

**Product name:** Manage CO<sub>2</sub> - Carbon Software  
**Company name:** Manage CO<sub>2</sub>  
**Product review date:** September 2012



## SOFTWARE EVALUATION SUMMARY



Features	Outcome	Assessment Highlights
<b>Set-up, navigation and consolidation of organization and sources</b>	●	The system enables users to create entities, sources and organizational structures independently. GHGMI's tester found it easy to create new organizations, facilities and sources in the system and to navigate the organizational structure, once created. With the exception of Joint Ventures, different organizational structures can be set up, modified, and managed with little effort. Users' ability to document choices and changes in organizational set-up and structure is relatively limited.
<b>GHG gases, sources and scopes</b>	●	The software covers 6 Kyoto GHGs, supports common emissions sources and enables separate calculations for scope 1, scope 2 electricity and a number of scope 3 emissions. The system is pre-set to support GHG emissions calculations from a large number of sources and countries, with country-specific data units and emission factors embedded in the system. While the calculation modules appear to be fully populated with some sources and countries (e.g. stationary energy and transportation UK), for other sources and countries data entry forms or calculation functionalities are limited (e.g. processes emissions or fugitive emissions).
<b>Activity data</b>	●	Setting up a new source and entering activity data (by scope) is done in in two steps process requiring a limited number of mouse-clicks. Activity data can be entered manually, or imported from excel files. The interfaces provided to enter facility and activity data were straightforward to use for GHGMI's tester.
<b>Availability and use of emission factors and GWPs</b>	●	Emission factors are embedded in the system. Country specific emission factors from national sources are available for countries such as the UK and the US (e.g. UK DEFRA or US EPA), while other emission factors are sourced from IPCC or the GHG Protocol tools. Custom emissions factors can be uploaded into the software upon request. The Audit and verification report provides information on the emission factors used and includes references. The unit and GWPs conversions tested were performed and sourced correctly.



Features	Outcome	Assessment Highlights
<b>GHG emissions calculations</b>	●	Using a case study dataset we calculated emissions for a fictitious company and benchmarked the software's output against the output of GHG Protocol tools. Upon testing the software produced accurate results in accordance with the methods in the GHG Protocol.
<b>GHG emissions reporting</b>	●	<p>The system offers a number of reports (17), including emission reports for the GHG Protocol (by scope and location), ISO 14064-1 (by scope and location), the UK's CRC and CDP. Typically reports are easy to generate, interpret and export. The reporting functionality does not enable users to create custom reports within the system. The users could create reports offline using data downloaded with reports such as the 'audit and verification' report.</p> <p>Biomass emissions are calculated separately. Documentation on how the system treats emission from the combustion of biomass in the GHG inventory is limited.</p>
<b>Targets, policies and programs</b>	○	Functionality not supported by the software at the time of testing.
<b>Uncertainty analysis capability</b>	○	Functionality not supported by the software at the time of testing
<b>Workflow management functionality</b>	○	Functionality not supported by the software at the time of testing
<b>Quality assurance &amp; quality control</b>	◐	Limited functionality. The <i>Audit</i> tab enables to enter <i>not verified</i> or <i>verified</i> for each activity data included in the system
<b>Tracking and documenting choices and changes</b>	●	<p>A <i>Change log</i> is available for each activity data entered in the system and documents date time and author of changes.</p> <p>A limited number of 'comment' fields are available in the system to add additional information on the choices made. The ability to upload documents is more prevalent in the system and provides another way to include comments and document changes.</p>
<b>Ease of use</b>	●	GHGMI's tester found it easy to navigate and use the software. The software offers an intuitive interface which enables users to create their inventory in an intuitive way. Facilities and activities can be added with few mouse clicks and through clear data entry interfaces. Ease of use can be considered one of the strengths of this software package



Features	Outcome	Assessment Highlights
<p><b>Training, documentation and support</b></p>	<ul style="list-style-type: none"> <li>●</li> </ul>	<p>In preparation for the testing Manage CO<sub>2</sub> offered basic in person web- training on software functionalities and key modules. While training and user manuals (text documents) were not provided The training was adequate for GHGMI's tester to start using the software (see also comment above on software user friendliness).</p> <p>The Help function available in the system is designed to link with videos demonstrating software functionalities or asking FAQs. At the time of testing a limited number of videos were available, covering a sub-set of the software features.</p>



#### **GENERAL COMMENTS:**

ManageCO<sub>2</sub> – Carbon Software was designed in 2009 as a GHG management software i.e. it was not built upon a pre-existing energy or building management software (or other software). The software has an intuitive interface and GHGI's tester found it easy to navigate and use and the reports offered by the software can be generated effortlessly. The software supports the functionalities required to calculate and report the GHG inventory.

Using a detailed case study dataset we calculated emissions for a fictitious company and benchmarked the software's output against the output of GHG Protocol tools. Upon testing the software produced accurate results in accordance with the methods in the GHG Protocol

At the time of testing additional functionalities were limited. E.g. the tool did not support task management, target setting/monitoring and third party verification, while the customization of emissions factors and the creation of new reporting templates were only possible upon request. A number of these software modules were at various stages of construction but were not ready for testing.



**Manage CO<sub>2</sub> COMMENTS:**

*This space is made available to the software provider to add, if desired, comments on GHGMI's review process or outcome.*

*The statements below reflect the views of the software provider alone. GHGMI cannot express any opinion on the comments below, as they were not assessed by GHGMI during the software review process.*

None