Checklist for Submission of Documents for Large-Scale Solar (LSS) Projects in Sarawak

Please be advised that the following mandatory documents must be submitted. In addition, the general documents are beneficial to include for expediting the evaluation process. A soft copy of all technical and commercial requirements is required along with the hard copy.

i. Mandatory Documents:

Technical Requirements:
a) Installed Capacity (MWp) and Output Capacity (MWac) injected into the Grid, including the level of voltage connection. [*Reference: Planning Code Appendix A – PC A1.3: Generating Unit and Power Station Data*]
b) Solar energy yield report (PVsyst, data source from Meteonorm / SolarGIS) including, Daily/Hourly power output profile and annual output energy of the LSS facility
c) Proposed geographical location of the LSS facility with site coordinates and landowner's consent for the project
d) System configuration and technical information including the connection scheme, e.g., standalone solar, any capacity firming/smoothing or backup with battery energy storage system, etc. [*Reference: Planning Code Appendix A – PC A1.1: Connection Point and User Network Data*]
e) Project implementation schedule and proposed commencement date of the LSS facility
f) Battery Energy Storage System maximum capacity and expected energy output (if applicable)
Commercial Requirements:
a) Proposed tariff and supply term
b) Consortium arrangements (if any)

ii. General Documents:

Technical Requirements:
a) Proposed PV models in PSS/E software
b) Grid Forming capability
c) whichever Standard Planning Data relevant/available in PC A1 [*Reference: Planning Code Appendix A – PC A1: Standard Planning Data*]

The following section outlines SEB connection guidelines and requirements for projects connecting to the grid:

a. Compliance with SEB's connection guidelines:

- < 30MVA will connect at 33kV
- > 30MVA but < 120MVA will connect at 132kV
- > 120MVA will connect at 275kV

b. LILO connection to existing SEB's transmission lines via Turnkey Project Model

- LILO connection is allowed at 132kV only and case-to-case basis
- LILO connection is not allowed at 275kV and higher voltage levels
- Turnkey Project Model at 132kV is allowed based on case-to-case basis and comply to SEB's requirement