

Technology Platform/ISGAN/SENER drafting workshop: How2Guide for Smart Grids in Distribution Networks

Technological Museum of the Electricity Federal Commission (MUTEC)
26-28 March 2012, Mexico City, Mexico

Time	Day 1: Monday 26 March 2012	Length
8:30-9:30	Registration and coffee	1h
9:30-10:00	<p>Session 1: Opening remarks (Seminar format)</p> <ul style="list-style-type: none"> • Chair: Ms. Luz Aurora Ortíz, Director General of Electric Power Distribution and Supply, and Nuclear Resources, SENER • Speaker: “Welcome to Mexico and the Mexican distribution network challenge”: Jaime Gonzalez Aguadé, Undersecretary of Electricity, SENER • Speaker: “Introduction to the IEA and How2Guides”: Ambassador Richard H. Jones, Deputy Executive Director, International Energy Agency • Speaker: “Smart Grid drivers and opportunities”: Michele De Nigris, Chair of ISGAN 	30’
10:00-10:30	<p>Session 2: How2Guide concept and workshop objectives (Seminar format)</p> <ul style="list-style-type: none"> • Facilitator: David Elzinga, IEA • Speaker: Alex Murley, IEA <p><i>This session will introduce the How2Guide concept and methodology as well as workshop objectives.</i></p>	30’
10:30-11:15	<p>Session 3: Drivers for Smart Grids deployment in the distribution system (Group format)</p> <ul style="list-style-type: none"> • Facilitator and speaker: David Elzinga, IEA <p><i>This session will introduce the workshop format, scope, and ambition. Delegate groups will discuss the benefits of smart grids, as well as prioritise identified topic areas (e.g. losses, system operations, electric vehicle deployment, managing variable renewables, and customer interactions).</i></p>	45’
11:15-11:45	Coffee break	30’
11:45-12:30	<p>Session 4: Technology grouping (Group format)</p> <ul style="list-style-type: none"> • Facilitator: Alex Murley, IEA • Speaker: Doug Houseman, Enernex <p><i>This session will consider the range of energy technologies associated with smart grids. Delegate groups will categorise technologies in terms of relevance, sequential and prioritised relevance to identified issues discussed in the rest of the workshop.</i></p>	45’
12:30-13:30	Lunch	1h
13:30-15:30	<p>Session 5: Distributed generation in the distribution system (Panel/Group format)</p> <ul style="list-style-type: none"> • Facilitator: David Elzinga, IEA • Panel chair: Russ Conklin, US Department of Energy • Panellist: David Beauvais, CammetENERGY, Natural Resources Canada • Panellist: John Baker, EA Technology • Panellist: Helfried Brunner, Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT) • Panellist: Dr. Raúl Velázquez Sánchez, Electrical Research Institute (IIE) <p><i>This session will identify the full range of system and network impacts, both positive and negative, promoted by large scale deployment of distributed generation (including variable renewables). Panel and group discussion will explore existing technical and regulatory solutions to manage such challenges.</i></p>	2h
15:30-15:45	Coffee Break	15’

15:45-17:30	<p>Session 6: Customer relationship and demand response (Group format)</p> <ul style="list-style-type: none"> Facilitator: Alex Murley, IEA Speaker: Colin Calder, Passiv Systems Speaker: Armando Infanzon, SDG&E <p><i>This session will focus on the residential and commercial sectors covering such issues as technology, privacy, security issues, consumer and utility benefits.</i></p>	1h45
17:30-17:45	<p>Day 1 conclusions</p> <ul style="list-style-type: none"> Speaker: Doug Houseman, Enernex 	15'
Evening	Cocktails and Dinner	-

Time	Day 2: 27 March 2012	Length
9:00-10:15	<p>Session 7: Reduction of losses in the system (Group format)</p> <ul style="list-style-type: none"> Facilitator: David Elzinga, IEA Speaker: Moises Rodriguez, Electricity Federal Commission (CFE) Speaker: Eliud Cerqueda Perez, CFE <p><i>This session will focus in particular on technical and commercial loss issues within the distribution network.</i></p>	1h15
10:15-11:30	<p>Session 8: Operations (Panel format)</p> <ul style="list-style-type: none"> Facilitator: David Elzinga, IEA Panel chair: Dr. Yong Hun Jung, South Korea Ministry of Knowledge Economy Panellist: Stig Goethe, Power Circle Panellist: Pil Bae Song, Asian Development Bank (ADB) Panellist: Seppo Karkkainen, Demand Side Management IA Panellist: Gary Rackliffe, ABB <p><i>This session will examine operational issues, including reliability (self-healing and system level monitoring/control), interaction with Generation (variable renewables and dispatchability), the customer interface, interaction with Transmission, as well as the provision of ancillary services.</i></p>	1h15
11:30-11:45	Coffee Break	15'
11:45-13:00	<p>Session 9: Planning and development tools (Group format)</p> <ul style="list-style-type: none"> Facilitator: Alex Murley, IEA Speaker: Steve Widergren, PNNL <p><i>This session will cover network maintenance, refurbishment, new build, as well as efficiency improvement, timing of investment, and forecasting demand and generation growth.</i></p>	1h15
13:00-14:00	Lunch	1h
14:00-15:15	<p>Session 10: Smart Grids scenario pathways (part 1) (Group format)</p> <ul style="list-style-type: none"> Facilitator: Alex Murley and David Elzinga, both IEA <p><i>The first scenario will discuss a low-carbon/high growth scenario. Low carbon includes high variable renewables and EV penetrations. High growth is characterised by significant new deployments of conventional infrastructure.</i></p>	1h15
15:15-15:45	Coffee Break	30'
15:45-17:00	<p>Session 11: Smart Grids scenario pathways (part 2) (Group format)</p> <ul style="list-style-type: none"> Facilitator: Alex Murley and David Elzinga, both IEA <p><i>The second scenario will discuss a low-carbon/low growth scenario. Low growth is characterised by aging infrastructure with low new deployments of new conventional infrastructure.</i></p>	1h15
17:00-18:00	<p>Day 2 and workshop conclusions</p> <ul style="list-style-type: none"> Speaker: Alex Murley and David Elzinga, both IEA 	1h

Technology Platform/ISGAN/SENER dialogue workshop: Latin American and Caribbean (LAC) focus on Smart Grids

Time	Day 3 – 28 March	Length
9:00-9:20	<p>LAC Session: Opening remarks (Seminar format)</p> <ul style="list-style-type: none"> • Speaker: Julio Valle, Director General of Research, Technological Development and Environment, SENER 	20'
9:20-10:30	<p>LAC Session: Grid impact from variable renewables and electric vehicles (Seminar format)</p> <ul style="list-style-type: none"> • Chair: Julio Valle, SENER • Speaker: Charles Newcomb, NREL • Speaker: Matt Futch, IBM • Speaker: DJ Kang, KERI • Speaker: Abraham Escudero, CFE <p><i>This session will draw on international experience to examine the current and future challenges facing Latin American countries as a result of variable renewables and EV deployment.</i></p>	1h10
10:30-11:40	<p>LAC Session: Loss reduction and rural electrification (Seminar format)</p> <ul style="list-style-type: none"> • Chair: Manlio Coviello, CEPAL • Speaker: Douet Stennett, Jamaica Ministry of Science Technology, Energy and Mining; • Speaker: Eliud Cerqueda Perez, CFE • Speaker: Moises Rodriguez, CFE • Speaker: Pil Bae Song, Asian Development Bank (ADB) • Speaker: Ing. Fernando Díaz, Secretaría Nacional de Energía, Panama <p><i>This session will draw on international experience to examine the current and future challenges facing Latin American countries on the topic of network losses and rural electrification.</i></p>	1h10
11:40-12:00	<p>Workshop conclusions</p>	20'