

**World Bank**  
**Partnership for Market Readiness**  
**MRV Regional Training Workshop**  
**September 23-25, 2013 | Beijing, China**

Monday, 23 September MRV Program Design	
<b>8:30</b>	<b>Registration</b>
<b>9:00</b>	<b>Welcome &amp; Workshop Introduction</b> <ul style="list-style-type: none"> <li>• Welcoming Remarks: Ms. Xueman Wang, Team Leader, PMR</li> <li>• Opening Remarks: Ms. Sun Cuihua, Deputy Direct General, National Development Reform Commission, China</li> <li>• Overview of Agenda/Workshop (Mr. Michael McCormick, PMR Secretariat)</li> </ul>
<b>9:30</b>	<b>Introduction to MRV &amp; Types of MRV Activities</b> Discussion of similarities and differences of MRV for the purpose of national emissions inventories, facility-level inventories, emissions reduction project reporting, NAMAs, and non-GHG (i.e., energy and environmental) reporting  Presenters: <ul style="list-style-type: none"> <li>• Mr. Ranping Song, World Resources Institute China</li> <li>• Mr. Thomas Baumann, Greenhouse Gas Management Institute</li> </ul>
<b>10:30</b>	<b>Coffee break</b>
<b>10:45</b>	<b>Overview of Facility-Level MRV Programs</b> India, China, USA, European Union  Q&A, Discussion  Presenters: <ul style="list-style-type: none"> <li>• Mr. Rob Fowler, Greenhouse Gas Management Institute</li> <li>• Mr. Balawant Joshi, Idam Infrastructure Advisory Pvt. Ltd. India</li> <li>• Ms. Zheng Shuang, National Center of Climate Change Strategic Research, China</li> <li>• Mr. Kong Chiu, US EPA</li> <li>• Mr. Hubert Fallman, Umweltbundesamt GmbH, Austria</li> </ul>
<b>12:15</b>	<b>Lunch</b>

<b>Monday, 23 September</b> <b>MRV Program Design</b>	
<b>1:30</b>	<p><b>MRV Program Design Elements</b></p> <p>Explanation of key design elements with examples from specific MRV programs, including:</p> <ul style="list-style-type: none"> <li>• Principles (e.g., completeness, transparency, etc.)</li> <li>• Objectives (e.g., value, quality, etc.)</li> <li>• Applicability (e.g., by emissions thresholds, by class or “all-in”)</li> <li>• Defining a reporting entity and point of regulation</li> <li>• Defining a facility/installation, including identification of sources within a facility and source exclusion lists</li> <li>• Defining GHGs to report</li> <li>• Reporting schedules</li> <li>• Non-emissions data to report</li> <li>• Institutional arrangements</li> </ul> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Ranping Song, World Resources Institute China</li> <li>• Mr. Tang Jin, SinoCarbon Innovation &amp; Investment Co., Ltd. China</li> <li>• Mr. Kong Chiu, US EPA</li> <li>• Mr. Hubert Fallman, Umweltbundesamt GmbH, Austria</li> </ul>
<b>3:00</b>	<b>Coffee break</b>
<b>3:15</b>	<p><b>Group Exercise – MRV Design</b></p> <p>Participants will form groups to examine MRV objectives and key program design elements. Groups will share the findings and results with the wider workshop participants.</p>
<b>4:00</b>	<p><b>Group Exercise – MRV Readiness</b></p> <p>Participants will form groups by country. Relating to the previous sessions, participants will go through a “readiness” assessment process for a MRV program, considering their current vs. planned future program. Groups will share the findings and results with the wider workshop participants.</p>
<b>4:45</b>	<b>End of Day Summary, Discussion, Q&amp;A</b>

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<b>Tuesday, 24 September</b> <b>Technical Issues</b>	
<b>8:30</b>	<b>Arrivals and Coffee</b>
<b>9:00</b>	<ul style="list-style-type: none"> <li>• Group discussion of key points from Day 1</li> <li>• Introduction to Day 2 topics</li> </ul>
<b>9:30</b>	<p><b>Emissions Quantification</b></p> <p>Overview of different quantification approaches, relating to options and trade-offs, including methodology tiers, uncertainty, data requirements using examples of different source categories</p> <p>Q&amp;A, Discussion, Quiz</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Rob Fowler, Greenhouse Gas Management Institute</li> <li>• Mr. Tang Jin, SinoCarbon Innovation &amp; Investment Co., Ltd. China</li> <li>• Mr. Hubert Fallman, Umweltbundesamt GmbH, Austria</li> </ul>
<b>10:30</b>	<b>Coffee break</b>
<b>10:45</b>	<p><b>Monitoring and Data Management</b></p> <p>Overview of monitoring and data management approaches, including options and trade-offs, using examples of different source categories, as well as non-emissions data (e.g., production). Topics include general and specific monitoring requirements including methodology considerations, equipment (monitors, sensors, meters), calibration, standards (e.g. technical, industry), monitoring schedules, and record keeping.</p> <p>Q&amp;A, Discussion, Quiz</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Tom Baumann, Greenhouse Gas Management Institute</li> <li>• Ms. Zheng Shuang, National Center of Climate Change Strategic Research, China</li> <li>• Mr. Kong Chiu, US EPA</li> </ul>
<b>12:15</b>	<b>Lunch</b>

<b>Tuesday, 24 September</b> <b>Technical Issues</b>	
<b>1:30</b>	<p><b>QA/QC and Verification</b></p> <p>Overview of options and trade-offs of different verification and QA/QC approaches, including 1<sup>st</sup> party (self-check), 2<sup>nd</sup> party (program check), and 3<sup>rd</sup> party (independent auditor); also including examples of approaches for different source categories</p> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Ranping Song, World Resources Institute China</li> <li>• Mr. Kong Chiu, US EPA</li> <li>• Mr. Hubert Fallman, Umweltbundesamt GmbH, Austria</li> </ul>
<b>3:00</b>	<b>Coffee break</b>
<b>3:15</b>	<p><b>Group Exercise – Technical MRV 1</b></p> <p>Participants will form groups according to areas of interest in emissions quantification, monitoring and verification. Relating to the previous sessions, groups will share perspectives on the options and trade-offs of the different approaches to technical MRV. Each group will then share the results with the wider workshop. The results of the group will be synthesized for sharing afterwards.</p>
<b>4:00</b>	<p><b>Group Exercise – Technical MRV 2</b></p> <p>Participants will form groups according to different sectors (e.g., power, mining, manufacturing, cement). Relating to the previous sessions, groups will share perspectives on the options and trade-offs for emissions quantification, monitoring, and verification. Each group will then share the results with the wider workshop. The results of the group will be synthesized for sharing afterwards</p>

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<b>Wednesday, 25 September</b> <b>Registries &amp; Reporting, Stakeholder Engagement &amp; Training, Institutional Arrangements</b>	
<b>8:30</b>	<b>Arrivals and Coffee</b>
<b>9:00</b>	<ul style="list-style-type: none"> <li>• Group discussion of key points from Day 2</li> <li>• Introduction to Day 3 topics</li> </ul>
<b>9:30</b>	<p><b>Registries/Reporting</b>            Overview of design issues and systems for collecting, processing, storing and publicizing GHG information</p> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Rob Fowler, Greenhouse Gas Management Institute</li> <li>• Mr. Tang Jin, SinoCarbon Innovation &amp; Investment Co., Ltd. China</li> <li>• Mr. Hubert Fallman, Umweltbundesamt GmbH, Austria</li> </ul>
<b>10:30</b>	<b>Coffee break</b>
<b>10:45</b>	<p><b>Stakeholder Engagement &amp; Training</b>            Overview of program outreach, training and communications methods and tools, and engagement/coordination with key stakeholder groups, including</p> <ul style="list-style-type: none"> <li>• Institutional and policy partners</li> <li>• Internal expert networks</li> <li>• External Communities of Practice</li> <li>• Reporting entities</li> <li>• Service providers</li> </ul> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Thomas Baumann, Greenhouse Gas Management Institute</li> <li>• Mr. Balawant Joshi, Idam Infrastructure Advisory Pvt. Ltd. India</li> <li>• Ms. Katherine Sibold, US EPA</li> </ul>
<b>12:15</b>	<b>Lunch</b>

<b>Wednesday, 25 September</b> <b>Registries &amp; Reporting, Stakeholder Engagement &amp; Training, Institutional Arrangements</b>	
<b>1:30</b>	<p><b>Institutional Arrangements</b>            Discussion of MRV program administration, oversight, and relationship with other governmental institutions.</p> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Rob Fowler, Greenhouse Gas Management Institute</li> </ul>
<b>2:15</b>	<p><b>Knowledge Management</b>            Application of knowledge management to GHG MRV program management, including knowledge management framework, self-assessment (benchmark/gap analysis), strategies (vision and roadmap), methodologies and techniques.</p> <p>Q&amp;A, Discussion</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Mr. Thomas Baumann, Greenhouse Gas Management Institute</li> </ul>
<b>3:00</b>	<b>Coffee break</b>
<b>3:15</b>	<p><b>Group Exercise – Institutional Arrangement</b>            Participants will form groups by country (smaller countries with similar circumstances potentially grouped together) to evaluate institutional arrangement issues and considerations.</p>
<b>4:00</b>	<p><b>Workshop Summary</b></p> <p>Q&amp;A, Discussion, and Conclusion</p> <p>Workshop conclusion and evaluation (Mr. Michael McCormick, PMR Secretariat)</p>