



Background

Energy sector is evolving fast. A coordinated national planning process is an essential element to effectively address evolving energy challenges throughout the region and maximize the opportunities that technological advances may bring.

Any credible plan will need the insights of local professionals, access to reliable information, and use of defensible quantitative methods for evaluating alternative development paths.

The proposed training will support a structured approach to national power system planning enabling optimal informed judgments and strategies to meet current and future energy objectives.

Objective

The purpose of this workshop is to train representatives of CAREC countries on the use of the MESSAGE energy planning software to create forecasts and analyze alternative scenarios of energy sector development. The MESSAGE model is used to map energy flows from resource extraction, through processing and conversion, to the distribution and provision of energy services. With MESSAGE, resource limits, technology evolution, energy and environmental policies are also formulated as inputs and the model weights alternative solutions (including cost-effective penetration of energy efficiency, renewable energy, and other energy options) according to their life-cycle costs to determine the optimal investment strategy and technology development pathway for the energy system.

MESSAGE results include annual national energy balances out to any target year; power investment plan responsive to evolving technical, economic, political and environmental considerations; identification of the key technologies that will provide future energy services; and quantification of environmental burdens associated with development of the energy economy

Workshop Outputs and Learning Outcomes

Workshop participants will receive a copy of the MESSAGE software, an eLearning package for home-based education and 3-days of instructor led training. It is expected that at the end of the training, participating country representatives will have the tools and basic understand of how to apply the MESSAGE model for national planning.

DAILY SCHEDULE

TIME	FRIDAY, 1 JUNE 2018
	<i>All workshop sessions to be conducted at the Clermont Room, 22nd floor, Discovery Suite Ortigas</i>
09:00 – 10:00	Welcome & Opening Remarks <ul style="list-style-type: none"> - ADB - <i>Dr. Balendra Sutharshan, Argonne National Laboratory</i>
10:00 – 10:40	Session – 1 Major Issues for Sustainable Energy Development <ul style="list-style-type: none"> - <i>Presenter: Dr. Hans-Holger Rogner</i>
10:40 – 11:30	Session – 2 Energy System Modelling for Sustainable Energy Systems <ul style="list-style-type: none"> - <i>Presenter: Mr. Irej Jalal</i>
11:30 – 11:45	Tea/Coffee Break
11:45 – 12:30	Session – 3 Energy and Global Security Initiatives at Argonne National Laboratory <ul style="list-style-type: none"> - <i>Presenter: Dr. Sutharshan</i>
12:30 – 13:30	Lunch Break
13:30 – 14:15	Session – 4 Introduction to MESSAGE <ul style="list-style-type: none"> - <i>Presenter: Mr. Jalal</i>
14:15 – 17:00	Work Session Familiarisation with MESSAGE modelling framework <ul style="list-style-type: none"> - <i>Presenters: Dr. Rogner, Mr. Jalal, and Mr. Hamilton</i> Demonstration of MESSAGE software <ul style="list-style-type: none"> - <i>Presenter: Mr. Jalal</i>
TIME	SATURDAY, 2 JUNE 2018
	<i>All workshop sessions to be conducted at the Clermont Room, 22nd floor, Discovery Suite Ortigas</i>

09:00 – 09:40	<p>Session – 5 Paris Agreement: Challenges and Opportunities - <i>Presenter: Dr. Rogner</i></p>
09:40 – 10:20	<p>Session – 6 Energy System Modelling for Climate Policy - <i>Presenter: Mr. Jalal</i></p>
10:20 – 11:00	<p>Session – 7 Argonne’s Advanced Analytics for Renewable Energy System Planning - <i>Presenter: Mr. Hamilton</i></p>
11:00 – 11:20	Tea/Coffee Break
11:20 – 12:15	<p>Session – 8 Guidance on Presentation of Country Case Studies - <i>Presenter: Mr. Hamilton</i></p>
12:15 – 13:30	Lunch Break
13:30 – 17:00	<p>Work Session Hands-on training on Developing Country Case Studies - <i>Presenters: Dr. Rogner, Mr. Jalal, and Mr. Hamilton</i></p>
TIME	SUNDAY, 3 JUNE 2018
	<i>All workshop sessions to be conducted at the Clermont Room, 22nd floor, Discovery Suite Ortigas</i>
09:00 – 09:40	<p>Session – 9 Translating Modelling and Analysis Results to Strategy and Policy - <i>Presenter: Dr. Rogner</i></p>
09:40 – 11:00	Work Session
11:00 – 11:20	Tea/Coffee Break
11:20 – 12:30	Participant Presentations of Country Case Studies
12:30 – 13:30	Lunch Break
13:30 – 15:45	Participant Presentations of Country Case Studies (Continued)
15:45 – 16:00	Tea/Coffee Break
16:00 – 16:30	Discussion on Follow-up activities



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16:30	Closing
17:30 – 19:00	Cocktail Reception and Presentation of Certificates <i>(Magellan Room, 41st floor, Discovery Suites Ortigas)</i>