

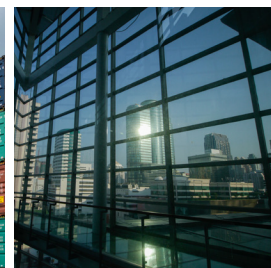
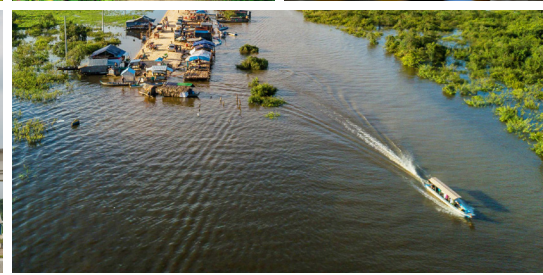


Greater Mekong Subregion
Economic Cooperation Program

Regional Investment Framework 2022:

Second Progress Report and Update

November 2019



23RD GMS MINISTERIAL CONFERENCE, PHNOM PENH 2019





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Economic Cooperation Program

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Introduction and Overview of the Regional Investment Framework 2022

The Regional Investment Framework 2022 (RIF 2022) is the medium-term pipeline of priority projects in the Greater Mekong Subregion (GMS) and operationalizes the strategic thrusts and priorities of the GMS Program under the GMS Strategic Framework 2012–2022 and the Hanoi Action Plan 2018–2022. RIF 2022 was endorsed at the 22nd Ministerial Conference in Ha Noi, Viet Nam on 20 September 2017 and then adopted during the 6th GMS Summit of Leaders on 31 March 2018 in Ha Noi. The GMS leaders directed officials of the GMS Program to ensure that the Regional Investment Framework is monitored and updated regularly. The RIF 2022 is to be used (i) as an instrument for greater alignment between regional and national planning and programming for GMS projects, and (ii) as a marketing tool to galvanize new financing for projects.

The RIF 2022 includes projects in the various sectors of GMS cooperation: transport, energy, agriculture, environment, health and other human resource development, urban development, tourism, transport and trade facilitation, information and communication technology, and other multisector or border economic zones.

The pipeline includes planned Asian Development Bank (ADB) investments in the GMS, but also represents projects being funded by national governments, other multilateral and bilateral development partners, projects being developed

by the private sector, and unfunded projects for which financing is yet to be identified. The RIF 2022 aspires to mobilize increased financing for the priority projects from all sources, especially through private sector financing, and in the introduction of new development partner funding for projects in the RIF.

When first endorsed, the RIF 2022 medium-term pipeline had 227 investment and technical assistance projects, requiring \$66 billion in estimated financing. The *RIF 2022: First Progress Report and Update* (2018) was endorsed by the GMS Senior Officials' Meeting in December 2018 and received referendum approval by the GMS Ministers in April 2019. It represents updates to the RIF 2022 during the 2018 cycle (from February to November 2018) and revised the medium-term pipeline of projects to a new total of 247 investment and technical assistance projects, requiring \$80.9 billion in estimated financing. This *RIF 2022: Second Progress Report and Update* reflects updates and changes from November 2018 to October 2019 and is presented to the GMS Ministers for endorsement at the 23rd GMS Ministerial Conference.

The RIF 2022 Second Progress Report and Update includes a revision of the RIF 2022 to a new total of 255 investment and technical assistance projects requiring a total of \$92.7 billion in financing. Approximately \$55.2 billion, or 60%, of the financing

needs have identified funding sources, and about \$37.5 billion, or 40%, of the financing sources are still to be identified. A summary of the changes in the RIF 2022 are outlined in Section III, and Summary Tables of proposed projects for addition and deletion are in Appendixes 1 and 2. Appendix 3 has the summary of the updated RIF 2022 list of projects.

Projects in the RIF 2022 continue to be generated through extensive consultations with GMS sector working groups, forums, and the GMS National Coordinators and Secretariats in each country. Thus, the RIF 2022 pipeline is presented by sector, noting the country coverage and estimated cost of financing for the whole project. Some projects have multiple country coverage, while some have other sector linkages.

The RIF business process (Appendix 4) was endorsed as part of the RIF 2022 and outlines the following:

- (i) The GMS Secretariat coordinates the generation of the RIF progress report as an annual report.

- (ii) GMS national coordinators play a critical role in coordinating with line ministries to gather project updates and to validate the proposed investment pipelines.
- (iii) ADB sector focal persons facilitate the discussions for the generation of new project proposals and project updates at the GMS annual or biannual sector working group meetings.
- (iv) Projects in sectors without a designated working group are overseen by the GMS National Coordinators.
- (v) GMS Ministers endorse the annual updates to the RIF 2022.
- (vi) The GMS Secretariat disseminates the RIF 2022 Updates and Progress Reports as reference for development and budget planning and for identifying financing with development partners.

Following the endorsement of the forthcoming GMS long-term strategic framework 2030, the RIF process will also be refined to align with its strategic directions.



Regional Investment Framework 2022 Update 2019

The RIF 2022 remains a living document, with new projects added, projects dropped as priorities, and a number of projects in implementation or already completed.

As of October 2019, the RIF 2022: Second Update (2019) comprises of 255 investment and technical assistance projects requiring \$92.7 billion in financing. This includes the proposed addition to the RIF 2022 of 12 investment projects and nine technical assistance projects (Appendix 1), and

the proposed deletion of four investment and nine technical assistance projects (Appendix 2). The updated RIF 2022 composition is in Table 1.

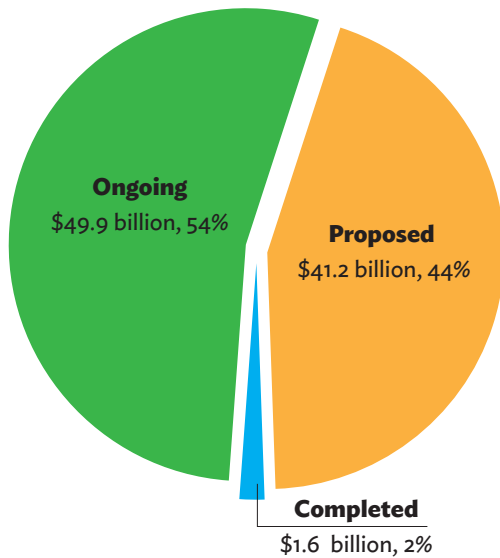
The transport sector remains the largest sector, especially with the proposed addition of new highway projects in the Lao People’s Democratic Republic and Viet Nam, however, other new projects proposed for inclusion in the RIF 2022 include new energy regional transmission projects

Table 1: Summary of Regional Investment Framework 2022 Update 2019, Breakdown by Sector

Sector	Number of Projects			Cost Estimate (\$million)		
	Investment	TA	Total	Investment	TA	Total
Transport	87	16	103	77,713.7	10.3	77,724.0
Energy	14	6	20	6,024.0	10.2	6,034.2
Agriculture	12	12	24	1,980.6	60.0	2,040.6
Environment	5	4	9	640.4	43.3	683.7
Health and Other HRD	5	12	17	815.4	96.0	911.4
Urban Development	9	7	16	1,527.7	5.2	1,532.9
Other/BEZ	6	9	15	2,064.9	18.0	2,082.9
Tourism	12	18	30	1,435.4	79.6	1,515.0
TTF	3	8	11	106.3	19.7	126.0
ICT	2	8	10	23.0	4.3	27.3
Total	155	100	255	92,331.4	346.6	92,678.0

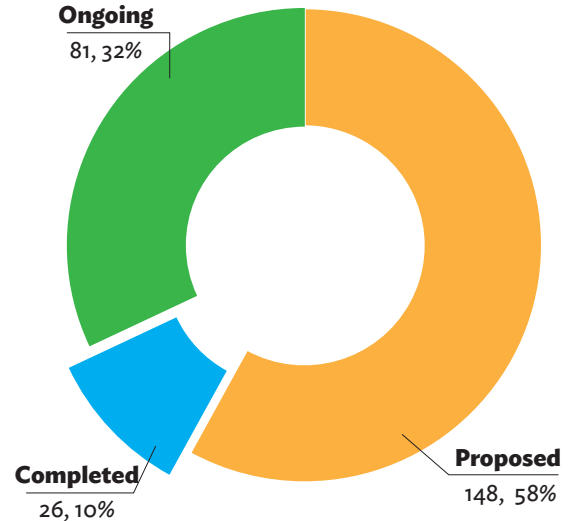
BEZ = border economic zone, HRD = human resource development, ICT = information and communication technology, RIF 2022 = Regional Investment Framework 2022, TA = technical assistance, TTF = transport and trade facilitation.
Source: GMS Secretariat.

Figure 1: Updated Regional Investment Framework 2022, Breakdown by Status of Implementation
(\$ cost estimate)



Source: GMS Secretariat.

Figure 2: Updated Regional Investment Framework 2022, Breakdown by Status of Implementation
(number of projects)



Source: GMS Secretariat.

connecting Myanmar’s grid to its neighboring countries and urban services and border zone development projects.

Furthermore, RIF 2022 implementation is progressing with the completion of nine investment projects and 17 technical assistance programs and project preparation, with around \$1.6 billion mobilized. There are currently 81 projects ongoing in the RIF, with \$49.9 billion already mobilized and supporting these projects. Figures 1 and 2 have the detailed breakdown of updated RIF 2022 projects by status of implementation.

Over \$1.5 billion in RIF 2022 projects were approved in 2018 and have now commenced implementation. Also of note, is the leveraging power and speed of implementation exhibited by the Nam Ngiep 1 Hydropower project in the Lao People’s Democratic Republic (Box).

Box: Nam Ngiep 1 Hydropower Project

Investment: \$978 million (ADB—\$215.7 million; JBIC—\$197 million; Private Sector—\$564 million)

Project Developers: EGAT International; Kansai Electric Power Company; Lao State Holding Enterprises

Approved: 2014

Commencement of Commercial Operations: September 2019

The Nam Ngiep 1 Hydropower Project started generating electricity for export to Thailand in early September 2019, becoming the latest fully operational Independent Power Producer in the Lao People’s Democratic Republic.

The project has an installed capacity of 272 megawatts, of which part is sold to the Electricity Generating Authority of Thailand via a 230-kilovolt transmission line to the Nabong Substation. The output from the re-regulation power station (18 megawatts or about 6.2% of the total project output) has been online since March 2019 and is being sold to Electricite du Laos.

ADB = Asian Development Bank, EGAT = Electricity Generating Authority of Thailand, JBIC = Japan Bank for International Cooperation.

Source: GMS Secretariat.

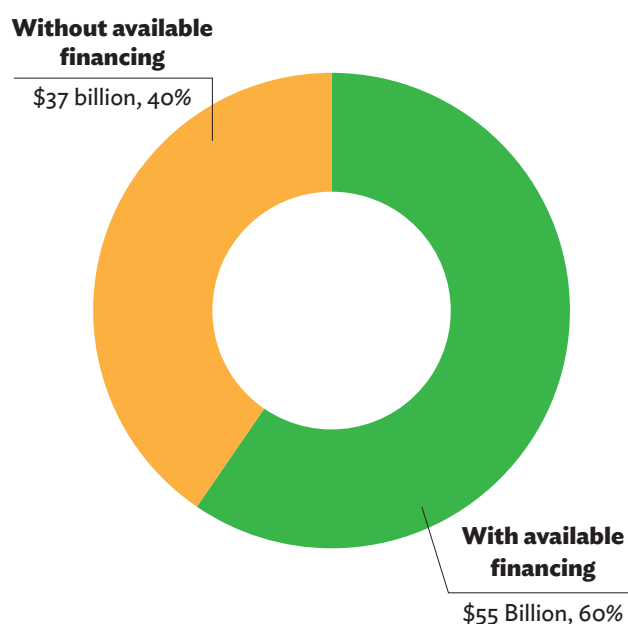


Funding the Regional Investment Framework 2022

The total projects with available financing in the RIF amounts to \$55 billion, an increase from the \$53 billion reported in the 2018 First Progress Report and Update. Approximately 60% of the RIF financing needs have been identified. There remains a financing gap of \$37 billion for projects still seeking confirmed funding sources (Figure 3).

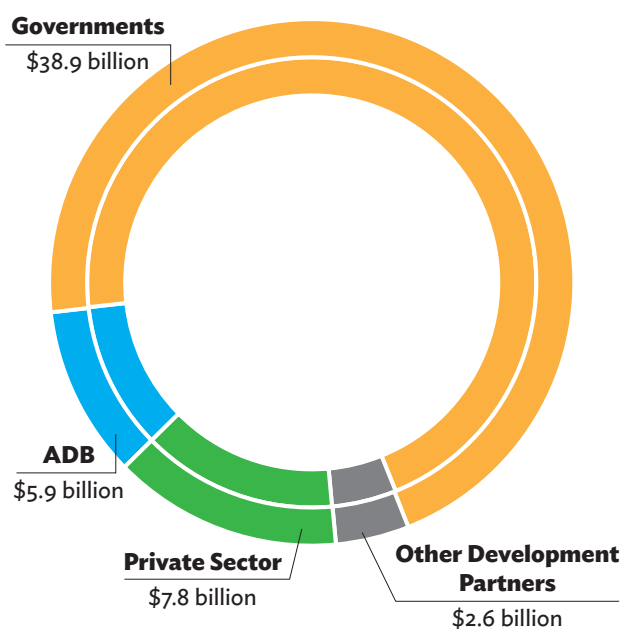
Of the total projects with available financing (Figure 4), the largest funding source remains for projects that are supported through the GMS government budgets, however, the private sector portion of the financing has also increased since the First Progress Report. ADB and development partners can provide support to leverage private sector financing. The breadth of funding partners in the RIF has also increased (Table 2).

Figure 3: Updated Regional Investment Framework 2022, Percentage of Cost Estimates by Financing Status



Source: GMS Secretariat.

Figure 4: Updated Regional Investment Framework 2022, Breakdown of Funding Sources for Projects with Financing



ADB = Asian Development Bank.
Source: GMS Secretariat.

Table 2: Funding Sources Supporting the Regional Investment Framework 2022

Multilateral	Bilateral	Private Sector
<ul style="list-style-type: none"> • ASEAN Infrastructure Fund • Asian Development Bank • Asian Infrastructure and Investment Bank • Global Environment Facility • International Finance Corporation • Nordic Development Fund • World Bank • International Organization for Migration (Swiss Agency for Development and Cooperation) • Organization of Petroleum Exporting Countries (OPEC)/OPEC Fund for International Development 	<ul style="list-style-type: none"> • Department of Foreign Affairs and Trade (Australia) • Belgium • PRC • Agence Française de Développement (French Development Agency) • Kreditanstalt für Wiederaufbau (Credit Institute for Reconstruction, Germany) • Japan International Cooperation Agency • Japan Bank for International Cooperation • Korea International Cooperation Agency (Republic of Korea) • Export–Import Bank of Korea (Republic of Korea) • Netherlands • Swedish International Development Cooperation Agency • Neighbouring Countries Economic Development Cooperation Agency (Thailand) • Thailand International Cooperation Agency 	<ul style="list-style-type: none"> • Giant Group (Malaysia) • Song Da Group • National Power Transmission Corporation (Viet Nam) • Nam Ngum Power Company (Lao PDR) • China United Network Communications Group Co., Ltd (PRC) • Viettel Group (Viet Nam) • Lao Telecom (Lao PDR) • Nam Ngiep 1 Power Company (Kansai Electric Power, EGAT International Lao State Holding Enterprise)
<p>GMS Countries: National and Local Government and/or Provincial Budgets</p>		

ASEAN = Association of Southeast Asian Nations, EGAT = Electricity Generating Authority of Thailand, Lao PDR = Lao People's Democratic Republic.
Source: GMS Secretariat



Appendices

Appendix 1: Summary of Added Projects

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status Updates
i.	Feasibility Study for Mae Sot—Myawaddy—Hpa an—Thaton Rail Line	Myanmar Thailand	Transport/ Technical Assistance	TBD	TBD	TBD	Proposed by Myanmar to STF-23
ii.	Construction Project of National Highway 15D, Quang Tri province	Viet Nam	Transport/ Investment	TBD	118.4	ADB—94.7 Government of Viet Nam—3.7	Proposed by Viet Nam to STF-23
iii.	TA for Chau Doc—Soc Trang—Can Tho Expressway Project	Viet Nam	Transport/ Technical Assistance	TBD	TBD	TBD	Proposed by Viet Nam to STF-23
iv.	230 kV Lao PDR—Myanmar Power Interconnection	Lao PDR Myanmar	Energy/ Investment	2020	180.9	ODA loan	Proposed by Myanmar
v.	500 kV Muse—Mineyal—Hopone—Phayargyi Transmission Line (616 miles) and related substations	Myanmar	Energy/ Investment	2020	1,788.0	TBD	Proposed by Myanmar

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Appendix 1 continued

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status Updates
vi.	230 kV Mae Sot—Myaddy Transmission Line	Myanmar	Energy/ Investment	2020	TBD	TBD	Proposed by Myanmar
vii.	Supporting GMS Regional Sustainable Power Sector Development	All GMS Countries	Energy/ Technical Assistance	TBD	TBD	TBD	Proposed
viii.	Climate Smart Horticulture Value Chain Infrastructure Project	Viet Nam	Agriculture/ Investment	2021	TBD	ADB, Other DPs—TBD	Proposed
ix.	GMS Economic Corridor Agribusiness Development	Myanmar	Agriculture/ Investment	2020	150.0	ADB	Proposed
x.	Preparing Agriculture, Natural Resources and Rural Development projects on ASEAN (TRTA Facility)	All GMS Countries	Agriculture/ Technical Assistance	2019	2.0	TBD	Proposed
xi.	GMS Biodiversity Conservation Corridors Project—Additional Financing	Cambodia	Environment/ Investment	2015	7.4	Strategic Climate Fund—7.4	Ongoing
xii.	Core Environment Program and Biodiversity Conservation Corridors Initiative in the GMS, Phase 2	All GMS Countries	Environment/ Technical Assistance	2011	30.3	ADB—1.8 Cofinancing—28.5 (Finnida grant-14.00; Sida TA grant-8.30; NDF-5.30; GEF-0.46; GEF SCCF- 0.46)	Ongoing

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Appendix 1 continued

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status Updates
xiii.	High Level Technology Solutions for Communicable Disease Control in the GMS— additional financing	Cambodia Lao PDR Myanmar Viet Nam	Health/ Technical Assistance	2020	0.2	HLTF—0.2	Proposed
xiv.	Yangon Urban Services Improvement Project- Phase 2	Myanmar	Urban Development/ Investment	2022	165.0	ADB—150.0 Cofinancing (TBD)—15.0	Proposed
xv.	Livable Cities Investment Program (MFF) (formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Lao PDR	Urban Development/ Investment	2021	150.0	ADB—105.0 Cofinancing (TBD)—45.0	Proposed
xvi.	Urban Infrastructure Improvement Project (Bago Region)	Myanmar	Urban Development/ Technical Assistance	TBD	TBD	TBD	Proposed by Myanmar on 15 Aug 2019
xvii.	Regional Development Project	Myanmar	Urban Development/ Technical Assistance	TBD	TBD	TBD	Proposed by Myanmar on 15 Aug 2019
xviii.	Urban Infrastructure Improvement Project (Kyaikhto)	Myanmar	Urban Development/ Technical Assistance	TBD	TBD	TBD	Proposed by Myanmar on 15 Aug 2019

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Appendix 1 continued

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status Updates
xix.	The Capital City Vientiane to Vang Vieng Section of the Lao PDR Capital City Vientiane to the PRC Mohan Port Highway Project	Lao PDR	Transport/ Investment	2017	1,300.8	PRC—1,300.8	Ongoing Submitted by the PRC on 16 Oct 2019
xx.	New Highway Construction Project (Boten, Luang Namtha Province, Lao PDR to Houay Xai, Bokeo Province, Lao PDR)	Lao PDR	Transport/ Investment	TBD	3,600.0	PRC	Proposed Submitted by PRC on 16 Oct 2019
xxi.	Vientiane Saysettha Development Zone Project (Phase II Infrastructure and Supporting Construction Project)	Lao PDR	Other Multisector/ BEZs/ Investment	2019	300.0	PRC—300.0	Ongoing Submitted by PRC on 16 Oct 2019
				No. of projects	Cost Estimate		
Subtotal Investment Projects to be added in RIF 2022				12	7,760.5¹		
Subtotal Technical Assistance to be added in RIF 2022				9	32.6²		
Total Additional Projects				21	7,793.1		

ADB = Asian Development Bank, ASEAN = Association of Southeast Asian Nations, BEZ = border economic zone, GEF = Global Environment Facility, GMS = Greater Mekong Subregion, HLTF = High Level Technology Fund, kV = kilovolt, Lao PDR = Lao People's Democratic Republic, MFF = Multitranchise Financing Facility, NDF = Nordic Development Fund, ODA = official development assistance, PRC = People's Republic of China, RIF = Regional Investment Framework, SCF = Strategic Climate Fund, STF-23 = Subregional Transport Forum meeting number 23, Sida = Swedish International Development Cooperation Agency, TA = technical assistance, TBD = to be determined, TRTA = Transaction TA.
Source: GMS Secretariat.

¹ Total cost estimate for 10 out of 12 investment projects. Two investment projects proposed to be added have to be determined (TBD) cost estimates.

² Total cost estimate for 3 out of 9 technical assistance (TA) projects. Six TA projects proposed to be added have to be determined (TBD) cost estimates.

Appendix 2: Summary of Dropped Projects

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)
i.	Further Maintenance and Improvement of the Upper Mekong River Navigation Channel from the PRC (at Landmark 243) and Myanmar to Luang Prabang in the Lao PDR	PRC	Transport/ Investment	2016	338.0	Government of the PRC—14.2 TBD—323.8
ii.	Ensuring Sustainability of Greater Mekong Subregion Regional Power Development (Phase 2)	All GMS Countries	Energy/ Technical Assistance	2016	1.0	AFD—1.0
iii.	Development of Coherent Energy Efficiency Action Plans Across the Subregion	All GMS Countries	Energy/ Technical Assistance	TBD	1.0	TBD
iv.	GMS Renewable Energy Development (Phase 2)	All GMS Countries	Energy/ Technical Assistance	TBD	2.0	TBD
v.	Regional Action Plans for Sustainable Power Sector Development and Climate Change Mitigation	All GMS Countries	Energy/ Technical Assistance	TBD	2.0	ADB—2.0

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Appendix 2 continued

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)
vi.	Global Environment Fund Regional Biodiversity and Forestry Program	All GMS Countries	Environment/ Investment	2015	20.0	Global Environment Facility GEF— 20.0
vii.	Programmatic Support to Strengthen Environmental Management	All GMS Countries	Environment/ Investment	TBD	TBD	TBD
viii.	Capacity Building for the Management on Environmental Laboratory and Environmental Monitoring	Myanmar	Environment/ Technical Assistance	2022	0.3	TBD
ix.	Integration of Climate Change Mitigation and Adaptation Measures in Management of Transboundary Central Annamites Landscape	Viet Nam	Environment/ Technical Assistance	2018	1.3	TBD
x.	Proposing Models on Rational Utilization of Natural Capital in Biodiversity Corridors in Greater Mekong Subregion	Viet Nam	Environment/ Technical Assistance	2019	1.3	Grants

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Appendix 2 continued

	Project Title	Country Coverage	Sector/ Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)
xi.	PPTA for the Fifth Greater Mekong Subregion Corridor Towns Development Project	Select GMS Countries	Urban Development/ Technical Assistance	2019	1.5	ADB—1.5
xii.	Yangon Urban Service Improvement Project 1 (TA)	Myanmar	Urban Development/ Technical Assistance	2018	3.0	ADB—1.0 Financing Partnership Facility—2.0
xiii.	Ruili Border Economic Zone Infrastructure Development Project	PRC	Other Multisector/BEZs/ Investment	TBD	627.8	TBD
				No. of projects	Cost Estimate	
Subtotal Investment projects to be dropped				4	985.8¹	
Subtotal Technical Assistance projects to be dropped				9	13.4	
Total projects to be dropped				13	999.2	

ADB = Asian Development Bank, AFD = Agence Française de Développement (French Development Agency), BEZ = border economic zone, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PPTA = project preparatory technical assistance, PRC = People's Republic of China, TBD = to be determined.

Source: GMS Secretariat.

¹ Total cost estimate for 3 out of 4 investment projects. One investment project proposed to be dropped has to be determined (TBD) cost estimate.

Appendix 3: Summary of Projects

Transport Cambodia

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Sihanoukville Port Access Road Improvements	Cambodia	2017	5.0	Government of Cambodia (National Budget)—5.0	Completed
2	Establishment of Bus/Truck Driving Test Center	Cambodia	2017	5.0	Private Sector (SCG Thailand)/Government of Cambodia—5.0	Completed
3	Cambodia: Poipet–Border Bridge/ Aranyaprathet (6.5 km)	Cambodia	2017	6.5	Government of Cambodia—6.5	Completed
4	Phnom Penh–Sihanoukville Expressway Project (formerly Phnom Penh–Sihanoukville Highway Corridor Improvements)	Cambodia	2016	2,000.0	People’s Republic of China (PRC) Private sector—2,000.00	Ongoing
5	Road Network Improvement Project (formerly GMS: Deepening Connectivity of Southern Economic Corridor Project)	Cambodia	2017	76.9	ADB—70.00 Government of Cambodia—6.94	Ongoing
6	Link road between NR5 and NR6 near Kampong Tralach, north of Phnom Penh	Cambodia	2020	80.0	TBD	Proposed
7	Railway access to the new Phnom Penh Port (53 km)	Cambodia	TBD	200.0	TBD	Proposed
8	Southern Siem Reap bypass road (42.64 km)	Cambodia	TBD	128.0	Development Partner (DP)—120.0 (40.0 in three stages) Government of Cambodia—8.0	Proposed
9	Construction of Logistics Complex at Stung Bot (Poipet, Cambodia–Thailand border)	Cambodia	TBD	50.0	TBD	Proposed
10	Construction of Logistics Complex at Bavet (Bavet, Cambodia–Viet Nam Border)	Cambodia	TBD	50.0	TBD	Proposed

Continued on next page

Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
11	Strengthening Overload Control System	Cambodia	TBD	5.0	TBD	Proposed
12	Siem Reap to Rattanakiri National Roads Upgrading Project (SRNRUP)	Cambodia	TBD	450.0	DPs	Proposed
Subtotal (Transport Investment Projects: Cambodia)				3,056.4		

People's Republic of China

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects in RIF 2022						
13	Dali–Ruili Railway	PRC	2006	4,008.0	Government of the PRC—4,008.0	Ongoing
14	Rehabilitation of the Ning'er–Jiangcheng–Longfu road (part of Yunnan Pu'er Regional Integrated Road Network Development Project)	PRC	2014	589.5	ADB—200.0 Government of the PRC—389.53	Ongoing
15	Yuxi–Mohan Railway	PRC	2014	8,062.5	Government of the PRC—7,912.5 ADB—150.0	Ongoing
16	Jinghong–Daluo Expressway	PRC	2016	2,656.0	Government of PRC	Proposed
*Not applicable	Viet Nam: Lao Cai– Hekou (4.7 km) PRC: Hekou–Lao Cai (3 km)	PRC Viet Nam	TBD	*Cost estimate listed under Viet Nam to avoid double counting (33.6)	ADB	Proposed
Subtotal (Transport Investment Projects: PRC)				15,316.0		

Continued on next page

Investment Projects continued

Lao People's Democratic Republic

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects in RIF 2022						
17	Hongsa (Xayaboury)–Chomphet (Luang Prabang) Construction (114 km)	Lao PDR	2015	90.0	NEDA Thailand—90.0	Completed
18	Vang Tao Border–Crossing Point	Lao PDR	2013	15.0	Government of Lao PDR—15.0	Ongoing
19	Vientiane–Boten Railway Project (414km)	Lao PDR	2016	5,800.0	Government of the PRC—5,800.0	Ongoing
20	Thanalaeng–Nong Khai Railway Extension Project (7.5 km)	Lao PDR	2016	28.5	NEDA Thailand—28.5	Ongoing
21	Ban Mom River Port	Lao PDR	2017	12.0	Private sector/ Government of Lao PDR—12.0	Ongoing
22	NR13 Improvement and Maintenance Project (Vientiane to Phon Hong) NR 13 North, AH 12 and NR 13 South, AH 11	Lao PDR	2018	129.5	World Bank (International Development Association credit)—40.0 Nordic Development Fund (NDF)—9.5 Asian Infrastructure Investment Bank (AIIB)—40.0 Government of the Lao PDR— 40.0	Ongoing
*Not Applicable	Mekong Bridge at Bungkan–Paksan (with Thailand)	Lao PDR Thailand	2018	*Cost estimate listed under Thailand to avoid double counting	NEDA Thailand	Ongoing
23	Xiengkong River Port	Lao PDR	2020	15.0	Government of the PRC	Proposed
24	Thanaleng Border–Crossing Infrastructure Improvement Project	Lao PDR	TBD	25.0	Seeking financing	Proposed

Continued on next page

Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
25	Upgrading of NR8 East-West Transport Route; ASEAN Highway AH15 (Ban Lao-Nam Phao)	Lao PDR	TBD	80.0	The Korea International Cooperation Agency (KOICA) supported the feasibility study and WB is developing a pre-FS.	Proposed
26	Lalay Border-Crossing Point (NR15)	Lao PDR	TBD	10.0	Seeking financing	Proposed
27	Na Phao Border-Crossing Point (NR12)	Lao PDR	TBD	TBD	NEDA Thailand already completed a Pre-FS	Proposed
28	Luang Namtha- Xiengkok-Lao PDR-Myanmar Friendship Bridge (NR17)	Lao PDR	TBD	150.0	Under Lao-India Cooperation Framework for financing	Proposed
29	Luang Prabang-Phonexay District-Vientong District (NR4B)	Lao PDR	TBD	148.0	TBD	Proposed
30	Luang Prabang-Dien Bien Phu (107 km section Phu Thit Pheung-Na Sone/Lao PDR-Vietnam Border)	Lao PDR	TBD	90.0	Government of Viet Nam	Proposed
31	Phiafay-Attapeu: NR18A (106 km) (Parts of AH 132) East-West Transport Route	Lao PDR	TBD	130.0	The Netherland Government (RVO & FMO) funded technical and project costing	Proposed
32	Vientiane-Thakhek-Mu Gia Railway Project (450 km) Mu Gia-Vung Ang (119 km)	Lao PDR Viet Nam	TBD	6,025.0	Seeking financing for possible PPP	Proposed
33	Savannakhet-Lao Bao Railway Project (220 km)	Lao PDR	TBD	4,200.0	Seeking Financing for FS	Proposed
34	Mekong Bridge at Luang Prabang	Lao PDR	TBD	TBD after an FS	NEDA Thailand	Proposed
35	Selamphao Bridge, at the end of NR14A between the Lao PDR and Cambodia	Lao PDR	TBD	30.0	Joint 50:50 investment by the governments of Cambodia and the Lao PDR	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
36	Mekong Bridge for Thanalaeng–Nong Khai Railway Project	Lao PDR	TBD	TBD	Government of the PRC (Under Sino–Lao cooperation scheme)	Proposed
37	Dak Chung Border–Crossing Point (NR16)	Lao PDR	TBD	10.0	Seeking Financing	Proposed
38	Houei Sai River Port	Lao PDR	TBD	13.0	Seeking Financing	Proposed
39	Pakbeng River Port (Oudomxay Province)	Lao PDR	TBD	13.0	Government of the PRC	Proposed
40	Khokchong River Port (same as Luang Prabang River Port)	Lao PDR	TBD	15.0	Government of the PRC	Proposed
41	Vientiane–Ha Noi Expressway Project (Portion from Vientiane to Nam On: 335 km)	Lao PDR Viet Nam	TBD	4,250.0	JICA	Proposed
42	Upgrading 13S (portion from Savannakhet Province to Bolikhamxay) (253 km)	Lao PDR	TBD	200.0	WB—25.0 AIIB—114.0 EIB—35.0 NDF—5.0 Government of Lao PDR—15.0	Proposed
43	Navigation Channel Improvements: Lower Mekong from Luang Prabang to Savannakhet (Mekong River Commission)	Lao PDR	2019	12.2	TBD	Proposed
44	Port Construction and Improvement from Vientiane to Savannakhet (Vientiane Port, Paksan Port, Thakek Port, and Savannakhet Port)	Lao PDR	2020	19.4	TBD	Proposed
Projects proposed to be added in RIF 2022						
45	The Capital City Vientiane to Vang Vieng Section of Lao PDR Capital City Vientiane to PRC Mohan Port Highway Project	Lao PDR	2017	1,300.8	PRC—1,300.8	Ongoing
46	New Highway Construction Project (Boten, Luang Namtha Province, Lao PDR to Houay Xai, Bokeo Province, Lao PDR)	Lao PDR	TBD	3,600.0	TBD	Proposed
Subtotal (Transport Investment Projects: Lao PDR)				26,411.4		

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Investment Projects continued

Myanmar

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects in RIF 2022						
*Not Applicable	Mae Sot–Myawady Border Crossing Project and Infrastructure Improvements (with Thailand)	Myanmar Thailand	2015	*Project # and Cost estimate listed under Thailand to avoid double counting	Government of Thailand	Completed
47	East–West Economic Corridor Eindu–Kawkareik Road Improvement Project	Myanmar	2016	121.8	ADB—100.0 ASEAN Infrastructure Fund—20.0 Government of Myanmar—1.8	Ongoing
48	GMS EWEC Corridor Improvement I and II	Myanmar	2017	550.2	JICA-550.2	Ongoing
49	Thaton–Payagyi Road Improvement Project	Myanmar	2018	128.0	Private Sector (BOT System)-128.0	Ongoing
50	Daluo (PRC)–Tachilek (Myanmar) Highway	Myanmar PRC	2018	93.0	Public Private Partnership (BOT System) Government of Myanmar-46.5 Private Sector-46.5	Ongoing
51	Bridge on the Kyainton–Lyainglin–Taunggyi Road (AH2)	Myanmar	2018	15.8	Government of Myanmar-15.8	Ongoing
52	GMS Highway Modernization Project`	Myanmar	2018	202.1	ADB-200.0 Government of Myanmar-2.1	Ongoing
53	Bago–Kyaikto Road	Myanmar	2020	164.3	ADB-164.3	Proposed
54	Upgrading of Mawlamyine – Dawei – Hteekhee Rail Link (452.58 km)	Myanmar	2020	TBD	ADB NEDA Thailand	Proposed
55	Improvement of Six Inland Ports	Myanmar	TBD	236.6	JICA, Government of Belgium, Private Sector, KOICA, PPP	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
56	Loilem–Kyaington Road Section (356km) (GMS Road Section of R7 and Secondary Road of Corridor)	Myanmar	TBD	359.0	TBD	Proposed
57	Ruili (PRC)–Kyaukpyu (Myanmar) Highway	Myanmar PRC	TBD	2,153.8	Private Sector (China Haour Engineering Co.Ltd [CHEC])	Proposed
58	Upgrading of Wan Pong Port with 500-ton container-handling facilities	Myanmar	TBD	50.0	Joint Committee on Coordination of Commercial Navigation Lancang–Mekong Cooperation Special Fund	Proposed
59	Border Control Facilities at Border Crossing Points: Tachilek and Muse	Myanmar	TBD	TBD	ADB, PRC, NEDA, and Thailand	Proposed
Subtotal (Transport Investment Projects: Myanmar)				4,074.6		

Thailand

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects in RIF 2022						
60	Mae Sot–Myawaddy Border Crossing Project and Infrastructure Improvements	Thailand Myanmar	2015	130.0	Government of Thailand—130.0	Completed
61	Single Rail Transfer Operator Development Project of Laem Chabang Port	Thailand	2018	90.0	Government of Thailand (PAT)— 90.0	Completed
62	Coastal Terminal Development Project of Laem Chabang Port	Thailand	2018	58.5	Government of Thailand (PAT)—58.5	Completed
63	Tak–Mae Sot Highway Improvement Project	Thailand	2008	100.0	Government of Thailand— 100.0	Ongoing

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
64	Bang Yai–Kanchanaburi Intercity Motorway Project (part of Laem Chabang–Bangkok–Dawei [Myanmar] Corridor)	Thailand Myanmar	2015	1,600.0	Government of Thailand—1,600.0	Ongoing
65	Chiang Rai–Chiang Khong Highway Improvement Project	Thailand	2015	90.0	Government of Thailand—90.0	Ongoing
66	Aranyaprathet–Poipet New Road with Border-Crossing Facilities (Thailand part)	Thailand	2015	30.0	Government of Thailand—30.0	Ongoing
67	Lomsak–Phetchabun Highway Improvement Project	Thailand	2016	220.0	Government of Thailand—220.0	Ongoing
68	Kalasin–Nakrai–Kamcha I Highway Improvement Project	Thailand	2016	170.0	Government of Thailand—170.0	Ongoing
69	GMS Highway Expansion Phase 2 Project	Thailand	2017	213.6	ADB—99.4 Government of Thailand—114.2	Ongoing
70	National Railway Improvement	Thailand	2018	12,192.3	Government of Thailand—12,192.3	Ongoing
71	Laem Chabang Port Development Project, Phase 3	Thailand	2018	3,000.0	PPP (Public Private Partnerships) Private Sector—3,000.0	Ongoing
72	Mekong Bridge at Bungkan–Paksan (Thailand Part)	Thailand Lao PDR	2019	88.0	Government of Thailand—88.0	Ongoing
73	The Construction of a New Railway Line from Den Chai to Chiang Rai and Chiang Khong	Thailand	TBD	2,278.8	Government of Thailand—2,278.8	Proposed
74	The Construction of a New Railway Line from Baan Pai (KhonKaen) to Mahasarakham, Roi Et, Mukdahan, and Nakhon Phanom	Thailand	TBD	1,708.9	Government of Thailand—1,708.9	Proposed
Subtotal (Transport Investment Projects: Thailand)				21,970.1		

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Investment Projects continued

Viet Nam

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects in RIF 2022						
75	Central Mekong Delta Connectivity	Viet Nam	2013	860.0	ADB—410.0 Government of Australia—160.0 Korea Export-Import Bank—232.84 Government of Viet Nam—56.0	Ongoing
76	GMS Ben Luc–Long Thanh Expressway (Stage 2)	Viet Nam	2014	1,607.4	ADB—635.7 JICA—634.8 Government of Viet Nam—336.9	Ongoing
77	GMS Kunming–Haiphong Transport Corridor–Noi Bai–Lao Cai Highway (additional financing)	Viet Nam	2014	182.0	ADB—147.0 Government of Viet Nam—35.0	Ongoing
78	Second Northern GMS Transport Network Improvement (Luang Prabang–Thanh Hoa)	Viet Nam	2015	77.8	ADB—71.1 Government of Viet Nam—6.7	Ongoing
79	GMS Ha Noi–Lang Son Expressway Project (HuuNghi–Chi Lang Section)	Viet Nam	2016	1,400.0	Private Investors—1,400.0	Ongoing
80	GMS Corridor Connectivity Enhancement Project (Northern Mountains Road Connectivity Enhancement Project)	Viet Nam	2018	245.1	ADB—188.4 Government of Viet Nam—52.2 Australia—4.5	Ongoing
81	Central Region Connectivity Enhancement Project (NR 14D Improvement Project)	Viet Nam	2019	137.0	TBD—116.32; Government of Viet Nam—20.65	Proposed
82	Ho Chi Minh City Third Ring Road (BenLuc–NH22)	Viet Nam	2019	877.7	PPP: Private Investor: 436.1 ADB: 299.1 Australia: 6 Vietnam: 136.5	Proposed
83	Ho Chi Minh City–Loc Ninh (Cambodia Border) Railway	Viet Nam	2020	900.0	TBD	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
84	Second GMS Southern Coastal Corridor (also known as SSCP2)	Viet Nam	TBD	326.2	ADB—326.2	Proposed
85	GMS Road Corridors Maintenance	Viet Nam	TBD	120.0	TBD	Proposed
86	Viet Nam: Lao Cai–Hekou (4.7km) PRC: Hekou–Lao Cai (03km)	PRC Viet Nam	TBD	33.6	ADB	Proposed
*Not Applicable	Vientiane–Thakhek–Mu Gia Railway Project (450 km) Mu Gia–VungAng (F/S completion expected in 2017) 119 km	Lao PDR Viet Nam	TBD	*Cost estimate is listed under Lao PDR to avoid double counting	TBD	Proposed
Projects proposed to be added in RIF 2022						
87	Construction Project of National Highway 15D, Quang Tri province	Viet Nam	TBD	118.4	ADB—94.7 Viet Nam—23.7	Proposed
Subtotal (Transport Investment Projects: Viet Nam)				6,885.2		
Subtotal (Transport Investment Projects)				77,713.7		

ADB = Asian Development Bank, AH = ASEAN Highway, ASEAN = Association of Southeast Asian Nation, BOT = build operate transfer, DP = development partner, EWEC= East West Economic Corridor, FS = feasibility study, GMS= Greater Mekong Subregion, km = kilometer, JICA = Japan International Cooperation Agency, Lao PDR = Lao People's Democratic Republic, NEDA = Neighbouring Countries Economic Development Cooperation Agency, NR = national road, PAT = Ports Authority of Thailand, PRC = People's Republic of China, PPP = public-private partnership, RIF = Regional Investment Framework, SCG = Siam Cement Group Public Company Limited, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	GMS Corridor Enhancement Project (formerly Project Preparatory Technical Assistance for National Highway 14D Improvement)	Viet Nam	2016	1.8	ADB—1.8	Completed
2	Proposed Hoa Lac–Hoa Binh City Expressway Public–Private Partnership Feasibility Study	Viet Nam	2018	1.0	Private Sector— 1.0	Completed
3	Study on Dry Port Development Plan along International Railway Lines Connecting Thailand with Cambodia, the Lao PDR, and Myanmar	Cambodia Lao PDR Myanmar Thailand	2018	0.5	Government of Thailand—0.5	Completed
4	Transport Sector Reform and Modernization (additional financing)	Myanmar	2017	2.0	ADB—2.0	Ongoing
5	Greater Mekong Subregion East–West Economic Corridor Highway Development Project (formerly GMS EWEC Road Corridor Improvement II)	Myanmar	2017	2.0	ADB—2.0	Ongoing
6	GMS Regional Transport Corridor Improvement I	Myanmar	2019	1.5	ADB—1.5	Proposed
7	TA to complete the draft Framework Agreement for Cross-Border Railway Transport Connectivity in the GMS	All GMS countries	2020	TBD	TBD	Proposed
8	GMS Road Corridors Maintenance	All GMS Countries	TBD	TBD	Seeking financing	Proposed
9	Strategic Study on the Development and Management of the GMS Motorway Network System	All GMS countries	TBD	TBD	Seeking financing	Proposed
10	Knowledge Transfer between Thailand and the Other GMS Member Countries on Highway and Bridge Standards and Specifications, including Transport Facilitation Facilities	All GMS countries	TBD	0.4	Seeking financing	Proposed

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
11	GMS Transport Database Capacity Development	All GMS countries	TBD	TBD	Seeking financing	Proposed
12	Feasibility Study on Upgrading of Mawlamyine–Dawei–Htiikee Rail Link (452.58 km)	Myanmar	TBD	TBD	TBD	Proposed
13	Various TA projects proposed by the Lao PDR Department of Waterways and Ministry of Public Works and Transport	All GMS countries	TBD	TBD	PRC Republic of Korea	Proposed
14	Road Safety for Highway Development in the Greater Mekong Subregion East–West Economic Corridor	Myanmar	TBD	1.1	ADB (Trust Fund for Road Safety for Highway Development in GMS EWEC)—1.0 Government of Myanmar—0.06 (non-cash)	Proposed
Projects proposed to be added in RIF 2022						
15	Feasibility Study for Mae Sot–Myawaddy–Hpa-an–Thaton Rail line	Myanmar Thailand	TBD	TBD	TBD	Proposed
16	TA for Chau Doc – Soc Trang – Can Tho expressway Project	Viet Nam	TBD	TBD	TBD	Proposed
Subtotal (Transport TA Projects)				10.3		
Total (Transport Investment and TA Projects)				77,724.0		

ADB = Asian Development Bank, EWEC = East–West Economic Corridor, GMS = Greater Mekong Subregion, km = kilometer, Lao PDR = Lao People’s Democratic Republic, PRC = People’s Republic of China, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Energy

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Nam Ngiep 1 (NN1) Hydropower Project	Lao PDR	2014	976.7	ADB—215.7, JBIC—197.0, Private Sector—564.0 [NNP1 shareholders: KPIC Netherlands B.V., EGAT International, Lao Holding State Enterprise—226; Thai banks—228]	Completed
2	Lao PDR–Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR Thailand	2014	106.0	Nam Ngum 2 Power Company—106.0	Ongoing
3	Transmission Interconnection Project from Lao PDR (Na Bong) to Thailand (Udon Thani 3)	Lao PDR Thailand	2014	60.0	TBD—60.0	Ongoing
4	Continued Projects in Rural Electrification and Off-Grid Power Development in Northern Part of Lao PDR	Lao PDR	2019	50.0	TBD	Proposed
5	Extension of Energy Access in Myanmar from Nodes in Thailand and in the People's Republic of China (PRC)	Myanmar	2019	1,797.4	TBD	Proposed
6	Transmission Interconnection Project from Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3)	Lao PDR Thailand	2019	90.0	ADB—15.0 Cofinancing—75.0	Proposed
7	Rural Power Distribution and Efficiency Improvement Project (formerly, Northern-Cross Border Trade and Distribution)	Lao PDR	2020 Standby	135.0	ADB—80.0 Government of the Lao PDR—5.0 Indicative cofinancing: World Bank and AIIB—50.0	Proposed
8	500 kV Line from Mawlamyine to the Main Grid	Myanmar	2020	640.0	TBD	Proposed
9	Lao PDR–Viet Nam Power Transmission Interconnection II	Lao PDR Viet Nam	TBD	120.0	World Bank—40.0 Cofinancing (TBD)—80.0	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
10	Demonstration of Second-Generation Biofuel Technologies and Associated Biomass Value Chains	All GMS countries	TBD	80.0	TBD	Proposed
11	Transmission Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha) Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha)	Lao PDR Thailand	TBD	TBD	TBD	Proposed
Investment Projects Proposed to be Added in RIF 2022						
12	230kV Lao PDR–Myanmar Power Interconnection	Lao PDR Myanmar	2020	180.9	ODA Loan	Proposed
13	500kV Muse–Mineyal–Hopone–Phayargyi Transmisson Line (616) miles and related substations	Myanmar	2020	1,788.0	TBD	Proposed
14	230 kV Mae Sot–Myawaddy Transmission Line	Myanmar	2020	TBD	TBD	Proposed
Subtotal (Energy Investment Projects)				6,024.0		

ADB = Asian Development Bank, AIIB = Asian Infrastructure Investment Bank, EGAT = Electricity Generating Authority of Thailand, GMS = Greater Mekong Subregion, JBIC = Japan Bank for International Cooperation, KPIC = Kansai Electric Power Company, Inc., kV = kilovolt, Lao PDR = Lao People’s Democratic Republic, ODA= official development assistance, RIF = Regional Investment Framework, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>
Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
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	2014	3.0	ADB—2.5 PRC trust Fund—0.5	Ongoing

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
2	Integrated Resource Planning with Strategic Environmental Assessment for Sustainable Power Sector Development in the Greater Mekong Subregion	All GMS Countries	2015	2.2	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	Ongoing
3	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	2017	1.0	ADB—1.0	Ongoing
4	Development of GMS Coordination Center for Regional Power Trade	All GMS countries	TBD	3.0	TBD	Proposed
5	Scoping Study on the Future of the Trans-ASEAN Gas Pipeline (TAGP)	All GMS countries	TBD	1.0	TBD	Proposed
Project proposed to be added in RIF 2022						
6	Supporting GMS Regional Sustainable Power Sector Development	All GMS Countries	TBD	TBD	TBD	Proposed
Subtotal (Energy TA Projects)				10.2		
Total (Energy Investment and TA Projects)				6,034.2		

ADB = Asian Development Bank, ASEAN = Association of Southeast Asian Nations, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework RPTCC = Regional Power Trade Coordination Committee, TA = technical assistance, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Agriculture

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Greater Mekong Subregion (GMS) Flood and Drought Risk Management and Mitigation Project	Lao PDR Viet Nam	2013	101.5	ADB—81.5 Governments of the Lao PDR and Viet Nam—14.1 Cofinancing (Government of Australia)—5.9	Ongoing
2	Basic Infrastructure for Inclusive Growth in the Northeastern Provinces Sector Project (BIIG 1)	Viet Nam	2017	197.2	ADB—150.0 Government of Viet Nam—37.2 Cofinancing—10.0	Ongoing
3	Basic Infrastructure for Inclusive Growth in the North Central Provinces Sector Project (BIIG 2)	Viet Nam	2017	203.5	ADB—149.0 Government of Viet Nam—54.5	Ongoing
4	Climate Friendly Agribusiness Value Chains Sector Project	Cambodia Lao PDR Myanmar	2018	252.4	ADB—171.0 Cofinancing (Green Climate Fund or Global Agriculture Food Security Program-[GAFSP])—62.0 Governments of Cambodia, Lao PDR, and Myanmar—9.6 Beneficiaries—9.8	Ongoing
5	GMS Flood and Drought Risk Management and Mitigation Project (additional financing)	Lao PDR	2020	67.0	ADB—42.0 Government of the Lao PDR—5.0 Cofinancing—20.0	Proposed
6	Agricultural Value Chain Infrastructure Improvement Project	Cambodia	2020	76.0	ADB—70.0 Government of Cambodia—6.0	Proposed
7	GMS Cross-border Livestock Health and Value Chains Improvement Project (formerly Animal Disease Control Zone)	Cambodia Lao PDR Myanmar PRC	2021	235.0	ADB—225.0, Private sector, Governments of Cambodia, the Lao PDR, and Myanmar—10.0, PRC Banks	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
8	Agro-industrial zones (AIZs) To Support Promotion of Safe and Environment-friendly Agro-based Value Chains	Cambodia Lao PDR Myanmar PRC Viet Nam	2022	286.0	ADB Private sector Governments of the Lao PDR, Myanmar, PRC, and Viet Nam via public—private partnerships (PPPs)	Proposed
9	Cluster and Value Chain Development for Geographical Indications related to SEAP	Cambodia Lao PDR Myanmar PRC	2022	345.0	Agence Française de Développement (AFD), ADB, Food and Agriculture Organization of the United Nations (FAO), Private sector, Ministries of agriculture and commerce of Cambodia, the PRC, Lao PDR, and Myanmar	Proposed
10	GMS East–West Economic Corridor Agriculture Infrastructure Sector Project (additional financing)	Lao PDR	2022	67.0	ADB—42.0 Cofinancing—20.0 Government of the Lao PDR—5.0	Proposed
Projects proposed to be added in RIF 2022						
11	Climate Smart Horticulture Value Chain Infrastructure Project	Viet Nam	2021	TBD	ADB, Other DPs-TBD	Proposed
12	GMS Economic Corridor Agribusiness Development	Myanmar	2020	150.0	ADB	Proposed
Subtotal (Agriculture Investment Projects)				1,980.6		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework, SEAP = Strategy for Promoting Safe and Environment Friendly Agro-Based Value Chains in the Greater Mekong Sub region and Siem Reap Action Plan.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	Climate-Friendly Agribusiness Value Chains in the GMS	Cambodia Lao PDR Myanmar	2015	2.5	Canadian Climate Fund for the Private Sector—1.0 Asia Clean Energy Fund (ACEF)—1.5	Completed
2	Agricultural Value Chain Infrastructure Investment Project	Cambodia	2018	2.0	Part of ADB TRTA Facility	Ongoing
3	GMS Sustainable Agriculture and Food Security Program (formerly Implementing the Strategy on Agro-based Value Chain Investments in the GMS)	All GMS countries	2019	TBD	Nordic Development Fund (NDF) Other Donors (tbc)	Proposed
4	Economic Corridor Agribusiness Development	Myanmar	2019	TBD	TBD	Proposed
5	Supporting Infrastructure Development of Agro- industrial Zones for SEAP	Cambodia Myanmar PRC	2020	5.0	ADB, Other donors, Private sector	Proposed
6	Geographic Indications (GI) Value Chain Development and Brand Building	Cambodia Myanmar PRC Viet Nam	2020	18.0	AFD, ADB, FAO, Private sector, Governments of Cambodia, PRC, and Viet Nam	Proposed
7	Agribusiness Incubator Development	Cambodia Lao PDR Myanmar	2020	19.0	ADB, International Finance Corporation (IFC), Other donors, Private sector	Proposed
8	Climate Change Adaptation in Highland Agriculture (formerly Enhancing Productivity and Competitiveness of Safe and Environment Friendly Agriculture)	Thailand	2020	5.0	Trust Fund—2.0	Proposed
#not applicable	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	2020	*Count and Cost estimate listed under ICT to avoid double counting	ADB, IFAD, FAO	Proposed

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
9	GMS Cross-Border Livestock Health and Value Chains Improvement (formerly called Animal Disease Control Zone)		TBD	5.0	TBD	Proposed
10	Strengthening Quarantine Facilities in Myanmar	Myanmar	TBD	0.5	TBD	Proposed
11	GMS East-West Economic Corridor Agriculture Infrastructure Sector Project (additional financing)	Lao PDR	TBD	1.0	ADB (Part of TA Facility)	Proposed
Project proposed to be added in RIF 2022						
12	Preparing Agriculture, Natural Resources and Rural Development projects on ASEAN (TRTA Facility)	All GMS Countries	2019	2.0	ADB	Proposed
Subtotal (Agriculture Technical Assistance Projects)				60.0		
Total (Agriculture Investment and Technical Assistance Projects)				2,040.6		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, ICT = information and communication technology, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework, SEAP = Strategy for Promoting Safe and Environment Friendly Agro-Based Value Chains in the Greater Mekong Sub region and Siem Reap Action Plan, TA = technical assistance, TBC = to be confirmed, TBD = to be determined, TRTA = transaction technical assistance.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Environment

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Greater Mekong Subregion Biodiversity Conservation Corridors Project	Cambodia Lao PDR Viet Nam	2010	93.0	ADB—69.0 Strategic Climate Fund—20.24 GEF—3.79	Ongoing
2	Land-based Pollution Management for Healthy Rivers and Oceans (formerly, Rural Environmental Management, Pollution Control, and Waste Management)	All GMS countries	TBD	300.0	TBD	Proposed

Continued on next page

Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Climate Smart Landscapes (formerly called Integrated Land Use Management for Sustainable Development)	All GMS countries, 4 Trans-boundary Landscapes	TBD	240.0	TBD	Proposed
4	Climate Proofing of Rural Infrastructure and Risk Financing	Cambodia Lao PDR Myanmar Viet Nam	TBD	TBD	TBD	Proposed by the Lao PDR
Project proposed to be added in RIF 2022						
5	GMS Biodiversity Conservation Corridors Project – Additional Financing	Cambodia	2015	7.4	ADB—7.4	Ongoing
Subtotal (Environment Investment Projects)				640.4		

ADB = Asian Development Bank, GEF = Global Environment Facility, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, RIF = Regional Investment Framework, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	GMS Climate Change and Environmental Sustainability Program (CCESP) (formerly GMS Environment Service Facility (a.k.a. GMS Core Environment Program (CEP) Phase 3)	All GMS countries	2019	10.0	ADB—1.5 TBD	Proposed
2	Rural Environmental Management, Pollution Control, and Waste Management (GMS CEP Strategic Framework and Action Plan)	All GMS countries	2022	1.5	TBD Part of TRTA Facility	Proposed

Continued on next page

Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Integrated Land-use Management for Sustainable Development (GMS CEP Strategic Framework and Action Plan)	All GMS countries	2022	1.5	TBD Part of TRTA Facility	Proposed
Project proposed to be added in RIF 2022						
4	Core Environment Program and Biodiversity Conservation Corridors Initiative in the GMS, Phase 2	All GMS Countries	2011	30.3	ADB-1.8 Co-financing—28.5 (Finnida grant—14.0, Swedish TA grant—8.3; NDF-5.3; GEF—0.46; GEF Special Climate Change Fund—0.46)	Ongoing
Subtotal (Environment TA Projects)				43.3		
Total (Environment Investment and TA Projects)				683.7		

ADB = Asian Development Bank, CEP = Core Environment Program, GEF = Global Environmental Facility, GMS = Greater Mekong Subregion, NDF = Nordic Development Fund, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined; TRTA = transactional technical assistance.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Health and Other Human Resource Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	GMS Health Security Project (formerly GMS Communicable Disease Control Project Phase III)	Cambodia Lao PDR Myanmar Viet Nam	2016	132.2	Asian Development Bank (ADB)—125.0 Governments' Counterpart—7.2	Ongoing
2	Guangxi Modern Technical and Vocational Education and Training (TVET) Development Program (RBL)	PRC	2017	450.6	ADB loan—250.0 ADB TA—0.6 Kreditanstalt für Wiederaufbau (KfW)—200.0	Ongoing

Continued on next page

Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Local Health Care for Disadvantaged Areas Sector Development Program (formerly Strengthening Local Health Care Support Program)	Viet Nam	2018	100.6	ADB—100.6	Ongoing
4	GMS Health Security Project (additional financing)	Cambodia Lao PDR Myanmar Viet Nam	2021	60.0	ADB—60.0	Proposed
5	GMS Universal Health Care: GMS Healthy Border Special Economic Zones	Cambodia Lao PDR Myanmar Thailand	2021	72.0	ADB—72.0 Mix of TA, grant and loans	Proposed
Subtotal (Health and other HRD Investment Projects)				815.4		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, RBL = Results-Based Lending, RIF = Regional Investment Framework, TA = technical assistance.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	GMS HRD Strategic Framework and Action Plan 2013–2017, Phase 2	All GMS countries	2013	2.1	ADB—1.3 PRC Fund—0.5 Governments of the GMS countries—0.3	Completed
2	Malaria and Communicable Diseases Control in the GMS	Cambodia Lao PDR Myanmar	2015	4.5	Trust Fund under Health Financing Partnership Facility—4.5	Completed
3	Strengthening Resilience to Climate Change in the Health Sector in the Greater Mekong Subregion	Cambodia Lao PDR Viet Nam	2015	4.4	Nordic Development Fund—4.36 Governments of Cambodia, Lao PDR, and Viet Nam—0.05	Ongoing

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
4	Poverty Reduction through Safe Migration, Skills Development and Enhanced Job Placement in Cambodia, Lao People's Democratic Republic, and Thailand (PROMISE)	Cambodia Lao PDR Myanmar Thailand	2017	8.3	Swiss Agency for Development and Cooperation (SDC), International Organization for Migration (IOM)	Ongoing
5	Strengthening Regional Health Cooperation in the Greater Mekong Subregion	All GMS countries	2018	1.0	ADB—1.0	Ongoing
6	TA Facility: Support for Human and Social Development in Southeast Asia. Improving UHC Coverage in Border Areas for MMPs Project	Cambodia Indonesia Lao PDR Myanmar Philippines Thailand Viet Nam	2018	3.0	ADB TASF—3.0	Ongoing
7	High Level Technology Solutions for Communicable Disease Control in the GMS	Cambodia	2018	0.1	High-Level Technology Fund (HLTF)/ADB—0.14	Ongoing
8	Tuberculosis Regional Grant	Cambodia Lao PDR Myanmar Thailand Viet Nam	2018	10.0	The Global Fund—10.0	Ongoing
9	Regional Artemisinin-resistance Initiative 2 Elimination (RAI2-E)	Cambodia Lao PDR Myanmar Thailand Viet Nam	2018	32.0	The Global Fund—32.0	Ongoing
10	Prevention, Control and Elimination of Neglected Tropical Diseases (NTDs)	Lao PDR Myanmar	2019	30.0	Government of PRC, WHO, Korea International Cooperation Agency (KOICA), Oficina Internacional de Epizootias – World Organization for Animal Health (OIE)	Proposed
11	Capacity Building in Labor Migration Management	Cambodia Lao PDR Myanmar Viet Nam	TBD	0.3	TBD	Proposed

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No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects proposed to be added in RIF 2022						
12	High Level Technology Solutions for Communicable Disease Control in the GMS -additional financing	Cambodia Myanmar Lao PDR Viet Nam	2020	0.25	HLTF—0.25	Proposed
Subtotal (Health and other HRD TA Projects)				96.0		
Total (Health and other HRD Investment and TA Projects)				911.4		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, HRD = human resource development, HLTF = High Level Technology Fund, Lao PDR = Lao People's Democratic Republic, MMP = migrant and mobile populations, PRC = People's Republic of China, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined, UHC = universal health care.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Urban Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Second Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR Viet Nam	2015	211.8	Asian Development Bank (ADB)—170.0 Governments of Cambodia, the Lao PDR, and Viet Nam—31.8 Association of Southeast Asian Nations (ASEAN) Infrastructure Fund—10.0	Ongoing
2	Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	2018	116.9	ADB—80.0 NEDA—24.3 GCF, TICA Grant—4.9 Government of Myanmar—7.7	Ongoing
3	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia, Lao PDR	2018	142.6	ADB—128.0 Government of Cambodia—8.0 Government of Lao PDR—6.1 Cofinancing—0.5	Ongoing
4	Yangon Urban Services Improvement Project	Myanmar	2020	194.2	ADB—185.0 TBD—9.16	Proposed
5	Second Mandalay Urban Services Improvement Project	Myanmar	2021	165.0	ADB—150.0 Cofinancing—15.0	Proposed

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No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
6	Livable Cities Investment Project (formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Cambodia	2021	207.0	ADB—180.0 Government of Cambodia— 27.0	Proposed
7	Hekou Urban Infrastructure and Public Services Improvement Project	PRC	TBD	175.3	ADB Government of the PRC	Proposed
Projects proposed to be added in RIF 2022						
8	Livable Cities Investment Program (MFF) (formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Lao PDR	2021	150.0	ADB—105.0 Cofinancing (TBD)—45.0	Proposed
9	Yangon Urban Services Improvement Project—Phase 2	Myanmar	2022	165.0	ADB—150.0 Cofinancing (TBD)—15.0	Proposed
Subtotal (Urban Development Investment Projects)				1,527.7		

ADB = Asian Development Bank, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	PPTA for Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	2014	1.5	ADB—1.0 Cofinancing—0.5	Completed
2	Greater Mekong Subregion: Capacity Development for Economic Zones in Border Areas	All GMS countries	2015	0.9	ADB—0.5 Cofinancing—0.4	Completed
3	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR	2016	1.8	ADB—1.8	Completed
4	PPTA for Second Mandalay Urban Services Improvement Project	Myanmar	2017	1.0	ADB—0.75 Cofinancing (Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility)—0.225	Ongoing

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
Projects proposed to be added in RIF 2022						
5	Urban Infrastructure improvement project	Myanmar	TBD	TBD	TBD	Proposed by Myanmar on 15 August 2019
6	Regional Development Project	Myanmar	TBD	TBD	TBD	Proposed by Myanmar on 15 August 2019
7	Urban Infrastructure improvement project	Myanmar	TBD	TBD	TBD	Proposed by Myanmar on 15 August 2019
Subtotal (Urban Development TA Projects)				5.2		
Total (Urban Development Investment and TA Projects)				1,532.9		

ADB = Asian Development Bank, PPTA = project preparatory technical assistance, RIF = Regional Investment Framework, TA = technical assistance.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Other Multisector/ and Border Economic Zones

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Guangxi Regional Cooperation and Integration Promotion Investment Program, MFF tranches 1–3 (formerly Joint PRC–Viet Nam Cross-Border Economic Zones)	PRC	2016	1,180.0	Asian Development Bank (ADB)—450.0 Government of the PRC—730.0	Ongoing
2	Support to Border Areas Development Project	Viet Nam	2016	122.1	ADB—106.5 Government of Viet Nam—15.6	Ongoing

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Yunnan–Lincang Border Economic Cooperation Zone Development Project	PRC	2018	402.8	ADB—250.0 Government of the PRC—152.8	Ongoing
4	Construction of a Phnom Penh New Port Special Economic Zone	Cambodia	TBD	60.0	To be determined (TBD)	Proposed
5	Border Trade Zone in Muse, Kampitee, Shinshwehaw	Myanmar PRC	TBD	TBD	TBD	Proposed
Projects proposed to be added in RIF 2022						
6	Vientiane Saysettha Development Zone Project—Phase II (Infrastructure and Supporting Construction Project)	Lao PDR	2019	300.0	PRC—300.0	Ongoing
Subtotal (Other Multisector/Border Economic Zones Investment Projects)				2,064.9		

ADB = Asian Development Bank, MFF = multitranches financing facility, PRC = People's Republic of China, RIF = Regional Investment Framework, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in the RIF 2022						
1	Strengthening the Coordination of the GMS Program	All GMS countries	2010	6.0	ADB—5.95	Completed
2	Preparatory TA for Guangxi Regional Cooperation and Integration Promotion Investment Program	PRC	2016	1.2	ADB-1.0 Government of PRC—0.2	Completed
3	Policy Coordination and Planning of Border Economic Zones of the People's Republic of China and Viet Nam (formerly Joint Feasibility Study on Cross-Border Economic Zones in the PRC and Viet Nam)	PRC Viet Nam	2017	0.4	PRC Regional Cooperation and Poverty Reduction Fund—0.4	Completed

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
4	PPTA for Yunnan–Lincang Cross-Border Economic Cooperation and Integration Promotion Investment Program	PRC	2018	0.5	ADB	Completed
5	Sustaining the Gains of Regional Cooperation in the Greater Mekong Subregion	All GMS Countries	2017	2.0	ADB—2.0	Ongoing
6	Research on China–Indochina Peninsula Economic Corridor Transportation and Business Planning	GMS countries	TBD	4.2	TBD	Proposed
7	Feasibility Study for Thakhek Special Economic Zone	Lao PDR Thailand	TBD	1.5	TBD	Proposed
8	Training and Technical Assistance for Implementing Cross-Border Economic Zone between Myanmar and the PRC	Myanmar PRC	TBD	0.2	ADB	Proposed
9	Training and Technical Assistance for Implementing Cross-Border Economic Zone framework plan between the Lao PDR and the PRC	Lao PDR PRC	2018	2.0	TBD	Proposed
Subtotal (Other Multisector/ Border Economic Zones TA Projects)				18.0		
Total (Other Multisector/ Border Economic Zones Investment and TA Projects)				2,082.9		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PPTA = project preparatory technical assistance, PRC = People's Republic of China, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined. Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>
Source: GMS Secretariat.

Tourism

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in the RIF 2022						
1	GMS Tourism Infrastructure for Inclusive Growth	Cambodia Lao PDR, Viet Nam	2014	117.4	Asian Development Bank (ADB)—108.0 Governments of Cambodia, the Lao PDR, and Viet Nam—9.4	Ongoing
2	Construction of the Sino–Vietnamese Detian–Ban Gioc Waterfalls International Tourism Cooperation Zone	PRC Viet Nam	2016	200.0	Governments of the PRC and Viet Nam	Ongoing
3	Strengthening Tourism Vocational Training Institutions Program (*Skills Development in the Tourism and Hospitality Sector in Lao PDR-Skills for Tourism)	Cambodia Lao PDR PRC Thailand Viet Nam Lao PDR	2016	70.0	Luxembourg—8.6 (7.5 million EUR) Switzerland—8.6 (7.5 million EUR) In-kind contribution from Lao PDR	Ongoing
4	Improve Tourism Infrastructure and Facilities in the Konglor Cave–Phong Nha Ke Bang–Nakhon Phanom Corridor	Lao PDR Thailand Viet Nam	2017	1.6	Governments of the Lao PDR, Thailand, and Viet Nam, ODA (New Zealand)	Ongoing
5	Tourism Information Center and Roadside Rest Area Development	All GMS countries	2017	30.0	Governments of the GMS countries, ODA	Ongoing
6	Second GMS Tourism Infrastructure for Inclusive Growth	Cambodia Lao PDR Viet Nam	2018	136.2	ADB—122.0 Governments of the Lao PDR, and Viet Nam—14.2	Ongoing
7	Community-Based Tourism Enterprise Support Program	All GMS countries	2021	30.0	Governments of the GMS countries, ODA	Proposed
8	Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia Lao PDR Viet Nam	2022	75.0	TBD	Proposed
9	Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia Lao PDR Thailand	2022	75.0	TBD—50.0 Government of Thailand—25.0	Proposed

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Investment Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
10	River and Coastal Port Improvements	All GMS countries	2022	250.0	Governments of the GMS countries, ADB, Official Development Assistance (ODA)	Proposed
11	Improve Environmental Services in World Heritage Sites	All GMS countries	2022	250.0	Governments of the GMS countries, ODA	Proposed
12	Border Facilities Improvement Program	All GMS countries	2022	200.0	Governments of the GMS countries, ODA	Proposed
Subtotal (Tourism Investment Projects)				1,435.4		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in the RIF 2022						
1	Preparing Second GMS Tourism Infrastructure for Inclusive Growth Project	Cambodia Lao PDR Viet Nam	2016	2.2	ADB—1.5 NDF—0.7	Completed
2	Small-Scale Knowledge and Support Technical Assistance for 2018 Mekong Innovative Startup Tourism (MIST) Accelerator Program (aka Mekong Tourism Innovation) *2019 MIST Program to be Organized in Bangkok (October 2019)	Cambodia Lao PDR Myanmar Viet Nam	2018	0.2	DFAT Australia—0.225	Completed
3	Explore Mekong Digital Marketing Initiative	All GMS countries	2015	3.0	Governments of the GMS countries, ODA	Ongoing
4	Strengthening Coordination of GMS Tourism Product Development and Promotion	All GMS countries	2017	0.5	Governments of the GMS countries, ODA	Ongoing
5	Mekong Inclusive Growth and Innovation Program	Cambodia Lao PDR	2017	3.0	ODA, Swiss contact	Ongoing

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
6	Improve Subregional Tourism Data Collection and Analysis	All GMS countries	2017	6.0	Governments of the GMS countries, ODA	Ongoing
7	Tourism Product Development for Lao–Thai Heritage Quadrangle	Lao PDR Thailand	2018	0.5	Governments of the Lao PDR and Thailand, ODA—TBD	Ongoing
8	Third GMS Tourism Infrastructure for Inclusive Growth Project	Select GMS countries	2020	1.0	ADB—1.0	Proposed
9	Preparing the Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia Lao PDR Viet Nam	To be determined (TBD)	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed
10	Preparing the Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia Lao PDR Thailand	TBD	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed
11	Capacity Building for Sustainable Destination Management	All GMS countries	TBD	12.0	Governments of the GMS countries, ODA	Proposed
12	Cambodia, Lao PDR, Viet Nam Development Triangle Tourism Development Plan	Cambodia Lao PDR Viet Nam	TBD	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA—TBD	Proposed
13	Integrated Destination Planning and Management Support Program	All GMS countries	TBD	20.0	Governments of the GMS countries, ODA	Proposed
14	Formulation of Travel Guidelines along the Main GMS Corridors	All GMS countries	TBD	0.2	Governments of the GMS countries, ODA	Proposed
15	Common Tourism Standards Implementation Program	All GMS countries	TBD	12.0	Governments of the GMS countries, ODA—TBD	Proposed
16	Child-Safe Tourism Program and GMS Conference on Preventing Child Sex Tourism	All GMS countries	TBD	3.0	Governments of the GMS countries, ODA	Proposed
17	Climate Resilience and Green Growth Planning Program	All GMS countries	TBD	12.0	Governments of the GMS countries, ODA	Proposed
18	Monitoring GMS Visitor Satisfaction	All GMS countries	TBD	1.0	Governments of the GMS countries, ODA	Proposed
Subtotal (Tourism TA Projects)				79.6		
Total (Tourism Investment and TA Projects)				1,515.0		

ADB = Asian Development Bank, DFAT = Department of Foreign Affairs and Trade, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, ODA = official development assistance, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Transport and Trade Facilitation

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1	Improved SPS Handling in GMS Trade Project (additional financing) (formerly Modernization of Sanitary and Phytosanitary [SPS] Agencies for Trade Facilitation Project in GMS [Phase 2])	Lao PDR	2017	10.3	Asian Development Bank (ADB)—10.0 Government of the Lao PDR—0.3	Ongoing
2	Establishment of Logistics Hub and Truck/Trailer Terminal in Wartayar Industrial Zone (northwest part of Yangon)	Myanmar	TBD	20.0	TBD	Proposed
3	Enhancing Capacity of Sanitary and Phytosanitary (SPS) Arrangement to Facilitate Trade in Myanmar	Myanmar	2020	76.0	ADB—75.0 Government of Myanmar—1.0 (in kind, TBC) Cofinancing—TBC	Proposed
Subtotal (Transport and Trade Facilitation Investment Projects)				106.3		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined, TTF = transport and trade facilitation.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	Trade Facilitation through Partnership with the Private Sector	Cambodia Lao PDR Myanmar Thailand Viet Nam	2014	1.5	ADB Japan Fund for Poverty Reduction (JFPR)—1.5	Completed
2	Support for Implementing the Action Plan on Transport and Trade Facilitation in the GMS (Subproject 2)	All GMS countries	2014	3.7	Department of Foreign Affairs and Trade (Australia)—3.7	Completed

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Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Commodity Fairs in GMS Countries	Selected GMS countries	2014	5.0	PRC (Yunnan), JICA	Ongoing
4	ASEAN Economic Community Support Program, Technical Assistance	Cambodia Indonesia Lao PDR Malaysia Myanmar Philippines Thailand Viet Nam	2016	5.0	ADB—5.0	Ongoing
5	Advancing Time Release Study in Southeast Asia (formerly Advancing Time Release Study in the Greater Mekong Subregion)	Cambodia Lao PDR Myanmar BIMP-EAGA and IMT-GT subregions	2017	1.0	ADB—1.0	Ongoing
6	Strengthening Capacity Building for Logistics for Small and Medium Enterprises along GMS Corridors	PRC Viet Nam	TBD	TBD	TBD	Proposed
7	Strengthening the Cooperation among Cambodia, Lao PDR, and Viet Nam in the Development Triangle Area	Cambodia Lao PDR Viet Nam	TBD	1.0	TBD	Proposed
8	GMS Trade and Investment Information Service Platform	All GMS countries	TBD	2.5	TBD	Proposed
*	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	2020	*Count and Cost estimate listed under ICT to avoid double counting	ADB, IFAD, FAO	Proposed
Subtotal (Transport and Trade Facilitation TA Projects)				19.7		
Total (Transport and Trade Facilitation Investment and TA Projects)				126.0		

ADB = Asian Development Bank, ASEAN = Association of Southeast Asian Nations, FAO = Food and Agriculture Organization, GMS = Greater Mekong Subregion, ICT = information and communication technology, IFAD = International Fund for Agricultural Development, JFPR = Japan Fund for Poverty Reduction, JICA = Japan International Cooperation Agency, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RIF = Regional Investment Framework, TA = technical assistance, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Information and Communication Technology

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
Projects in RIF 2022						
1.	Broadband Development Strategies and Implementation Programs of the GMS	All GMS countries	TBD	8.0	Official Development Assistance (ODA)	Proposed
2.	Digital Connectivity	All GMS countries	TBD	15.0	ODA	Proposed
Subtotal (ICT Investment Projects)				23.0		

GMS = Greater Mekong Subregion, ODA = official development assistance, RIF = Regional Investment Framework.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
Projects in RIF 2022						
1	Broadband Development Strategies and Implementation Programs of the GMS	All GMS countries	TBD	0.1	TBD	Proposed
2	Workshops on E-Commerce Cooperation and Exchanges in GMS	All GMS countries	TBD	0.1	TBD	Proposed
3	Cross-border International Interconnected Bandwidth Expansion Project	Lao PDR PRC Viet Nam	TBD	2.1	State-owned telecom operators (China Unicom, Viettel, and LTC)—2.1	Proposed
4	Workshop on International Roaming For All Operators/Regulators in GMS Countries	Cambodia Lao PDR Myanmar Thailand Viet Nam	TBD	0.1	ODA	Proposed
5	Training in Quality of Experience (QoE) in Voice/Data Services over Communication Network Monitoring	Cambodia Lao PDR Myanmar Thailand Viet Nam	TBD	0.1	ODA	Proposed

Continued on next page

Technical Assistance Projects continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
6	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	2020	1.0	ADB, IFAD, FAO	Proposed
7	Science and Technology Strategy for Enhancing Organic Food Industry	Lao PDR	2020	0.4	ADB	Proposed
8	Feasibility Study on Science and Technology Park	Lao PDR	2020	0.35	ADB	Proposed by Lao PDR
Subtotal (ICT TA Projects)				4.3		
Total (ICT Investment and TA Projects)				27.3		

ADB = Asian Development Bank, FAO = Food and Agriculture Organization, GMS = Greater Mekong Subregion, IFAD = International Fund for Agricultural Development, JFPR = Japan Fund for Poverty Reduction, JICA = Japan International Cooperation Agency, Lao PDR = Lao People's Democratic Republic, ODA = official development assistance, PRC = People's Republic of China, RIF = Regional Investment Framework, TBD = to be determined.

Note: A more detailed list of projects, Annex to the RIF 2022: Second Progress Report and Update, is available to download at <https://www.greatermekong.org/23rd-ministerial-conference>

Source: GMS Secretariat.

Appendix 4: Regional Investment Framework 2022 Business Process for Progress Updates and Adding or Dropping of Projects

Time	Process and Concerned Entities	Notes
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 project development programming cycles.</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. • Final RIF 2022 reports are to be disseminated as reference for project development and budget planning cycles.
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 ADB GMS Secretariat for collation. <p>GMS national coordinators collaborate with line ministries for progress and proposed projects.</p>	
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 ADB GMS website; and • includes the status report in the documentation for a subsequent GMS event—senior officials’ meeting, ministerial meeting, or summit. 	

Source: GMS Secretariat.

Regional Investment Framework 2022: Second Progress Report and Update

The Regional Investment Framework 2022 (RIF 2022) is the medium-term pipeline of priority investment and technical assistance projects in the Greater Mekong Subregion (GMS) and operationalizes the strategic thrusts and priorities of the GMS Program under the GMS Strategic Framework (2012-2022) and the Ha Noi Action Plan 2018-2022. The RIF 2022 was endorsed at the 22nd GMS Ministerial Conference in Ha Noi, Viet Nam on 20 September 2017 and then adopted by the GMS Leaders during the 6th GMS Summit of Leaders on 31 March 2018 in Ha Noi including the direction to ensure that the RIF is reviewed and updated regularly to adapt to changing conditions and priorities.

This RIF 2022 Second Progress Report and Update represents updates to the RIF 2022 during the 2019 cycle (June to November 2019). It includes a revision to the RIF 2022 to a new total of 255 investment and technical assistance projects requiring a total of \$92.7 billion in financing.

About the Greater Mekong Subregion Economic Cooperation Program

The Greater Mekong Subregion (GMS) is made up of Cambodia, the Lao People's Democratic Republic, Myanmar, the People's Republic of China (specifically Yunnan Province and Guangxi Zhuang Autonomous Region), Thailand, and Viet Nam. In 1992, with assistance from the Asian Development Bank and building on their shared histories and cultures, the six countries of the GMS launched a program of subregional economic cooperation—the GMS Program—to enhance their economic relations. The GMS Program covers the following sectors: agriculture; energy; environment; health and other human resource development; information and communication technology; tourism; transport; transport and trade facilitation; urban development; and border economic zones.

About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 member countries—49 from Asia and the Pacific. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.

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