COVER PAGE

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Country Director

UNDP China

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Country: China

UNDAF Outcome(s)/Indicator(s): Improved sustainable utilizations and management 5 of natural resources and the environment at national and community levels Increased capacity of national focal points in Expected Outcome(s)/Indicator (s): addressing policy removal of barriers in pursuing 10 local sustainable management of natural resources and environment Expected Output(s)/Annual Targets: Demonstration of sustainable management of energy consumption; and Evidence-based data for barriers 15 removal and policy decision making National Development and Reform Commission (NDRC) Implementing Partner: 20 Responsible Parties: China National Institution of Standardization (CNIS) 25 USD 1,300,000 CPAP Programme Period: 2009-2013 Total Budget: Allocated resources: Programme Component: CPAP Project Title: Barrier Removal to the Cost-Regular 30 effective Development and Implementation of Other: Energy Efficiency Standards and Labeling GEF USD 1,300,000 In kind contributions Project (BRESL) Project ID: 0007/578 Government USD 11,000,000 Project Duration: 5 years 35 Management Arrangement: NEX Agreed by (National Development and Reform Commission (NDRC)) April 12, 2010 40 Mr. Jin Minghong National Project Director National Development and Reform Commission (NDRC) Agreed by (United Nations Development Programme (UNDP)) 45 13 APR 2010 Mr. Subinay Nandy





Inception Report

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BARRIER REMOVAL TO THE COST-EFFECTIVE DEVELOPMENT AND IMPLEMENTATION OF ENERGY EFFICIENCY STANDARDS AND LABELING PROJECT (BRESL)

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China Activities

Brief Description:

BRESL is aimed at rapidly accelerating the adoption and implementation of energy standards and labels (ES&L) in Asia, and in so doing brings about energy savings from the use of energy efficient appliances/equipment. The project also facilitates harmonization of test procedures, standards and labels among developing countries in Asia, when appropriate. The participating countries include China, Indonesia, Vietnam, Bangladesh, Pakistan, and Thailand. The project is expected to cost-effectively deliver an average 10% reduction in total residential and commercial energy use in partner countries at the time of peak impact by the year 2030 compared to a baseline scenario, thereby contributing to more environmentally sustainable and economically efficient development.

The project will focus largely on capacity building and assisting government, manufacturing, distributing, retail, consumer and environmental stakeholders throughout the Asian region to implement the most cost-effective energy efficiency measure available. In each participating country, priority activities will be carried out to help foster each country's preferred process for developing or expanding its ES&L program.

This project document presents the details of activities to be conducted in China, with China National Institution of Standardization (CNIS) as the implementing partner in close collaboration with the National Development and Reform Commission (NDRC) and China Standard Certification (CSC).

CHAPTER I Introduction

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International experience has shown that ES&L programs have the potential to reduce the unit energy consumption of end-use equipment by as much as 30-50% within a time frame of five to ten years. These savings can be obtained through systematic application of a regime that includes product testing, energy labeling, and establishment of minimum energy performance standards for the most significant energy-using equipment in the home. These savings pay for themselves over time, and the efficient equipment has a lower life-cycle cost for consumers. Most Asian countries regard ES&L programs as cost-effective ways to realize their energy efficiency goals, since these provide substantial electricity peak demand reduction and energy savings with attractive cost/benefit ratios. Such programs have proven to be effective for mitigating climate change in all countries in which they have been implemented. These have the potential to affect complete market transformations for different classes of energy-saving products, at a cost far below the cost of providing new energy supply. However, there are several policy/regulatory; institutional; technical; information and awareness; market; and, financial barriers, that have persistently hindered the widespread development and application of ES&L programs in Asian countries.

The goal of the project is the reduction of GHG emissions in selected Asian countries (i.e. BRESL countries) by accelerating the adoption and implementation of energy standards and labels (ES&L) in Asia, and in so doing brings about energy savings from the use of energy efficient appliances/equipment. The project also facilitates harmonization of test procedures, standards and labels among developing countries in Asia, when appropriate. The participating countries include China, Indonesia, Vietnam, Bangladesh, Pakistan, and Thailand. The project is expected to cost-effectively deliver an average 10% reduction in total residential and commercial energy use in partner countries at the time of peak impact by the year 2030 compared to a baseline scenario, thereby contributing to more environmentally sustainable and economically efficient development.

BRESL will facilitate the transformation of the manufacture and sale of energy-efficient appliances and equipment through: 1) A regional initiative in Asia, with provision for general information, tools and training to all interested developing countries in the region plus customized efforts, all with a focus on regional cooperation; and, 2) National technical assistance to 6 developing countries in Asia.

The project will focus largely on capacity building and assisting government, manufacturing, distributing, retail, consumer and environmental stakeholders throughout the Asian region to implement the most cost-effective energy efficiency measure available. In each participating country, priority activities will be carried out to help foster each country's preferred process for developing or expanding its ES&L program.

This project document presents the details of BRESL activities to be conducted in China. The proposed project activities are grouped into the five major BRESL project components, and these are mainly complementary activities designed to remove barriers that have persistently hindered the widespread development and application of ES&L programs in China.

• <u>ES&L Policy Making Program:</u> Under this component, the following are the planned activities: (1) Revision of the *Regulation on Energy Efficiency Labeling Administration* to keep it in accordance with the new *China Energy Conservation Law* which was issued by the

Chinese Government and took effect in April 2008; (2) Monitoring and assessment of the applicability to China of the latest information of energy efficiency standards, labels, policies and best practices in the world particularly in typical western countries; (3) Conduct of study tours for relevant Chinese officials and researchers in the EU countries and the USA on the development and application of ES&L programs, policies and best practices; (4) Participation in major international events on ES&L organized and conducted by EE-related associations such as ACEEE, ECEEE, EEMODS and EEDAL; (5) Formulation of appropriate ES&L policy recommendations including the implementing rules and regulations, based on findings and lessons learned from the study tours and international conferences and fora for proposition to the government officials and policy decision makers.

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- ES&L Capacity Building Program: This project component shall be comprised of the following activities: (1) Capacity building of local regulation enforcer of the implementation of energy efficiency standards and labels; (2) Capacity assessment of nationwide testing laboratories for energy efficiency; (3) Capacity building of nationwide energy efficiency testing laboratories based on the capacity need assessment; (4) Conduct of consistency or round robin testing of energy efficiency between third-party labs and ones in enterprises; (5) Development or revision of energy efficiency standards and implementing rules of various target products such as air conditioners, rice cookers, fluorescent lamp ballasts and electric motors; (6) Conduct market investigation on the energy efficiency performance of the target products, and evaluate the progress of ES&L implementation; (7) Continuously improve the data collection procedure.
- ES&L Manufacturer Support Program: This project component shall comprise of the following activities: (1) Conduct of a conference on updated energy efficiency standards and energy label implementation rules for target products, and evaluate the results and impacts of the conference; (2) Conduct of site visits to over 20 appliance manufacturing enterprises to evaluate their existing manufacturing processes and sort out their technical and policy needs in manufacturing EE products; (3) Provide suggestions and assistance to EE products manufactures in various aspects of EE products manufacturing including plan & design, complying with EE standards and labels, etc..
- ES&L Regional Cooperation Program: This project component is mainly on the BRESL regional activities to which China will be an active participant. The China Country Team members will participate in all regional activities. It will also support Chinese delegates that will be participating in the execution of the regional activities.
- ES&L Pilot Projects: This project component will involve the implementation of the following activities: (1) Development and maintenance of a widely available in-country database and website on energy-efficient products and their usage; (2) Development of a database for rice cookers and electric fans and updating databases for the other products; (3) Build the website of BRESL project, which will serve as the communication platform for BRESL countries and other Asian countries; (4) Conduct of feasibility evaluation on the ES&L harmonization of refrigerators, ballasts, electric motors, and electric rice cookers those are traded in the region, particularly between the BRESL countries; (5) Organize conferences on ES&L harmonization of refrigerators, ballasts, electric motors, and electric rice cookers; (6) Publicize the harmonized ES&L of refrigerators, ballasts, electric motors, and electric rice cookers, especially the testing protocols, to testing facilities.

CHAPTER II PROJECT ACTIVITIES

The China National activities under the BRESL project are grouped according to the 5 BRESL project components: (1) ES&L Policy Making Program; (2) ES&L Capacity-Building Program; (3) ES&L Manufacturer Support Program; (4) ES&L Regional Cooperation Program; (5) ES&L Pilot Projects. The target products are refrigerators, air conditioners, electric fans, ballasts, electric motors, CFL, and electric rice cookers. The activities under each component and their respective outputs are described below:

Component 1: ES&L Policy Making Program

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To ensure the successful implementation of ES&L, a comprehensive set of enabling laws and regulations must be developed. On the one hand, China must accelerate the rate at which it improves its policies and regulations, so as to quickly solve problematic areas in existing regulations. On the other hand, China should participate in more international exchanges with the aim of learning best practices that can improve the current situation within the country and contribute toward a better legal framework on the implementation of national and regional ES&L programs.

Activity 1.1: Revise China's Administration Regulation on Energy-Efficiency Labeling

- Conduct of site visits, investigations and research to gather pertinent information and have a wider understanding of the current situation and prospects for EE standards and labeling. Such information/knowledge shall be used in the revision of the document Administration Regulation on Energy-Efficiency Labeling
- Convene experts and hold a workshop to draft *Administration Regulation on Energy-Efficiency Labeling*
- Hold a workshop to collect comments from a wide variety of enterprises and other stakeholders on the above drat
- Based on the above comments, complete the final version of Administration Regulation on Energy-Efficiency Labeling and submit it to designated ES&L government agencies for approval
- **Output:** Approved revised document of *Administration Regulation on Energy-Efficiency Labeling*

Projected impact: Improved/enhanced legal framework for China's ES&L program and program implementation.

Activity 1.2: Sharing of ES&L Implementation Experience

- Monitoring and assessment of the applicability to China of the latest information of energy efficiency standards, labels, policies and best practices in the world particularly in western countries
- Conduct of study tours for relevant Chinese officials and researchers in the EU countries and the USA on the development and application of ES&L programs, policies and best practices
 - Participation in major international events on ES&L organized and conducted by EE-related associations such as ACEE, ECEE, EEMODS and EEDAL
- Formulation of appropriate ES&L policy recommendations including the implementing rules and regulations, based on findings and lessons learned from the study tours and international conferences and fora for proposition to the pertinent government officials and

policy decision makers

Output:

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- Attendance of Chinese representative at various conferences and events
- Assessment report on ES&L development in the world
- Policy recommendations for government agencies on ES&L

Projected impact:

- Increase NDRC, SAC, and other relevant agencies' awareness of global ES&L implementation status
- Strengthen communication and cooperation on ES&L with other developed countries
- Contribute to China's ES&L policy making

Component 2: ES&L Capacity-Building Program

This component addresses the issue of improving the technical know-how and improving the adequacy and competency of appliance testing facilities to measure and enforce ES&L compliance. The various activities are aimed at improving China's ability to carry out the testing and manufacturing of ES&L products, thereby working toward the goal of sustainable energy standards and labeling.

Activity 2.1: Training for ES&L Local Enforcement Officials

- Development of training materials for ES&L local enforcement officials on ES&L program development and implementation
- Conduct of training courses on ES&L program development and implementation in Sichuan, Shandong, Jiangsu, and Shanghai
 - Evaluation of the results and impacts of the training courses. This will be carried out after each training (to assess the results and effectiveness of the training delivery), and a post-training evaluation 1 year before the end of the project (to assess the impacts of the training).

Output:

- Training Guide for ES&L Local Enforcement Officials
- Four completed training workshops for ES&L local enforcement officials
- Evaluation report on the training courses conducted (after each training)
 - Total attendance of 200 enforcement officials at training workshops
 - Media coverage and dissemination of training activities
- Post-training evaluation report (1 year after end of project) to assess the impacts of the training courses

40 Projected impact:

- Better enable relevant agencies and officials to carry out ES&L policies
- Expanded reach and awareness about ES&L among the local enforcement officials and appliance consumers
- Improved ES&L implementation effects in terms of improved supervision and inspection mechanism of China Energy Efficiency Labeling System (CEELS), increase in market share of EE products, increase in the number of local manufacturers producing EE products, and energy savings from the use of EE products

Activity 2.2: Development/Revision of EE Standard and Label Implementation Rules

Activity 2.2.1: Develop China Energy Label Implementation Rule for Rice Cookers

- Conduct of market research on the technologies and manufacturing best practices in the production of energy efficient rice cookers
- Drafting of the China Energy Label Implementation Rule for Rice Cookers
- Conduct of workshops to discuss the above draft
- Finalization of the draft *China Energy Label Implementation Rule for Rice Cookers* for submission to the relevant GOC agency for approval.

Output:

• Approved China Energy Label Implementation Rule for Rice Cookers

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Projected impact:

- Enlargement of the implementation scope of China Energy Efficiency Label
- Enhanced public awareness of energy efficiency labeling
- Increased market share of EE rice cookers
- Energy savings in the use of EE rice cookers

Activity 2.2.2: Revise Energy Efficiency Standard for fluorescent lamps

- Conduct of market research on the technologies and manufacturing best practices in the production of energy efficient fluorescent lamps
- Revision of the existing Energy Efficiency Standard for fluorescent lamps
 - Conduct of workshops to discuss the above revision
 - Finalization of the revised *Energy Efficiency Standard for fluorescent lamps* for submission to and approval of the relevant GOC agency

25 Output:

Approved revised Energy Efficiency Standard for fluorescent lamps

Projected impact:

- Improved EE standards for fluorescent lamps, and push for technological advancement toward energy saving in the use of such appliance
- Increased market share of EE fluorescent lamps

Activity 2.2.3: Revise China Energy Label Implementation Rule for Air Conditioners

- Revision of the existing China Energy Label Implementation Rule for Air Conditioners
- Conduct of workshops to discuss the proposed revision
- Finalization of the revised *China Energy Label Implementation Rule for Air Conditioners* for submission to and approval of the relevant GOC agency.

Output:

• Approved revised China Energy Label Implementation Rule for Air Conditioners

Projected impact:

- Enlargement of the implementation scope of *China Energy Efficiency Label*
- Enhanced public awareness of energy efficiency labeling
- Increased market share of EE air conditioners

Activity 2.2.4: Revise Energy Efficiency Standard for Electric Motors

- Conduct of market research on the technologies and manufacturing best practices in producing energy efficient electric motors
- Revision of the existing Energy Efficiency Standard for Electric Motors
 - Conduct of workshops to discuss the proposed revisions

• Finalization of the revised *Energy Efficiency Standard for Electric Motors* for submission to and approval of the relevant GOC agency.

Output:

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Approved revised Energy Efficiency Standard for Electric Motors

Projected impact:

- Improved EE standards for electric motors, and push for technological advancement toward energy saving in the use of such equipment.
- 10 Increased market share of EE electric motors

Activity 2.2.5: Revise Energy Efficiency Standard for Fluorescent Lamp Ballasts

- Conduct of market research on the technologies and manufacturing best practices in the production of energy efficient fluorescent lamp ballasts
- Revision of the existing Energy Efficiency Standard for Fluorescent Lamp Ballasts
 - Conduct of workshops to discuss the proposed revisions
 - Finalization of the revised *Energy Efficiency Standard for Fluorescent Lamp Ballasts* for submission to and approval of the relevant GOC agency.

20 Output:

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• Approved revised Energy Efficiency Standard for Fluorescent Lamp Ballasts

Projected impact:

- Improved EE standards for Fluorescent Lamp Ballasts, and push for technological advancement toward energy saving in the use of such devices.
- Increased market share of EE fluorescent lamp ballasts

Activity 2.2.6: <u>Develop China Energy Label Implementation Rule for Fluorescent Lamp</u> Ballasts

- Conduct of research on the development and implementation of EE labeling programs on fluorescent lamp ballasts in other countries
 - Drafting of a proposed China Energy Label Implementation Rule for Fluorescent Lamp Ballasts
 - Conduct of workshops to discuss the proposed EE label implementation rule
- Finalization of the draft *China Energy Label Implementation Rule for Fluorescent Lamp Ballasts* for submission to and approval of the relevant GOC agency.

Output:

Approved China Energy Label Implementation Rule for Fluorescent Lamp Ballasts

Projected impact:

- Enlargement of the implementation scope of China Energy Efficiency Label
- Improved public awareness of energy efficiency labeling
- Increased market share of EE fluorescent Lamp Ballasts

Activity 2.3: <u>Strengthening of National and Regional Testing and Certification Infrastructure</u>

Activity 2.3.1: Onsite inspection of energy efficiency testing labs

- Assess laboratory quality management systems
 - Conduct of onsite inspections of the capabilities of laboratories on energy efficiency testing

- of appliances
- Assessment of the current capacities (e.g., technical, testing facilities) of existing energy efficiency testing laboratories
- Provision of technical advice to testing laboratories on the feasible and applicable improvements in the testing capacity and adequacy of testing facilities
- Preparation of the evaluation report describing the inspection findings, capacity assessments, and recommended improvements for testing laboratories

Output:

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• Report of the onsite inspection findings

Projected impact:

- Standardized laboratory management systems and improved testing capabilities of energy efficiency testing laboratories
- Improved work and standards of energy efficiency laboratories.

Activity 2.3.2: Round robin testing between various testing labs

Activity 2.3.2.1: Round Robin Testing for CFLs between Various Testing Labs

- 20 Preparation of CFL testing samples
 - Hold workshop to develop energy efficiency testing procedures for CFL based on the existing procedures
 - Selection of model laboratory for reference; conduct of EE test of CFL samples in reference laboratory
- Testing of CFL samples in various independent and private testing facilities
 - Comparison and evaluation of findings from the round robin tests

Output:

- 30 CFL Energy Efficiency Testing Procedure
 - Round robin CFL testing results
 - Round robin testing report (inclusive of test results, evaluation of test results, and recommendations)

) 35 Projected impact:

- Standardized CFL testing procedure
- Improved capacity of testing labs to test CFLs

Activity 2.3.2.2: Round Robin Testing for Electric Motors between Various Testing Labs

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- Preparation of electric motor testing samples
- Development of energy efficiency testing procedure for electric motors
- Selection of model laboratory for reference; conduct of EE test of electric motor samples
- Testing of electric motor samples in various independent and private testing facilities.
- Comparison and evaluation of findings from the round robin tests

Output:

- Energy Efficiency Testing Procedures for Electric Motors
- Round robin electric motors testing results
- Round robin testing report (inclusive of test results, evaluation of test results, and recommendations)

Projected impact:

- Standardized electric motor testing procedures
- Improved capacity of testing labs to test EE electric motors

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Activity 2.4: Progress Evaluation on Implementation Status of China Energy Label

- Collection of data on energy efficiency of target products (refrigerators, air conditioners, electric motors, CFLs, and rice cookers)
- Development of a methodology for market investigation on the energy efficiency performance of the target products
- Conduct market research annually for refrigerators, air conditioners, electric motors, CFLs, and rice cookers
- Evaluation of the implementation status of the EE labeling system

15 Output:

- Market research reports on energy efficiency for the five target products
- Methodology for market investigation on the energy efficiency performance of the target products
- Energy performance benchmark for the target products

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Projected impact:

- Provide data reference for setting standards and monitoring implementation and benefits of ES&L
- Improvement in the data collection and reporting procedures on energy performance of the target products
- Provide reference for ES&L related policy making

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Component 3: ES&L Manufacturer Support Program

For a host of reasons such as distrust of standards and labels and increased costs of compliance, manufacturers are often reluctant to adopt new standards. As their cooperation is necessary toward ES&L efforts, this component aims to achieve technological, ideological, and financial alignment with private enterprises through meetings and workshops.

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Activity 3.2: ES&L Publicizing Conference

- Development of training materials on energy efficiency standards and labeling for room air conditioners and fluorescent lamp ballasts
- Conduct of a conference to educate and promote ES&L to manufacturers and retailers
- Evaluation of the results and impacts of the conference

Output:

- Educational and promotional materials on ES&L
- Evaluation report on the conference
 - Attendance of 100 companies at the conference
 - Coverage of activities through major media outlets
- Post-conference evaluation report (1 year after end of project) to assess the impacts of the promotional conference

50 Projected impact:

• Widespread knowledge and promotion of the revised energy standards and labels.

• Higher adoption rates of appropriate energy standards and labels by local appliance manufacturers and retailers.

Activity 3.3: Onsite Inspection of Enterprises

- Organization of local appliance company inspections by experts this is for the evaluation of current manufacturing procedures and technologies employed.
 - Discussions with the appliance manufacturers on their technological challenges and policy needs.
 - Provide technical assistance to equipment manufactures in improving the efficiency of their products, or on their compliance to set EE standards/labels, or improving their manufacturing processes to enable the production of EE products, etc.
 - Evaluation of the progress toward development of the existing "Alliance of Energy Efficient Labeling Enterprises"
 - Evaluation of the potential applicable and feasible measures/techniques and technologies
 - Organization and conduct of discussions between enterprises and local finance institutions on the financing of the manufacturing of energy saving products.

Output

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- Onsite inspection reports for around 20 local appliance manufacturing enterprises.
- Report on technological challenges and policy needs of high efficiency products.
 - Administration Regulation of 'Alliance of Energy Efficient Labeling Integrity Enterprises'
 - Report on the technical assistance provided to each local appliance manufacturers
 - Report on the proceedings (inclusive of findings, recommendations and proposed action plan) regarding the financing of EE product manufacturing.

Projected impact:

- Focuses attention on the technological, policy, and financial needs and challenges of private enterprises in their production of high-efficiency products
- Increased participation in Alliance of Energy Efficient Labeling Integrity Enterprises
- Increased capacity to locally produce EE standards-compliant appliances
 - Increased production of EE products (refrigerators, air conditioners, electric motors, CFLs and rice cookers)

Component 5: ES&L Pilot Projects

Pilot projects grant individual countries flexibility to implement projects suited to their particular environments. China's two main activities include the development and maintenance of the website and database of products with EEL. China will also take the lead in activities and conference on ES&L harmonization of refrigerators, ballasts, electric motors, and electric rice cookers:

Activity 5.2: Maintenance of Database and Website of Products with EEL

- Development of a databases for rice cookers and electric fans
- Updating of databases for the other products
- Daily maintenance of China's Energy Efficiency Labeling Website

Output:

- Completed and updated database on EE rice cookers and electric fans
- ES&L-related reports, data, and EE standards and labeling programs information in website

Project impact:

- Strengthened data collection for, and management of the energy efficiency database
- Established firm foundation for regional ES&L program cooperation
- Expanded public reach and awareness of China's energy labeling website

5 Activity 5.5: <u>Organization and Conduct of the Conference on ES&L Harmonization of Refrigerators, Ballasts, Electric Motors, and Electric Rice Cookers</u>

Activity 5.5.1: Organization and conduct of conferences on ES&L Harmonization of Refrigerators

- Conduct of feasibility evaluation on the ES&L harmonization for refrigerators that are traded in the region, particularly between the BRESL countries
 - Organization and conduct of a conference on ES&L harmonization of refrigerators,
 - Publicize the harmonized ES&L of refrigerators, especially the testing protocols, to testing facilities in order to promote the adoptions of them

Output:

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Feasibility evaluation report on ES&L harmonization of refrigerators

Projected impact:

• Promotion of the ES&L harmonization of refrigerators

Activity 5.5.2: <u>Organization and conduct of conferences on ES&L Harmonization of Ballasts</u>

- Conduct of feasibility evaluation on the ES&L harmonization for fluorescent lamp ballasts that are traded in the region, particularly between the BRESL countries
- Organization and conduct of a conference on ES&L harmonization of ballasts
- Publicize the harmonized ES&L of ballasts, especially the testing protocols, to testing facilities in ordert to promote the adoptions of them

30 Output:

Feasibility evaluation report on ES&L harmonization of ballasts

Projected impact:

Promotion of the ES&L harmonization of ballasts

Activity 5.5.3: <u>Organization and conduct of conferences on ES&L Harmonization of Electric Motors</u>

- Conduct of feasibility evaluation on the ES&L harmonization for electric motors that are traded in the region, particularly between the BRESL countries
- Organization and conduct of a conference on ES&L harmonization of electric motors
 - Publicize the harmonized ES&L of electric motors, especially the testing protocols, to testing facilities in order to promote the adoptions of them

Output:

• Feasibility evaluation report on ES&L harmonization of electric motors

Projected impact:

• Promotion of the ES&L harmonization of electric motors

Activity 5.5.4: Organization and conduct of conferences on ES&L Harmonization of Electric Rice Cookers

- Conduct of feasibility evaluation on the ES&L harmonization for electric rice cookers that are traded in the region, particularly between the BRESL countries
- Organization and conduct of a conference on ES&L harmonization of electric rice cookers
- Publicize the harmonized ES&L of electric rice cookers, especially the testing protocols, to testing facilities in order to promote the adoptions of them

Output:

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• Feasibility evaluation report on ES&L harmonization of electric rice cookers

10 Projected impact:

• Promotion of the ES&L harmonization of electric rice cookers

Project activities can be summarized as shown in Table 1 below.

TABLE 1: Summary of China's Participation in the Various Project Elements

Activity	PRC
Component 1: ES&L Policy Making Program	
1.1 Revise China's Administration Regulation on Energy-Efficiency	_
Labeling	•
1.2: Sharing of ES&L Implementation Experience	•
Component 2: ES&L Capacity Building Program	
2.1 Training for ES&L Local Enforcers	•
2.2 Development/Revision of EE Standard and Label	
Implementation Rules	•
2.2.1 Develop China Energy Label Implementation Rule for Rice	
Cookers	•
2,2.2 Revise Energy Efficiency Standard for fluorescent lamps	•
2.2.3 Revise China Energy Label Implementation Rule for Air	
Conditioners	•
2.2.4 Revise Energy Efficiency Standard for Electric Motors	•
2.2.5 Revise Energy Efficiency Standard for Fluorescent Lamp	
Ballasts	•
2.2.6 Develop China Energy Label Implementation Rule for	
Fluorescent Lamp Ballasts	•
2.3 Strengthening of National and Regional Testing and	
Certification Procedure	_
2.3.1 Onsite Inspection of Energy Efficiency Testing Labs	•
2.3.2 Consistency Comparison or Round Robin Testing Between	_
Various Testing Labs	
2.3.2.1: Consistency Comparison or Round Robin Testing for	•
CFLs Between Various Testing Labs	
2.3.2.2: Consistency Comparison or Round Robin Testing for	•
Electric Motors Between Various Testing Labs	
2.4 Progress Evaluation on Implementation Status of <i>China Energy</i>	•
Label	
Component 3: ES&L Manufacturer Support Program	
3.2 ES&L Publicizing Conference	•
3.3 Onsite Inspection of Enterprises	•
Component 5: ES&L Pilot Projects	
5.2 Maintenance of Database and Website of Energy-Efficient	•
Equipment	<u> </u>
5.5 Organization and Conduct of Conferences on ES&L	
Harmonization of Refrigerators, Ballasts, Electric Motors, and	•
Electric Rice Cookers.	
5.5.1: Organization and conduct of conferences on ES&L	•
Harmonization of Refrigerators	
5.5.2: Organization and conduct of conferences on ES&L	•
Harmonization of Ballasts	_
5.5.3: Organization and conduct of conferences on ES&L	•
Harmonization of Electric Motors	
5.5.4: Organization and conduct of conferences on ES&L	•
Harmonization of Electric Rice Cookers	

CHAPTERIII

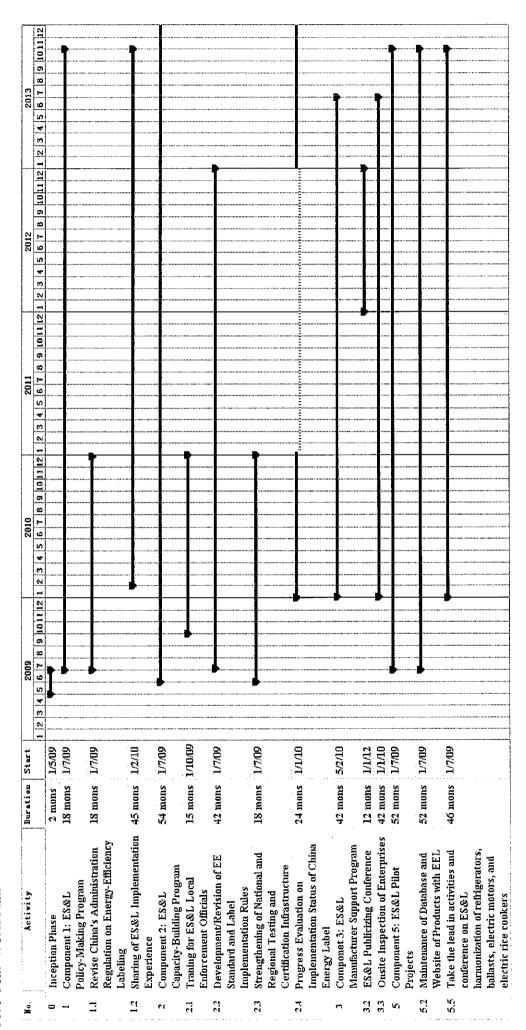
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PROJECT WORK PLAN

This chapter provides work plan of the project throughout its 5-years duration, beginning in 2009 and ending in 2013, and detailed work plan of the first year (2009).

Five Year Work Plan

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First Year Work Plan

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	(> yr, 1st yr)					••••••		1					
	Component 1: ES&L Policy-Making Program	18 mons	17700			••••••					****		
	Revise China's Administration Regulation on	18 mons	1/7/00			******							
	Energy-Efficiency Labeling										-terres		
	Review the implementation status of China's	2 mons	1/7/09										
	Administration Regulation on Energy-Efficiency			·····									
	Labeling												
	Site visit or interview ES&L stakeholders in China	3 mons	1/9/09	······-					*******				f
	(Such as SAC, CNIS, AQSIQ, and so on)								****				
	Prepare 1st draft revision of China's Administration	4 mons	1/12/09		·····			***********					
	Regulation on Energy-Efficiency Labeling				********				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	Component 2: ES&L Capacity-Building	54 mons 1/7/09	1/7/09		*********								

	Traning for ES&L Local Enforcement Officials	15 mons	1/10/09		,,,,,	*****							
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	Label Implementation Rules			···········		********							
	Develop Chira Energy Label Implementation	15 mons 2/7/09	2/7/09										
	Rule for Rice Cookers												
	Conduct market research on the technologies and	3 mons	2/7/09										
	efficiency of rice cookers								#=43242=		<u>}</u>		
	Draft China Energy Label Implementation Rule for	12 mons	1/10/09		***********								
	Rice Cookers				44							·	
	Revise Energy Efficiency Standard for Air	27 mons 2/7/09	2/7/09		49******			***************************************	Name of the last o				
	Conditioners											~~~	
	Conduct market research on the technologies and	3 mons	2/7/09			********					T		
	efficiency of air conditioners											******	
	Revise Energy Efficiency Standard for Air	24 mons	1/10/09										
	Conditioners						42******		*****		Q87/A 1 07//		
	Strengthening of National and Regional	18 mons	1/7/09										
	Testing and Certification Infrastructure	,	:		********					*******			
	Onsite Inspection of Energy Efficiency	18 mons 1/7/09	1/7/00		********								
	Taching Lake				*****					*******			

2009	11 01 10 11													
	5													•••••
	.e.		***********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*******							
Start	6	1/7/09	60/6/1	1/10/09		1/7/09	1/7/09	60/1/1	1/8/09	21/8/09	60/6/11	1/12/09	60%/1	1/7/09
Duration Start	E	2 mons 1/7/09	1 mons 1/9/09	15 mons 1/10/09		18 mons 1.7709	6 mons 1/7/09	1 mons 1/7/09	20 days 1/8/09	20 days 21/8/09	3 mons 11/9/09	20 days 1/12/09	52 mons 1/7/09	52 mons 1/7/09
			1 mons	15 mons	and those independent ones, runsn the reports of the onsite inspection findings		6 mons		ting procedures for 20 days	Choose model laboratories for reference, and test 20 days 21/8/09	endent and private 3 mons	valuate findings	rojects 52 mons	ite of 52 mons

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CHAPTER IV LOGICAL FRAMEWORK ANALYSIS

Chap critic impl

hapter IV presents logical fram itical assumptions, etc. LFA se	napter IV presents logical framework analysis (LFA) of the project. itical assumptions, etc. LFA serves to ensure that the project is logical anti-mentation of each activity.		napter IV presents logical framework analysis (LFA) of the project. The LFA includes project strategy, outputs, activities, indicators, targets, means of verification itical assumptions, etc. LFA serves to ensure that the project is logically designed to achieve its stated goal and objective. It also serves as an evaluation tool for the indementation of each activity.	outputs, activities, indicators, al and objective. It also serve	The LFA includes project strategy, outputs, activities, indicators, targets, means of verification and ally designed to achieve its stated goal and objective. It also serves as an evaluation tool for the
Project Strategy	Indicators	Baseline	Target	Means of Verification	Critical Assumptions
GOAL: Promotion of energy efficient product use, reduction of energy consumption and GHG emission, promote the application of energy-saving technologies in	Reduction of GHG emissions from thermal power generation by EOP, MMT/yr. Reduction in the annual growth rate of GHG emissions from thermal power generation by EOP, %.	•	• 2.24 Mtyr in year 2013 (Calculation based on UNDP's BRESL baseline analysis sheet)	• Final Report in Year 5	 The sustainability of the support by key stakeholders in the participating countries; Effective project coordination at the national and/or regional levels; Failure of EE products to perform as claimed by manufacturers resulting to customer dissatisfaction
China OBJECTIVE: Removal of barriers to the successful implementation of energy standards and labeling policies and programs in China	Reduction in total electricity use in the residential, commercial and industrial sectors by EOP, GWh/yr. Market share of energy efficient appliances and equipment by EOP, %.		 2,048 GWh/yr in year 2013 5-10 	• Final Report in Year 5	Continued political support by governments in China. Interest of the policy-makers in EE remains at least at the current level. Commitments for allocation of public budget for EE standards and labels increases. Manufacturers open to new ideas on ways to improve their products.

Outputs	Activities	Objectively V Indicators	ectively Verifiable Indicators Baseline	Target	Means of Gauging Success	Critical Assumptions
Component 1: ES&1 OUTCOME: Enhan	Component 1: ES&L Policy Making Program: OUTCOME: Enhancing China's ES&L legal foundations, relevant agencies' awareness of global ES&L, and China's technical capabilities of ES&L	relevant agencies' awareness of	f global ES&L, anc	China's technica	capabilities of ES&L	
Output I.I. Revise Clina's Administration Regulation on Energy-Efficiency Labeling	1.1.1 Site visit, investigate and research, and collaborate to draft the above-mentioned document Administration Regulation on Energy-Efficiency Labeling 1.1.2 Extensively comments collection for enterprises and other stakeholders 1.1.3 Submit draft revision of Administration Regulation on Energy-Efficiency Labeling to designated ES&L government agencies for approval	• Revised document of Administration Regulation on Energy-Efficiency Labeling	-	• revised	Official publication of revised document of Administration on Regulation on Energy- Efficiency Labeling	Continued political support by governments in China.
Output 1.2: Sharing of ES&L Implementation Experience	1.2.1 Monitoring and assessment of the applicability to China of the latest information of energy efficiency standards, labels, policies and best practices in the world particularly in western countries 1.2.2 Conduct of study tours for relevant Chinese officials and researchers in the EU countries and the USA on the development and application of ES&L programs, policies and best practices 1.2.3 Participation in major international events on ES&L conducted by EE-related associations such as ACEEE, ECEEE, EEMODS and EEDAL 1.2.4 Formulation of appropriate ES&L policy recommendations including the implementing rules and regulations, based on findings and lessons learned from the study tours and international conferences and fora for proposition to the pertinent	Attendance of Chinese representative at various conferences and events Assessment report on ES&L development in the world Policy recommendations for government agencies on ES&L	0 0	4 1	Assessment report to NDRC Policy proposal to NDRC	Continued political support by governments in China

Outputs	Activities	Objectively V Indicators	jectively Verifiable Indicators Baseline	s Target	Means of Gauging Success	Critical Assumptions
	government officials and policy					
	decision makers				***************************************	
Component 2: ES&I	Component 2: ES&L Capacity-Building Program OUTFOME: Jameswad institutional and individual conneits to implement ES&I	to implement FS&1				
COLCOME: Impre		in mprement to a series				The amount of the second of the
Output 2.1:	2.1.1 Develop training materials for	I raining Guide for ES&L	• None	- •	• Progress reports to NDIKC	support by local authorises in
Ltanting 10t ES&L	2.1.2 Hold trainings in Sichnan	Docut Engloreers	·	<u> </u>		China
STATISTICS TO STATE OF THE STAT	Shandong, Jiangsu, and Shanghai	for ES&L local enforcers		+		
))	 200 enforcers participated 	0 •	• 200		
		the training workshops in				
		Total				
		 Media coverage and dissemination of training 	0	01		
		activities				distribution distribution of the second of t
Output 2.2:	2.2.1 Conduct market research on the	 Draft of China Energy 	0 •	_ •	Official publications of	 Continued political support by
Development/Revis	technologies and efficiency of	Label Implementation			the EE Standards and label	governments in China
ion of EE Standards	various products	Rule for Rice Cookers			implementation rules	
and Label	2.2.2 Draft China Energy Label	 Revision of Energy 	-	revised		
Implementation	Implementation Rule for Rice	Efficiency Standard for				
Rules	Cookers	Air Conditioners				
	2.2.3 Revise Energy Efficiency	 Revision of China Energy 	-	 Revised 		
	Standard for Air Conditioners	Label Implementation				
	2.2.4 Revise China Energy Label	Rule for Air Conditioners				
	Implementation Rule for Air	 Revision of Energy 	-	 Revised 		
	Conditioners	Efficiency Standard for				
	2.2.5 Kevise Energy Efficiency	Fluorescent Electric				
	Standard for electric motors	Motors	-	 Revised 		
	2.2.6 Revise Energy Efficiency	 Revision of Energy 				
	Standard for Fluorescent Lamp	Efficiency Standard for				
	Ballasts	Fluorescent Lamp Ballasts	0•	_		
	2.2.7 Draft China Energy Label	Draft of China Energy				
	Implementation Rule for Fluorescent					
	Lamp Ballasts	Rule for Fluorescent Lamp				
	2.2.8 Hold workshops to discuss the	Ballasts				
	drafts of energy efficiency standards					
	and China Energy Label					
	Implementation Rule for various					
	products					

Outputs	Activities	Objectively V Indicators	jectively Verifiable Indicators Baseline	Target	Means of Gauging Success	Critical Assumptions
Output 2.3.1: Onsite Inspection of Energy Efficiency Testing Labs	2.3a.1 Validate laboratory quality management system documents 2.3a.2 Onsite inspections of the capabilities of energy efficiency testing	 Report of the onsite inspection findings 	0	- •	Progress reports to NDRC	 Commitments for allocation of public budget on product testing and certification increased. Sustained and increased interest of public officials and others in product testing and certification.
Output 2.3.2; Consistency Comparison or Round Robin Test For CFL and Electric Motors Between Various Testing Labs	2.3b.1 Prepare testing samples of CFL and electric motors. 2.3b.2 Develop energy efficiency testing procedures for CFL and electric motors. 2.3b.3 Choose model laboratories for reference, and test energy efficiency of CFL and electric motors samples. 2.3b.4 Test CFL and electric motors samples in various independent and private testing facilities. 2.3b.5 Compare and evaluate findings.	Energy Efficiency Testing Procedures for CFL and electric motors samples Consistency evaluation of testing results findings for CFL and electric motors	O O .	0 0 • •	Progress reports to NDRC	Commitments for altocation of public budget on product testing and certification increased. Sustained and increased interest of public officials and others involved in MRAs on product testing and certification.
Output 2.4: Progress Evaluation on Implementation Status of China Energy Label	2.4.1 Energy Efficiency data collection for target products; methodology development for market investigation on energy efficiency 2.4.2 Conduct market research annually for refrigerators, air conditioners, electric motors, CFLs, and rice cookers; evaluate implementation status of labeling procedures	Market research reports on energy efficiency for the five above-mentioned products	0	I and to be updated in last year	Report on model of data collection and reporting procedures for China.	 Country willing to collect data once shown importance of regular data collection to monitor implementation and aid ES&L program refinements. Manutacturers willing to cooperate and provide data, as long as the task is not onerous.
Component 3: ES&L N OUTCOME: Increased Output 3.2: ES&L Publicizing Conference	Component 3: ES&L Manufacturer Support Program OUTCOME: Increased access to information and enhanced technical knowledge of local appliance/equipment manufacturers on the manufacture of EE products. Output 3.2: ES&L Output 3.2: ES&L Output 3.2: ES&L Output 3.2: ES&L on energy efficiency standards and labeling for room air conditioners and ballasts conficience to educate conference and promote ES&L to • Coverage of activities • Education and promote access to information of the manufacture of EE products. • Documentation of publicizing activities • Too	 technical knowledge of local ap Education and promotion materials Attendance of 100 companies at the conference Conference Coverage of activities 	• 0 • 0	manufacturers on 100	 the manufacture of EE products. Documentation of publicizing activities 	Manufacturers open to new ideas on ways to improve their products.

Outputs	Activities	Objectively V Indicators	ectively Verifiable Indicators Baseline	Target	Means of Gauging Success	Critical Assumptions
	manufacturers and retailers in Year Four	through major media channels				
Output 3.3: Onsite Inspection of Enterprises	3.3.1 Organize enterprise inspections by experts—evaluate procedures and technologies. 3.3.2 Discuss with enterprises on their technological challenges and	 Onsite inspections of around 20 enterprises. Report on technological challenges and policy needs of high efficiency 	0 0	• - 20	Documentation of onsite inspection	Other factors that also affect manufacturer attitudes align so that BRESL's limited efforts produce an attitude shift.
	policy needs. 3.3.3 Evaluate progress toward formation of "Alliance of Energy Efficient Labeling Enterprises" 3.3.4 Organize discussions between enterprises and local finance institutions on financing of energy saving products.	products • Administration Regulation of 'Alliance of Energy Efficient Labeling Credit Enterprises'	• None	-		
COMPONENT 5: ES& OUTCOME: Promote t	COMPONENT 5: ES&L Pilot projects in China OUTCOME: Promote the regional ES&L harmonization					
Output 5.2: Maintenance of Database and Website of Products with EEL	5.1.1 Develop databases for rice cookers and electric fans 5.1.2 Update databases for the other products 5.1.3 Daily maintenance of China's Energy Efficient Labeling Website	 Complete and updated database on products with EEL 		Other targets are pending for RPMU	Updated database and necessary information platform	Manufacturers willing cooperate and provide data, as long as request not onerous.
Output 5.5: Take the Lead in Activities and Conference on ES&L Harmonization of Refrigerators, Ballasts, Electric motors, and Electric rice cookers.	5.5.1 Take the lead in harmonization activities about ES&L of refrigerators, ballasts, electric motors, and electric rice cookers. 5.5.2 Hold a conference on ES&L harmonization of refrigerators, ballasts, electric motors, and	Feasibility evaluation on ES&L harmonization of refrigerators, ballasts, electric motors, and electric rice cookers Oversea capacity building training sessions provided by China.		•	Progress reports to NDRC	Useful 'FA can be provided within a limited budget Related government support on the harmonization work and project activities Effective project
	electric rice cookers. 5.5.3 Support the capacity-building activities of other participating countries in developing and implementing ES&L of refrigerators, ballasts,	cy Cillia				coordination at the national and/or regional levels

Section Assessment	CHRICAL ASSUMPTIONS	
Money of Course State of State	vicans of Gauging Success	
ifiable Indicators	Target	
Objectively Verifiable Indicators	Baseline	
Objectively V	Indicators	
A veit iting		electric motors, and electric rice cookers.
Outsute	Cuthurs	

CHAPTER V MANAGEMENT ARRANGEMENTS

Given the past experience with UNDP-supported project, UNDP seeks to implement an innovative management approach based on a partnership where accountability and responsibility for managing and achieving project outputs are equally shared among the BRESL participating countries. The partnership will be based on strengthened management at the regional level and the national level. The BRESL consists of two levels activities: (i) enhancing the regional cooperation/ multi-recognize and sharing the best practices of energy efficiency standard and labeling (EESL), and (ii) developing and implementing country-specific strategies and activities for energy efficiency standard and labeling (EESL) to overcome the barriers of reducing the energy consumption within each national context. The organizational structure is shown as follows:

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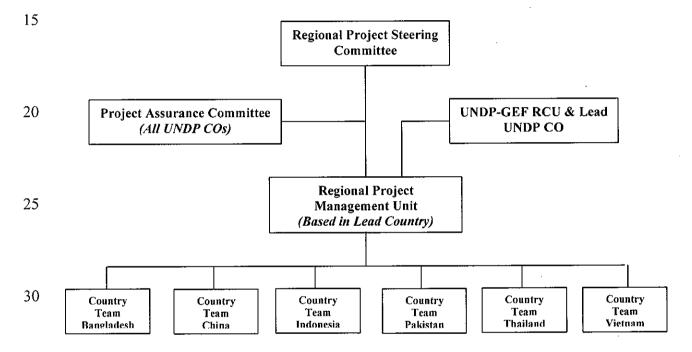
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BRESL Project Organizational Structure

Regional Coordination and Implementation Arrangements

The management structure of the BRESL project will mirror the aforementioned two-track approach, and will be at 2 levels. The first level will mainly be for the facilitation of regional cooperation. A Regional Project Steering Committee (RPSC) will be established and will comprise of the representatives of the UNDP-GEF RCU, UNDP China CO, Country Coordinator, NDRC, CSC Director, Regional Project Management Unit (RPMU) Director. The RPSC will play the role of an advisory committee. The RPSC member will also be invited to participate in the annual project review meetings. The Chairperson of the RPSC will be elected on a rotating basis among the participating countries. The RPMU will be also established to be responsible for coordinating and implementing the regional and national activities of the project. The RPMU Director will serve as the Secretary of the RPSC. BRESL will be Nationally-Executed (NEX) on behalf of the participating countries by China as the host country. It will assume the overall responsibility of ensuring that all activities are executed accordingly and as per the approved Project Document. The National Development and Reform Commission (NDRC) will be the Implementing Partner (or Executing Agency)

for the BRESL project while the China Standard Certification Center (CSC) is the Designated Implementing Partner (or Designated Implementing Agency).

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The Regional Project Steering Committee (RPSC) will be established with the key responsibilities as follow: (a) Act as the main approving body for the execution of major decisions regarding the Project implementation and other related ES&L activities in the participating countries; (b) Endorse to the CTs the issuance of governments' ES&L policies and guidelines; (c) Decide on issues concerning delineation of thrusts and directions of the different on-going and pipeline ES&L projects; (d) Undertake yearly meetings to monitor and evaluate the progress of the BRESL Project; (e) Oversee and monitor the activities of all concerned government agencies involved in related ES&L projects development and adopt necessary measures to ensure that the said agencies shall fulfill their responsibilities; and (f) Recommend to the NDRC National Project Director any proposed policy and direction such as revision of the BRESL Project Document, legislative and executive matters, financial schemes, etc. As a minimum, the RPSC will meet at least once a year, allowing for the stakeholders to review the progress with the project implementation and to agree on a coordinated annual project implementation strategy and plan.

UNDP-China, together with the UNDP-GEF Regional Technical Advisor for Climate 20 Change in the Asia-Pacific region will carry out the GEF oversight. Working in conjunction with the various project partners, UNDP-China will be responsible for monitoring and evaluation (M&E), including organizing project reviews, approving annual implementation work plans and budget revisions, monitoring progress, identifying problems, suggesting actions to improve project performance, facilitating timely delivery of project inputs, and provide linkages to the other sub-regional, Asia-Pacific regional and global initiatives. All M&E functions will be carried out in line with standard UNDP and UNDP-GEF procedures. UNDP China will also provide country office support for all the activities of the project as agreed with the implementation partner of China.

As the Implementing Partner for this regional project, China's NDRC will appoint a Regional Project Director (RPD) to be in charge of overall responsibilities, including planning, coordination, administration and financial management of the project with support by UNDP-China. The RPD will be responsible for the achievement of the project objectives, for all projects' reporting, including the submission of Annual Work Plans (AWP) and financial reports. He/She will ensure the delivery of the project outputs and the judicious use of the project resources. This will ensure that expected outputs are delivered using the most efficient and cost-effective implementation strategies and procedures. The RPD will be also a member of the BRESL RPSC. As the project's Implementing Partner, the NDRC will also provide in-kind contribution to implement the BRESL project.

As the Designated Implementing Partner for this regional project, the China Standard Certification Center (CSC) will take responsibility of supporting NDRC and UNDP-China in managing and implementing the BRESL project. The Director of CSC will be a member of the BRESL RPSC. At the same time, the director will also provide guidance to the RPMU Director to manage the project. The CSC will also provide the overall guidance and approval of all operational activities and will report to the Implementing Partner on achievement of project results.

A Regional Project Management Unit (RPMU) will be established by UNDP-China, together with the NDRC and CSC. The RPMU will be responsible for the day-to-day management of all the project activities including those on capacity building, demonstration sub-projects and dissemination activities both at the regional and national level. At the same time, the RPMU will undertake some regional activities directly if needed. RPMU will be managed by a RPMU Director, who will be supported by three staff members.

A Project Assurance Committee (PAC) will be established with the main responsibility of monitoring the project implementation process and achievements. The Energy Focal Points of UNDP Country Offices (UNDP-COs) in the BRESL countries will be members of the PAC. They will also be called upon periodically to contribute inputs on the relevance of BRESL activities to the on-going and planned national level energy efficiency and related initiatives. Each PAC member will be responsible for the coordination of project activities and activities of the organizations he/she represents to avoid duplication of effort. On request from the RPMU, the PAC will provide guidance on the execution of project activities.

Relevant regional activities will be subcontracted to, and executed by appropriate regional organizations with the expertise and time on mutually agreed terms. Regional organizations, which have the comparative advantage vis-à-vis the relevant regional activities, will be designated as the sub-contractor for those activities. One mechanism to determine such possible comparative advantages is procurement via Open International Competition or Limited International Competition, as per UNDP Results Management User Guide.

20 National Coordination and Implementation Arrangements

The second level will mainly be on the implementation of the Country Teams (CTs) in each BRESL country. The CTs, made up of representatives from government, the private sector and civil society including NGOs will ensure that the national activities are carried out in coordination with all the parallel activities. Each CT will provide support as per agreed work plan to the BRESL implementation at the regional level to ensure the maximum outputs and achievement of the project. Each country will decide on the most appropriate person to chair the CT. Each CT will appoint their own national experts, as needed, in accordance with the agreed national activities to be carried out under the BRESL project. Each country will appoint a National Project Coordinator (NPC) who will work full time on the project and paid from its country budget. The NPC will also be responsible for the day-to-day management and implementation of all national project activities.

In each BRESL country, the national level activities that were identified and defined by the country will be implemented by its CT. These are activities that address specific barriers to ES&L at the national level, delivering on-the-ground activities including appliance and/or equipment testing utilizing local experts and involving entities working on ES&L, as well as those that will contribute to the regional ES&L harmonization efforts. This is to ensure maximum impacts and visibility. It will also give country's ownership of the project, maximum local participation, particularly of the private sector, NGOs and local authorities, and more importantly the consumers. CTs may subcontract certain activities to regional and international experts where necessary.

National government professionals and other relevant national stakeholders from the private sector and civil society will, to the extent possible, manage, coordinate and implement the in-country activities. The CTs will upon request of the RPMU and as per agreed work plans be provided with external technical assistance for implementation of specific in-country activities. Relevant regional organizations, national consultants, regional consultants or international consultants can provide such needed expertise to the RPMU as needed.

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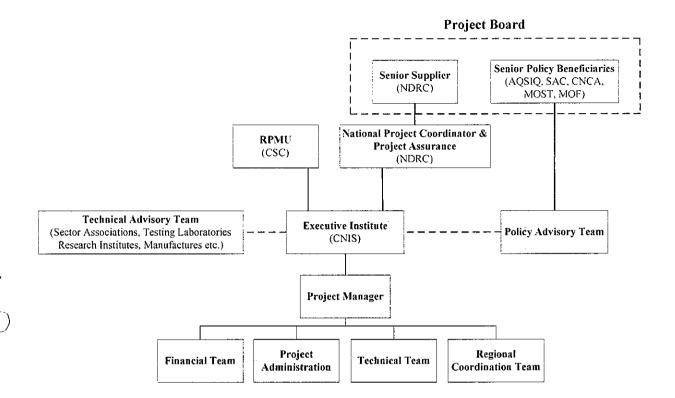
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China's Country Team (CT) Management Structure



Note: NDRC = National Development and Reform Commission

AQSIQ = General Administration of Quality Supervision, Inspection and Quarantine

SAC = Standardization Administration of China

CNCA = Certification and Accreditation Administration of China

MOST = Ministry of Science and Technology

MOF = Ministry of Finance

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10 CNIS = China National Institute of Standardization

The Project Board is the group responsible for making by consensus, management decisions for a project when guidance is required by the Project Manager, including recommendation for UNDP/Implementing Partner approval of project plans and revisions. In order to ensure UNDP's ultimate accountability, Project Board decisions should be made in accordance to standards that shall ensure management for development results, best value money, fairness, integrity, transparency and effective international competition. In case a consensus cannot be reached within the Board, final decision shall rest with the NDRC. In addition, the Project Board plays a critical role in UNDP commissioned project evaluations by quality assuring the evaluation process and products, and using evaluations for performance improvement, accountability and learning. Project reviews by this group are made at designated decision points during the running of the project, or as necessary when raised by the Project Manager. This group is consulted by the Project Manager for decisions when Project Manager's tolerances (normally in terms of time and budget) have been exceeded (flexibility). Based on the approved annual work plan (AWP), the Project Board may review and approve project quarterly plans when required and authorizes any major deviation from these agreed quarterly plans. It is the authority that signs off the completion of each quarterly plan as well as authorizes the start of the next quarterly plan. It ensures that required resources are committed and arbitrates on any conflicts within the project or negotiates a solution to any problems between the projects and external bodies. In addition, it approves the appointment and responsibilities of the Project Manager and any delegation of its Project Assurance responsibilities.

The Project Board consists of three roles: (1) an Executive: individuals representing the project ownership to chair the group; (2) Senior Supplier: individual or group representing the implementing partner who is the main party responsible for project execution. (3) Senior Policy Beneficiary: individual or group of individuals representing the interests of those policy-makers who will ultimately benefit from the project. The Senior Policy Beneficiary's primary function within the Board is to ensure the realization of project results from the perspective of project beneficiaries.

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Project Assurance is the responsibility of NDRC. The project assurance role supports the Project Board by carrying out objective and independent project oversight and monitoring functions. This role ensures appropriate project management milestones are managed and completed. Project Assurance has to be independent of the Project Manager; therefore, the Project Board cannot delegate any of its assurance responsibilities to the Project Manager. The Programme Manager assigned by NDRC holds this role.

National Project Coordinator: The Project Coordinator has the authority to supervise the management of the project on behalf of the Implementing Partner within the constraints laid down by the Board. The Project Coordinator's prime responsibility is to ensure that the project produces the results (outputs) specified in the project document, to the required standard of quality and within the specified constraints of time and cost.

Project Manager: The Project Manager has the authority to run the project on a day-to-day basis on behalf of the Implementing Partner within the constraints laid down by the Board. The Project Manager is responsible for day-to-day management and decision-making for the project. The Project Manager's prime responsibility is to ensure that the project produces the results (outputs) specified in the project document, to the required standard of quality and within the specified constraints of time and cost.

Policy/Technical Advisory Teams appointed by the Project Board to help the Project manager and Project Technical Teams on providing policy and technical support as required by the needs of project tasks. Each Advisory Team will work on specific issue, as assigned by the Project Board.

The Project Support role provides project administration, management, technical support and regional coordination to the Project Manager as required by the needs of the individual project or Project Manager. It is necessary to keep Project Support and Project Assurance roles separate in order to maintain the independence of Project Assurance.

CHAPTER VI PROJECT BUDGET

This chapter depicts project budget in matrix. It presents summary cost of China's contribution (co-financing) by project component and management, and the budget for project implementation in China by project activity and year of implementation.

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Summary Cost of Each BRESL Project Component (US\$)

% **Project Component** Baseline Incremental **Total Cost** 7,245,700 1,611,400 8,857,100 24.7 1. ES&L Policy Making Program 9,057,900 2,607,500 11,665,400 32.5 2. ES&L Capacity Building Program 791,400 6,064,600 16.9 3. ES&L Manufacturer Support Program 5,273,200 710,900 4. ES&L Regional Cooperation Program 3,240,700 3,951,600 11.0 9.3 5. ES&L Pilot Projects 2,026,600 1,298,800 3,325,400 1,236,800 780,000 2,016,800 5.6 Project Management Unit Support 75,000 of which Monitoring and Evaluation 0 Total 28,080,900 7,800,000 35,880,900 100

China's Contribution to BRESL Project, by Project Component and Management (US\$)

Overanization		Proj	ect Compor	ients		Project	Total
Organization	1	2	3	4	5	Mgm't	Totai
GEF-RAF(1)	78,000	1,052,500	168,750	122,000	328,750	250,000	2,000,000
Co-Financing(2)	2,200,000	2,200,000	2,200,000	2,200,000	2,200,000	0	11,000,000
Total (1+2)	2,278,000	3,252,500	2,368,750	2,322,000	2,528,750	250,000	13,000,000

The China co-financing budget (baseline) is US\$ 11,000,000. The largest portion is US\$ 10,068,000 for analysis and research, equipment, training for test laboratories for six products, etc.. US\$ 932,000 is for in-kind contribution for the project management, management office, staff, etc.

China BRESL Project Budget

Antivity Agency Source	Source	Code	Description	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Component 1: ES&L Policy-Making Program	Policy-Maki	ng Program							
Activity 1.1: Revise C	China's Admi	inistration Re	Activity 1.1: Revise China's Administration Regulation on Energy-Efficiency Labeling			-			
CNIS	GEF	71300	National experts	000,6	10,000	0	0	0	
CNIS	GEF	71600	Travel	009	1,000	0	0	0	·)
CNIS	GEF	75700	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	2,500	3,500	0	0	0	
CNIS	GEF	74500	Miscellaneous Expenses	500	900 15,400	0.0	0 0	0 0	28,000
Activity 1.2: Sharing of ES&L Implementation Experience	z of ES&L 1	Implementa	tion Experience						
CNIS	GEF	71300	National experts	0	2,500	2,500	2,500	2,500	1 3 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CNIS	GEF	71600	Travel	0	6,250	6,250	6,250	6,250	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
CNIS	GEF	75700	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	0	3,750	3,750	3,750	3,750	1.3
				0	12,500	12,500	12,500	12,500	50,000
			Component Total	12,600	27,900	12,500	12,500	12,500	78,000
Component 2: ES&L Capacity-Building Program	Capacity-Bu	ilding Progra	ım						
Activity 2.1: Traning for ES&L Local Enforcement Officials CNIS GEF 71300 National exp	for ES&L Lo GEF	ocal Enforcen 71300	nent Officials National experts	17,000	44,000	0	0	0	() () () () () () () () () ()
CNIS	GEF	71600	In-region travel	3,000	7,000	0	0	0	·) ·) ·)
			Meetings and workshops (including	-					
CNIS	GEF	75700	unches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	90009	14,000		0	0) () ()
				26,000	65,000	0		0	91,000

Activity 2.2: Development/Revision of EE Standard and Label Implementation Rules Activity 2.2.1 Develop China Energy Label Implementation Rule for Rice Cookers

• : • :

		29,500				92,500					27,900					93,200
0 0	0	0	,	0 0	0	0		0	0	0	. 0	0	0		>	0
0	. 0	0) 	. 0	0		2,000	15,000	2,900	006'61	0	0		>	0
0 0	0	0		3,500 21,000	9,000	30,500		800	000'9	1,200	8,000	3.600	34,500	8 500	,	46,600
1,500	2,800	16,300		35,000	8,000	46,500		0	0	Φ	0	3.600	34,500	8 500		46,600
1,200	2,000	13,200	. 6	10,000	4,000	15,500		0	0	0	0	, O	0	· C	.	0
In-region travel National experts Meetings and workshone fincluding	lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		Activity 2.2.2 Revise Energy Efficiency Standard for Air Conditioners	In-region travel National experts	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		Activity 2.2.3 Revise China Energy Label Implementation Rule for Air Conditioners	In-region travel	National experts	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		Activity 2.2.4 Revise Energy Efficiency Standard for Electric Motors	National experts	Meetings and workshops (including lunches, dinners, banquets, room rent,	coffee break, projectors, microphones, background boards, etc.)	
71600 71300	75700		ciency Stand	71500	75700		rgy Label Im	71600	71300	75700		iciency Stand	71300	00232	00/5/	
GEF GEF	GEF		Energy Effi	GEF	GEF		: China Ene	GEF	GEF	GEF		: Energy Effi GFF	GEF	100		
CNIS	CNIS		Activity 2.2.2 Revise	CNIS	CNIS		Activity 2.2.3 Revise	CNIS	CNIS	CNIS		Activity 2.2.4 Revise	CNIS	SHIC	CINIO	

Activity 2.2.5 Revise Energy Efficiency Standard for Fluorescent Lamp Ballasts

	· / · · · · · · · · · · · · · · · · · ·	92,000		() () () () ()	28,400		*	55,000	91,500				2000	() () ()	* 1 * 3 * 3 * 1	80,000
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0	0	0	2,800	5,100	28,400		0	0	0			0	0	• 0	0	0
4,000 32,000	8,500	44,500	0 0	0	0		0	0	0			0	0	0	0	0
4,000	8,500	47,500	0 0	0	0		36,500	10,000	46,500		Labs	0	0	0	. 0	0
0	0	0	Ballasts 0 0		: o	ture	30,000	1,2,000	45,000	ng Labs	arious Testing	48,500	2,000	1,500	25,000	80,000
In-region travel National experts	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		plementation Rule for Fluorescent Lamp Ballasts In-region travel National experts	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		Activity 2.3: Strengthening of National and Regional Testing and Certification Infrastructure	ficiency Testing Labs National experts	Travel		Activity 2.3.2: Consistency Comparison or Round Robin Testing Between Various Testing Labs	Activity 2.3.2.1: Consistency Comparison or Round Robin Testing for CFLs Between Various Testing Labs	National experts	Travel	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	Miscellaneous expenses (including samples and testing expenses)	
71600	75700		rrgy Label Im 71600 71300	75700		tional and Re	of Energy Eff 71300	21600		oarison or Ro	nparison or R	71300	71600	75700	74500	
GEF GEF	GEF		p China Ene GEF GEF	GEF		ening of Na	Inspection GEF	GEF		stency Comp	sistency Cor	GEF	GEF	GEF	GEF	
CNIS	CNIS		Activity 2.2.6 Develop China Energy Label Implementation Rul CNIS GEF 71600 In-region trave CNIS GEF 71300 National exper	CNIS		Activity 2.3: Strength	Activity 2.3.1: Onsite Inspection of Energy Efficiency Testing Labs CNIS GEF 71300 National experts	CNIS		Activity 2.3.2: Consis	Activity 2.3.2.1: Cons	CNIS	CNIS	CNIS	CNIS	

Activity 2.3.2.2: Consistency Comparison or Round Robin Testing for Electric Motors Between Various Testing Labs

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		80,500			87,000	793,500					29,150			70,600	99,750
0 0	0	0 0	32,000	7,000	6,000	45,000		0	0	0	0	12 400	4,100	16,500	16,500
. 0 .0	0	0 0	0	Q	0 0	48,300		12,000	2,000	15,150	29,150	13 000	4,000	17,000	46,150
0 0	0	0 0	0	0	0 0	129,600		0	0	0	0	13 500	5,000	18,500	18,500
48,500 5,000	1,500	25,500 80,500	30,000	6,000	6,000	390,900		0	0	. 0	0	13 500	5,100	18,600	18,600
				-		179,700									
0 0		0 0	0	0	00	179		0	0	- O , ,	0	C	0	0	0
National experts Travel	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	Miscellaneous expenses (including samples and testing expenses)	ntation Status of China Energy Label National experts	functions and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	Subscriptions (Database)	Component 2 Total	rogram	National experts	Travel	Meetings and workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)		National experts	Travel		Component 3 Total
71300 71600	75700	74500	on Impleme 71300	75700	72100		er Support P	71300	71600	75700		Enterprises	71600		
GEF	GEF	GEF	s Evaluation GEF	GEF	GEF		Manufactur	uoncizing C GEF	GEF	GEF		nspection of GEE	GEF		
CNIS	CNIS	CNIS	Activity 2.4: Progress Evaluation on Implementation Status of CNIS GEF 71300 National expe	CNIS	CNIS		Component 3: ES&L Manufacturer Support Program	Activity 3.2. ESEE I	CNIS	CNIS		Activity 3.3: Onsite Inspection of Enterprises	CNIS		

Component 5: ES&L Pilot Projects Activity 5.2: Maintenance of Datab CNIS GEF	L Pilot Projec mance of Dat GEF	cts tabase and Wo 71300	Component 5: ES&L Pilot Projects Activity 5.2: Maintenance of Database and Website of Products with EEL CNIS GEF 71300 National experts	8,000	15,000	15,000	15,000	15,000	68,000
Activity 5.5: Take tl	ne Lead in A	ctivities and C	Activity 5.5: Take the Lead in Activities and Conference on ES&L Harmonization of Refrigerators, Ballasts, Electric motors, and Electric Rice Cookers	frigerators, Ba	allasts, Electrio	c motors, and I	Electric Rice (Sookers	
Activity 5.5.1: Take	the Lead in	Activities and	Activity 5.5.1: Take the Lead in Activities and Conference on ES&L Harmonization of Refrigerators	efrigerators					
CNIS	GEF	71300	National experts	0	6,840	6,850	8,100	8,100	
CNIS	GEF	71200	International experts	0	2,950	2,930	2,950	2,950	
CNIS	GEF	71600	Travel	. 0	3,100	3,150	3,200	3,200	
CNIS	GEF	75700	Harmonization Pilots & Workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	• · · · · · · · · · · · · · · · · · · ·	11,800	0	0	0	
CNIS	GEF	74100	Documentation (development & print)	0	780	400	400	800	
				0	25,470	13,330	14,650	15,050	68,500
Activity 5.5.2: Take	the Lead in	Activities and	Activity 5.5.2: Take the Lead in Activities and Conference on ES&L Harmonization of Ballasts	sallasts			,		
CNIS	GEF	71300	National experts	0	7,150	7,150	7,150	7,150	- 11 - 20 - 21 - 32
CNIS	GEF	71200	International experts	0	2,100	2,100	2,100	2,100	
CNIS	GEF	71600	Travel		2,900	2,900	2,900	2,900	
CNIS	GEF	75700	Harmonization Pilots & Workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	0	12,000	0	. 0		
CNIS	GEF	74100	Documentation (development & print)	0	750	750	750	750	· / / / / / / / / / / / / / / / / / / /
				0	24,900	12,900	12,900	12,900	63,600
A retinition & & 2. Tales	ai boo Ledin	A official and	Assivity \$ \$ 3. Take the Lead in Astivities and Conference on FS&L Harmonization of Flectric Motors	lectric Motor	ý				

Activity 5.5.3: Take t	the Lead in	Activities and	Activity 5.5.3: Take the Lead in Activities and Conference on ES&L Harmonization of Electric Motors	Electric Moto	L2				
CNIS	GEF	71300	National experts	0	7,800	7,800	7,800	8,000	
CNIS	GEF	71200	International experts	0	2,100	2,200	2,200	2,800	
CNIS	GEF	71600	Travel	0	3,150	3,150	3,150	3,150	
CNIS	GEF	75700	Harmonization Pilots & Workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	0	12,500	0	0	0	

2,800	22,400 8,800 11,000 10,100	2,150	60,050	328,750
850 14,800	7,000 2,500 2,900	450	12,850	70,600
500 13,650	6,800 2,100 2,900 0	450	12,250	68,450
500 13,650	6,800 2,100 2,900 0	450	12,250	67,130
950 26,500	Cookers 6,800 2,100 2,900	800	22,700	114,570
0 (1	f Electric Rice 0 0 0 0 0 0,	t) 0 t	0	8,000
Documentation (development & print)	Conference on ES&L Harmonization of Electric Rice Cookers National experts O 6,800 International experts Travel Harmonization Pilots & Workshops (including lunches, dinners, banquets, room rent, coffee break, projectors, microphones, background boards, etc.)	Documentation (development & print)		Component 5 Total
74100	Activities and 71300 71200 71600 75700	74100		
GEF	the Lead in A GEF GEF GEF GEF	GEF		
CNIS	Activity 5.5.4: Take the Lead in Activities and Conference on CNIS GEF 71300 National expeCNIS GEF 71200 International CNIS GEF 71600 Travel Harmonizatio (including luncholis)	CNIS		

Contribution to Regional Activities	000 050
Сотронені 2 Сотронені 3	000,022
Component 4	122,000
Contribution to PMO Costs	250,000

CHAPTER VII PROJECT RISKS AND ASSUMPTIONS

While all efforts are made to ensure the effective design and implementation of the project activities, there are some risks that have to be addressed to ensure success of the project. The principal risks, which can potentially hinder the successful project implementation and/or reduce project effectiveness, relate to: (a) the sustainability of the support by key stakeholders in the participating countries; (b) lack of, or fading, interest of the private sector (particularly appliance/equipment manufacturers and suppliers); (c) ineffective project coordination at the national and/or regional levels; (d) failure of EE products to perform as claimed by manufacturers resulting to customer dissatisfaction; (e) unabated proliferation of illegally traded and unreliable EE equipment/appliances; and, (f) unwillingness of consumers to buy EE products due to bad experiences in the past and high initial cost may lead to failure of the project to induce increased sales and widespread use of EE equipment and appliances.

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To address these risks, the project has to establish effective means to monitor and to the extent possible mitigate these risks. Mitigation measures include a strong emphasis on hands-on project management and participation of each country, mobilizing private sector participation and a continuous dialogue between the project's donors, implementing Partner, executing agency, regional organizations and national governments. The different risks that were identified during the BRESL project formulation exercise and the recommended mitigation measures are the following:

TABLE 2: Summary of Risk Mitigation Measures for the BRESL Project

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Risk	Level of Risk	Mitigating Actions
Ineffective regional coordination and collaboration with regional organizations Participating countries may continue to carry out ES&L activities on their own, losing the potentials for synergetic work towards wider achievement of ES&L harmonization objectives.	Low	 Regular meetings of the Regional PSC to exchange work programmes and implementation plans. Prepare meeting plans in advance to ensure participation of participating countries.
Lack of cooperation by the private sector Private sector not participating adequately in the project due to the economic slump, private enterprises may be reluctant to invest in EE products.	Moderate	Promote EE products among consumers, especially when cost of energy is of their concern at present.
 EE Technology Risk Failure of EE products (equipment and appliances) to perform as claimed by manufacturers resulting to customer dissatisfaction. Proliferation of illegally traded and unreliable EE products. 	Moderate	 Serious implementation of EE standards, labeling and warranty requirements by EEI and TISI. Consumer education activities focus on use and application of wide range of EE products as well as consumer protection programs of the government (EGAT).

Risk	Level of Risk	Mitigating Actions
Government procurement - China Government may not adopt EE products by the end of this project duration.	Low	Already invited PCD, who is in charge of green procurement to join the project's senior beneficiaries.
OVERALL		Moderate

Based on enquiries from stakeholders made through the BRESL Survey, the overall project risk is moderate. BRESL is designed to facilitate close coordination and consultation of the relevant stakeholders in each participating country in each of the proposed activities. Activities that provide policies, product standards, guidelines and incentives, tools and procedures to implement ES&L programs, information and education are sufficient to ensure mitigation of the risks. Government agencies (particularly those with the ES&L mandate), their partners and a number of regional organizations have committed to financially support the project and use part of their budget in the next 5 years for BRESL.

At the inception stage of BRESL the project risks and assumptions will be reviewed, and where necessary additional project risks will be identified. In addition, also as part of the project inception activities, a detailed risk management strategy for project implementation will be prepared.

CHAPTER VIII MONITORING AND EVALUATION PLAN

Project monitoring, evaluation and dissemination will be undertaken in accordance with UNDP and GEF established procedures. The executing agency will be required to prepare Quarterly Project Reports (QPR) and combined Annual Project Reports and Project Implementation Review reports (APR/PIR) to UNDP. The QPR will provide the summary of the project results, progress and variances from the original plan, implementation issues, and steps being taken to address these issues, and work plans for the next quarters for review and endorsement.

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Quarterly work plans will be prepared based on the overall project objectives and performance indicators. These will be used to measure performance. It is through these reports and meetings that the project approach and activities will be formally refined. The PMO will present the project status and accomplishment to the PSC every quarter. A quarterly work plan based on project objectives and performance indicators will be presented, evaluated and adjusted as and when necessary.

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The APR/PIR will provide a more in-depth summary of work-in-progress, measuring performance against both implementation and impact indicators. Any adjustments in project approach will be reported to the Regional Project Steering Committee who will evaluate and approve the adjustments recommended.

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The project is subject to two in-depth independent reviews. One will be conducted in the midterm (first quarter of the third year) and the other will be scheduled upon project termination. A terminal report would be completed prior to the completion of the project and would detail project achievements and lessons learned. Additional independent evaluation may be conducted if UNDP and the GEF deem it necessary.

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The project will coordinate with all the project partners. The continuous monitoring and evaluation of all project activities, even after completion of the project period, will bring sustainability of the project with desired benefits in the long run. All evaluation reports will be uploaded to the project website for widespread dissemination. A formal Monitoring and Evaluation Strategy will be developed and implemented in the full-scale project to track the activities and contributions of the activities by all the project partners, in terms of both in-cash and in-kind contributions as detailed in the attached letters of commitment. These M&E findings will be reported on in the project's two in-depth independent reviews.

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To accord proper acknowledgement to GEF for providing funding, a GEF logo will appear on all relevant publications and documents produced by the project, including among others, project hardware purchased with GEF funds. Any citation from any of the BRESL project publications and documents will also accord proper acknowledgment to GEF. The UNDP logo should be more prominent and separated from the GEF logo if possible, as UN visibility is important for security purposes.



Project Title: UNDP/GEF Barrier Removal to the Cost-effective Development and Implementation of Energy Efficiency Standards and Labeling Project (BRESL)

Period Covered: January 1 - December 31, 2010

Strategy & Expected	Indicators (Outcome and	Baseline	Target (by Dec. 31,	Means of	Key Annual Targets/ outputs for	Key Activities in	Updated Risk (Outcome and		2010 Tir	neframe	
Outcomes/ Outputs	Output Level	Dasellile	2013)	Verification	Year 2 (2010)	Year 2 – 2010	Output Level)	Q1	Q2	Q3	Q4
Promotion of energy efficient product use, reduction of energy	Reduction of GHG emissions from thermal power generation by EOP, MMT/yr		2.24 Mt/yr in year 2013 (Calculation based on UNDP's BRESL baseline analysis sheet)	Final Report in Year 5		The project activities are continued	The sustainability of the support by key stakeholders in the participating countries can not be insured Effective project coordination at the national and/or regional	Х	Х	X	X
in China	Reduction in the annual growth rate of GHG emissions from thermal power generation by EOP, %						Failure of EE products to perform as claimed by manufacturers resulting to customer dissatisfaction				
OBJECTIVE: Removal of barriers to the successful implementation of energy standards and labeling policies and programs in China	Reduction in total electricity use in the residential, commercial and industrial sectors by EOP, GWh/yr		2,048 GWh/yr in year 2013	Final Report in Year 5		The project activities are continued	Continued political support by governments in China can not be insured.	X	X	X	X .
	Market share of energy efficient appliances and equipment by EOP, %	0	5-10				Manufacturers are not open to new ideas on ways to improve their products, and consumers can not aware the importance of energy saving and purchase energy-efficient products on their own initiative				
 Strategy & Expected Outcomes/	Indicators (Outcome and	Baseline	Target (by Dec. 31,	Means of Verification	Key Annual Targets/ outputs for	Key Activities in Year 2 – 2010	Updated Risk (Outcome and		2010 Tii	meframe	
Outcomes/ Outputs	Output Level		2010)	vernication	Year 2 (2010)	1 Gai 2 - 2010	Output Level)	Q1	Q2	Q3	Q4

	Policy Making Progr ing China's ES&L leg		ions, and rele	vant agencies' a	wareness of g	global ES&L		dusi di Alba Kudhilasi Sik Kusani Kada		
Strategy: The Research of Medium- and Long-term Implementation Plan of China Energy Efficiency Standards, Labels, and Energy Saving Certification for Energy-using Products Outputs: The energy saving potential, social and economic benefit of various energy-using products are studied	The rough draft report of energy saving potential, social and economic benefit of various energy-using products	O				Conduct wide investigation and comprehensive research on various energy-using products	Some critical industry, market, and energy efficiency data may be difficult to obtain		X	X
Strategy: International Publicity	Report on the design of specialized publicity and Promotion website	0	E .		1 progress report of design and construction of publicity and promotion website	Complete the design of the publicity and promotion website			X	X
Component 2: ES&L OUTCOME: Improve 2.1: Strategy: Training for	ed institutional and in Training Guide for	dividual ca 0	1	Provide the	Training guide	Finished the designing of training courses and	There may be some difficulties in recruitment	X	X	X
enforcement officials Outputs: Relevant	The reports of the training activities	0	1	Provide training reports in at least one city	training activities	training guide	of excellent training experts			
are trained to better carry out ES&L	The evidence of media coverage and dissemination of training activities	0	2	provide the evidence of at least 2 times of media coverage and				 		
				dissemination of training activities						

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De n c lat ru Ou ind sta	rategy: evelopment/Revisio of EE standard and oel implementation les utputs: The dustry and market atus, and	industry and market status, and development and implementation of EE labeling programs on CFLs	0	1	Provide the reports	The investigation reports of CFLs and fluorescent lamp ballasts	Finish the industry and market investigation of CFLs and fluorescent lamp ballasts			X	X
im lal CI lai	plementation of EE beling programs on FLs and fluorescent mp ballasts are	status, and development and implementation of EE labeling programs on fluorescent lamp ballasts									
St na te ce	crategy: crengthening of ational and regional sting and ertification frastructure	The onsite inspection reports of various labs			reports	reports	·	There may be some difficulties in recruitment of a comparatively large amout of high-quality techinial experts of each target product	Х	X	X
in: cc st m er		Energy efficiency testing procedures for CFLs	0		Provide the energy efficiency testing procedures for CFLs	Energy efficiency testing procedures for CFLs	Develop the general testing procedures for guiding the round robin testing (RRT)	Possible delays in samples transportation may slow down the progress of the activity			
evinm str. Error po o ree error po o con po evin po evin po error error evin po error erro	trategy: Progress valuation on inplementation attus of China inergy Label and policy suggestions in the progress of the progre	Market research model on energy efficiency of main energy-using products and evaluation model for China Energy Label policy implementation effect	0	2	Provide the two models	Maket research model and China Energy Label policy evaluation model	Develop scientific models with high maneuverability			X	X
	aneuverability are eveloped										

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5.2: Strategy: Maintenance of database and website of products with EEL Outputs: Maintenance of database and website of products with EEL	database and website of products with EEL	0	website of products with EEL	with EEL	Conduct high-quality maintenance of database and website of products with EEL			X	X
5.5: Strategy: Organization and conduct of the conference on ES&L harmonization of refrigerators, ballasts electric Motors, and electric rice cookers Outputs: Differences in ES&L of electric motors, ballasts and refrigerators in BRESL countries are investigated, and the harmonization feasibility is evaluated		0	Provide feasibility evaluation report on ES&L harmonization of electric motors	evaluation report on ES&L	Conduct international investigation and research on ES&L of refrigerators,ballasts and electric motors	Lacking effective organization of Technical Working Groups (TWG) activities may slow down the progress of the ES&L harmonization		X	X .



Project Title: UNDP/GEF Barrier Removal to the Cost-effective Development and Implementation of Energy Efficiency Standards and Labeling Project (BRESL)

Period Covered: January 1 - December 31, 2010

Strategy & Expected Outcomes/ Outputs	Indicators (Outcome and Output Level		Target (by	Means of	Authite tar	Key Activities in	Updated Risk (Outcome and Output Level)	2010 Timeframe				
		Baseline	Dec. 31, 2013)	Verification				Q1	Q2	Q3	Q4	
Promotion of energy efficient product use,	Reduction of GHG emissions from thermal power generation by EOP, MMT/yr Reduction in the annual growth rate of GHG emissions from thermal power generation by EOP, %		2.24 Mt/yr in year 2013 (Calculation based on UNDP's BRESL baseline analysis sheet)	Final Report in Year 5		The project activities are continued	The sustainability of the support by key stakeholders in the participating countries can not be insured Effective project coordination at the national and/or regional levels can not be insured Failure of EE products to perform as claimed by manufacturers resulting to customer dissatisfaction	X	X	X	X	
OBJECTIVE: Removal of barriers to the successful implementation of energy standards and labeling policies and programs in China	Reduction in total electricity use in the residential, commercial and industrial sectors by EOP, GWh/yr	0	2,048 GWh/yr in year 2013 Final Report in Year 5 The second of the sec			The project activities are continued	Continued political support by governments in China can not be insured.	X	Х	Х	Х	
	Market share of energy efficient appliances and equipment by EOP, %	0				Manufacturers are not open to new ideas on ways to improve their products, and consumers can not aware the importance of energy saving and purchase energy-efficient products on their own initiative						
Strategy &	Indicators		Target (by	Means of	Key Annual Targets/	Key Activities in	Updated Risk	2010 Timeframe				
Outcomes/ Outputs	(Outcome and Output Level	Baseline	Dec. 31, 2010)	Verification	outputs for Year 2 (2010)	Year 2 – 2010	(Outcome and Output Level)	Q1	Q2	Q3	Q4	

		Policy Making Progr ing China's ES&L leg		ions, and rele	vant agencies' a	wareness of g	jlobal ES&L,				
	Strategy: The Research of Medium- and Long-term Implementation Plan	The rough draft report of energy saving potential, social and economic benefit of various energy-using products	0			Complete the draft report	Conduct wide investigation and comprehensive research on various energy-using products	Some critical industry, market, and energy efficiency data may be difficult to obtain		X	X
)	Outputs: The energy saving potential, social and economic benefit of various energy-using products are studied and understood										
	Strategy: International Publicity	website	0	1	Submission of related report	1 progress report of design and construction of publicity and promotion website	Complete the design of the publicity and promotion website			X	X
)	Outputs: China Energy Efficiency standards, label, and certification related information are collected and compiled.	•									
)		l _ Capacity-Building Pi ed institutional and in		i pacity to devi	l elop and implem	ı ent ES&L					
	2.1: Strategy: Training for ES&L local	ES&L Local Enforcers		1	Provide the training guide		Finished the designing of training courses and training guide	There may be some difficulties in recruitment of excellent training	X	X	X
	enforcement officials	training activities	0	1	Provide training reports in at least one city	activities		experts			
	agencies and officials are trained to better carry out ES&L policies	The evidence of media coverage and dissemination of training activities	0	2	provide the evidence of at least 2 times of media coverage and dissemination of				 		
					training activities						

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Tt	^	4	Dunida tha	The	Finish the first start and				V	<u> </u>
industry and market status, and development and implementation of EE labeling programs on CFLs				investigation	market investigation of				X	X
The report of the industry and market status, and development and implementation of EE labeling programs on fluorescent lamp ballasts	0									
reports of various labs		50	reports	reports	efficiency testing labs as much as possible	amout of high-quality techinial experts of each target product		Х	х	Х
Energy efficiency testing procedures for CFLs	0	2	Provide the energy efficiency testing procedures for CFLs	Energy efficiency testing procedures for CFLs	testing procedures for guiding the round robin	samples transportation may slow down the				
Market research model on energy efficiency of main energy-using products and evaluation model for China Energy Label policy implementation effect	0	2	Provide the two models	Maket research model and China Energy Label policy evaluation model	Develop scientific models with high maneuverability				X	X
	industry and market status, and development and implementation of EE labeling programs on CFLs The report of the industry and market status, and development and implementation of EE labeling programs on fluorescent lamp ballasts The onsite inspection reports of various labs Energy efficiency testing procedures for CFLs Market research model on energy efficiency of main energy-using products and evaluation model for China Energy Label policy	industry and market status, and development and implementation of EE labeling programs on CFLs The report of the industry and market status, and development and implementation of EE labeling programs on fluorescent lamp ballasts The onsite inspection reports of various labs Energy efficiency testing procedures for CFLs Market research model on energy efficiency of main energy-using products and evaluation model for China Energy Label policy	industry and market status, and development and implementation of EE labeling programs on CFLs The report of 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5.2: Strategy: Maintenance of database and website of products with EEL Outputs: Maintenance of database and website of products with EEL	Maintenance of database and website of products with EEL	0		Provide high- quality maintenance of database and website of products with EEL	of database and website	Conduct high-quality maintenance of database and website of products with EEL			X	X
5.5: Strategy: Organization and conduct of the conference on ES&L harmonization of refrigerators, ballasts electric Motors, and electric rice cookers Outputs: Differences in ES&L of electric motors, ballasts and refrigerators in BRESL countries are investigated, and the harmonization feasibility is evaluated		0	1	Provide feasibility evaluation report on ES&L harmonization of electric motors	evaluation report on ES&L	Conduct international investigation and research on ES&L of refrigerators,ballasts and electric motors	Lacking effective organization of Technical Working Groups (TWG) activities may slow down the progress of the ES&L harmonization		X	X

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