

付 属 資 料

1. R/D (2008年2月11日署名)
2. PDM、PO (和文)
3. プロジェクト運営実施体制図

RECORD OF DISCUSSIONS
BETWEEN
JAPAN INTERNATIONAL COOPERATION AGENCY
AND
THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF
THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
ON
JAPANESE TECHNICAL COOPERATION PROJECT
FOR
PROMOTING ENERGY EFFICIENCY IMPROVEMENT IN SRI LANKA

Japan International Cooperation Agency (hereinafter referred to as "JICA") had a series of discussions through the Resident Representative of JICA in the Democratic Socialist Republic of Sri Lanka (hereinafter referred to as "Sri Lanka"), with the Sri Lankan authorities concerned with respect to desirable measures to be taken by JICA and the Government of Sri Lanka for the successful implementation of the above mentioned Project.

As a result of the discussions, JICA and the Sri Lankan authorities concerned agreed on the matters referred to in the document attached hereto.

Colombo, February 11th, 2008



Noriko Suzuki (Ms)
Resident Representative
Japan International Cooperation Agency
Sri Lanka Office



M.M.C. Ferdinando
Secretary
Ministry of Power and Energy



M.P.D.K. Mapa Pathirana
Director, Japan Division,
Department of External Resources
Ministry of Finance and Planning



Ananda S. Gunasekera
Chairman
Sustainable Energy Authority
Ministry of Power and Energy

THE ATTACHED DOCUMENTS

I. COOPERATION BETWEEN BOTH GOVERNMENTS

1. The Government of Sri Lanka will implement the project for "Promoting Energy Efficiency Improvement in Sri Lanka" (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan, JICA will take, at its own expense, the following measures according to the normal procedures under the Technical Cooperation Agreement made on the 12th of October, 2005 between the Government of Japan and the Government of Sri Lanka.

1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II.

2. PROVISION OF MACHINERY AND EQUIPMENT

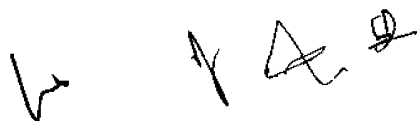
JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The Equipment will become the property of the Government of Sri Lanka upon being delivered C.I.F. (cost, insurance and freight) to the Sri Lankan authorities concerned at the ports and/or airports of disembarkation.

3. TRAINING OF SRI LANKAN PERSONNEL IN JAPAN

JICA will receive the Sri Lankan personnel connected with the Project for technical training in Japan.

III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF SRI LANKA

1. The Government of Sri Lanka will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of



Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.

2. The Government of Sri Lanka will ensure that the technologies and knowledge acquired by the Sri Lankan counterpart personnel as a result of the Japanese technical cooperation will contribute to the economic and social development of Sri Lanka.
3. The Government of Sri Lanka will grant, the privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their dependents accompanied to Sri Lanka, which are no less favorable than those accorded to experts of third countries working in Sri Lanka under the Technical Cooperation Agreement.
4. The Government of Sri Lanka will ensure that the Equipment provided by JICA under II-2 above will be utilized fully and effectively for the implementation of the Project in consultation with the Japanese experts referred to in Annex II.
5. The Government of Sri Lanka will take necessary measures to ensure that the knowledge and skill acquired by the Sri Lankan counterpart personnel from technical training offer in Japan will be utilized effectively in the implementation of the Project, and also sustainability of the project activities after termination of the project period.
6. In accordance with laws and regulations in force in Sri Lanka, the Government of Sri Lanka will take necessary measures with its own expense to provide the followings:
 - (1) Services of Sri Lankan counterpart personnel and supportive staff as listed in Annex IV ;
 - (2) Land, Buildings and facilities as listed in Annex V;
 - (3) Supply or replace the machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the Equipment provided by JICA under II-2 above;

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(4) Means of transport for the Japanese experts for official travel within Sri Lanka.

7. In accordance with the laws and regulations in force in Sri Lanka, the Government of Sri Lanka will take necessary measures to meet:

- (1) Expenses necessary for transportation within Sri Lanka of the Equipment referred to in II-2 above as well as for operation and maintenance and provide buildings, facilities and space necessary for the installation of equipments, thereof;
- (2) Custom duties, equipment clearance charges at sea ports/ airports, internal taxes and any other levies and charges, imposed in Sri Lanka on the Equipment referred to in II-2 above;
- (3) Recurrent expenses necessary for the implementation of the Project.

IV. ADMINISTRATION OF THE PROJECT

1. The Secretary of Ministry of Power and Energy (hereinafter referred as to "MPE"), as the Project Director, will be responsible for overall coordination of the Project.
2. The Director of Energy Management, Sustainable Energy Authority (hereinafter referred as to "SEA"), as the Project Manager, will bear responsibility for the administration and implementation of the Project.
3. The Japanese Team Leader will provide necessary recommendations to the Project Director and Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese Experts will give necessary technical guidance and advice to Sri Lankan counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established and its functions and



composition are described in Annex VI.

V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA and the Sri Lankan authorities concerned at the middle and during the last six months of the cooperation term in order to examine the level of achievement.

VI. CLAIM AGAINST JAPANESE EXPERT

The Government of Sri Lanka undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Sri Lanka except for those arising from the willful misconduct or gross negligence of the Japanese experts.

VII. MUTUAL CONSULTATION

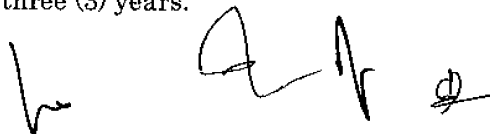
There will be mutual consultation between JICA and the Government of Sri Lanka on any major issues arising from, or in connection with this Attached Document.

VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

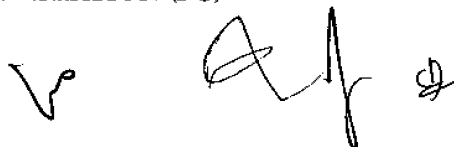
For the purpose of promoting support for the Project among the people of Sri Lanka, the Government of Sri Lanka will take appropriate measures to make the Project widely known to the people of Sri Lanka.

IX. TERM OF COOPERTAION

The duration of the technical cooperation for the Project under this Attached Document will be three (3) years.

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ANNEX I	MASTER PLAN
ANNEX II	LIST OF JAPANESE EXPERTS
ANNEX III	LIST OF MACHINERY AND EQUIPMENT TO BE PROVIDED
ANNEX IV	LIST OF COUNTERPART PERSONNEL AND SUPPORTIVE STAFF
ANNEX V	LIST OF LAND, BUILDING AND FACILITIES
ANNEX VI	JOINT COORDINATING COMMITTEE
ANNEXVII	PROJECT DESIGN MATRIX (PDM)
ANNEX VIII	PLAN OF OPERATION (PO)

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MASTER PLAN

1. Title of the Project
The Project for Promoting Energy Efficiency Improvement in Sri Lanka
2. Overall Goal
High efficiency in energy consumption is achieved.
3. Project Purpose
Infrastructure necessary for materializing energy efficiency activities in the country is enhanced.
4. Output of the Project
 - (1) Necessary resources (rules and regulations, human resources, equipments and materials) for implementing SEA act are prepared.
 - (2) Incentive/ disincentive mechanism for promoting energy efficiency is prepared.
 - (3) Mass consciousness is created among general public, private and public sectors on energy efficiency improvement.
5. Activities of the Project
 - (1-1) Develop 10 year plan for energy efficiency improvement programme.
 - (1-2) Develop and update mandatory energy consumption benchmarks for selected industries.
 - (1-3) Introduce accreditation schemes for energy auditors, energy managers and ESCOs.
 - (1-4) Introduce mandatory labeling for major appliances (CFL, ballast, fan, etc.),
 - (1-5) Develop IT infrastructure for monitoring and analysis of data
 - (1-6) Expand SEA's instrument bank for energy auditors.
 - (2-1) Develop/ improve finance schemes to promote energy efficiency investment (Sri Lanka Sustainable Energy Fund, E-Friends II, etc.).
 - (2-2) Develop incentive/ disincentive schemes for major appliances (CFL, ballast, fan, etc.)
 - (3-1) Conduct awareness creation campaigns for general public, private and public sectors.

LIST OF JAPANESE EXPERTS

- 1 Chief Advisor
- 2 Coordinator
- 3 Experts on Energy Efficiency Policy and administration
- 4 Experts on Energy Efficiency Promotion and Financial Mechanism
- 5 Experts on Energy Efficiency Technology
- 6 Experts on ICT

Other experts will be dispatched as necessary for the effective implementation of the Project.

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LIST OF MACHINERY AND EQUIPMENT TO BE PROVIDED

1. Equipment necessary for Measuring Energy Auditing applications
2. Facilities for Industrial Motor Testing

Note:

- 1) The above-mentioned equipment is limited to the equipment necessary for the transfer of technology by the Japanese Experts.
- 2) The detail specification of the above items may be subject to change and depends on the result of tender and budgetary limitation

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LIST OF COUNTERPART PERSONNEL AND SUPPORTIVE STAFF

A. Organizations

1. Organization Responsible for the Project

Ministry of Power and Energy

2. Organizations for Implementing the Project

(1) Sustainable Energy Authority

(2) National Engineering Research and Development Center (NERD)

B. Counterpart and supportive staff

1. Counterpart Personnel

(1) Project Director

(2) Project Manager

(3) Energy Manager

(4) Web Engineer

2. Supportive staff

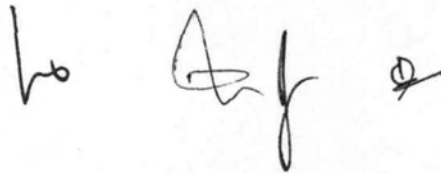
(1) Secretaries

(2) Other personnel

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LIST OF LAND, BUILDING AND FACILITIES

1. Project office space and necessary facilities for the Japanese experts and Sri Lankan counterparts
2. Buildings, facilities and space necessary for the installation and operation of the machinery, equipment and materials to be provided by the Government of Sri Lanka.
3. Lecture room and meeting rooms necessary for the transfer of technology
4. Other facilities mutually agreed upon as necessary for the implementation of the Project.

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JOINT COORDINATING COMMITTEE

The Joint Coordinating Committee, which consists of both the Japanese and the Sri Lankan sides, will be established for the smooth and effective implementation of the Program.

1. Functions

The Joint Coordinating Committee will meet at least twice a year or whenever the necessity arises, in order to fulfill the following functions:

- 1-1. To formulate the Annual Plan of Operation of the Program;
- 1-2. To review the overall progress and achievement of the Program; and
- 1-3. To exchange views on major issues arising from or in connection with implementation of the Program.

2. Composition

2-1 Chairperson

Secretary of Ministry of Power and Energy (MPE)

2-2 Co-chairperson

Leader of Japanese expert of the Project

2-3 Members

Sri Lankan side

Secretary, Ministry of Power and Energy

Chairman, Sustainable Energy Authority

Director General, Sustainable Energy Authority

Representative of Department of External Resources, Ministry of Finance and Planning

Representatives, Department of National Planning, Ministry of Finance and Planning

Representatives, Ministry of Environment and Natural Resources

Chairman, Ceylon Electricity Board

Japanese side

Resident Representative, JICA Sri Lanka Office

Japanese Experts of the Project

National Consultant of the Project

Other personnel concerned, to be assigned by JICA, if necessary

Note:

Official(s) of the Embassy of Japan in Sri Lanka may attend the Joint Coordinating Committee as observer(s).

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Tentative Project Design Matrix (PDM-t) on 2008.2.11
 Name of the Project: Project for Promoting Energy Efficiency Improvement in Sri Lanka
 Project period: 3 years (2008.05.01~2011.04.30)
 Target area: All regions of Sri Lanka
 Target groups: Sustainable Energy Authority (SEA) (direct), energy service providers (ESCOs), private and public sectors, general public (in-direct)

Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal High efficiency in energy consumption is achieved.		1 Primary energy intensity is reduced to 500 toe/Million-SDR by 2017.	* Reports of Central Bank * Sri Lanka Energy Balance compiled by SEA	* Stable economic
Project Purpose Infrastructure necessary for materializing energy efficiency activities in the country is enhanced.		1 Mandatory energy audit, monitoring and follow-up are conducted annually at least in 260 organizations in private and public sectors. 2 Sales of energy service providers (ESCOs) are increased at least by 10%. 3 All the CFLs, ballasts and fans in markets have energy efficiency labels. 4 Penetration rate of CFLs in household sector becomes at least 40%.	* Annual reports of SEA * Base line and end line survey (random sample survey) * Market survey for CFL, ballast and fan.	* Stable economic growth.
Outputs 1 Necessary resources (rules and regulations, human resources, equipments and materials) for implementing SEA act are prepared.		1.1 Mandatory benchmark schemes are introduced in 5 prioritized sub-sectors (tea, garments, desiccated coconuts, hotels and commercial buildings). 1.2 10 number of energy auditors are accredited. 1.3 Accredited energy managers are appointed in 260 organizations in public and private sectors. 1.4 5 full scale and 10 consulting ESCOs are accredited. 1.5 Mandatory labeling systems are introduced for 3 prioritized appliances (CFLs, ballasts and fans).	* Annual reports of SEA * Records of Sri Lanka Standard Institute * Commitment of the Government of Sri Lanka on energy efficiency improvement continues.	
2 Incentive/ disincentive mechanism for promoting energy efficiency is prepared.		2.1 Number of projects on energy efficiency improvement, approved for finance, is increased by 10%. (finance: finance schemes of E-friends II, Sustainable Guarantee Facilities, Sri Lanka Sustainable Energy Fund, etc.) 2.2 More than one incentive/ disincentive schemes for appliances with energy efficiency labels are introduced.	* Reports of Sri Lanka customs.	* Large number of counterpart personnel are not transferred.
3 Mass consciousness is created among general public, private and public sectors on energy efficiency improvement.		3.1 5 different types of education materials are prepared and utilized (posters, leaflets, booklets, CDs and videos). 3.2 Number of applications for the existing national energy award is increased by 10% in each year. 3.3 Awareness on use of CFL is increased.		
Activities 1.1 Develop 10 year plan for energy efficiency improvement programme. 1.2 Develop and update mandatory energy consumption benchmarks for selected industries. 1.3 Introduce accreditation schemes for energy auditors, energy managers and ESCOs. 1.4 Introduce mandatory labeling for major appliances (CFL, ballast, fan, etc.). 1.5 Develop IT infrastructure for monitoring and analysis of data 1.6 Expand SEA's instrument bank for energy auditors. 2.1 Develop/ improve finance schemes to promote energy efficiency investment (Sri Lanka Sustainable Energy Fund, E-Friends II, etc.) 2.2 Develop incentive/ disincentive schemes for major appliances (CFL, ballast, fan, etc.) 3.1 Conduct awareness creation campaigns for general public, private and public sectors.		Inputs Japanese Side 1. Dispatch of JICA Experts -Energy efficiency policy and administration -Energy efficiency promotion (finance and awareness creation) -Energy efficiency technology 2. Counterpart training in Japan and/or other countries 3. Machinery and Equipment (measuring and testing equipment)	Sri Lankan Side 1. Allocation of Counterpart personnel -A Project Director -A Project Manager -Others 2. Office space for JICA Experts 3. Local cost	* Appropriate amount of budget and number of staff are allocated to SEA.
				Pre-conditions

CFL= Compact fluorescent lamp Instrument bank = A scheme of SEA to rent out instruments for the use of energy audits

Name of the Project: Project for Promoting Energy Efficiency Improvement in Sri Lanka
Tentative Plan of Operation (PO-1) on 2008.2.11

Activities	Responsible agencies	2008		2009		2010		2011	
		Jan	Feb	Jan	Feb	Jan	Feb	Jan	Feb
1.1. Develop 10 year plan for energy efficiency improvement programme.	SEA/JICA								
1.1.1 Develop a road map for 10 years.	SEA/JICA								
1.1.2 Develop strategies for the programmes, which require longer term commitments and negotiations, such as building codes, regulations for automobiles, etc.	SEA/JICA								
1.1.3 Design a concept of state-of-art energy efficient building, which will be demonstrated for promotion of	SEA/JICA								
1.2. Develop and update mandatory energy consumption benchmarks for selected industries.	SEA/JICA								
1.2.1 Develop update mandatory energy consumption benchmarks.	SEA/JICA								
1.2.2 Develop operating guide lines for mandatory energy audit process.	SEA/JICA								
1.3. Introduce accreditation schemes for energy auditors, energy managers and ESCOs.	SEA/JICA								
1.3.1. Develop accreditation scheme for energy auditors, energy managers and ESCOs.	SEA/JICA								
1.3.2 Develop curriculum and training modules for energy auditors and managers.	SEA/JICA								
1.3.3 Conduct training programmes for energy auditors and managers.	SEA/JICA								
1.4. Introduce mandatory labeling for major appliances.	SEA/JICA								
1.4.1 Review and update existing labeling schemes for CFL, ballast and fan	SEA/JICA								
1.4.2 Re-design the schemes and labels for CFL, ballast and fan.	SEA/JICA								
1.4.3 Popularize CFL, ballast and fan with energy efficiency labels.	SEA/JICA								
1.4.4 Establish testing facility for motors.	NERDC								
1.5. Develop IT infrastructure for monitoring and analysis of data.	SEA/JICA								
1.5.1 Develop a technical information web-based data base.	SEA/JICA								
1.5.2 Develop monitoring and analyzing tools.	SEA/JICA								
1.6. Expand SEA's instrument bank for energy auditors.	SEA/JICA								
1.6.1 Purchase instruments for expansion.	SEA/JICA								
1.6.2 Conduct training programmes for SEA staff on maintenance of the instruments.	JICA								
2.1. Develop/improve finance schemes to promote energy efficiency investment.	SEA/JICA								
2.1.1 Review existing schemes and give recommendations to improve E-Friends II.	SEA/JICA								
2.1.2 Develop a financial scheme for Sri Lanka Sustainable Energy Fund.	SEA/JICA								
2.1.3 Develop a programme-CDM project.	SEA/JICA								
2.1.4 Carry out capacity building programmes for bankers.	SEA/JICA								
2.2. Develop incentive/ disincentive schemes for major appliances (CFL, ballast, fan, etc.).	SEA/JICA								
2.2.1 Propose new incentive/ disincentive schemes for general public to purchase energy efficient appliances	SEA/JICA								
2.2.2 Develop functional structures to execute the proposed schemes.	SEA/JICA								
2.2.3 Introduce the proposed schemes.	SEA/JICA								
3.1. Conduct awareness creation campaigns for general public, private and public sectors.	SEA/JICA								
3.1.1 Develop/ update educational materials and education kits for awareness creation.	SEA/JICA								
3.1.2 Conduct awareness creation/educational programme for households, public and private sector organizations, architects, officers of local government, contractors, project developers, etc.	SEA/JICA								
3.1.3 Develop marketing strategies to popularize the existing national energy award.	SEA/JICA								

□ = preparation

2. PDM、PO (和文)

プロジェクト・デザイン・マドリックス(案) (PDM-1) 2008年2月26日付
 プロジェクト名:スリランカ国省エネルギー普及促進プロジェクト
 協力期間:3年間(2008年5月1日～2011年4月31日)
 対象地域:スリランカ全土
 対象グループ:持続可能エネルギー推進機構(Sustainable Energy Authority (SEA)) (直接)、エネルギー・サービス会社(ESCO)、私企業、公共団体、一般家庭(間接)

上位目標	プロジェクト要約	指標	入手手段	外部条件
<p>エネルギー消費効率の高い社会が実現する。</p>	<p>1 エネルギー消費効率(10年間)を立案する。 特定業種に関するエネルギー消費ベンチマークの策定や見直しを行う。 エネルギー監査人、エネルギー管理者、ESCOの認定制度を導入する。 主な機器に省エネ表示の義務付けを導入する(CFL、パラスト、天井扇風機など) モニタリングとデータ解析のためのITインフラを開発する。 エネルギー監査人のためのSEAの機材バンクを充実させる。 省エネ投資を奨励するための融資制度を開発または改善する(スリランカ・サステイナブル・エネルギー・基金、EフレンドIDなど)。 主要な機器(CFL、パラスト、天井扇風機)に関するインセンティブ制度を開発する。 一般市民、私企業、公共団体向けの啓蒙キャンペーンを実施する。</p>	<p>1 一次エネルギーに換算したエネルギー消費効率が2017年に500toe/100万SDRに向上する。</p>	<p>* 中央銀行の報告書 * SEA作成の「スリランカ・エネルギー・バランス」(資料)</p>	<p>* 安定した経済成長</p>
<p>プロジェクト目標 省エネ活動を促進するために必要な基盤(政策、人材、奨励制度、省エネ意識)が整備される。</p>	<p>1 省エネ活動を促進するために必要な基盤(政策、人材、奨励制度、省エネ意識)が整備される。 2 エネルギー監査人、エネルギー管理者、ESCOの認定制度を導入する。 3 主な機器に省エネ表示の義務付けを導入する(CFL、パラスト、天井扇風機など) 4 モニタリングとデータ解析のためのITインフラを開発する。 エネルギー監査人のためのSEAの機材バンクを充実させる。 省エネ投資を奨励するための融資制度を開発または改善する(スリランカ・サステイナブル・エネルギー・基金、EフレンドIDなど)。 主要な機器(CFL、パラスト、天井扇風機)に関するインセンティブ制度を開発する。 一般市民、私企業、公共団体向けの啓蒙キャンペーンを実施する。</p>	<p>1 260の私企業・公共団体において毎年、エネルギー監査、モニタリング及びフィードバックが実施されている。 2 ESCOの売り上げが10%以上増加する。 3 市場にある全てのCFL・パラスト・天井扇風機に省エネルギーが表示されている。 4 一般家庭におけるCFLの使用率が40%以上になる。</p>	<p>* SEAの年次報告書 * ベースラインおよびエンドライン調査(サンプル・アンケート調査) * CFL・パラスト・天井ファン・市場調査</p>	<p>* 安定した経済成長</p>
<p>成果 1 SEA施行に必要な資源(政策、人材、機材、資料)が整備される。</p>	<p>1.1 優先度の高い5業種(紅茶製造業、縫製業、乾燥ココナツ製造業、ホテル、商業ビル)にベンチマーキング制度が導入される。 1.2 10名以上のエネルギー監査人が認証を受ける。 1.3 260の私企業・公共団体において認証を受けたエネルギー管理者が配置される。 1.4 ESCOが5団体以上、省エネコンサルタントが10団体以上認証される。 1.5 優先度の高い3種の機器(CFL、パラスト、天井扇風機)に省エネルギー表示が義務付けられる。 2.1 融資の承認を得た省エネ投資プロジェクトの数が10%以上増加する。(融資: EフレンドII、サステイナブル・ギランティ・基金、スリランカ・サステイナブル・エネルギー・基金などの融資制度) 2.2 省エネルギーのついた機器に関するインセンティブ制度が導入される。 3.1 省エネ教育のための教材(ポスター、パンフレット、ブックレット、CD・ビデオなどが5種類以上開発される。 3.2 既存の「全国省エネ賞」への応募団体数が年10%以上増加する。 3.3 CFLランプに対する認知度が向上する</p>	<p>1.1 優先度の高い5業種(紅茶製造業、縫製業、乾燥ココナツ製造業、ホテル、商業ビル)にベンチマーキング制度が導入される。 1.2 10名以上のエネルギー監査人が認証を受ける。 1.3 260の私企業・公共団体において認証を受けたエネルギー管理者が配置される。 1.4 ESCOが5団体以上、省エネコンサルタントが10団体以上認証される。 1.5 優先度の高い3種の機器(CFL、パラスト、天井扇風機)に省エネルギー表示が義務付けられる。 2.1 融資の承認を得た省エネ投資プロジェクトの数が10%以上増加する。(融資: EフレンドII、サステイナブル・ギランティ・基金、スリランカ・サステイナブル・エネルギー・基金などの融資制度) 2.2 省エネルギーのついた機器に関するインセンティブ制度が導入される。 3.1 省エネ教育のための教材(ポスター、パンフレット、ブックレット、CD・ビデオなどが5種類以上開発される。 3.2 既存の「全国省エネ賞」への応募団体数が年10%以上増加する。 3.3 CFLランプに対する認知度が向上する</p>	<p>* SEAの年次報告書 * スリランカ・標準協会(Sri Lanka Standards E-フレンズ、サステイナブル・エネルギー・ギランティ・基金、スリランカ・サステイナブル・エネルギー・基金)の報告書 * スリランカ税関の報告書</p>	<p>* スリランカ政府の省エネに関する継続したコミットメント * カウンターパートの多くが異動しない</p>
<p>活動 1.1 省エネの長期計画(10年間)を立案する。 1.2 特定業種に関するエネルギー消費ベンチマークの策定や見直しを行う。 1.3 エネルギー監査人、エネルギー管理者、ESCOの認定制度を導入する。 1.4 主な機器に省エネ表示の義務付けを導入する(CFL、パラスト、天井扇風機など) 1.5 モニタリングとデータ解析のためのITインフラを開発する。 1.6 エネルギー監査人のためのSEAの機材バンクを充実させる。 2.1 省エネ投資を奨励するための融資制度を開発または改善する(スリランカ・サステイナブル・エネルギー・基金、EフレンドIDなど)。 2.2 主要な機器(CFL、パラスト、天井扇風機)に関するインセンティブ制度を開発する。 3.1 一般市民、私企業、公共団体向けの啓蒙キャンペーンを実施する。</p>	<p>日本側 1. 日本人専門家の派遣 ・省エネ政策・行政 ・省エネ奨励策(融資制度・啓蒙活動) ・省エネ技術 2. 本邦または第3国研修 3. 資機材(測定・試験機器)</p>	<p>収入 1. 日本人専門家の派遣 ・省エネ政策・行政 ・省エネ奨励策(融資制度・啓蒙活動) ・省エネ技術 2. 本邦または第3国研修 3. 資機材(測定・試験機器)</p>	<p>スリランカ側 1. カウンターパートの配置 ・プロジェクト・ディレクター ・プロジェクト・マネージャー ・その他 2. JICA専門家の執務室 3. ローカルコスト</p>	<p>* SEAに適切な規模の予算と職員が配置される。</p>
<p>CFI=小型蛍光灯 機材バンク=SEAの機材貸出制度で、エネルギー監査人が利用している。</p>				<p>前掲条件</p>

スリランカ国省エネルギー普及促進プロジェクト
活動計画(案) (PO-1) 2007年10月24日付

活動	2008年		2009年		2010年		2011年	
	1月	12月	1月	12月	1月	12月	1月	12月
1.1 省エネ長期計画(10年間)を立案する。								
1.1.1 10年間の省エネロードマップを作成する。								
1.1.2 省エネビルコードや自動車等の規制など、長期的な関与や交渉を必要とする部門に関する戦略を立案する。								
1.1.3 省エネビルコード普及のためのモデル「省エネビル」の概念設計を行う。								
1.2 特定業種に関するエネルギー消費ベンチマーク制度の策定や見直しを行う。								
1.2.1 エネルギー消費ベンチマーク制度の策定や見直しを行う。								
1.2.2 エネルギー監査義務付けのための実施ガイドラインを作成する。								
1.3 エネルギー監査人、エネルギー管理者、ESCOの認定制度を導入する。								
1.3.1 エネルギー監査人、エネルギー管理者、ESCOの認定制度を策定する。								
1.3.2 エネルギー監査人とエネルギー管理者育成のための訓練カリキュラムとモジュールを開発する。								
1.3.3 エネルギー監査人とエネルギー管理者のトレーニングを実施する。								
1.4 主な機器に省エネ義務化の義務付けを導入する(CFL、パワースト、天井扇風機など)								
1.4.1 CFL、パワースト、天井扇風機に関する現行のラベル制度を見直し改善する。								
1.4.2 CFL、パワースト、天井扇風機のラベル制度を再策定する。								
1.4.3 省エネラベルの付いたCFL、パワースト、天井扇風機を普及させる。								
1.4.4 モーターの検査施設を設置する。								
1.5 モニタリングとデータ解析のためのIIインフラを開発する。								
1.5.1 ウェブベースの技術情報データベースを開発する。								
1.5.2 モニタリングとデータ解析のソフトウェアを開発する。								
1.6 エネルギー監査人のためのSEAの機材バンクを充実させる。								
1.6.1 機材バンク拡張のための機材を購入する。								
1.6.2 SEA職員に機材の保守管理に関する訓練を実施する。								
2.1 省エネ投資を奨励するための融資制度を開発または改善する(スリランカ持続可能エネルギー基金、FIRENDIIなど)								
2.1.1 現行のE/FIRENDIIの制度を改善するための提言を行う。								
2.1.2 スリランカ持続可能エネルギー基金の融資制度を開発する。								
2.1.3 プログラムCDMを開発する。								
2.1.4 銀行員を対象とした能力開発プログラムを実施する。								
2.2 主要な機器(CFL、パワースト、天井扇風機など)に関するインセンティブ制度を開発する。								
2.2.1 一般市民が省エネ機器を購入するための新しいインセンティブ制度を提案する。								
2.2.2 提案の実施体制を構築する。								
2.2.3 提案した制度を導入する。								
3.1 一般市民、私企業、公共団体向けの啓蒙キャンペーンを実施する。								
3.1.1 啓蒙のための教材や教具を開発・改善する。								
3.1.2 一般家庭、私企業、公共団体、建築家、地方公共団体職員、建築請負業者、住宅開発業者などを対象とした啓蒙・教育キャンペーンを実施する。								
3.1.3 既存の全国エネルギー賞の広報戦略を立案する。								

■ = 準備期間

3. プロジェクト運営実施体制図

Project Organization Chart for Energy Efficiency Improvement Project

