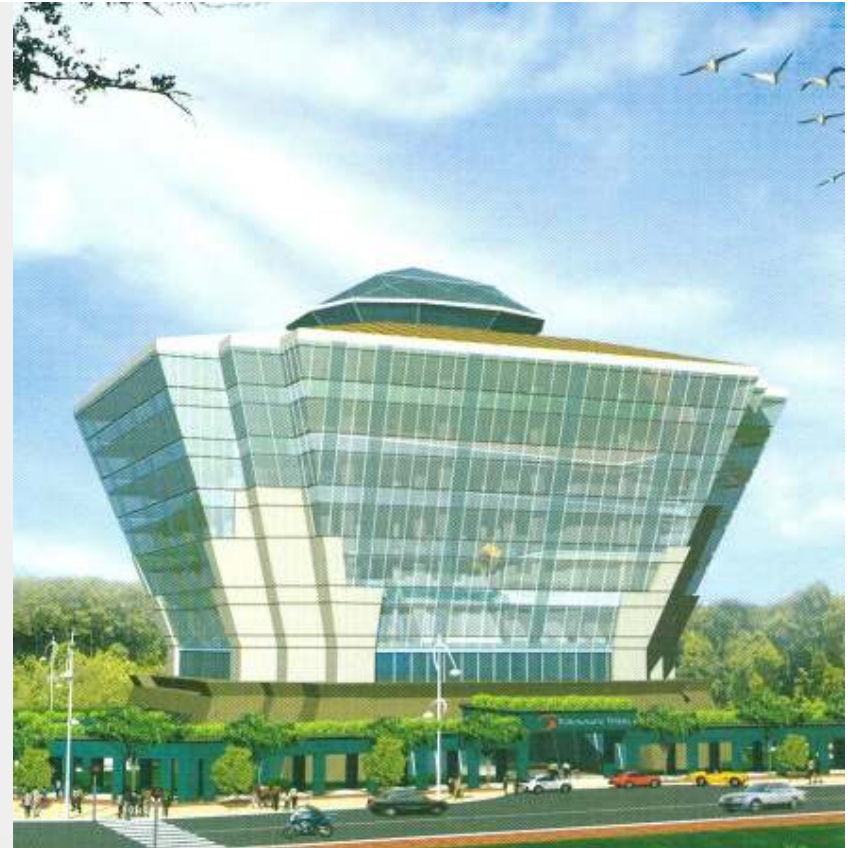


# INTRODUCTION TO THE MALAYSIAN DISTRIBUTION CODE



**21 DECEMBER 2010**

*Cyberview Lodge Resort & Spa*

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# Objectives of the Code

The Objectives of the Code are to:

- Specify the normal technical parameters and requirements for design and operation.
- Specify the technical requirements for connection to the **Distribution System**.
- Specify the data exchange requirements between **Users** and **Distributors**.
- Comply with relevant provisions of the **Grid Code**.

# Scope of the Code

- Applies to distribution license holder and **Users**.
- Contain rules and technical procedures
- Designed to;
  - Permit the development, operation and maintenance.
  - Facilitate competition.
  - Ensure non discrimination.

# Governance Arrangement

- Not stated under the Electricity Act 1990 (Act 447).
- Enforced by **Energy Commission (“the Commission”)**
- The **Commission** has the responsibility for approving the **Distribution Code**.
- Legal obligation of each **Distributor** and **User**.

# Governance Arrangement Cont.

- **Low Voltage Consumers** - the **Distributor** has a duty to implement procedures for connection to the **Distribution System**.
- **The Commission** shall establish a **Distribution Code Committee**.

# Distribution Code Committee

- Representation of The Distribution Code Committee.
  - Three members representing TNB Distribution Division
  - Two members representing other Distributors
  - Two members representing Embedded Distributors
  - Two members representing the Distributed Generators
  - Two members representing Regional Control Centres
  - One member representing Consumer
  - One member representing Energy Commission
  - An observer appointed by the Grid System Operator



# Distribution Code Committee Cont.

- An observer appointed by the Grid System Operator
  - An observer appointed by the TNB Transmission Division
  - Any other party as an observer or a member whom the Committee feels necessary
- 
- All members of the Distribution Code Committee shall be approved by the Commission. The Committee will be chaired by a Senior Officer of the Commission having adequate technical background.

# Distribution Code Committee Cont.

The Committee's functions are to:

- Review the implementation of the Distribution Code
- Review all suggestions for amendments to the **Distribution Code**.
- Publish recommendations, for public consultation.
- Provide guidance in relation to the **Distribution Code** - implementation, performance and interpretation.
- Consider what changes are necessary to the **Distribution Code**.

# Legacy arrangements, Derogations and Exemptions

- Nothing contained in the **Distribution Code** is intended to modify, replace or negate the existing requirements and obligations established in Power Purchase Agreements and **Connection Agreements**.
- The **Distribution Code** is intended to complement and clarify of those previously issued documents.
- Original agreements take precedence only to the extent that they do not affect the safety and security of the **Distribution System**.

# Disputes

- A dispute within the **Committee** and/or from public consultation on the provisions of the **Distribution Code** is resolved by the **Distribution Code Committee**.
- Interpretation and application of the provisions of the **Distribution Code** - Parties are urged to settle disputes between themselves promptly and fairly as they arise.
- If a **Distribution Code** related dispute between a **Distributor** and **User** cannot be resolved, then the matter may be referred to the **Commission** for a decision.
- The **Commission** may then seek advice from the **Committee** on any dispute on interpretation of the **Distribution Code**. The Commission may decide to take assistance of sector/legal experts, as required for arriving at a decision

# Sections under the Code

- The Distribution Code contains 9 sections;
- Preface-
  - ❑ provides brief background information of the electricity supply industry in Malaysia
- Distribution glossary and definitions-
  - ❑ provides descriptions and meanings of technical and other words or expression used in the Distribution Code
- Introduction
  - ❑ Describes the scope and propose of the establishment of the Distribution Code
- Distribution General Condition
  - ❑ covers legal interpretation and specifies the governance arrangement of the Distribution Code through Distribution Code Committee.

# Sections under the Code Cont

- Distribution Planning Code
  - Ensure the planning of Distribution System are inline with electricity regulations to provide an economic, efficient and coordinate electricity supply system.
- Distribution Operation Code
  - Focus on coordination of safety operation and maintenance at points of interferences between Distributors and users.
- Distribution Connection Code
  - Specifies technical requirements to ensure uniformity and coordinated connections and compliance with DPC and DOC.

# Sections under the Code Cont

- Data Registration Code
  - Specifies the requirements for registering data interchanged between Distributors and Users.
- Metering Code
  - Set out technical requirements for revenues metering at the interface between distributors and users.

# Distribution General Condition

The objective of DGC are to;

- Ensure that the various sections of the Distribution Code work together and work in practice for the benefit of all Users.
- Specify the arrangements for the Distribution Code Committee.
- Covers legal interpretation and specifies the governance arrangement of the Distribution Code through Distribution Code Committee.



# Distribution Planning Code

- The objectives of the Distribution Planning Code are:
- To enable the **Distributor's Distribution System** to be planned and designed so that the **Distribution System** operates within the supply performance and safety requirements.
- To specify the security, quality of supply and the limits of frequency, voltage and voltage distortion.
- To specify planning criteria and supply performance requirements.
- To specify requirements for determining **Demand** forecasts by the **Distributors** and **Users**.
- To establish requirements for provision of planning information.

# Distribution Operating Code

- The objectives of the **Distribution Operating Codes (DOC)** are:
- To meet supply performance requirements in terms of adequacy, supply security, power quality, and safety for all **Users**;
- To specify requirements for determining and submission of operational **Demand** forecasts by all **Users**.
- To specify operating criteria and supply performance requirements to be complied with by all **Distributors**.
- To establish requirements for coordination of inspection and maintenance, **Distribution System** control, switching operations and monitoring of performance at the points of interface between the **Distributors** and **Users**; and
- To establish guidelines for exchange of operating information between the **Distributors** and **Users**.

# Distribution Connection Code

- The objectives of the Distribution Connection Code are:
- To enable the **Distributor** to provide **Users** with a connection to the **Distribution System** through planning, design, construction, commissioning and operation to meet existing and planned loads.
- To specify the technical requirements of the **Distributor** and **Users** in relation to providing a **User** with a connection to the **Distribution System**; and
- To establish requirements for exchange of data and information between the **Distributor** and **Users** to enable the **Distributor** to make an offer of connection.

# Data Registration Code

- The objective of the **DDRC** is to;
- collate and list in a readily identifiable form all the data to be provided by:
  - Each category of **User** to the **Distributor** under the **Distribution Code**.
  - The **Distributor** to each category of **User** under the **Distribution Code**.

# Metering Code

- The objective is to;
  - establish technical requirements relating to **Revenue Metering** to enable the **Distributor** and the **Users** to comply with the **Electricity Supply Laws** and **Licence** obligations and that these technical requirements are consistent for all **Users**.
- Specify the following:
  - the technical requirements for the **Equipment** used for measurement and recording of electrical quantities required for **Revenue Metering**.
  - the parameters to be measured and accuracy requirements.
  - the technical requirements relating to installation, testing, operation and maintenance metering installations.



# THANK YOU

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