

Regional Investment Framework (RIF) 2022 Monitoring and Progress

**RPTCC-25
Bangkok, Thailand
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Asian Development Bank**



Outline

1. Background
2. Overview of the RIF 2022: First Progress Report and Update
3. RIF 2022 Updating and Progress Reporting Process
4. RIF 2022, Changes and Updated Composition
5. Next Steps



BACKGROUND

6th GMS Leaders' Summit

"We hereby adopt and give full support to the HAP and RIF, which will guide the GMS Program in the medium term. The RIF is a "living pipeline" of projects that will be reviewed and updated regularly to adapt to changing conditions and priorities."

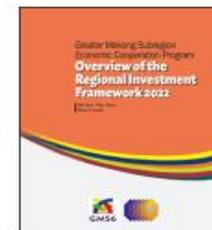
– GMS Leaders Joint Summit Declaration

Ha Noi Action Plan (HAP) 2018-2022

sets refined strategic directions and operational priorities in the remaining 5 years of the GMS Strategic Framework 2012-2022

Regional Investment Framework (RIF) 2022

A "living" pipeline of 247 projects worth \$81 billion to support the HAP

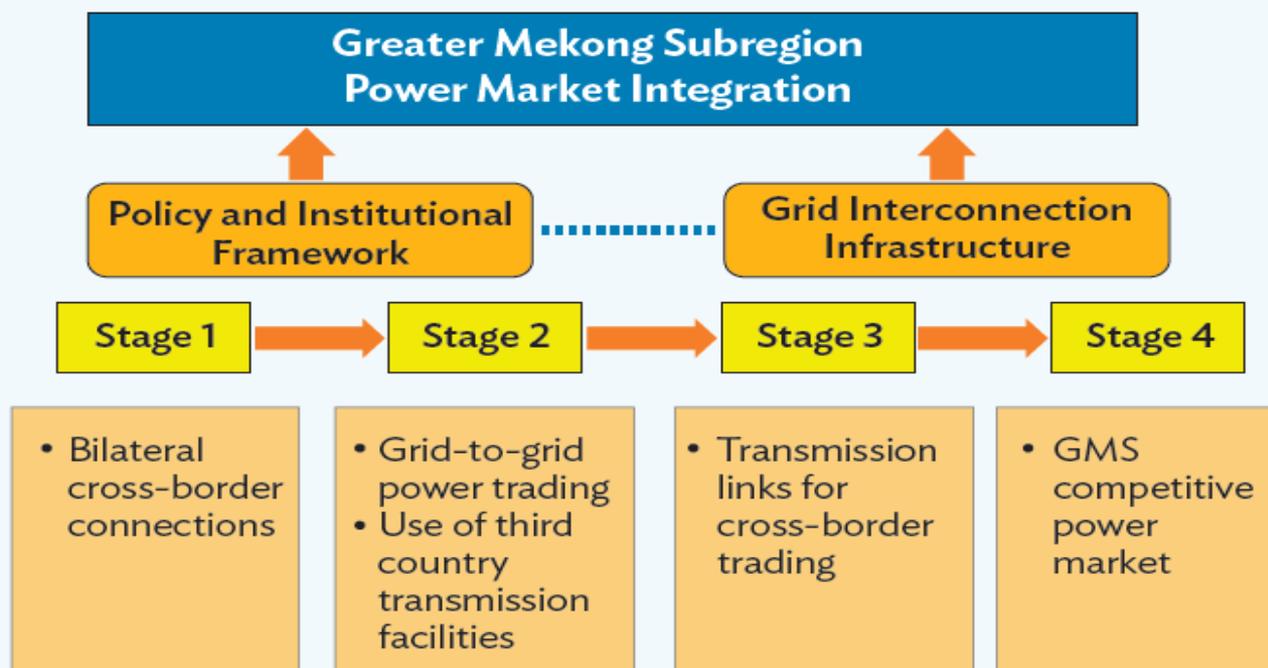


<http://greatermekong.org/ha-noi-action-plan-2018-2022>

<https://greatermekong.org/gms-regional-investment-framework-2022>

Ha Noi Action Plan: Energy Sector Strategies and Priorities

Figure 5: Stages in Establishing the Greater Mekong Subregion Power Market



GMS = Greater Mekong Subregion.

Sources: Based on ADB. 2002. *Energy Sector Strategy, GMS Strategic Framework 2012–2022*. Manila; and ADB. 2004. *Regional Power Trade Operating Agreement Report*. Manila.

Sector Operational Priorities: Energy Sector

Sector Operational Priorities	Key Actions ¹
<ul style="list-style-type: none"> • Continue developing the regional power market by developing the grid interconnection infrastructure and providing the policy and institutional framework for power trading: • Stage 1: Bilateral cross-border Connections • Stage 2: Grid-to-grid power trading between any pair of GMS countries • Stage 3: Transmission links for cross-border trading • Stage 4: Fully integrated GMS regional competitive power market 	<ul style="list-style-type: none"> • Continue power purchase agreements • Use transmission facilities of a third regional country; develop third party access principles • Develop transmission links dedicated to cross-border trading; prepare a regional transmission masterplan • Harmonize GMS performance standards and transmission regulations • Develop regional grid codes • Develop multiple seller-buyer regulatory frameworks • Develop favorable regulatory environment to support higher regional power trade • Conduct studies on potential cross-border interconnections • Increase private sector participation in cross-border regional power trade projects • Update regional system planning to incorporate higher share of renewable energy • Conduct capacity building for effective environmental management in the planning and implementation of power projects • Finalize the establishment of Regional Power Coordination Center

¹For energy, the key actions were based on ADB. 2012. *Energy Sector Strategy in the GMS Strategic Framework 2012–2022*. Manila; ADB. 2002. *Inter-Governmental agreement on Regional Power Trade in the GMS*. Phnom Penh, Cambodia; ADB. 2004. *Regional Power Trade Operation Agreement*. Manila; focus group discussion for Energy Information Note and Discussion Highlights, 11 May 2017 (videoconference); ADB. 2017. *Summary of Proceedings*. 22nd Meeting of the Regional Power Trade Coordination Committee. 20–21 June 2017. Chengdu, Sichuan Province, People’s Republic of China (PRC); and relevant documents



Refinements in Sector Strategies and Priorities

ENERGY SECTOR

Power market integration will remain the priority agenda in GMS energy cooperation.

- The GMS power market development adopts a “building block approach” to develop the essential grid interconnection infrastructure to physically facilitate the cross-border dispatch of power

In the next 5 years, advancing regional power trade (RPT) will be pursued through:

- harmonization of GMS regional technical performance standards and the development of grid codes,
 - creation of a favorable regulatory environment to support higher RPT,
 - in-depth studies of potential cross-border interconnections,
 - private sector participation in cross-border RPT projects, and
 - targeting a higher share of renewable energy in planning for regional power systems.
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- Power market development will mainstream environmental considerations in the design of power expansion plans.
 - Strategic environmental assessment will be used in power sector planning and hydropower development.
 - Capacity development for promoting effective environmental management in the implementation in power projects will continue.

In early June 2019, GMS SOM Retreat will be held to discuss preparation of GMS Long Term Directions Beyond 2022

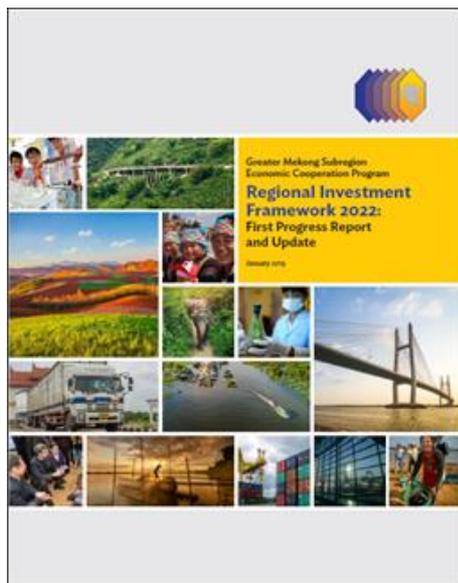
RIF 2022 UPDATING AND PROGRESS REPORTING



RIF 2022 Updating and Progress Reporting Process

Q1	<p>The Asian Development Bank (ADB) Greater Mekong Subregion (GMS) secretariat initiates report preparation by advising ADB sector divisions and GMS national coordinators to communicate with country sector agency focal points.</p> <p>The Regional Investment Framework (RIF) publication is disseminated for use and reference during the budget and development programming cycle.</p>	<ul style="list-style-type: none">• RIF progress report is revised to become the annual report.• GMS national coordinators play a key role in collaborating with line ministries and in project investment pipelines.• RIF 2022 report discussions are to better align with GMS working groups and forums.
Q2-Q3	<p>ADB's sector divisions interact with country sector agency focal points through GMS working groups and forums to</p> <ul style="list-style-type: none">• receive and compile the completed and agreed sector reports, and• submit the sector reports to the ADB GMS secretariat for collation. <p>GMS national coordinators collaborate with line ministries for progress and proposed projects.</p>	<ul style="list-style-type: none">• Final RIF 2022 reports are to be disseminated as reference for development and budget planning cycles.
Q3 Annual GMS Ministerial, Q3 or Q4	<p>The ADB GMS secretariat</p> <ul style="list-style-type: none">• assembles reports for each country and sector into the consolidated Revised Regional Investment Framework status report;• distributes the status report to the countries' GMS national coordinators, sector agencies, and ADB's sector divisions;• distributes the status report to interested development partners;• uploads the status report to the ADB GMS website; and• includes the status report in the documentation for a subsequent GMS event—senior officials meeting, ministerial meeting, or summit.	





RIF 2022: First Progress Report and Update

- Presents updates to the RIF 2022 during the 2018 monitoring cycle (February to November 2018)
- Updated RIF 2022;
- To date, Updated RIF 2022 endorsed by Myanmar, PRC, and Lao PDR)

Type	No. of projects	Cost Estimate (\$million)
Investment	147	80,570.3
TAs	100	350.4
TOTAL	247	80,920.7



RIF 2022: CHANGES AND UPDATED COMPOSITION



Updated Regional Investment Framework 2022

Summary by Sector

Sector	Number of Projects			Cost Estimate (\$ million)		
	Investment	TA	Total	Investment	TA	Total
Transport	85	14	99	70,311.6	10.3	70,321.9
Energy	11	9	20	2,327.7	16.2	2,343.9
Agriculture	10	10	20	1,745.2	80.3	1,825.5
Environment	6	6	12	653.0	15.8	668.8
Health and Other HRD	5	11	16	795.4	95.7	891.1
Urban Development	7	6	13	1,121.2	9.7	1,130.9
Others/BEZ	6	9	15	2,102.7	18.0	2,120.7
Tourism	12	18	30	1,435.2	79.9	1,515.1
TTF	3	9	12	55.3	20.2	75.5
ICT	2	8	10	23.0	4.3	27.3
Total	147	100	247	80,570.3	350.4	80,920.7



Updated RIF 2022, Financing Status Breakdown by Sector

Sector	With Financing		Without Financing	
	Number of Projects	Cost Estimate (\$ million)	Number of Projects	Cost Estimate (\$ million)
Transport	50	46,972.5	49	23,349.5
Energy	11	1,281.8	9	1,062.0
Agriculture	11	969.9	9	855.6
Environment	3	121.0	9	547.8
Health and Other HRD	14	860.9	2	30.2
Urban Development	12	955.5	1	175.3
Other Multisector/BEZs	7	1,424.5	8	696.2
Tourism	14	519.1	16	995.8
Transport and Trade Facilitation	6	46.5	6	29.0
ICT	1	2.1	9	25.2
Total	129	53,153.8	118	27,766.6

List of Energy Projects Investments (1)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
Projects in RIF 2022												
1	Lao PDR-Viet Nam Power Transmission Interconnection II	Lao People's Democratic Republic (Lao PDR), Viet Nam	This project will (i) construct a 59-kilometer (km), 500-kilovolt (kV) transmission line and a 230 kV/500 kV substation in Habzar, Lao PDR; and (ii) will construct a 94 km, 500 kV transmission line and expand the existing 220 kV/500 kV substation in Pleiku, Viet Nam. The project will enable the transmission of 3,157 gigawatt-hours/ year of electricity, to be produced by eight small hydropower plants (with a total capacity of 1,013 megawatts (MW)) in southern Lao PDR, to be developed by independent power producers.	2019	120.0	120.0	World Bank—40.0 Cofinancing (TBD)—80.0	World Bank—40.0 Cofinancing (TBD)—80.0	Proposed	Habzar, Lao PDR Pleiku, Viet Nam SEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansomphenge@yahoo.com Mr DUONG Hung Cuong Office of the GMS National Coordinator, Viet Nam cuongmp@gmail.com
2	Lao PDR-Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR, Thailand	The project aims to construct a 500 kV line from Udou Thani (Thailand) to Nabong (Lao PDR) to transfer power from three hydropower projects in the Central-1 area of the Lao PDR to Thailand. The hydropower projects are Nam Ngum 2, Nam Theun 1, and Nam Ngiep 1, which have a total capacity of over 1,500 MW, largely to export to Thailand.	2014	106.0	106.0	Nam Ngum 2 Power Company—106.0	Nam Ngum 2 Power Company—106.0	Ongoing	Nabong, Lao PDR Udou Thani, Thailand	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansomphenge@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel. +662 436 3532 Fax. +662 4363 593 Email: sawapop@egat.co.th

List of Energy Projects Investments (2)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
3	Continued Projects in Rural Electrification and Off-Grid Power Development in Northern Part of Lao PDR	Lao PDR	The project involves grid extension based on sound selection principles and the implementation of off-grid projects where grid extensions are not feasible. The new Greater Mekong Subregion (GMS) strategy calls for enhancing energy access, particularly to poor and remote areas, through the promotion of best practices in the GMS. Costs and scheduling are aligned with the completion report for the Lao PDR: Northern Area Rural Power Distribution Project, with some increases reflecting inflation. That project installed 268 km of a 115 kV line, along with distribution facilities, which connected over 30,000 households. (The scope of this project may have overlapped with that of the Northern Cross-Border Power Trade and Distribution Project.)	2019	50.0	50.0	TBD	TBD	Proposed	North and central part of Lao PDR: Phongsaly, Houaphanh and Xiang Khuang provinces NSEC	See description	Mr. Chanthaly Chansompheng Office of the GMS National Coordinator, Lao PDR chansompheng@yahoo.com

List of Energy Projects Investments (3)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updated				
4	Northern Cross-Border Power Trade and Distribution	Lao PDR	This project will expand the power distribution network in northern Lao PDR near border-crossing points. Components of the project include, among others: (i) a transmission interconnection from the Lao PDR (Luang Namtha) to Myanmar (Shan State, with a possible extension), and (ii) a transmission interconnection from the Lao PDR (Ton Pheung) to Thailand (Mae Chan).	2020	37.4	135.0	ADB—27.4 Government of the Lao PDR—10.0	ADB—80.0 Government of the Lao PDR—5.0 Indicative cofinancing: World Bank and AIB —50.0	Proposed	Luang Namtha, Lao PDR Shan State, Myanmar Ton Pheung, Lao PDR Mae Chan, Thailand NSEC	The project will help address Lao PDR's need to: (i) expand access to low-cost, reliable power in rural areas and (ii) develop priority power interconnections between Lao PDR and its neighbors to increase power trade. The project will also support the national electric utility to (i) expand distribution lines and provide off-grid alternatives in the select provinces.	Mt. Chanthaly Chansomphong Office of the GMS National Coordinator, Lao PDR chansomphenge@yahoo.com
5	500 kV Line from Mawlamyine to the Main Grid	Myanmar	This will connect the isolated grid at Mawlamyine to the main grid, thereby bringing the 500 kV Myanmar system closer to the Thai grid for future interconnection. This will result in lower costs and improved reliability of the power supply in the Mawlamyine area, which will be the western terminus of the GMS East-West Economic Corridor (EWEC). The costs are estimated based on 360 km of a single-circuit	2020	640.0	640.0	TBD	TBD	Proposed	Mawlamyine, Myanmar EWEC	See description	FERD, MPI Myanmar ferdsection@gmail.com



List of Energy Projects Investments (4)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
			500 kV line at \$1.5 million/km and two 500 kV substations at \$50 million each. (Tentative routing: Mawlamyine-Thabon-Bago)									
6	Demonstration of Second Generation Biofuel Technologies and Associated Biomass Value Chains	All GMS countries	This project will build pilot plants under a public-private partnership (PPP) that will aim to meet financial targets, successfully demonstrate feasible technologies, and create value chains. Upgrading biofuel technology will reduce conflicts over food security and will increase rural incomes through biomass value chains. The schedule will take into account the need for a careful consideration of technological issues and for the selection of private partners. Estimated cost is \$13.3 million per GMS member country.	2019	80.0	80.0	TBD	TBD	Proposed		See description	

List of Energy Projects Investments (5)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
7	Extension of Energy Access in Myanmar from Nodes in Thailand and in the People's Republic of China (PRC)	Myanmar	<p>This project involves a grid extension from Myanmar's borders with the PRC and Thailand using generation plants in those two countries, based on the regional experience in grid extension in Cambodia, the Lao PDR, and Viet Nam.</p> <p>Ideally, such a project would build on the successful build-operate-transfer (BOT) model of the transmission project in Cambodia. The costs will depend on the number of distribution facilities and household connections in the chosen areas. It is likely that there will be few or no distribution facilities, in which case the costs will be much higher, closer to those for a conventional renewable energy project. The schedule will allow for the negotiating process under the BOT model.</p> <p>Estimated cost breakdown:</p> <p>\$10.0 million for the connection to a local isolated grid; and \$60.0 million if the distribution and connection are to be carried out.</p>	2019	70.0	70.0	TBD	TBD	Proposed		See description	FERD, MPI Myanmar ferdsection@gmail.com



List of Energy Projects Investments (6)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
8	Transmission Interconnection Project from Lao PDR (Na Bong) to Thailand (Udon Thani 3)	Lao PDR, Thailand	The project is upgrading an existing 230 kV transmission line, designed for 500 kV transmission from the Lao PDR (Na Bong) to Thailand (Udon Thani 3). When completed, the line will be 107 km in length and have 1,800 MW peak capacity.	2014	60.0	60.0	TBD	TBD—60.0	Ongoing	Na Bong, Lao PDR Udon Thani, Thailand NSEC	See description	Mr. Chanthaly Charomsongpheng Office of the GMS National Coordinator, Lao PDR charomsongpheng@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel:+662 436 3532 Fax:+662 436 3593 Email: sawapop.te@egat.co.th
9	Transmission Interconnection Project from Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3)	Lao PDR, Thailand	The project will construct a 500 kV transmission line that will initially be energized at 230 kV from the Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3). When completed, the line will be 150 km in length and have 1,400 MW peak capacity.	2019	90.0	90.0	ADB—15.0 Cofinancing—75.0	ADB—15.0 Cofinancing—75.0	Proposed	Ban Lak, Lao PDR NSEC Ubon Ratchathani, Thailand SEC	See description	Mr. Chanthaly Charomsongpheng Office of the GMS National Coordinator, Lao PDR charomsongpheng@yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel:+662 436 3532 Fax:+662 436 3593 Email: sawapop.te@egat.co.th

List of Energy Projects Investments (7)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
10	Transmission	Lao PDR, Thailand	The project will construct a 500 kV AC transmission line from the Lao PDR (Pak Beng or Pak Ngyuen) to Thailand (Tha Wang Pha). When completed, it will be 120 km in length and have 800 MW peak capacity. This project is currently under consideration and subject to a power purchase agreement (PPA) approval by both sides.	TBD	TBD	TBD	TBD	Proposed	Pak Beng or Pak Ngyuen, Lao PDR Tha Wang Pha, Thailand NSEC	See description	Mr. Chansomphong Office of the GMS National Coordinator, Lao PDR chansomphong yahoo.com Generation and Transmission System Planning Division, Electricity Generating Authority of Thailand Tel:+662 436 3532 Fax:+662 436 3593 Email: sawapop.1@ egt.co.th	
11	Nam Ngiep 1 Hydropower Project	Lao PDR	The project involves the construction and operation of a 250 MW hydropower generation facility on a build-operate-transfer (BOT) arrangement at the Nam Ngiep River in the province of Bolikhamxay and Xaysomboun, Lao PDR.	2014	975.7	975.7	ADB—215.7 JBIC—197.0 Private Sector—564.0	ADB—215.7 JBIC—197.0 Private Sector—564.0	Ongoing-Under construction	Bolikhamxay and Xaysomboun, Lao PDR NSEC	See description	Samarendra Singh Portfolio Management Division,PSOD, ADB
Subtotal (Energy Investment Projects included in RIF 2022)					2,230.1	2,327.7						
Subtotal (Energy Investment Projects proposed to be added in RIF 2022)						0.0						
Subtotal (Energy Investment Projects included in RIF 2022)					2,230.1	2,327.7						

List of Energy Projects Technical Assistance (1)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
Projects in RIF 2022												
1	Harmonizing GMS Power Systems to Facilitate Regional Power Trade (formerly Support to RPTCC In the Completion of Performance Standards, Grid Codes, Market Rules, and Subregional Transmission Expansion Plan)	All GMS countries	The technical assistance (TA) supports the development of a clear basis for regional market rules that would comprise agreed rules and indicative planning of interconnections. It will result in a more functional regional market with genuine exchanges of electricity, leading to an improved reliability and quality of power supply and lower costs. A supplementary TA project was approved in 2017, the outcome of which will be a set of GMS performance standards and grid codes, and an enhanced regulatory framework. Additional output, among others, include feasibility studies for four new interconnection projects.	2014	3.5	3.0	ADB—2.5 PRC trust Fund—0.5 (Agence Française de Développement (AFD)—0.5)	ADB—2.5 PRC trust Fund—0.5	Ongoing		Regional Power Coordinating Center (RPCC) established and operations commenced through continued support to Regional Power Trade Coordination Committee (RPTCC). GMS performance standards and grid codes considered for implementation by the Working Group on Performance Standards and Grid Code (WGPG). Guidelines for GMS regulatory framework proposed by the Working Group on Regulatory Issues (WGR).	Bui, Duy-Thanh Southeast Asia Department (SERD) Energy Division, SERD
2	Ensuring Sustainability of Greater Mekong Subregion Regional Power Development (Phase 2)	All GMS countries	The TA will support the efforts of the Regional Power Trade Coordination Committee to forge agreements among the GMS countries on the technical, institutional, and operational aspects of the GMS regional power market, and ensure that these comply with environmental sustainability requirements.	2016	1.0	1.0	AFD—1.0	AFD—1.0	Ongoing			



List of Energy Projects Technical Assistance (2)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
3	Development of GMS Coordination Center for Regional Power Trade	All GMS countries	The project will help set up the Regional Power Coordination Center (RPCC) and build the capacity of national and subregional bodies. These bodies will work with the RPCC in implementing and overseeing cross-border power exchanges; coordinating regional power planning; and developing transmission facilities of regional importance through (i) technical and equipment support and staffing, (ii) staff training, and (iii) support for specific studies (e.g., on tariff structures, operational standards, etc.) and activities (e.g., power planning database maintenance, etc.).	To be determined (TBD)	3.0	3.0	TBD	TBD	Proposed			
4	Scoping Study on the Future of the Trans-ASEAN Gas Pipeline (TAGP)	All GMS countries	This project is specified in the Association of Southeast Asian Nations (ASEAN) Master Plan on Connectivity and aims to contribute to ASEAN's energy security. The study will lead to an agreed concept for the deployment of the TAGP in the future, with the critical investments identified. This is a wide-ranging project that needs strong cooperation with the ASEAN Council on Petroleum (ASCOPE). It should be steered by a national	TBD	1.0	1.0	TBD	TBD	Proposed			



List of Energy Projects Technical Assistance (3)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
			committee of experts and executed by a small part-time team of national experts, but also include funding for short-term studies on strategic issues (e.g., shale gas and coal bed methane prospects, future liquefied natural gas markets, carbon capture and storage, storage options, the role of gas as a backup for renewables, and future gas demand). Four meetings over 2 years will be sufficient. The budget must cover the participation of ASCDFE experts.									
5	Development of Coherent Energy-Efficiency Action Plans Across the Subregion	All GMS countries	<p>This TA will entail preparing national energy efficiency action plans according to a common format, with stronger and better-targeted actions to promote energy efficiency.</p> <p>This project is predicated on the supposition that the Subregional Energy Forum can act as a technical advisory body to policy makers, proposing policies that can support regional activities. It can be executed by a team of high-level national experts (supported by international and regional consultants) that reviews progress in energy efficiency across the subregion; conducts benchmarking; proposes aggressive targets; stronger</p>	TBD	1.0	1.0	TBD	TBD	Proposed			



List of Energy Projects Technical Assistance (4)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status/Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
			policies, and subregional convergence; and, where feasible, identifies sources of financial support (e.g., Clean Development Mechanism and post-Kyoto mechanisms). It should be an ongoing project funded initially for 3 years.									
6	GMS Renewable Energy Development (Phase 2)	All GMS countries	This TA will support follow-up activities from the Phase I regional technical assistance. It will include further propagation and preparation of policy manuals based on the pilot results of Phase I, covering GMS-appropriate practices in renewable energy and cleaner fuel promotion, continuing knowledge sharing and training, and laying the groundwork for investment projects in renewable energy.	TBD	2.0	2.0	TBD	TBD	Proposed			
7	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	The project will examine new potential cross-border power-transmission projects.	2018	1.0	1.0	ADB—1.0	ADB—1.0	Proposed			
8	Regional Action Plans for Sustainable Power Sector Development and Climate Change Mitigation	All GMS countries	The proposed TA aims to improve energy security and mitigate climate change in the GMS through strengthened regional power cooperation, with an increased use of clean energies, knowledge sharing in GMS power development, and better policy and business environments for promoting renewable and efficient energies.	2018	2.0	2.0	ADB—2.0	ADB—2.0	Proposed			

List of Energy Projects Technical Assistance (5)

No.	Project Title	Country Coverage	Description	Year of Approval	Cost Estimate (\$ million)		Potential Funding Source and Amount (\$ million)		Status Updates	Key Locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs	Project Contact
					Original	Updated	Original	Updates				
			The TA will assist the GMS countries in adopting specific climate-mitigation measures for the power interconnection projects; establish measurable targets and action plans for reducing greenhouse gas emissions resulting from power sector development; adopt measures for renewable energy and energy-efficiency improvements over time that can be monitored against a well-defined baseline; and to clearly define the public policy interventions under the action plans. These activities will all contribute to sustainable power sector development and climate change mitigation.									
Subtotal (Energy TA Projects Included in RIF 2022)						14.5	14.0					
Projects proposed to be added in RIF 2022												
9	Integrated Resource Planning with Strategic Environmental Assessment for Sustainable Power Sector Development in the Greater Mekong Subregion	All GMS Countries	The technical assistance (TA) project is designed to (i) enhance the GMS countries' capacity in applying integrated resource planning (IRP) with strategic environmental assessment (SEA) in their power development plans (PDPs); (ii) improve regulations, policies, programs and/or targets for renewable energy and energy efficiency as necessary and as validated through the IRP; and (iii) support the cross-border interconnections as necessary and as validated through the IRP. The TA will particularly focus on Viet Nam as the country has greater potential for mitigating climate change impacts. The TA outputs will be also disseminated through Regional Power Trade Coordination Committee (RPTCC) meetings, which are organized twice a year.	2015		2.2		Ongoing. AFD—1.15 Regional Cooperation and Integration Fund—0.5 Cooperation Fund for Project Preparation in the Greater Mekong Subregion and in Other Specific Asian Countries—0.5		Expected/Planned Measurable Outputs: 1. Viet Nam's IRP and SEA capacity enhanced, 2. Awareness among GMS countries increased, and 3. Knowledge Products (KPs) shared.		Lee, Hyunjung Southeast Asia Department (SERD) Energy Division, SERD
Subtotal (Energy TA Projects proposed to be added in RIF 2022)						2.2						
Subtotal (Energy TA Projects)						2,230.1	16.2					
Total (Energy Investment and TA Projects)						2,244.6	2,343.9					



NEXT STEPS

RIF 2022 Updating and Progress Reporting Process

Q1

The Asian Development Bank (ADB) Greater Mekong Subregion (GMS) secretariat initiates report preparation by advising ADB sector divisions and GMS national coordinators to communicate with country sector agency focal points.

The Regional Investment Framework (RIF) publication is disseminated for use and reference during the budget and development programming cycle.

Q2–Q3

ADB's sector divisions interact with country sector agency focal points through GMS working groups and forums to

- receive and compile the completed and agreed sector reports, and
- submit the sector reports to the ADB GMS secretariat for collation.

GMS national coordinators collaborate with line ministries for progress and proposed projects.

Q3

The ADB GMS secretariat

- assembles reports for each country and sector into the consolidated Revised Regional Investment Framework status report;
- distributes the status report to the countries' GMS national coordinators, sector agencies, and ADB's sector divisions;
- distributes the status report to interested development partners;
- uploads the status report to the ADB GMS website; and
- includes the status report in the documentation for a subsequent GMS event—senior officials meeting, ministerial meeting, or summit.

Annual GMS Ministerial, Q3 or Q4

- RIF progress report is revised to become the annual report.
- GMS national coordinators play a key role in collaborating with line ministries and in project investment pipelines.
- RIF 2022 report discussions are to better align with GMS working groups and forums.
- Final RIF 2022 reports are to be disseminated as reference for development and budget planning cycles.



ADB

2019-2020 Timeline of GMS Regional Investment Framework (RIF) 2022 Progress Reporting and Updating

Dates/Period	Milestone/Task
<p>March-May</p> <p>21-22 March 1-2 April 3-4 April (TBD) April 21- 23 May</p>	<p>Disseminate the GMS Ministers' endorsed/approved RIF 2022: First Progress Report and Update for use in country and regional programming activities that can further advance priorities under Ha Noi Action Plan 2018-2022</p> <ul style="list-style-type: none"> • 25th RPTCC • WGE AM-24 • WGA • Video Senior Officials' Meeting • Tourism WG -43
<p>3-7 June</p> <p>(TBD) June</p>	<p>Kick off the process of the annual RIF progress reporting and updating ADB GMS Secretariat initiates RIF 2022 Annual Progress Report/Update (2019) preparation by advising ADB Sector Divisions as Working Group Secretariat and GMS Countries (thru GMS National Coordinators)</p> <p>GMS SOM Retreat on the Preparation of GMS Long Term Directions Beyond 2022</p>
<p>10 June – 31 July</p> <p>(TBD) July</p>	<p>ADB sector divisions and GMS National Coordinators interact with country focal points (identify focals) to prepare RIF 2022 Progress Reporting Tables:</p> <ul style="list-style-type: none"> • Table A- Projects already in RIF 2022; and • Table B- New projects for inclusion in RIF 2022. <p>NOTE: GMS countries bilateral discussions for new proposed projects may also be undertaken. GMS Sector Working Group (WG) Meetings can also be venues for interaction, compiling and endorsement of respective sector reports and lists.</p> <ul style="list-style-type: none"> • TTF and ICT sectors: project reporting and vetting will be done through GMS National Coordinators • 3rd Meeting of Urban Development WG



RIF 2022 Progress Reporting Tables:

Table A- Projects already in RIF 2022

Table A. PROJECTS IN ORIGINAL RIF 2022 LIST

I. Investment Projects

No.	(1) Project Title	(2) Country Coverage	(3) Description <i>(Please indicate if there are changes in the project description/specifications)</i>	(4) Year of Approval	(5) Cost Estimate (\$ million)		(6) Potential Funding Source and Amount (\$ million)		(7) Status Updates <i>Please indicate progress/changes in project development status or implementation. (Refer to Guide for Accomplishing the Progress Report table.)</i>	(8) Key locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
					Original	Updated (if any)	Original	Updates (if any)				

II. Technical Assistance Projects

No.	(1) Project Title	(2) Country Coverage	(3) Description <i>(Please indicate if there are changes in the project description/specifications)</i>	(4) Year of Approval	(5) Cost Estimate (\$ million)		(6) Potential Funding Source and Amount (\$ million)		(7) Status Updates <i>Please indicate progress/changes in project development status or implementation. (Refer to Guide for Accomplishing the Progress Report table.)</i>	(8) Key locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
					Original	Updated (if any)	Original	Updates (if any)				

RIF 2022 Progress Reporting Tables:

Table B – New Projects for inclusion in RIF 2022

TABLE B. PROPOSED NEW PROJECTS FOR INCLUSION IN RIF 2022

I. Investment Projects

No.	(1) Project Title	(2) Subsector	(3) Description	(4) Year of Approval	(5) Cost Estimate (\$ million)	(6) Potential Funding Source and Amount (\$ million)	(7) justifications Please indicate the basic rationale and justifications for the project, based on:		(8) Key locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
							(a) Strategic thrust/operational priority in HAP and/or relevant sector strategy supported (Refer to Annex I)	(b) Other Justifications			

II. Technical Assistance Projects

No.	(1) Project Title	(2) Subsector	(3) Description	(4) Year of Approval	(5) Cost Estimate (\$ million)	(6) Potential Funding Source and Amount (\$ million)	(7) justifications Please indicate the basic rationale and justifications for the project, based on:		(8) Key locations and GMS Economic Corridor Alignment	(9) Expected/Planned Measurable Outputs	(10) Project Contact
							(a) Strategic thrust/operational priority in HAP and/or relevant sector strategy supported (Refer to Annex I)	(b) Other Justifications			

2019-2020 Timeline of GMS Regional Investment Framework (RIF) 2022 Progress Reporting and Updating

Dates/Period	Milestone/Task
1-16 August	ADB sector divisions compile sector inputs and submit to the ADB GMS Secretariat the consolidated sector Progress Report: <ul style="list-style-type: none"> • Table A- Projects already in RIF 2022; and • Table B- New projects for inclusion in RIF 2022.
(TBD) August	Video SOM
(TBD) August	<u>Subregional Transport Forum (STF-23)</u>
19 August -6 September	GMS Secretariat consolidates proposed Progress Report and Updated RIF 2022 in close consultation with Sector divisions and GMS National Secretariats
10 September	GMS Secretariat to circulate to GMS NCs and Sector Focals the first draft consolidated Progress Report Tables for review and confirmation.
30 September	GMS Countries submit comments and/or confirmation of RIF 2022 Second Progress Report and Update
1-15 October	GMS Secretariat incorporates comments and additional information on RIF Progress Report Tables
16-30 October	GMS Secretariat prepares the RIF Progress Report (write-up and tables) and the Updated RIF 2022 , including typesetting of as meeting document
(TBD) November/ December	Take up in Final SOM for the 11th ECF and 23rd Ministerial Conference the draft RIF 2022 Second Progress Report and Update
December 2019/ January 2020	GMS Secretariat finalizes the draft with consideration of GMS Senior Officials' advice/action on November/ December 2019 SOM. GMS Secretariat incorporates proposed revisions from countries, if any, and finalize Draft RIF 2022 Second Progress Report and Update
January/February 2020	Printing and circulation of GMS Ministers' endorsed RIF 2022: Second Progress Report and Update



Final Points

- ❑ Next RIF 2022 updating will kick off in early June 2019
 - Please confirm points of contact

- ❑ Initial thoughts on long-term energy directions beyond 2022



Questions & Discussion

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www.greatermekong.org

