



ADB



Greater Mekong Subregion

RPTCC 27 Virtual Meeting

15 October 2020

By Philippe RUSSE



SUMMARY

1. Reminder of the last Meetings
2. Practical workplan for the next 3-6 Months
3. Proposed Approach
4. Proposed Work Plan



1. Reminder of the last Meetings



Gaps Assessment

- The Working Group for Planning and Operation, WGPO has been assigned 6 additional tasks in December 2018:
 - Task 5: Gap assessment and roadmap for the GMS Grid Code implementation.
 - Task 6: Operationalization of the GMS synchronous areas – Harmonization of the operational practices.
 - Task 7: Design of the regional ITC system for power exchange.
 - Task 8: Guidance, supervision and monitoring of TA support provided by ADB for the design of the centralized regional metering system



Gaps Assessment

- Task 9: GMS strategic planning organization for updating the GMS Master Plan
- Task 10: Assessment and management of regional transmission projects portfolio



Gaps Assessment

- A gap assessment analysis between the National Grid Codes and the GMS Grid Code was carried out in 2014 and an Action Plan for the Implementation of the GMS Grid Code was prepared in November 2019, by Mr Michel Caubet, the former ADB Senior Consultant.
- This plan is divided into three parts:
 - The assessment of the gaps in power system of each GMS country regarding the Harmonized Grid Code requirements
 - The proposed gap filling actions on the National Grid Codes and operational practises for meeting the GMS Grid Code requirements
 - The roadmap for the implementation of the actions for reaching the full compliance with the GMS Grid Code requirements, for each country



Gaps Assessment

- Since the last virtual WGPO meeting in June 16th, a Workplan was issued for bridging the gaps, based on the prepared activities by Mr. Michel Caubet, the former ADB Consultant.
- This Workplan is based on the assignment of International Experts, who could support the actions the relevant authorities, the TSOs and the Regulatory Authorities, in each GMS Country, for bridging the gaps between the National Grid Codes and the Operational Practices and GMS Grid Code requirements.
- Firstly the Task 5 divided into three activities:
 - Country Compliance Assessment of the Technical Framework with GMS Performance Standards and Review of Operational Practices
 - Harmonization and Compliance of the Operational Practices with GMS Grid Code Requirements
 - Enforcement of the GMS Regional Grid Codes
- Then the Task 6, and the other Tasks which can be implemented in parallel



Gaps Assessment

- However, due to the pandemic situation, in-person meetings are not possible. It is also noted obtaining data is difficult from some countries.
- Therefore, a practical workplan for the 3 – 6 months, which could be implemented at distance, without travels, is proposed.



2. Practical Workplan for the next 3-6 Months



Practical Workplan for the next 3 – 6 Months

- The aims of the GMS Grid Code implementation, are:
 - The harmonization of the National Grid Codes and the Operational Practices for the synchronous operation of GMS areas.
 - The development of the regional power exchanges through regional synchronized operation.
- We propose to work on the Performance Standards, with each country one by one for preparing the synchronous operation.



Practical Workplan for the next 3 – 6 Months

- For that purpose, WGPO active participation is needed. WGPO comprise of designated staff from: TSOs, Regulatory Authorities, Grid Code specialists and Transmission System Engineers, their participation is needed and essential.
- We propose to work on the Performance Standards through Video Conferences with WGPO designated staff for each country separately, once a month.
- WGPO designated staff of each country will contact the experts in TSO and Regulatory Authority and others as needed. The agenda will be prepared by the ADB senior consultant and agreed by WGPO/RPTCC.



Practical Workplan for the next 3 – 6 Months

- The proposed topics for the VCs, will be:
 - The frequency control: primary frequency control, secondary frequency control, tertiary frequency control
 - The voltage control
 - Faults clearance time
 - Short Circuit current level
 - Power system Studies
 - Harmonic distortion level



3. Proposed Approach



Proposed Approach

- The proposed approach for each topic:
 - Only one topic will be covered at a time starting from the updating of the Gap analysis of the Performance Standards, dated June 2014
 - If necessary, the assistance of other experts might be requested.



Proposed Approach

- The proposed approach for each topic:
 - Choice of the actions to be implemented for reaching the compatibility of the Performance Standards with the GMS requirements
 - Elaboration of a workplan and a planning for the implementation of the decided actions
 - Periodical evaluation of the progress for the implementation of the decided actions.
- This approach could start, once agreed by the WGPO and the RPTCC in October 15th.
- If WGPO/RPTCC agree, we propose to start with Myanmar, Laos and Cambodia, because they will operate in the near future synchronized interconnections in the GMS region.
- If successful, the same approach will be extended to other GMS members



4. Proposed Work Plan



Proposed Work Plan

Upon the agreement of WGPO/RPTCC

- Performance Standards define the requirements for synchronized operation.
- First Topic to be treated: Frequency Control.
- Before the first VC meeting, the ADB consultant will send to the WGPO designed staff, the list of gaps regarding the frequency control, of their country, dated 2014.
- The WGPO designed staff will contact the experts in TSO and Regulatory Authority for collecting the actual information on each gap and reporting the collected information to the ADB consultant.
- First VC meeting with the WGPO designed staff:
 - Updating the gap assessment analysis of 2014, for Frequency Control
 - Establishment of a list of possible actions for bridging each gap



Proposed Work Plan

- The WGPO designed staff will contact the TSO and the Regulatory Authority for collecting their feedbacks regarding the possible actions, and report to the ADB consultant
- Organization of a VC meeting with the WGPO designed staff and the TSO, for the selection of the actions to be implemented for filling each gap.
- Evaluation of the financial requirements and the timeline for the implementation of the selected actions and presentation to WGPO/RPTCC for agreement.



Proposed Work Plan

- Once the actions are agreed by the WGPO/RPTCC
 - Establishment of the implementation roadmap and the progress control program.
- Implement of the same sessions of VCs and activities for the second topic: Voltage Control
- Presentation of a feedback to the WGPO/RPTCC for the decision to extend the approach to the other GMS members



Proposed Work Plan

- The agenda will be prepared by the ADB consultant and agreed by WGPO/RPTCC. The decisions and actions planned during the meeting, will be summarized in a Minute of Meeting, by the ADB consultant, with the proposed date of the next meeting, about 4 weeks later, for giving time to the WGPO designed staff, for carrying out the decided tasks.
- Proposed dates for the first meetings:
 - October 27th, first meeting with WGPO designed staff from Myanmar, on Frequency Control
 - November 5th, first meeting with WGPO designated staff from Laos, on Frequency Control
 - November 17th, first meeting with WGPO designated staff from Cambodia, on Frequency Control



Proposed Work Plan

- The Task 5.1 **Enforcement of the GMS Grid Code**, proposed during the virtual meeting held on June 16th, could be also launched. This Task aims to:
 - Establish the Inter-Governmental MOU to adopt the GMS Grid Code.
 - Set up of the governance structure for management of the GMS Grid Code including the Grid Code Secretariat and the Regional Grid Code Review Panel with effective set-up of RPCC.
 - Present to RPTCC for comments and adoption.
- It is proposed to update the Terms of Reference of a legal expert, by the ADB consultant.
- In addition, as soon as the constrains linked to the pandemic situation, will be finished, the proposed activities of the practical workplan will be switched to the initial workplan. The assignments of the international experts on sites will start for working on the points not treated during the practical workplan. The results of the actions carried out during the practical workplan will be integrated in the activities for the enforcement of the GMS Grid Code.



**THANK YOU VERY MUCH FOR
YOUR ATTENTION**