmental considerations into priority sector plans (energy) identified  - Scoping study for strategic planning support for energy sector completed. - Key partners and implementing arrangements identified.	Technical capacity of national SEA practitioners (NSU, government, universities, national think tanks) to support energy sector planning improved.  - At least 30 government officials, researchers and practitioners trained in SEA and related tools	Planning systems for sector plans strengthened  - Pilot planning support tools and procedures on two energy / power development plans	Power / energy development plans have natural capital and ecosystem service values, climate change aspects, and gender and social considerations in-built  - Documented changes in energy sector plans in two countries	
	Sub-component 1.2 - Safeguards	Strengthen country environmental safeguard systems	Capacity gaps for safeguards application identified  - Safeguards gap analysis completed in at least 1 GMS country - Capacity development action plan developed in at least 1 GMS country - EIA procedures, standards and guidelines development initiated for one GMS country - At least 3 safeguards related capacity development and regional exchange events delivered	Capacity for application of safeguards systems strengthened  - Safeguards gap analysis completed in at least 1 additional GMS country - Capacity development action plan developed in at least 1 additional GMS country - Capacity development action plans implemented in at least 2 GMS countries through capacity building and technical support	Capacity for application of safeguards systems strengthened  - Technical support for application of safeguards practice in at least 3 countries - 1 regional exchange event on safeguards good practice delivered	Application of country safeguards systems improved  - Documented improvement in safeguards application at national and sub-national levels in at least 3 GMS countries  - Enhanced EIA regulations and supporting guidelines being applied in at least two GMS countries	
		Strengthen safeguards application in ADB-funded GMS projects	Entry points for safeguards strengthening support in ADB operations identified  - Technical support provided for safeguards application in ADB projects in at least 1 GMS country - Dialogue initiated for safeguards application with ADB teams in at least 2 GMS countries	Safeguards application for ADB-funded projects supported  - Technical support provided for safeguards application in ADB projects in at least 2 additional GMS country - Dialogue initiated for safeguards application with ADB teams in at least 1 additional GMS country - Country programming supported in at least 2 GMS countries - At least 100 practitioners trained	Safeguards application for ADB-funded projects supported  - Technical support provided for safeguards application in ADB projects in at least 1 additional GMS country - Country programming supported in at least 1 additional GMS country - Technical contribution to at least 1 guideline on safeguards good practice - At least 150 practitioners trained	Safeguards application for ADB-funded projects supported  - Contribute to review of ADB safeguards effectiveness in at least 1 GMS countries - Technical contribution to at least 1 guideline on safeguards good practice	

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	Sub-component 1.3 Monitoring	Establish a GMS Environmental Information System	Interactive knowledge platform (GMS Environmental Information System) launched  - Implementing arrangements identified - New website launched with enhanced tools - Indicator portal receives at least 100 hits per month within 6 months of launch	Map portal of GMS Environmental Information System enhanced and promoted  - Map portal receives at least 100 hits per month within 6 months of launch - At least five EOC GIS data downloads per month and at least five external websites using Web Map Service within the first 6 months from launch	GMS Environmental Information System recognized as a key resource center for development practitioners in the GMS  - Indicator portal receives at least 200 hits per month - Map portal receives at least 200 hits per month	GMS Environmental Information System is upgraded to support additional environmental analyses  - At least two analytical tools developed and disseminated through EIS (e.g. online carbon calculator, land change model)	
		Strengthen subregional and national environmental monitoring database	EIS established with quality data / indicators to support national-level monitoring needs  - At least 30 national indicators developed and updated annually - Five national/two provincial EPA reports and one subregional EPA synthesis report published and disseminated	EIS co-maintained by National Support Units (EOC quality control).  - All existing NSUs have at least 1 data support staff identified and trained - 45 indicators developed and updated annually, with national data contributed by NSU staff - One prefecture-level EPA report published and disseminated	National government agencies and ADB planning and environmental performance reporting documents supported by EIS data.  - At least ten plans and publications make use of EIS data - At least three geographic layers of regional importance developed in-house	Development of new knowledge products supported by EIS data.  - At least 1 new subregional environmental performance reporting format established (e.g. Environmental Performance Update)	
		Develop and implement a monitoring strategy for transboundary biodiversity landscapes	Landscape and site level monitoring framework developed and endorsed  - Monitoring framework and performance indicators identified for transboundary biodiversity landscapes and biodiversity conservatin corridors (for at least 6 landscapes)	Landscape and site level monitoring applied  - At least ten key indicators on landscape and corridors reported and recorded in EIS - Qualitative 'Impact stories' function developed and integrated with site level statistics portal (for at least 6 landscapes)	Landscape and site level information maintained and used by stakeholders (government, NGOs)  - Village surveys data recorded in EIS and readily accessible	Landscape and site level information featured in provincial planning and safeguards  - Site level data used in at least 6 landscape management strategies and site management plans	
Management of transboundary biodiversity conservation landscapes and local livelihoods improved	Sub-component 2.1 - Biodiversity landscape monitoring and management	Conduct biodiversity landscapes assessment to inform management strategy	Initial analytical framework for biodiversity landscape assessment. - Scope of biodiversity landscapes assessment identified - Implementing and coordinating partners identified	Biodiversity profiling assessment initiated in key GMS landscapes - At least 30 stakeholders trained in methodologies on biodiversity landscape assessment - Biodiversity profiles updated for at least 3 GMS landscapes - Regional knowledge/information sharing and exchange mechanism initiated	Biodiversity profile and monitoring database completed - Biodiversity profiles for at least 3 landscapes available through GMS EIS and other platforms - Draft biodiversity landscape strategy and management plan (regional and landscape levels) prepared	Improved access to outputs from biodiversity profile and monitoring database - Biodiversity profile and landscape assessment results (maps) readily available for 3 landscapes, and documented usage in at least 5 EOC / country / partner documents (e.g. NBSAP)	- Biodiversity corridors are gazetted in at least three GMS countries  - Management and operational plans are formulated and implemented in at least three biodiversity conservation corridors  - Payment for environmental services guidelines developed in at least two countries  Innovative livelihood interventions

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		Strengthen management of transboundary biodiversity landscapes	Collaboration for management of transboundary biodiversity landscapes initiated  - Multi-sector technical working groups in at least 3 transboundary biodiversity landscapes established	Collaboration for management of transboundary biodiversity landscapes strengthened  - Collaborative mechanisms for management of at least 3 transboundary biodiversity landscapes identified - At least 3 transboundary exchange mechanisms initiated	Management and connectivity of high priority areas within transboundary biodiversity landscapes strengthened  - Transboundary biodiversity landscape management guidelines developed in at least 3 landscapes and being applied - Guidelines to include climate-smart conservation strategies - MoU to improve management of high priority areas within transboundary biodiversity landscapes in at least 3 landscapes signed	Climate-integrated conservation plans for the six transboundary biodiversity landscapes developed  - Transboundary biodiversity landscape management guideline applied in at least 3 landscapes - Management plans for six transboundary landscapes prepared and endorsed by government in at least 3 transboundary biodiversity landscapes	Innovative livelihood interventions are tested in at least three biodiversity conservation corridors
		Develop and test community based conservation options	Community based conservation options for piloting identified  - LoA approved for at least 3 GMS countries - At least 50 practitioners with 35% of women trained in management of local delivery mechanisms	Community based conservation options tested  - 150 practitioners trained in biodiversity conservation management skills - Impact assessment of Phase 1 support completed in 3 corridors - Zoning activities completed for at least 3 conservation corridors - Establish/ strengthen CDFs in at least 30 communities	Community based conservation practices improved  - Guidelines for ecosystem restoration in place in 3 corridors - Restoration / rehabilitation methodology tested and applied / expanded in at least 3 conservation corridors - Role of CDF as a financing mechanism to promote biodiversity conservation demonstrated in at least 3 corridors	Investment plans for up scaling of biodiversity conservation interventions in place  - Investment proposals on biodiversity conservation developed for at least 3 transboundary biodiversity landscapes	
	<b>Sub-component 2.2 – Value chain development</b>	Identify ecosystem-based livelihood options	Ecosystem based livelihood options scoped and analyzed  - Key partners and implementing arrangements identified - Scoping study for ecosystem based livelihood options in the GMS landscapes initiated - Locations, stakeholders, including key value chain actors of potential green products identified	Potential investment-worthy livelihoods development and employment generation opportunities based on ecosystem goods and services identified  - At least three potential “green” agriculture & forestry products ecotourism services identified and selected for value chain development for each of the transboundary biodiversity landscape	Capacity of GMS stakeholders to identify and implement cost-effective green value chain development improved  - Capacity gaps for implementation of green value chain analyzed - Capacity of national and provincial government stakeholders / actors for value chain implementation strengthened		
		Develop and test ecosystem-based livelihood options		Piloting of livelihoods opportunities (agro-forestry products and ecotourism services) initiated  - Partnership with development and implementing agencies on green value chain promotion built - Key stakeholders, green value chain actors and implementation arrangement identified - Resources for implementation of selected value chains mobilized	Livelihoods development interventions successfully piloted  - Green value chain interventions piloted in at least 3 biodiversity conservation corridors	Investment plans on scaling up livelihoods development interventions prepared  - At least three investment proposals on “green” value chains developed - Livelihoods (cash and noncash elements) of at least 50% of participating households in pilot communities improved, with at least 35% women beneficiaries	

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Climate-resilient and low-carbon strategies developed	Sub-component 3.1. – Adaptation	Strengthen capacity to use climate change data and information for planning	Knowledge transfer mechanism between academia and decision makers improved - Loose framework for dialogue and knowledge exchange between academia and decision makers established and key knowledge gaps identified - Key partners and implementation arrangement identified	Up-to-date climate risk analytical tools, guidelines and knowledge outputs developed and disseminated (knowledge transfer) - An on-line technical support system established to support GMS practitioners assess climate risks and plan adaptation measures	Improved on-line access to a regional knowledge base on climate change adaptation - Documented usage of the climate change tools and products in support of at least 5 national / regional initiatives.	Country capacity to use climate change data and information for planning improved. - Climate change adaptations integrated into at least 3 strategies/investments.	At least four national, provincial or city-based MRV systems developed  At least four investment proposals on low-carbon technologies and/or climate change adaptation prepared  Climate change coping strategies tested in, and of benefit to, at least 150 community groups, with at least 35% women beneficiaries
		Strengthen capacity for risk assessments and identification of adaptation interventions	Capacity gaps in climate risk assessment in GMS identified and plan for capacity building developed - Capacity building plan and target beneficiaries identified - Key partners and implementation arrangement identified	Capacity of GMS institutions and practitioners to assess climate change vulnerability strengthened - At least 30 practitioners trained in applying climate risk assessment framework with 10 demonstrating the ability to perform risk assessments - Climate risk assessment conducted in at least 30 communities in BCC sites - Climate risk assessment conducted in at least 3 transboundary biodiversity landscapes - Recommendations for integrating adaptation into planning systems developed	Capacity of GMS institutions and practitioners to identify adaptation interventions improved - Cost-effective adaptation options (including ecosystem based adaptation, EbA) identified through participatory process for at least 30 communities in BCC sites. - At least two existing and pipeline environmental and development investments incorporate adaptation interventions. - Guidelines developed to integrate climate smart conservation in landscape management	Capacity for risk assessments and identification of adaptation interventions sustained - Additional 30 practitioners from local institutions trained by original batch CEP trainees (training of trainers).	Annual carbon emissions of participating companies or households in pilot projects reduced by at least 10%
		Develop and pilot cost-effective adaptation options	Entry points for introducing adaptation options at the community level scoped and analyzed - Scoping study for climate risk financing opportunities in the transboundary biodiversity landscapes initiated.	Opportunities for pilot intervention identified. - Detailed feasibility studies conducted and pilot implementation plan developed - Key partners and implementation arrangement identified	Cost-effective local level adaptation options piloted - Climate change coping strategies tested and benefit at least 100 community groups, with at least 35% women beneficiaries - Where applicable, commune development funds and community conservation agreements serve as instruments to implement climate change adaptation interventions	Pilot projects successfully implemented and opportunities for mainstreaming and investment identified. - Climate change coping strategies benefit at least additional 50 community groups, with at least 35% women beneficiaries - Investment proposals on climate change adaptation developed for at least three transboundary biodiversity landscapes	
	Sub-component 3.1. – Sustainable forest management / REDD+	Strengthen national REDD+ strategic planning and policy instruments	National level REDD+ investments leveraged - National REDD+ strategy and road map formulated in Thailand - REDD+ investments leveraged in at least one additional GMS countries (e.g. FIP)				
		Strengthen capacity for forest carbon monitoring	Capacity gaps for monitoring in support of REDD+ identified - Capacity building plan and target beneficiaries identified - Key partners and implementation arrangement identified	Capacity to monitor forest carbon stocks improved - Participatory Forest / Carbon Monitoring (PFM/PCM) tested in at least 30 communities in biodiversity conservation corridors - Demonstrated improvement in capacity to apply these methods in at least 30 communities		Regional discussion on development of MRV/ REL system methodologies initiated - At least 2 regional exchange events on REDD+ methods held	

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		Develop and test Reducing Emissions from Deforestation and Degradation (REDD+) systems with equitable and inclusive benefit sharing		Role of community development funds in REDD+ benefit sharing evaluated - Evaluation of community development funds and community conservation agreements as potential REDD+ benefit distribution system (BDS)	Role of community development funds in REDD+ benefit sharing evaluated - Equitable and inclusive BDS piloted in at least 10 communities in biodiversity conservation corridors	Recommendations for integrating REDD+ into local planning systems developed - REDD+ action plans developed for at least 10 communities in biodiversity conservation corridors	
	<b>Sub-component 3.3. - Mitigation</b>	Strengthen policy frameworks and raise awareness in support of Nationally Appropriate Mitigation Actions (NAMAs)	Capacity and knowledge gaps for development of NAMAs in the GMS identified - Entry points for the development of NAMAs in the GMS identified Key partners and implementation arrangement identified	Capacity for formulation of climate change mitigation actions strengthened - At least 30 GMS officials trained in NAMA formulation	Sectoral climate change mitigation actions formulated - NAMA feasibility for one sector / sub-sector identified for 2 GMS countries	National frameworks for climate change mitigation strengthened - NAMA concepts for at least 1 GMS country submitted to UNFCCC registry	
		Strengthen technical capacity for mitigation monitoring, reporting and verification (MRV) systems		Capacity and knowledge gaps for NAMA MRV systems identified - Capacity building plan and target beneficiaries identified - Key partners and implementation arrangement identified	Capacity of GMS institutions to monitor GHG emissions for low carbon actions (e.g. NAMAs) improved - At least 30 GMS officials trained in scenario development and GHG inventory tools - MRV system in support of NAMAs designed for sector / sub-sector development plan / investment in at least 2 GMS countries	MRV systems for NAMA / low carbon actions strengthened - MRV system in support of NAMAs piloted for sector / sub-sector development plan / investment in at least 2 GMS countries	
		Develop and test low carbon interventions for transport and energy sectors	Institutional mechanism to deploy low carbon / green freight actions designed - Key partners and implementation arrangement identified	Benefits of low carbon / green freight interventions demonstrated - Fuel consumption of at least 300 trucks reduced by 10%	Financing mechanism to deploy low carbon / green freight actions piloted successfully - Financing leveraged for green freight interventions in at least 6 companies - Investment plan prepared for low carbon / green freight in at least 2 GMS countries	Financial and technical feasibility of low carbon interventions for communities (i.e. energy efficiency, decentralized energy) assessed - Potential low carbon interventions for at least two transboundary biodiversity landscapes identified	
<b>Institutions and financing for sustainable environmental management improved</b>	<b>Sub-component 4.1 – Institutions</b>	Strengthen WGE's role in promoting regional collaboration	Dialogue on collaboration with other sector groups initiated  - Increased integration of WGE in GMS sector group meetings against previous year - Collaborative meeting held between WGE and 1 sector working group - Areas for collaboration identified and concept for joint project / activity prepared with at least 1 sector	Areas of collaboration with other sector groups identified  - Increased integration of WGE in GMS sector group meetings against previous year - Increased collaboration between activities under CEP and at least 3 other sector working groups - Program progress and future directions for collaboration endorsed / supported by environmental ministries and relevant line ministries	Collaborative projects with other relevant sectors initiated  - Increased integration of WGE in GMS sector group meetings against previous year - At least two projects initiated with other sector groups (activities implemented under component 1,2 and 3)	Collaborative projects with other relevant sectors implemented  - At least two projects successfully piloted with other sector groups (activities implemented under component 1,2 and 3)	- NSUs fully operational in at least five countries  - At least 50% of EOC professional staff are from GMS, at least 40% of them women  - At least two bankable private sector projects in environment and natural resources developed and collaboration secured  - At least two joint projects involving WGE and other GMS sector agencies implemented
		Establish NSUs capable of program implementation and sector coordination	Structure, function and capacity needs identified for NSUs  - LoAs including operational framework for NSUs signed in at least 5 countries - Capacity and resource needs identified for NSU in at least 5 countries - NSU coordinators and staff recruited in at least 3 countries	NSUs operationalized and capacity to coordinate program activities strengthened  - NSU coordinators and staff recruited in all countries - NSU staff trained in program implementation and coordination at regional and national levels - Regular reporting and work planning conducted by NSU staff in at least 5 countries	Capacity of NSU staff to direct program activities strengthened  - NSU staff trained in technical areas of program implementation at regional and national levels - NSU staff engaging in procurement and recruitment for program activities - NSU staff leading field missions for program activities	NSUs capacities sufficiently strengthen to support sub-regional knowledge sharing  - NSU staff lead identification of future priorities	

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		Strengthen EOC's role as a knowledge hub for environmental management	Capacity of EOC to support WGE in place and effective communication systems established  - EOC staffing (including GMS nationals) in place covering all program thematic areas - EOC staff trained in program implementation - Communication and capacity development strategies finalized - Internal knowledge management system in place - Regular and timely implementation updates and progress reports	EOC role for capacity building and knowledge exchange strengthened  - Cross program capacity building monitoring system operational - At least 1 regional training program and 3 regional knowledge events held - Website visitors increased by 20% over previous year - At least 2 publications produced	EOC role for capacity building and knowledge exchange strengthened  - Establish loose network of practitioners (with thematic areas) trained through the program - At least 1 additional regional training program and 3 additional regional knowledge events held - Website visitors increased by 20% over previous year - At least 3 additional publications produced - Future role of EOC in environmental cooperation in the GMS identified	EOC role for capacity building and knowledge exchange recognized externally  - Documented improvement in capacity of practitioners trained through the program - EOC contributes to directions for future environmental cooperation - Documented usage of EOC knowledge products in at least 2 external publications / planning documents in all GMS countries	
	<b>Sub-component 4.2 – Financing</b>	Support development of sustainable financing mechanisms	Entry points for introducing PES options at the country level identified  - Scoping study for PES in the GMS countries initiated - Key partners and implementation arrangement identified	PES interventions identified and tested  - Feasibility study conducted and pilot implementation plan developed for at least 2 GMS countries - Capacity gaps for implementation of PES analyzed - PES interventions identified and piloted in at least 1 GMS country	Awareness of the role and value of PES approach strengthened  - PES interventions identified and piloted in at least 1 additional GMS country - Capacity building for PES delivered for 30 stakeholders - Pilot PES lessons shared through at least 2 regional / national events in GMS countries	National approach for PES strengthened  - Two PES guidelines developed - PES interventions successfully piloted	
		Develop investment projects and promote private sector partnerships	Entry points for collaborating with private sector and for potential investment identified  - Private sector partners identified for at least 2 activities - RIF pipeline of environmental projects developed	Areas for collaboration with private sector and potential investment opportunities identified  - At least 1 collaborative activity with private sector partners initiated	Concrete opportunities for private sector partnerships and investment identified  - At least 1 additional collaborative activity with private sector partners completed initiated - 3 investment frameworks prepared - Potential funding sources identified	Further funding to support GMS countries to improve environmental management leveraged  - Phase 3 investment plan developed - 2 new investment leveraged for environmental management in GMS	