



**Regional Workshop on  
Geothermal Financing and Risk Mitigation in Africa**

**31 January – 2 February 2018**  
**Hotel Crowne Plaza, Kenya Rd., Upper Hill**  
**Nairobi, Kenya**

**AGENDA**

DAY 1: 31 January 2018	
08:30 – 09:00	Registration and coffee
09:00 – 09:30	<b>Welcoming remarks</b> <ul style="list-style-type: none"><li>• Paul Mbuti, Ministry of Energy and Petroleum of Kenya</li><li>• Henning Wuester, International Renewable Energy Agency (IRENA)</li><li>• Masaomi Koyama, Ministry of Economy, Trade and Industry (METI) of Japan</li></ul>
09:30 – 10:00	<b>Keynote address</b> <i>Eng. Benson M. Mwakina, Ministry of Energy and Petroleum of Kenya</i>
10:00 – 10:30	Group photo and Coffee break
Session I: Key Challenges and Opportunities in Developing Geothermal Energy in East Africa	
10:30 – 12:30	<i>Moderator: Salvatore Vinci, IRENA</i> <b>Scene setting presentation</b> Geothermal Outlook in East Africa <i>by Peter Omenda, International Geothermal Association</i> <b>Panel discussion:</b> <i>Panelists:</i> <ul style="list-style-type: none"><li>• Moussa Ahmed Kayad, Djibouti Geothermal Development Office (ODDEG)</li><li>• Fikru Woldemariam Bagato, Ethiopia Electric Power</li><li>• Chrispin Lupe, Ministry of Energy and Petroleum, Kenya</li><li>• Edward Ishengoma, Ministry of Energy and Minerals of Tanzania</li><li>• Ernest Mabwa, OrPower</li><li>• Peter A. Omenda, International Geothermal Association (IGA)</li></ul> <b>Q&amp;A</b>
12:30 – 14:00	Lunch break



Session II: Optimizing Frameworks to Promote Geothermal Investments	
<b>14:00 – 15:30</b>	<p><i>Moderator: Muhammed Adem Muhammed, Ethiopia Energy Authority</i></p> <p><b>Presentations:</b></p> <p>Geothermal transparency guide, Regulatory frameworks for geothermal exploration and exploitation <i>by Baldvin Björn Haraldsson, BBA</i></p> <p>Enabling investment in geothermal power in East Africa: Lessons learnt from the EAGER Facility <i>by David Sussman, East Africa Geothermal Energy (EAGER) Facility</i></p> <p><b>Panel discussion:</b></p> <p><i>Panelists:</i></p> <ul style="list-style-type: none"> <li>• <i>Jon Orn Jonsson, Reykjavik Geothermal</i></li> <li>• <i>Amin Mussa, A&amp;K ALN</i></li> <li>• <i>Chrispin Lupe, Ministry of Energy and Petroleum of Kenya</i></li> <li>• <i>Markos Melaku, Project Manager, the NZ-Africa Geothermal Facility</i></li> <li>• <i>Edward Isabirye Mugaddu, Directorate of Geological Survey and Mines, Uganda</i></li> </ul> <p><b>Q&amp;A</b></p>
<b>15:30 – 16:00</b>	<i>Coffee break</i>
Session III: Geothermal in Power Markets: How to ensure stable revenue streams?	
<b>16:00 – 17:00</b>	<p><i>Moderator: Paul Mbuti, Ministry of Energy and Petroleum of Kenya</i></p> <p><b>Scene setting presentation:</b></p> <p><i>by Jon Orn Jonsson, Reykjavik Geothermal</i></p> <p><b>Panel discussion</b></p> <p><i>Panelists:</i></p> <ul style="list-style-type: none"> <li>• <i>Ahmed Fankey, Geothermal Development Company (GDC) of Kenya</i></li> <li>• <i>KenGen</i></li> <li>• <i>Peter Mungai, Kenya Power</i></li> <li>• <i>Jon Orn Jonsson, Reykjavik Geothermal</i></li> <li>• <i>David Sussman, East Africa Geothermal Energy (EAGER) Facility</i></li> </ul> <p><b>Q&amp;A</b></p>



DAY 2: 1 February 2018	
<b>08:30 – 09:00</b>	<b>Welcome coffee</b>
<b>Session IV: Risk Mitigation Instruments and Practices</b>	
<b>09:00 – 10:30</b>	<p><i>Moderator: Luca Angelino, IRENA</i></p> <p><b>Presentations:</b></p> <p>Comparative Analysis of Approaches to Geothermal Resource Risk Mitigation <i>by Thrainn Fridriksson, World Bank, ESMAP/World Bank</i></p> <p>Geothermal Risk Mitigation Fund (GRMF) in East Africa <i>by Rashid Ali Abdallah, African Union Commission</i></p> <p><b>Panel discussion:</b></p> <p><i>Panelists:</i></p> <ul style="list-style-type: none"> <li>• <i>Hisanori Ogawa, Japan Oil, Gas and Metals National Corporation (JOGMEC)</i></li> <li>• <i>Moussa Ahmed Kayad, Djibouti Geothermal Development Office (ODDEG)</i></li> <li>• <i>Takeshi Nagasawa, United Nations Industrial Development Organization (UNIDO)</i></li> <li>• <i>Thrainn Fridriksson, ESMAP/World Bank</i></li> <li>• <i>Rafael Ben, Climate Investment Fund</i></li> </ul> <p><b>Q&amp;A</b></p>
<b>10:30 – 11:00</b>	<i>Coffee break</i>
<b>Session V: From Risk Mitigation Instruments to Project Implementation: How to fill the gap?</b>	
<b>11:00 – 13:00</b>	<p><i>Moderator: Peter Omenda, International Geothermal Association (IGA)</i></p> <p><b>Scene setting presentation:</b></p> <p>Innovative risk finance solutions – Insights for geothermal power development in Kenya and Ethiopia <i>by Julian Richardson, Parhelion</i></p> <p><b>Panel discussion:</b></p> <p><i>Panelists:</i></p> <ul style="list-style-type: none"> <li>• <i>Satoshi Sugimoto, Japan International Cooperation Agency (JICA)</i></li> <li>• <i>Hancox Jaoko, U.S. Agency for International Development</i></li> <li>• <i>Jasmin Jakoet, African Development Bank (AfDB)</i></li> <li>• <i>Paul-Charles Delapeyre, Ministry of Energy of Comoros</i></li> <li>• <i>Bertrand Belben, InfraCo Africa</i></li> <li>• <i>Julian Richardson, Parhelion</i></li> </ul> <p><b>Q&amp;A</b></p>
<b>13:00 – 14:00</b>	<i>Lunch break</i>



<b>Session VI: Geothermal Project Development and Technical Support</b>	
<b>14:00 – 15:50</b>	<p><i>Moderator: Thrainn Fridriksson, ESMAP/World Bank</i></p> <p><b>Presentations</b></p> <p><i>by Markos Melaku, NZ-Africa Geothermal Facility</i></p> <p>IRENA Project Facilitation Tools <i>by Tijana Radojicic, IRENA</i></p> <p>Status of resource assessment in Egypt <i>by Tamer Mohamed Abdel Kader, New and Renewable Energy Authority of Egypt</i></p> <p><b>Panel discussion:</b></p> <p><i>Panelists:</i></p> <ul style="list-style-type: none"><li>• <i>Markos Melaku, Project Manager, NZ-Africa Geothermal Facility</i></li><li>• <i>Meseret Zemedkun, United Nations Environment</i></li><li>• <i>Tamer Mohamed Abdel Kader, New and Renewable Energy Authority of Egypt</i></li><li>• <i>David Sussman, East Africa Geothermal Energy (EAGER) Facility</i></li><li>• <i>Allan Chivunda, Ministry of Energy and Water of Zambia</i></li></ul> <p><b>Q&amp;A</b></p>
<b>15:50 – 16:00</b>	<b>Closing Remarks</b>

<b>DAY 3: 2 February 2018</b>	
<b>07:00 – 07:30</b>	Assembly point at lobby of Crowne Plaza for bus pick up
<b>07:30 – 15:30</b>	<b>Visit to the Olkaria geothermal field</b>
<b>17:30</b>	Drop off at Crowne Plaza Hotel