



# Regional Investment Framework for GMS: Program Updates

**28<sup>th</sup> Regional Power Trade Coordination Committee**  
**26-27 August 2021**



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# Timeline of RIF 2021 4<sup>th</sup> Update and new RIF 2022-2025

**RIF  
2022  
4<sup>th</sup>  
Update**

Official start of updating RIF 2022

Guidelines disseminated

ADB sector divisions and GMS National Coordinators gather inputs from country focal points to prepare RIF 2022 4<sup>th</sup> Progress Report

ADB sector divisions communicate with WG members **and development partners** to confirm projects details/updates

GMS Secretariat consolidates submitted sector inputs and circulate for confirmation/ comments

GMS Secretariat incorporates comments/ addl. info and prepares the RIF 2022 4<sup>th</sup> Progress Report

Present draft Report/Update in SOM preceding **7<sup>th</sup> GMS Summit**

Finalize Draft of RIF 2022 4<sup>th</sup> Progress Report

Ad referendum endorsement of GMS Ministers of RIF 2022 4<sup>th</sup> Update

July 2021

Aug. 2021

Sep. 2021

Oct. 2021

Dec 2021

7<sup>th</sup> GMS Summit

Official start of new RIF 2022-2025 preparation



# Energy Sector: RIF 2021 4<sup>th</sup> Update Projects Summary

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- ❑ **10 Investment Projects, \$4.05 billion financing**
  - 4 projects, completed
  - 3 projects, ongoing
  - 3 projects, proposed
    - 1 project proposed to be dropped since there has been no progress in the past updates: Transmission Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha) Inter connection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha) – **request RPTCC to confirm**
- ❑ **4 Technical Assistance (TA) Projects, \$10.4 million financing**
  - 1 project, completed: GMS Northern Cross-border Power Trade and Distribution 3 projects, on-going
    - 1 project previously proposed: Accelerating the Clean Energy Transition in Southeast Asia, now on-going

**Total: 14 investment and TA projects requiring \$4.06 billion in financing**



# RIF 2021 4<sup>th</sup> Update: Energy Investment Projects (1)

No.	Project Title	Country Coverage	Approval Year	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
1	Nam Ngiep 1 (NN1)	Lao PDR	2014	976.7	ADB—215.7, JBIC —197.0, Private Sector—564.0 [NNP1 share-holders: KPIC Netherlands B.V., EGAT International, Lao Holding State Enterprise—226; Thai banks—228]	Completed and operational
2	Lao PDR–Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR, Thailand	2014	106.0	Nam Ngum 2 Power Company—106.0	Completed and operational
3	Transmission Interconnection Project from Lao PDR (Na Bong)	Lao PDR, Thailand	2014	60.0	TBD— Third update Confirm with RPTCC if source is Nam Ngum 2 Power Company (same as #2)	Completed and operational
4	230 kV Mae Sot- Myawaddy Transmission Line	Myanmar	2020	Not Available despite completed	Not available despite completed	Completed and operational
5	500 kV Line from Mawlamyine to the Main Grid	Myanmar	2020	640.0	Not available despite on-going	On-going
6	230kV Lao PDR-Myanmar Power Interconnection	Lao PDR, Myanmar	2020	180.9	Not available despite on-going	On-going

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# RIF 2021 4<sup>th</sup> Update: Energy Investment Projects (2)

No.	Project Title	Country Coverage	Approval Year	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
7	500kV Muse- Mineyal- Hopone- Phayargyi Transmisson Line (616) miles and related substations	Myanmar	2020	1,788.0	Not available despite ongoing	On-going
8	Transmission Interconnec tion Project from Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3)	Lao PDR, Thailand	TBD	90.0	TBD	Proposed
9	Rural Power Distribution and Efficiency Improvement Project (formerly, Northern-Cross Border Trade and Distribution)	Lao PDR	TBD	90.0	TBD	Proposed If to be dropped, need confirmation from Lao PDR
10	Lao PDR–Viet Nam Power Transmission Interconnection II	Lao PDR, Viet Nam	TBD	120.0	World Bank—40.0 Cofinancing (TBD)— 80.0	Proposed If to be dropped, need confirmation from Lao PDR and Viet Nam
11	Transmission Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha) Inter connection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha)	Lao PDR, Thailand	TBD	TBD	TBD	Proposed to be dropped since there is no progress; subject to RPTCC confrimation
<b>Subtotal (Energy Investment Projects in RIF 2021)</b>				<b>4,051.6</b>		



## RIF 2021 4<sup>th</sup> Update: Energy Technical Assistance Projects (3)

No.	Project Title	Country Coverage	Approval Year	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
1	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	2017	1.0	ADB—1.0	Completed
2	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	On-going
3	Integrated Resource Planning with Strategic Environmental Assessment for Sustainable Power Sector Development in the Greater Mekong Subregion	All GMS countries	2015	2.5	AFD—1.15 ADB—1.35 (Regional Cooperation and Integration Fund—0.5 Cooperation Fund for Project Preparation in the Greater Mekong Subregion and in Other Specific Asian—0.5 TASF-VI—0.35	On-going
4	Accelerating the Clean Energy Transition in Southeast Asia (formerly Supporting GMS Regional Sustainable Power Sector Development and the Development of GMS Coordination Center for Regional Power Trade)	Cambodia, Indonesia, Lao PDR, Philippines, Thailand, Viet Nam, Timor-Leste	2021	4.05	ADB – 2.25 CEFPF – 1.0 Strategic Climate Fund – 0.5 Spanish Cooperation Fund – 0.3	On-going
		<b>Subtotal (Energy TA Projects)</b>		<b>10.4</b>		
	<b>Subtotal (Energy Investment Projects in RIF 2021)</b>			<b>4,062.0</b>		





## GMS 2030 Pillars –Connectivity

### GMS 2030 energy strategy

- Energy supply security and environment sustainability
- Cross-border trade ---requiring an operational RPCC with supporting working groups
- Greater private sector participation
- Promote clean and renewable energy

***GMS 2030: For endorsement at the 7<sup>th</sup> GMS Leaders' Summit on 9 September 2031***





# 7th GMS Leaders' Summit, 9 September 2021

## GMS Achievements Report: Achievements since last GMS Summit under the Ha Noi Action Plan 2018-2022, and Response to COVID-19 pandemic

(6 / 20)

### Energy

#### Establishing a Robust GMS Regional Power Market

- Creation of a GMS Regional power market
  - Regional grid code
  - Harmonized performance standards
  - Regulatory framework
- Work is underway for the next GMS Regional Power Master Plan:
  - Greater integration of renewable energies in countries' energy development.







**THANK YOU!**

