

## TECHNICAL ASSISTANCE COMPLETION REPORT

Division: SAEN

<b>TA No. and Name</b> TA 4113-SRI Energy Sector Master Plan (ESMP)			<b>Amount Approved:</b> \$500,000	
			<b>Revised Amount:</b> \$500,000	
<b>Executing Agency:</b> Ministry of Power and Energy (MOPE)	<b>Source of Funding:</b> TASF		<b>TA Amount Undisbursed</b> \$128,856.91	<b>TA Amount Utilized</b> \$371,143.09
<b>Date</b>			<b>Completion Date</b>	
<b>Approval</b> 12 May 2003	<b>Signing</b> 4 June 2003	<b>Fielding of Consultants</b> 3 November 2003	<b>Original</b> 30 April 2004	<b>Actual</b> 31 October 2005
			<b>Closing Date</b>	
			<b>Original</b> 30 April 2004	<b>Actual</b> 31 July 2006
<b>Description</b>				
The TA was provided to develop an integrated energy sector master plan that will cover all the energy subsections in Sri Lanka. The master plan will provide and direct future planning and investment initiatives towards the end goal of ensuing uninterrupted and high quality energy supply to the various customer categories in Sri Lanka.				
<b>Objectives and Scope</b>				
The objective of the TA was to assist the Government to formulate a strategy (the energy sector master plan [ESMP]) to develop a sustainable energy sector in Sri Lanka. The scope of the ESMP were: (i) reviewed the existing materials such as laws, regulations, sector plans, and business practices; (ii) identified the options available to Sri Lanka concerning sources and utilization of energy; (iii) detailed directions of developing an efficient and cost effective energy sector; and (iv) developed an investment plan for the energy sector. This strategy will improve the policy and regulatory framework, and promote sector restructuring with a view to increase energy sector efficiency, energy sector investments, private sector participation, and to ensure that energy supply is expanded to remote areas in a sustainable manner.				
<b>Evaluation of Inputs</b>				
The TA study was conducted by NEXANT, Inc., USA. Originally about 14 person-months of international and 20 person-months of domestic consulting services to be provided by a firm were expected to be employed. A total of 22.5 person-months of international and 18.8 of domestic consulting services were utilized				
The design of the Project was adequate, the terms of reference were appropriate, and the Project was completed within the budget. Overall, the performance of the consultants is rated satisfactory. They interacted well with the various energy sector stakeholders and provided substantial output to MOPE.				
<b>Evaluation of Outputs</b>				
The Consultants commenced the Project as planned on 3 November 2003, and completed the assignment as per the original schedule on 31 July 2004. The consultants provided high-quality reports, in accordance with the schedules determined by the original contract and/or agreed contract modifications. The ESMP framework developed by the Consultants should continue to evolve through its utilization by the Government of Sri Lanka's incorporating energy sector plans and strategies for further development of the energy sector, increasing the productivity of the national economy. The Consultants developed a specific structure to construct a schematic representation of the Sri Lanka energy sector utilizing an arc and node approach. A large information gathering exercise was undertaken to obtain data from each of the energy sub-sectors. This data was then used as input to mirror the energy flows in the Sri Lankan energy sector. This approach was used as a foundation in developing a spreadsheet-based model to analyze energy supply and demand data over the planning horizon. The spreadsheets are systematically organized to take advantage of the energy database developed at the Energy Supply Committee (ESC) and estimate the bottlenecks in both the power and petroleum sector infrastructure to meet future energy demand.				
The outputs of the TA were: (i) Inception Report – 11 Feb 2004; (ii) Draft Final Report – 22 July 2004; and (iii) Final Report – 9 August 2004. In general, delivery of all reports was satisfactory.				
<b>Overall Assessment and Rating</b>				
The TA is rated as generally successful as the objectives of the TA have been substantially met and the TA implemented in accordance with the implementation schedule envisaged. The data gathered by the Consultants was of satisfactory quality and would be highly useful for further development of the energy sector in Sri Lanka.				
The Government's enthusiasm for the TA did decrease as a result of change in Government during the later part of the TA implementation period, and the new Government was encouraged to utilize the information provided and carry the planning process into the future.				

**Major Lessons Learned**

It is important for ADB staff to actively participate in the TA implementation phase when a new government takes over, to ensure continuity of the work done and utilization of the output of the TA in the future. ADB's TAs need, in this period, to be depoliticized to ensure continued flow of technical and operational information to the decision making authorities.

**Recommendations and Follow-Up Actions**

No further action is required.

Prepared by Rune Stroem

Designation Principal Energy Specialist, CWID