

**IEA Technology Platform**  
**Expert workshop**  
**How2Guide for Smart Grids in Distribution Networks**  
**26-27 February 2013, South Africa**  
**SANEDI offices**  
**2nd Floor - Block E - 150 Linden Street, Strathavon, Sandton, South Africa**

Time	Day 1: Tuesday, 26 February 2013	Length
8:30-9:00	Registration and coffee	30'
9:00-9:45	<p><b>Session 1: Opening remarks and Global overview</b> (Seminar format)</p> <p><i>Opening remarks from the SANEDI and the IEA. The joint hosts will welcome delegates, introduce the relevance of Smart Grids, share latest analysis, and outline the rationale for collaboratively developing the How2Guide. This will be followed by a presentation on global smart grid markets and the importance of smart grids for Africa.</i></p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. David Elzinga</b>, Energy Technology Policy Analyst, IEA</li> <li>• <b>Mr. Kadri Nassiep</b>, CEO, SANEDI</li> <li>• <b>Dr. Lawrence Jones</b>, VP Regulatory Affairs, Policy &amp; Industry Relations, Alstom</li> </ul>	45'
9:45-10:45	<p><b>Session 2: Smart Grid drivers</b> (Group format)</p> <p><i>This session will bring together workshop delegates and smart grid experts to interactively explore the drivers of Smart Grids for the Sub-Saharan African region, and respective countries.</i></p> <p><i>Chair: Mr. David Elzinga</i>, Energy Technology Policy Analyst, IEA</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. Russ Conklin</b>, Policy Analyst, US Department of Energy, Vice Chair of ISGAN</li> <li>• <b>Mr. David Elzinga</b>, Energy Technology Policy Analyst, IEA</li> </ul>	1h
10:45-11:15	Coffee Break	30'
11:15-12:30	<p><b>Session 3: H2G for Smart Grids - Roadmap Methodology</b> (Seminar format)</p> <p><i>Following a presentation on the South African Smart Grid Roadmap, this session will provide an overview of the proposed How2Guide for Smart Grids in Distribution Networks. The IEA will share inputs collated from across the globe regarding the roadmapping process in support for smarter grids, related technology and policy barriers, as well as the solutions and tools able to support national policymakers to accelerate efficient deployment. The IEA will share detailed methodological guidance proposed for national policymakers in the development and implementation of national roadmaps.</i></p> <p><i>Chair: Ms. Marie-Laetitia Gourdin</i>, Energy Analyst, IEA</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Dr. Minnesh Bipath</b>, SANEDI – Smart Grid roadmap update</li> <li>• <b>Ms. Marie-Laetitia Gourdin</b>, Energy Analyst, IEA – Roadmapping Process</li> <li>• <b>Mr. David Elzinga</b>, IEA – Smart Grid Technical Roadmapping Aspects</li> </ul>	1h15'

12:30-13:30	Lunch	1h
13:30-14:30	<p><b>Session 4: South African Update on Electricity System Development and Smart Grids progress</b> (Seminar format)</p> <p><i>This session will bring together South Africa stakeholders (Industry) to share updates on latest smart grid development in their country, highlighting key drivers, existing barriers to deployment and as well as identified policy best practice from across the region.</i></p> <p><i>Chair: Mr. David Elzinga, Energy Technology Policy Analyst, IEA</i></p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr Barry MacColl</b>, Eskom SOC</li> <li>• <b>Mr. Sandile Maphumulo</b>, Ethekewini Electricity</li> <li>• <b>Dr. Richard Candy</b>, Eskom (Transmission)</li> </ul>	1h
14:30-15:45	<p><b>Session 5: Determining the scope of a smart grids roadmap and setting objectives</b> (Group format)</p> <p><i>This session will introduce the initial stages of roadmap development. Included material will cover smart grids project types, scope of a smart grids roadmap and objective setting, the need for national roadmaps and roadmap project management considerations for national policy managers. Through discussion the workshop delegates will explore how smart grids can support divergent priorities and drivers.</i></p> <p><i>Chair: Mr. David Elzinga, Energy Technology Policy Analyst, IEA</i></p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. Albert Cheung</b>, Bloomberg New Energy Finance – global overview of projects happening worldwide</li> <li>• <b>Mr. David Elzinga</b>, Energy Technology Policy Analyst, IEA</li> </ul>	1h15
15:45-16:15	Coffee Break	30'
16:15-17:15	<p><b>Session 6: Global and Regional Context for Electricity System Development</b> (Seminar format)</p> <p><i>This session will provide attendees with a view of electricity system development in regions beyond South Africa. A global overview will be given by the IEA, a focus on developing Asia by the Asian Development Bank and other regions in Africa by Siemens.</i></p> <p><i>Chair: Dr. Minnesh Bipath, SANEDI</i></p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. David Elzinga</b>, IEA (focusing on ETP 2012 analysis)</li> <li>• <b>Mr. Pil-Bae Song</b>, Asian Development Bank</li> <li>• <b>Mr. Martin Sanne</b>, Divisional Cluster Lead Smart Grid Africa, Siemens</li> </ul>	1h
17:15-17:30	<b>Concluding remarks and Day 2 Agenda</b>	15'

Time	Day 2: Wednesday, 27 February 2013	Length
8:30-9:00	Registration and coffee	30'
9:00-11:00	<p><b>Session 7: Smart Grid deployment in distribution networks: Barriers and Solutions</b> (Group format)</p> <p><i>This session will introduce potential barriers that can be experienced when deploying smart grids in distribution networks. Anticipating these barriers and proposing solutions will enable ongoing progress in grid modernisation. Maintaining an alignment with IEA guidance on roadmap methodology best practice, workshop attendees will interactively explore in detail the key barriers for smart grids and solutions, and the relevance of such items within the sub Saharan context.</i></p> <p><i>Chair: Mr. David Elzinga, Energy Technology Policy Analyst, IEA</i></p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. Russ Conklin</b>, US Department of Energy – Projects going well – projects going badly in US</li> <li>• <b>Mr. David Elzinga</b>, Energy Technology Policy Analyst, IEA</li> </ul>	2h
11:00-11:30	Coffee Break	30'
11:30-12:30	<p><b>Session 8: Addressing the barriers at the national level</b> (Panel format)</p> <p><i>This session will drill into the previously provided overview of proposed H2G for Smart Grids methodological guidance for roadmapping at the national level, focusing on policy implementation considerations from our speakers. Representatives from Sub-Saharan countries will be invited to provide an overview of their countries' grid considerations, why they are interested in smart grids and plans being develop to support the deployment of such technologies.</i></p> <p><i>Chair: Ms. Nicole Algio, Regional Secretariat Manager for REEEP's Southern Africa</i></p> <p><i>Panel discussion:</i></p> <ul style="list-style-type: none"> <li>• <b>Mr. Ompi Aphane</b>, DDG Policy, SA Government</li> <li>• <b>Mr. Alemu Muleta</b>, Coordinator, Ministry of Energy and Water, Ethiopia</li> <li>• <b>Mr. Richard Worthington</b>, WWF South Africa (tentative)</li> <li>• <b>Mr. Travis Rouillard</b>, Alstom</li> </ul>	1h
12:30-13:00	<p><b>Workshop closing remarks by joint organisers</b></p> <ul style="list-style-type: none"> <li>• <b>Mr. David Elzinga</b>, Energy Technology Policy Analyst, IEA</li> <li>• <b>Mr. Kevin Nassiep</b>, CEO, SANEDI</li> </ul>	30'
13:00-14:00	Lunch	1h