Implementation Status & Results
Thailand
Thailand Sapthip Biogas Project (P110040)

Operation Name: Thailand Sapthip Biogas Project (P110040)  
Country: Thailand  
Region: EAST ASIA AND PACIFIC  
Product Line: Carbon Offset  
Implementing Agency(ies): Sapthip Co., Ltd  
Approval FY: 2009  
Lending Instrument:  

Key Dates
Board Approval Date: 05-Jun-2009  
Original Closing Date: 31-Dec-2013  
Last Archived ISR Date: 29-Jun-2010  
Effectiveness Date: 05-Jun-2009  
Revised Closing Date: 31-Dec-2013

Overall Ratings
<table>
<thead>
<tr>
<th>Rating</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td></td>
<td>Moderately Unsatisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>Satisfactory</td>
<td>Moderately Unsatisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
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<td></td>
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</tbody>
</table>

Implementation Status Overview
The wastewater treatment facilities have been commissioned. The efficiency of the facilities is demonstrated by (i) the chemical oxygen demand (COD) removal rate was 99%, down from 50,000 part per million (ppm) in influent to 517 ppm in effluent; and (ii) the boilers to provide steam for the ethanol plant are functional and satisfactorily substituting the use of fossil fuel based energy. However, the sub-component relating to the facility for generation of electricity for on-site use using surplus biogas (after providing steam to the ethanol plant) through biogas fired generators could not be implemented due to reduced availability of biogas from the system, as a result of lessen COD concentration in influent entering the reactors. The lower COD concentration was caused from the higher ethanol production yield as compared to the design. It was expected that 375,000 Certified Emission Reductions (CERs) would be provided during 2010-12 period. Although the project is generating emission reduction of about 125,000 tons of CO2 equivalent annually, no payment could be made up to now due to delays in validation and registration process. The objective of delivering 375,000 CERs will not be met during the project period.

Locations
<table>
<thead>
<tr>
<th>Country</th>
<th>First Administrative Division</th>
<th>Location</th>
<th>Planned</th>
<th>Actual</th>
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</thead>
<tbody>
<tr>
<td>Thailand</td>
<td>Not Entered</td>
<td>Amphoe Chai Badan</td>
<td></td>
<td></td>
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</tbody>
</table>

Key Decisions Regarding Implementation
Mid term reviews are not planned for this and other carbon finance projects.

Related Projects
There are no related projects.