

(English Translation of)



**Notification of The Board of Directors of Thailand Greenhouse Gas Management  
Organization on Sustainable Development Criteria for Clean Development Mechanism  
Project B.E. 2553 (2010) No. 1/2553**

The notification shall ensure that the approval process for Clean Development Mechanism project regarding the sustainable development criteria can be conducted in a timely manner with greater efficiency.

In accordance with article 24 of the Public Organization Act B.E. 2542 (1999), article 20 (paragraph 9), article 41, article 42, article 43, article 44, and article 45 of the Royal Decree on Establishment of Thailand Greenhouse Gas Management Organization (Public Organization) B.E. 2550 (2007); at its 13<sup>th</sup> meeting (13/2552 (2009)) on 18 November 2552 (2009) the Board of Directors agreed the notification as follows:

Article 1 The title of the notification is “The Board of Directors of Thailand Greenhouse Gas Management Organization on Sustainable Development Criteria for Clean Development Mechanism Project B.E. 2553 (2010)”

Article 2 This notification is effective to all Clean Development Mechanism projects after 90 days of the announcement of this notification.

Article 3 Definitions

“Project” means project or activity that shall be established to be a Clean Development Mechanism project.

“Approved project” means project that has been approved as project that reduces greenhouse gas emission and support national sustainable development.

“Criteria” means sustainable development criteria for clean development mechanism project approval.

“Organization” means Thailand Greenhouse Gas Management Organization (Public Organization)

“The Board” means The Board of Directors of Thailand Greenhouse Gas Management Organization.

“Executive Director” means the Executive Director of Thailand Greenhouse Gas Management Organization.

Article 4 the organization will review the request, its related documents, and the comments from related organizations for the Board in accordance with the criteria attached to this notification.

Article 5 The score given to the project has the following criteria:

1) Score higher than zero means the project activity's performance related to the indicator performs better than the standard set in the criteria. The project activity indicates a positive impact on sustainable development in accordance with the criteria.

2) Score equal to zero means that the project activity's performance related to the indicator meets the standard set in the criteria. The project activity indicates neither a negative nor a positive impact on sustainable development in accordance with the criteria.

3) Score less than zero means that the project activity's performance related to the indicator does not meet the standard set in the criteria. The project activity indicates a negative impact on sustainable development in accordance with the criteria.

4) Not applicable means the project activity is not applicable to the indicator.

Article 6 The consideration of pollutants indicators will be based on the national regulations and standards for each criteria. In a case the project activity does not meet national regulations and standards, the project activity will be considered illegal; such project activity will not be approved by the organization.

Article 7 The project activity will be approved as a Clean Development Mechanism project if the total score for all indicators of the project and the total score for each sectoral indicator are positive following article 4 and 5.

Article 8 The Executive Director will be responsible for the implementation of this notification. In a case that there is a problem, the Executive Director will report to the Board. The final decision will be made by the Board.

Announced on 29 April 2010

**(Mr. Sunthad Somchevita)**

*Chairman of the Board of Directors*

**Attachment**  
**Sustainable Development Criteria for the approval of Clean Development  
 Mechanism Projects**

Indicator	Scoring Criteria	Scoring Level
<b>1) Natural Resources and Environment</b>		
<b>Environmental Indicators</b>		
<p>1) <b>Reduction of greenhouse gases under the Kyoto Protocol</b></p> <p><b>Note:</b> Greenhouse gases under the Kyoto Protocol are:</p> <ol style="list-style-type: none"> <li>1. Carbon dioxide (CO<sub>2</sub>)</li> <li>2. Methane (CH<sub>4</sub>)</li> <li>3. Nitrous oxide (N<sub>2</sub>O)</li> <li>4. Hydrofluorocarbons (HFCs)</li> <li>5. Perfluorocarbons (PFCs)</li> <li>6. Sulphur hexafluoride (SF<sub>6</sub>)</li> </ol>	<p>Project activity greenhouse gas emission (CO<sub>2</sub> equivalent) compared to the Baseline.</p>	<p><b><u>Renewable Energy Project</u></b></p> <p>0 No changes in Greenhouse gases emission.</p> <p>+1 Greenhouse gases reduction is less than 50% of baseline emission.</p> <p>+2 Greenhouse gases reduction is not less than 50% of baseline emission.</p> <p><b><u>Energy Efficiency Project</u></b></p> <p>0 No changes in greenhouse gases emission.</p> <p>+1 Greenhouse gases reduction is less than 10% of baseline emission.</p> <p>+2 Greenhouse gases reduction is not less than 10% of baseline emission.</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>2) Air pollution</b></p> <p><b>Note:</b> Air pollution emission standard refers to related national laws announced by concerned agencies such as Pollution Control Department, Department of Industrial Works etc. The air pollutants that will be considered through stack emission measurement or ambient air emission compared to the baseline case. The pollutants include NO<sub>x</sub>, SO<sub>2</sub>, H<sub>2</sub>S and TSP.</p>	<p>Air pollutants emission of the project activity compared to the standard and baseline.</p>	<p>0 Air pollutants emission complies with the standard applied.</p> <p>+1 Air pollutants emission complies with the standard applied and is less than the baseline emission.</p> <p><b>Note:</b> For a project activity that has started.</p> <p>0 Air pollutants emission complies with the standard applied.</p> <p>+1 Air pollutants emission complies with the standard applied and decreases from the baseline emission less than 20%.</p> <p>+2 Air pollutants emission complies with the standard applied and decreases from the baseline emission not less than 20%.</p> <p>Or not applicable</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>3) Noise Pollution</b></p> <p><b>Note:</b> If the project activity is located within 500m from a community, the noise measurement should be made at the nearest community as follows:</p> <ul style="list-style-type: none"> <li>- 24 hours a-weighted equivalent continuous sound level (<math>L_{eq24hr}</math>)</li> <li>- Maximum sound pressure level (<math>L_{max}</math>)</li> <li>- Background noise level (<math>L_{90}</math>)</li> <li>- Residual noise level (<math>L_{eq}</math>)</li> <li>- Specific noise level (<math>L_{eq}</math>)</li> </ul>	<p>Background noise and annoyance noise level of the project activity compared to the baseline, at the household/community within 500 m of the noise pollution source.</p>	<p>0 Noise level complies with the standard applied or prevention measures are in place to reduce the noise level to meet the standard.</p> <p>+1 Additional measures are in place to control the noise level, and the noise level is 1-5 dB(A) lower than the standard.</p> <p>+2 Additional measures are in place to control the noise level, and the noise level is more than 5 dB(A) lower than the standard.</p> <p>Or not applicable, in the case the noise pollution source of the project activity is more than 500 m from the household/community.</p>
<p><b>4) Odor</b></p> <p><b>Note:</b> The indicator refers to odor and nuisance from odor control. The judgement is based on the assessor.</p>	<p>Odor management of the project activity compared to baseline.</p>	<p>-1 Project activity does create additional odor problems compared to the baseline.</p> <p>0 There is no nuisance odor problem from the project activity.</p> <p>+1 There are additional mitigation measures to prevent nuisance odor problem from the project activity.</p> <p>Or not applicable.</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>5) Wastewater Management</b></p> <p><b>Note:</b> The parameters for consideration of this indicator include BOD, COD, and temperature. The standards applied will depend on the project type, as announced by concerned agencies including but not limited to Pollution Control Department, Department of Industrial Works, Marine Department and Royal Irrigation Department.</p>	<p>Characteristics of wastewater effluent compared to the standards applied as well as the baseline.</p>	<p>0 Characteristics of wastewater effluent complies with the standard applied, or wastewater is stored without being discharged outside the project boundary, or the concerned agencies have given permission to use the effluent which do not comply with the standard applied outside the project boundary.</p> <p>+1 Characteristics of wastewater effluent complies with the standard applied and is better than the baseline.</p> <p>+2 Treated wastewater effluent which its characteristic complies with the standard applied has been taken outside the project boundary for other utilization.</p> <p>Or not applicable</p>
<p><b>6) Waste management</b></p> <p><b>Note:</b> Waste means leftover materials or waste, and unused material from the project activity. This does not include hazardous waste.</p>	<p>Waste management of the project activity.</p>	<p>-1 Waste generated from the project activity is unmanaged.</p> <p>0 Waste generated from the project activity is managed.</p> <p>+1 There is no waste discarded out of the project boundary and waste management measures are in place or waste can be used beneficially within the project boundary.</p> <p>+2 Waste is utilized outside project boundary under good management measures.</p> <p>Or not applicable</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>7) Soil Contamination</b></p> <p><b>Note:</b> Soil contamination standard will follow the Notification of National Environment Board No. 25 (B.E. 2547 (2004)), issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2539 (1992) and other related laws.</p>	<p>Consideration of soil contamination within the project boundary.</p>	<p>-1 The project activity contaminates the soil.</p> <p>0 There is no soil contamination or there are prevention/ reclamation measures.</p> <p>+1 Soil reclamation within the project area is in place.</p> <p>Or not applicable</p>
<p><b>8) Underground water Contamination</b></p> <p><b>Note:</b> Especially underground water contamination by hazardous substances.</p>	<p>Underground water contamination as a result of the project activity.</p>	<p>0 There is no underground water contamination, or there are adequate prevention measures in place to prevent underground water contamination.</p> <p>+1 There are adequate prevention and monitoring measures in place.</p> <p>Or not applicable</p>
<p><b>9) Hazardous waste management</b></p> <p><b>Note:</b> Hazardous waste means waste that poses substantial or potential threats to public health or the environment, as defined in the regulations.</p>	<p>Hazardous waste management compared to the baseline case.</p>	<p>0 There is a hazardous waste management measures complied with the concerned regulations.</p> <p>+1 There is a hazardous waste management measure complied with the concerned regulations and the amount of hazardous waste is reduced.</p> <p>Or not applicable</p>

Indicator	Scoring Criteria	Scoring Level
<b>10) Water demand and utilization efficiency</b>	<p>Water demand and utilization efficiency of the project activity.</p> <p>Note: Other unmentioned cases will be based on the judgement of the assessor.</p>	<p>-1 The amount of water used in the project activity has an impact on the water resources utilization.</p> <p>0 The amount of water used in the project activity does not have any impact on the water resources utilization.</p> <p>+1 Wastewater is recycled for the use in the project activity, or the water demand of the project activity is reduced, or there is water storage facility developed.</p> <p>+2 There is a water storage facility developed that serves project activity and nearby communities as well.</p> <p>Or not applicable</p>
<b>11) Soil/coastal/river bank erosion</b>	Soil/coastal/river bank erosion within the project boundary	<p>-1 There is soil/ coastal/river bank erosion due to project activity.</p> <p>0 There is no soil/ coastal/ river bank erosion due to project activity, or adequate prevention measures are in place.</p> <p>Or not applicable.</p>



Indicator	Scoring Criteria	Scoring Level
<b>Natural Resources Indicators</b>		
<b>12) Green area</b> <b>Note:</b> Green area is defined as covers with perennial plants to act as carbon storage. Green area can be within or outside the project boundary. The tree must be planted by the project.	Green area compared to the baseline.	0 There is no increase in green area. +1 Green area has increased by at least 5% but not up to 10% of the total area of the project. +2 Green area has increased by at least 10% of the total area of the project.
<b>(13) Other indicators that have significant impact</b>	Consideration of other indicators that have significant impact on the environment.	-1 The indicator has impact on the environment. 0 The indicator does not impact on the environment.
<b>2. Social Indicators</b>		
<b>1) Public participation</b> <b>Note:</b> The public participation will be considered from the framework and level of public participation, especially by local stakeholder and representatives from public and private organizations, staffs, partner companies and academic.	Public participation (a guideline or manual for public participation is available)	-1 There is no public Participation forum. 0 There is a public participation forum, where information is given to the public only. +1 There is a public participation forum, where information is given and discussion takes place. +2 There is a public participation by setting up a multilateral committee, and community representatives are member of the committee.

Indicator	Scoring Criteria	Scoring Level
<p><b>2) Support of social, cultural, and sufficiency economy development activities.</b></p> <p><b>Note:</b> There are developmental activities to support social, cultural, healthcare, public infrastructure and amenity. The sufficiency economy and social development activity does not have a negative score. The activity could be within or outside the project boundary.</p>	<p>Support social, cultural, and sufficiency economy development activity. (According to the definition of sufficiency economy and Corporate Social Responsibility Standard: CSR)</p>	<p>0 There is no additional social development and public service activity.</p> <p>+1 There is an additional social development and public service activity.</p> <p>+2 There is an additional social development and public service activity by setting up a public fund and a multilateral committee, or social development services are provided following the Corporate Social Responsibility (CSR) guideline.</p>
<p><b>3) Workers and nearby community health</b></p>	<p>There is a management plan or activity to promote workers and nearby community health.</p>	<p>0 The project activity follows the labor protection act.</p> <p>+1 There is a project or activity that promotes better health, more than stated in the regulations, for workers.</p> <p>+2 There is a project or activity that promotes better health for workers and nearby community</p>
<p><b>3. Technology Development and/or Technology Transfer Indicators</b></p>		
<p><b>1) Technology Development</b></p>	<p>Technology development or imported technology. (Consideration will be made on the machinery and system)</p>	<p>0 Utilization of foreign technology without additional development in Thailand.</p> <p>+1 Utilization of technology that was researched and developed from foreign technology.</p> <p>+2 Utilization of locally developed technology.</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>2) End of project life plan or end of crediting period plan that the project activity has adopted.</b></p> <p><b>Note:</b> In case that the project has impact on social development and environment at the end of the chosen crediting period, the project should prepare a plan to prevent and mitigate the expected impacts.</p>	<p>Operational plan for the end of the project life or the crediting period.</p>	<p>-1 The project activity has potential to cause an impact at the end of the crediting period. There is no mitigation plan.</p> <p>0 There is no operational plan after the end of the crediting period, as the project still operates as before.</p> <p>+1 There is an appropriate operational plan after the end of the project life or the crediting period.</p>
<p><b>3) Capacity building for personnel</b></p>	<p>Training to improve efficiency of the personnel.</p>	<p>-1 There is no training plan to improve workers skills.</p> <p>0 There is a plan for training and improving workers skills.</p> <p>+1 There is a plan to disseminate knowledge to the public.</p> <p><b>Note:</b> For a project activity that has started operation.</p> <p>-1 There was no training to improve workers skills.</p> <p>0 There was training to improve workers skills.</p> <p>+1 There was activity to disseminate knowledge to the public.</p>
<p><b>4. Economic Indicators</b></p>		
<p><b>1) Employment</b></p> <p><b>Note:</b> Employment means direct employment for the project activity, or indirect employment as a result of the project activity, for example, raw material delivery. Local employment means hiring of people who live in the province or nearby provinces.</p>	<p>Number of employments.</p>	<p>0 There is no additional employment within the project company.</p> <p>+1 There is additional employment within the project company.</p> <p>+2 There is additional employment in the area.</p>

Indicator	Scoring Criteria	Scoring Level
<p><b>2) Additional stakeholder income</b></p> <p><b>Note:</b> The project developer must identify the stakeholders involved in the project activity, such as the farmers who sold raw materials and partner companies.</p>	Income of stakeholders.	<p>0 Income of stakeholders remains the same.</p> <p>+1 Income of stakeholders increases.</p>
<p><b>3) Renewable Energy Utilization</b></p> <p><b>Note:</b> Renewable energy is defined as energy that replaces fossil fuel. There are two types of energy: 1) Alternative energy from finite sources such as coal, natural gas, nuclear, oil shale and tar sand, etc. 2) Alternative energy from renewable sources such as solar, wind, biomass, hydro and hydrogen, etc.</p>	The use of renewable energy compared to the baseline.	<p>0 The use of renewable energy remains the same.</p> <p>+1 The use of renewable energy increases up to 50% of the total energy consumed.</p> <p>+2 The use of renewable energy increases more than 50% of the total energy consumed.</p> <p>Or not applicable</p>
<p><b>4) Energy efficiency</b></p>	Percentage of project activity's energy efficiency.	<p>0 The project activity's energy efficiency remains the same.</p> <p>+1 The project activity's energy efficiency improves but not more than 10%.</p> <p>+2 The project activity's energy efficiency improves more than 10%.</p> <p>Or not applicable.</p>
<p><b>5) Local content</b></p>	<p>The value of local content of the project activity.</p> <p><b>Note:</b> local content applies to machinery and other equipments except raw material used in the project activity.</p>	<p>0 The value of local content is less than 50%.</p> <p>+1 The value of local content is between 50-80%.</p> <p>+ 2 The value of local content is more than 80%.</p>