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| <b>COURSE TITLE</b>       | Basic Wholesale Electricity Spot Market (WESM) Training   |
| <b>COURSE REQUIREMENT</b> | This course serves as an introductory training to all participants, no course requisite associated.<br><br>Any interested party that complies with the training enrolment procedures may be accommodated to the course. |
| <b>DURATION</b>           | 2 days (approximately 9 lecture hours + 1 hour written exercises + 0.5 hour trading floor visit + 0.5 hour for pre-lecture introductions + 3 hours 15 mins hands-on exercise)   |

### I. COURSE DESCRIPTION

This course will equip the participants with the basic principles governing the WESM operations. This includes discussions on the provisions of the Electric Power Industry Reform Act (EPIRA) pertaining to the Philippine electricity market, the governance and the role of WESM in the power industry as well as its basic operations. This is composed of four (4) modules: WESM Fundamentals, Dispatch Scheduling and Pricing, Trading Operations, and Billing and Settlement. It also covers a hands-on exercise on the Market Participant's Interface (MPI), the interface that links the WESM members to the trading operations in the WESM and the Central Registration and Settlement System (CRSS), the interface that will cover registration/post-registration, contract management, declaration of bilateral contract quantities, and uploading of metered quantities.

### II. COURSE OUTLINE

| #  | TOPIC/S   | DESCRIPTION  | APPROX. LENGTH        |
|--|---|--|-----------------------|
| <b>DAY 1</b>   |   |  |                       |
| <b>I</b>   | <b>WESM Fundamentals</b>  |  |                       |
| I-1<br>I-2<br>I-3<br>I-4<br>I-5                      | -Establishment of the WESM<br>-Features of the WESM<br>-WESM structure<br>-Membership and participation in the WESM   | Legal basis of WESM, features of the WESM, basic operation of WESM including its governance and membership.  | <b>2 hours</b>        |
| <b>II</b>  | <b>Dispatch Scheduling and Pricing</b>  |  |                       |
| II-1<br>II-2<br>II-3<br>II-4<br>II-5<br>II-6<br>II-7 | -Background<br>-Market Dispatch Optimization Model<br>-Market Offer<br>-RTD<br>-Regional Price Separation<br>-Market Pricing Errors and Re-run<br>-Post Market Run Calculations | Price Determination Methodology and Market Dispatch Optimization Model; Basic concepts on the construction and submission of market offers, determination of market prices, pricing errors, regional price separation and overview of other pricing methodologies in the Post Market Run Calculations. | <b>3hours 30 mins</b> |
| <b>III</b>   | <b>Trading Operations</b>   |  |                       |



Corporate Strategy & Communications Department  
 Corporate Communications Division  
 Knowledge Management Section  
**Course Syllabus**  
**Basic WESM Training**

| #                             | TOPIC/S  | DESCRIPTION   | APPROX. LENGTH         |
|-------------------------------|--|---|------------------------|
| III-1<br>III-2<br>III-3       | -Background<br>-WESM timetable<br>-Emergency conditions  | Scheduling and Dispatch processes before and after the restructuring of power industry, market timeline such as WAP, DAP, HAP, and RTD overview on the trading operation procedures during emergency conditions.  | <b>1 hour 15 mins</b>  |
| <b>DAY 2</b>                  |  |   |                        |
| <b>IV</b>                     |  |   |                        |
| <b>Billing and Settlement</b> |  |   |                        |
| IV-1<br>IV-2<br>IV-3<br>IV-4  | -Settlement process<br>-WESM billing<br>-Additional Compensation<br>-Payment and Collection                | Settlement process and timetable, trading amount calculation for ex-ante trading amount; Overview of WESM billing including templates and timeline; Additional Compensation during Market Suspension/Intervention and during designation as MRUs, and Payment and Collection in the WESM including Prudential Requirement.  | <b>2 hours 30 mins</b> |
| <b>Written Exercise</b>       |  |   |                        |
| <b>Basic WESM Exam</b>        |  |   |                        |
| <b>1 hour</b>                 |  |   |                        |
| <b>Hands-On Training</b>      |  |   |                        |
|                               | -Market Participant Interface (MPI)<br>-Central Registration and Settlement System (CRSS)<br>-WESM website | Introduction on the Market Management System, the navigation buttons of Market Participant's Interface, required market information for trading participants, syntax in performing market offers and bids (energy, reserve, ramp rate, Pmax, etc.) as well as timelines in performing market trading.<br><br>Introduction on the CRSS, navigation of the different functionalities of the system such as Registration, Contract Management, BCQ Declaration, MQ Uploading, and Post-Registration. | <b>3 hours 15 mins</b> |
| <b>Trading Floor Visit</b>    |  |   |                        |
| <b>0.5 hour</b>               |  |   |                        |