Annual Project Report (UNDP conclusion)

[Name of project] MTEBRB, Date of report]: Jan 29, 2015

Project annual report rating

Item rated	*Rating provided*
Overall quality of the report	*4*
Does the project still fit with the Country office Strategic direction	*5*
Is the project still Relevant within the country setting	*5*
Sustainability	*4*
Efficiency: Financial performance (overall)	*5*
Efficiency: Financial performance (reporting period)	*5*
Effectiveness: Activity implementation (overall)	*4*
Effectiveness: Activity implementation (reporting period)	*4*
Partnership Effectiveness (if applicable)	*4*
Total	*4*

Partnership Effectiveness (only for joint inter-UN agency initiatives)

Overall assessment

This report looks fine, which gave the readers a clear picture of the main work done in 2014. One main shortcoming is that the language needs to be further polished. The implementation is also good, with high delivery rate of 91%.

Sustainability (either separate or as part of the overall assessment)

To secure the project sustainability, attention must be paid on integration of and balance between the bottom-up micro-effects and top-down macro-system and impacts during project implementation. First, as the most important stakeholder, farmers focus on real effects and benefits. To ensure the sustainability, real effects and benefits must be generated and acknowledged by farmers to encourage their spontaneous application. On the other hand, as it is a cross-sector, trans-industry and interdisciplinary mission to develop EE bricks and rural EE buildings, a comprehensive and long-term system and mechanism must be established to make the project sustainable.

The marketization of EE bricks and rural EE buildings is a dynamic and inevitable development progress with many stages (adoption, scaling-up and mainstreaming of the technologies). As the intervention of the project is a systematic intervention at all dimensions throughout the whole progress of the marketization, the project shall not only carry out activities at the micro level, but also pay attention to comprehensive establishment of a sustainable marketization mechanism (information, policy, financing mechanism, etc.).

Management steps to be taken

Review minutes written for 2014 PSC meeting; Meet with PMO to discuss TORs set in AWP 2015; Monitor the implementation process.

Signed by: Liu Shijun

liu shijun

Date: Feb 2, 2015

Annual Project Report

[Market Transformation of Energy Efficient Bricks and Rural Buildings]

[January, 2015]

Basic Project Information

Project Title: Market Transformation of Energy Efficient Bricks and Rural Energy Efficient Buildings	
UNDP Award ID	00049006
UNDP Project ID	00059500
Project Duration	May 2010-June 2016
Reporting Period	Jan. 2014-Dec. 2014
Total Approved Project Budget	USD7,000,000
Participating UN agencies	UNDP
Implementing Partners/ National collaborating agencies	Ministry of Agriculture of People`s Republic of China
International collaborating agencies	
Cost-sharing third parties	
UNDP Contact officer	Liu Shijun
Project website	www.mtebrb.org

Executive Summary

The report covers the overall project implementation in 2014, including implementation environment, main activities, outputs, outcomes, main measures taken to enhance project sustainability and development efficiency, preliminary macro impacts, project management (financial management, monitoring and evaluation, human resource management, risk management, inter-agency coordination and communication), etc. Besides, on basis of experiences and lessons learnt from the project implementation in 2014.

The project progress generally met the requirements of the work plan with activities carried out in full swing and the delivery rate of 91%. According to the project progress at present, the project is expected to accomplish all intended outcomes by completion as designed in ProDoc. During the reporting period, the project made breakthroughs in developing sustainable information dissemination mechanism, promoting market transformation policy system synthetically. The project has also made innovative institutional arrangement in 2014.

1. Background

Development Context

This project contributes to the reduction of GHG emissions through the transformation of the Chinese rural buildings market towards more energy-efficient building materials (mainly bricks) and technologies. It is in line with the GEF's climate change strategic programs on Promoting Energy Efficiency in Residential and Commercial Buildings (SP-1); and, Promoting Energy Efficiency (EE) in the Industrial Sector (SP-2). It is comprised of activities aimed at improving energy efficiency and promoting the widespread adoption of energy-efficient bricks, as well as energy efficient building technologies and practices in the building markets in rural China. The proposed project will positively respond and make great contribution to the strategy and policy of the Government of China concerning energy efficiency in rural areas through its close linkage with the new government campaign on "Building a New Socialist Countryside" and promoting the upgrade of brick products and production technology of rural brick plants and the application of EE buildings, promoting the sustainability of rural brick industry, improving the living standard of rural residents thus increasing energy efficiency in rural areas.

Project Objectives and Strategy

The goal of the project is the reduction of GHG emissions from brick manufacturing and the commercial & residential (C&R) buildings in Chinese rural areas.

The objective of the project is the removal of barriers that have persistently hindered the widespread development and application of EE bricks and EE buildings in rural China. The major focus of the project will involve addressing the key barriers (policy, technical, informational, and financial) that currently hinder the rural buildings market from adopting EE bricks and EE buildings. The project will also help the government to strengthen its capability to develop and implement EE bricks and EE buildings activities in a market environment. This project will address these barriers through a combination of training and capacity-building, learning by doing, and technical assistance activities.

2. Key Results

During the reporting period, the project made breakthroughs in developing sustainable information dissemination mechanism, promoting market transformation policy system synthetically. The project has also made innovative institutional arrangement in 2014.

The project progress generally met the requirements of the work plan with activities carried out in full swing and the delivery rate of 91%.The construction of demonstration project has played its preliminary demonstration role nationwide while the construction of replication project has carried out in 13 provinces and cities within three climatic zones. Both of the projects have come forth a batch of models on EE bricks and EE buildings that adapted to different climatic conditions, different level of economic development, and different rural energy and environment system characteristics. What's more, the project has made great progress in developing sustainable market transformation mechanism and obtained new results in information dissemination, policy development and financial incentive mechanism etc.

According to the project progress at present, the project is expected to accomplish all intended outcomes by completion as designed in ProDoc.

Project Outcomes

Progress and accomplishments at outcome level in 2014

Component 1: Information Dissemination and Awareness Enhancement		
Indicator	**Target**	**Progress and Accomplishments**
1) Establishment of information dissemination networks on EE bricks and EE buildings by the 3rd year;	1) The network is expected to operate from the 3rd year;	1) the networks have been put into operation as planned with gradual rich content and have played key role in project management, follow-up evaluation, bidding and training; the networks have pave a sustainable way for the information dissemination and promotion of EE bricks and EE buildings; the click rate on the website has met the requirement.
2) The number of multimedia products that are developed and disseminated from the 3rd year;	2) 5	2) Educational Film of EE brick production technology and rural EE buildings have been developed. Educational Film of EE brick production technology introduces the production processes and energy-saving way of different EE brick; Educational Film of rural EE buildings introduces masonry method of different EE brick and the main types of rural EE building. The footage of project publicity film has been collecting.
3) The number of promotion activities ever conducted by the end of the project;	3) 2	3) carried out twice publicity activities cooperated with relevant stakeholders:
4) The number of people involved in information dissemination and awareness enhancement activities from the start of this project	4) at least 1million person time	April 22-24, 2014 Annual Meeting and Exhibition on New Wall Material Equipment and Supporting Products was held by Wall Material Innovates Work Committee of China Association of Circular Economy(WMIWC) in Jinan, Shandong province, the main outcomes of MTEBRB project have introduced to more than 2000 participants. The main participants are from local Wall Material Reform Offices (WMRO) and equipment & production enterprises of building material industry. Through this meeting strengthen the relationship between PMO and local WMROs and laid a good foundation for project replication. Sep 22-26th, "2014 Annual Meeting of China Brick & Tile Industry Association and International Forum of Energy Efficiency and Emission Reduction in Brick & Tile Industry" was held in Chongqing by China Brick & Tile Industry Association and PMO, 450 participants from different

		countries and agencies attend the meeting. A presentation titled "EE brick and EE building in rural" have been made, which benefit to the transformation and upgrade of brick production companies. 4) This number should be accumulated number from the beginning of the project. The tracking and recording has started. by the end of 2014, there were 30 million people involved in information dissemination through newspaper, television and network etc.
Component 2: Policy Development and Institutional Support		
Indicator	**Target**	**Progress and Accomplishments**
1) Upon the completion of this project, the number of policy proposals that are taken into the national EE building and rural development 2) Upon the completion of this project, the number of approved rural EE building standards and codes; 3) Upon the completion of this project, the number of local governments that take the EE building and EE brick production into their local development plan;	1) one 2) at least one 3) at least ten	1) Completed policy research based on the successful experience of EE brick and rural EE buildings: Scientific and Technological Development Center of MOHURD and China Brick &Tile Industry Association of were entrusted to carry out policy research EE brick and rural EE buildings based on the successful experience of demonstration project. The report systematically summarized the successful practices in the process of the construction of demonstration projects, and put forward policy recommendations for China Government in relevant work in the future. 2) Standard system of EE brick and rural EE building were initially established; the number of approved and issued standards and codes on EE brick and rural EE building is far beyond the expectations of the ProDoc. (there are 6 by the end of 2014) 3) Through cooperation with the Wall Material Innovation Office (WMIO)of Hubei and Zhejiang Provinces, Application Specification for EE brick and EE sintering block were successfully applied in the local rural EE building replication projects; with WWIO of Xianyang City of Shaanxi Province, draw up the specification for EE brick and EE sintering block in cold area; by the end of 2014, there were 12 local governments (provincial, county-level) had take the EE buildings and EE brick production into their local work plan.

Component 3:Financial Support & Accessibility Improvement		
Indicator	**Target**	**Progress and Accomplishments**
1) The number of financial institutions involved in this project by the end of this project; 2) the total amount of fund leveraged to the rural EE building construction and EE brick project	1) at least 40 institutions; 2) at least RMB50m	1) organized lending capacity evaluation in 25 replication sites: Conducting assessment on financing capabilities of 25 pilot brick factories and financial institutes; this will provide basis for the establishment of market transformation financing mechanism of EE brick and rural EE building in light of the demand. 2) Organized financial incentive mechanism and related macro and micro policy research and mechanism design: according to relevant research, the project perfected the use of GEF Fund leveraging Wall Material Reform Fund, promoted the Socialism New Rural Construction of local government funding in rural EE building; carried out systematic sustainable practice in financing mechanism operation of rural EE building, and obtained preliminary results; by the end of 2014, the actual new co-financing is 3.332 billion yuan, which is well beyond the expectations of the ProDoc.
Component 4: Demonstration and Technology Support		
Indicator	**Target**	**Progress and Accomplishments**
1) the number of EE brick factories in rural areas upon the completion of this project 2) by the end of this project, the total output of EE bricks in rural areas;	1) at least 28 enterprises 2) at least 1.4 billion standard bricks;	1) By the end of 2014, the construction of EE brick and rural EE building demonstration project has reached gratifying results in 9 provinces and cities within 3 climatic zones; the construction of EE brick demonstration project has effectively coordinated with the upgrade transformation and technological progress in China brick & tile industry and has drove the implementation of national new obliged EE brick production standards; the construction of EE building demonstration project has introduced the EE building in rural energy construction system, creating typical models and technology that adapted to different climatic conditions, different level of economic development; 2) EE brick production: All of the 10 demonstration EE brick factories and 24 replication EE brick factories have the ability of producing EE brick in line with national standard. The annual production capacity of EE brick has

3) the total number of EE buildings in rural areas by the end of project	3) at least 1760 EE buildings being built	reached a total of 825 million pieces of standard brick per year, direct amount of energy efficient capacity of brick factory is up to 120240 ton standard coal per year; the amount of reduction emissions of CO2 is up to 299399ton per year in the process of production. 3）EE building：during the reporting period, there are 40 replication EE building project under construction with 9669 sets EE buildings; according to the follow-up evaluation on performance, the energy saving rate of EE building is generally up to 50%, which is well beyond the expectations of the ProDoc.

Activities and Outputs

Activities and outputs in 2014

<table>
<tr><td colspan="3">Component 1: Information Dissemination and Awareness Enhancement</td></tr>
<tr><td rowspan="7">Indicators:

Indicator: 1) Establishment of information dissemination network on EE brick and EE building by the third year; 2) The number of multimedia products that are developed and disseminated from the 3rd year; 3) The number of promotion activities ever conducted by the end of the project; 4) The number of people involved in information dissemination and awareness enhancement activities from the start of this project

Target: 1) The network is expected to operate from the 3rd year; 2) 5; 3) 1; 4) at least 1 million person time
Annual Targets:</td><td colspan="2">Output 1.1 Established and operational information dissemination network
Indicator:
1) Establishment of the information network on EE brick and EE building
2) Since the third year, at least 76 stakeholders have ever used this information network
3) Since the third year, the No. of annual visit to this website is 10,000</td></tr>
<tr><td>Activity 1.1.1
Survey on the needs of EE brick information and design of EE brick information network (Subcontract: Survey on the Needs of EE Brick Information and Design of EE Brick Information Network)</td><td>Activity completed in 2011.</td></tr>
<tr><td>Activity 1.1.2
Survey on the needs of the information on EE building in rural areas and design of the information network of EE building in rural areas (Contract: Survey on the Needs of the Information on EE building in Rural Areas and Design of the Information Network of EE Building in Rural Areas)</td><td>Activity completed in 2011.</td></tr>
<tr><td>Activity 1.1.3
Establishment and operation of EE brick information network</td><td></td></tr>
<tr><td>Activity 1.1.3.1
Establishment of EE brick information center</td><td>Activity completed in 2012</td></tr>
<tr><td>Activity 1.1.3.2
Establishment and operation of EE brick information center</td><td>Activity already completed in 2013
The web link is www.eebrick.com</td></tr>
</table>

2014: More improved information networks on running.	Activity 1.1.3.3 Operation and maintenance of EE brick information center (2014-2015)	the subcontract was award in 2014, the networks have been put into operation as planned with gradual rich content and have played key role in project management, follow-up evaluation, bidding and training; the networks have pave a sustainable way for the information dissemination and promotion of EE bricks ; the click rate on the website has met the requirement, the subcontract to be lasted till project closure date
	Activity 1.1.4 Establishment and commissioning of rural EE building information network	
	Activity 1.1.4.1 Establishment of rural EE building information center	Activity completed in 2012
	Activity 1.1.4.2 Establishment and operation of rural EE building information center	Activity completed in 2013
	Activity 1.1.4.3 Operation and maintenance of rural EE building information center (2014-2015)	The subcontract was award in 2014, the networks have been put into operation as planned with gradual rich content and have played key role in project management, follow-up evaluation, bidding and training; the networks have pave a sustainable way for the information dissemination and promotion of EE building ; the click rate on the website has met the requirement, the subcontract to be lasted till project closure date
	Activity 1.1.5 Recruitment of information officer	One full-time information officer was recruited:

	Output 1.2: Development of a full package of multi-media products **Indicator:** **1)at least 5 sets of media products to be developed and broadcasted from the 3rd year;** **2) at least 2 sets of CDs to be developed, 1000 copied circulated from the 1st year;** **3)2 sets of books/training materials will be disseminated;** **4) At least one audio program will be produced and broadcasted in the rural broadcasting network**	
	Activity 1.2.1 **Footage shooting and production of CDs and TV program**	
	Activity 1.2.1.1 Footage shooting at pilot sites (Contract: Footage shooting for Propaganda Videos and Development of the Scientific Educational Film of EE Brick-Making Techniques in Rural Area , Continued, combined with Activity 4.2.6.4)	Educational Film of EE brick production technology has been developed. It introduces the production processes and energy-saving way of different EE brick. The subcontract have completed in 2014, the film will be broadcast on CCTV7 and remote education platform in 2015
	Activity 1.2.1.2 Footage shooting at pilot sites (Contract: Footage shooting for Propaganda Videos and Development of Science Film of EE Building Construction Processes in Rural Area, combined with Activity 4.2.6.5)	Educational Film of rural EE buildings has been developed. It introduces masonry method of different EE brick and the main types of rural EE building. The film will be broadcast on CCTV7 and remote education platform in 2015
	Activity 1.2.2 Development and publication of books on project summarization	
	Activity 1.2.2.1 Compilation of the book on theories and practices of EE M&E of rural EE buildings	The subcontract was awarded in 2013 and is under implementation.
	Compilation of the book on summarization of project experiences and best practices	The subcontract was awarded in 2013 and is under implementation.

	Output 1.3: Information dissemination and publicity activities **Indicator:** **1)Since the first year, at least 100 villages in 20 counties of 10 provinces will be covered by this project** **2) Since the third year, at least 500 field mission to pilot and replication sites will be conducted** **3)By the end of the project, 6 project promotion workshops have been conducted**	
	Activity 1.3.1 Design and development of overall promotion plan and action plan	Activity completed in 2010
	Activity 1.3.2 **Carry out trainings to stakeholders (combined with other training activities)**	
	Activity 1.3.2.1 Project inception and inception training	Activity completed in 2010
	Activity 1.3.2.2 Project inception and inception training at demonstration sites	Activity completed in 2011.
	Activity 1.3.2.1 Trainings on raising awareness of energy conservation and emission reduction among university graduates working in the villages (100 person*2 days/session, 15 sessions, Combined with 2.2.2)	l Training on rural sustainable development: combined with the training for rural practical talents, carried out 12 sessions training for student village officers on energy conservation & emissions reduction and low carbon life involved 1188 person time, of which 40 person from the project replication villages.
	Activity 1.3.3 Promotion workshop	
	Activity 1.3.3.1Review Workshop on Establishment of Information Center of EE brick and Rural EE Buildings	Activity already completed.
	Activity 1.3.3.2 Project summarization workshop	

	Activity 1.3.4 Establishment of EE brick display area in "Xianyang Wall Material Exhibition Room in Shan`xi"	Activity completed in 2012.
	Activity 1.3.5 Publicity of EE bricks and EE buildings through print media	Activity completed in 2012.
	Activity 1.3.6 Design of project posters	Activity completed in 2013.
	Activity 1.3.7 Printing and delivery of project posters.	Activity completed in 2013.
	Activity 1.3.8 Dissemination and publicity of EE bricks and rural EE buildings through print media	Activity completed in 2013.
Component 2: Policy Development and Institutional Support		
Indicator: 1) Upon the completion of this project, the number of policy proposals that are taken into the national EE building and rural development decision-making procedures 2) Upon the completion of this project, the number of approved rural EE building standards and codes; 3) Upon the completion of this project, the number of local governments that take the EE building and EE brick production into their local	**Output 2.1 Formulated policies, and associated implementing rules on EE brick-making and EE building application;** Indicator: 1) By the end of the project, study on relevant policy being conducted at least once 2) By the end of the project, at least one activity being conducted to facilitate the approval of policy 3) By the end of the project, at least one policy developed under this project being recommended or approved by the government	
	Activity 2.1.1 Development of policies on EE building in rural areas	
	Activity 2.1.1.1 Study & assessment of EE building development policies in rural areas (Contract: Study & Assessment of EE Building Development Policies in Rural Area, combined with Activity 2.2.1)	Activity completed in 2011.

development plan; Target: 1) one; 2) at least one; 3) at least ten Annual Targets: 2014: Market assessment of s-s cooperation of EE brick-making and rural EE buildings completed	Activity 2.1.1.2 Carry out policy study on EE building in rural areas on the basis of successful experience in pilot site	Activity completed in 2013.
	Activity 2.1.1.3 Study and proposals on macro-policies of rural green buildings	Policy study at macro level on rural EE /Green buildings and propose related recommendations, The subcontract was awarded in 2013 and is under implementation.
	Activity 2.1.1.4 Study on sustainable development of rural green buildings	The subcontract was awarded in 2013 and is under implementation.
	Activity 2.1.2 **Development of policies on EE brick production in rural areas (combined with activity 2.2.1)**	
	Activity 2.1.2.1 Study & assessment of policies on promoting EE brick production and application in rural areas	Activity completed in 2011.
	Activity 2.1.2.2 Carry out policy study on EE bricks on the basis of successful experience in pilot site	Activity completed in 2013.
	Activity 2.1.2.3 Market assessment and feasibility study of S-S cooperation of EE bricks	The investigation of EE brick market in 13 developing countries have finished, and 130 questionnaires has collected and analyzed, which benefit to develop the market assessment and feasibility study of s-s cooperation between china and other developing countries
	Activity 2.1.3 **Workshop on EE brick and EE building policies**	
	Activity 2.1.3.1 Workshop on promotion of the development of EE brick industry and wall material reform policy	Activity completed in 2011.

	Activity 2.1.3.2 Workshop on promotion of EE building and new countryside construction	Activity completed in 2011.
	Activity 2.1.4 **Development of the technical standards and codes of rural EE brick production and application**	
	Activity 2.1.4.1 Survey & assessment on the technical standards and codes of EE brick production at home and abroad (combined with Activity 4.2.1)	Activity completed in 2011.
	Activity 2.1.4.2 Development of EE insulating brick product standards and application codes (Contract: Development of Series Standards and Application Guidelines of EE Insulating Brick Production in Rural Areas, combined with 4.2.1.2)	Activity completed in 2012.
	Activity 2.1.5 **Development of the standards for the design and construction of EE building in rural area**	
	Activity 2.1.5.1 Survey and assessment of the standards for the design and construction of EE buildings in rural areas & development plan of the standards (combined with Activity 4.2.2, continued in 2010)	Activity completed in 2011.
	Activity 2.1.5.2 Development of the standards of the design and construction of EE building in rural areas (Contract: Development of Design Standards and Application Guidelines and Monitoring &Evaluation of Energy Efficiency for Rural Buildings , combined with Activity 4.2.4.2 and continued in 2011)	Activity completed in 2012.

	Activity 2.1.6 **National PSC annual meeting (combined with TPR meeting)**	The PSC/TPR meeting was held in Beijing in January 27, 2015, with UNDP, MOF, MOA and other PSC members, as well as some key project experts participating the meeting. The 2014 project progress report delivered by PMO was reviewed. PSC members approved the 2015 work plan.
	Activity 2.1.7 **International study tour and training on international related policies and practice**	
	Activity 2.1.7.1 International study tour and training on international related policies and practice (To America)	Activity completed in 2013.
	Activity 2.1.8 Formulation of ***Technical Specifications of the Sintered Self-insulating Bricks and the Heat-Insulation System of Block Walls***-hot-summer and cold-winter areas	Activity completed in 2013.
	Activity 2.1.9 Expert on Policies and Regulations	
	Activity 2.1.10 Development for local application rules of national EE brick product standards for Xianyang	Development for local application rules for Xianyang based on national EE brick product standards is under implementation and will be finished in 2015.
	Output 2.2: Improved local governments' policy enforcement capacity Indicator: 1) By the end of the project, capacity building activities (including training materials) being conducted 8 times; 2) By the end of the project, at least 200 local officials being trained; 3) By the end of the project, the No. of policies and action plans formulated and implemented under this project will reach 10	

	Activity 2.2.1 Survey and assessment on local governments' capability in enforcing EE brick production policy; development of action plan to improve capability (Contract: Survey and Assessment of Policies Related to Promotion of EE Brick Production and Application in Rural Areas, continued, combined with Activity 2.1.2.1)	Activity completed in 2011.
	Activity 2.2.2 **Training to local government on policies and administrative capacity**	
	Activity 2.2.2.1 Inception workshops & training activities being conducted at 9 pilot project sites	Activity completed in 2012.
	Activity 2.2.2.2 Training on university graduates working in the villages (100 person*2 days/session, 15 sessions, Combined with 1.3.2.1)	Combined with the training for rural practical talents, carried out 12 sessions training for student village officers on energy conservation & emissions reduction and low carbon life involved 1188 person time, of which 40 person from the project replication villages.
	Activity 2.2.2.3 Exchange Workshop on Experiences of EE Building Construction at Project Demonstration Sites (150 person, 2days, travel costs of staff at village level can be reimbursed)	Activity completed in 2013.
	Activity 2.2.3 **Consultation activities provided by local policy steering committee**	
	Activity 2.2.4 **Development and application of relevant action plans of local governments**	

	Activity 2.2.4.1 Development of relevant action plans for local governments (Contract: Development of Technical Training Materials of EE buildings in Rural Area and Action Plans of Local Government, combined with 4.2.6.2 and cooperated with 2.1.1.1 and 2.1.2.1)	Activity completed in 2012.
Component 3: Finance Support & Accessibility Improvement		
Indicator: 1) The number of financial institutions involved in this project by the end of this project;2) the total amount of fund leveraged to the rural EE building construction and EE brick project Target: 1) at least 40 institutions; 2) at least RMB50m	Output 3.1:Completed Financial and Business Development Assessments for Rural Brick Makers and Building Developers; make public the assessment Indicators: 1)The minimum No. of local building practioners and brick makers trained under this project: 200 2)The minimum No. of completed financing and business plans: 60	
	Activity 3.1.1 Assessment & training on the financing capability of the pilot brick-makers and relevant EE building developers in the 9 provinces	Activity completed in 2011.
	Activity 3.1.2 Development of business plans for the pilot EE brick-makers in Jilin, Hebei, Anhui and Zhejiang provinces	Activity completed in 2011.
	Activity 3.1.3 Development of business plans for the pilot EE brick-makers in Xinjiang, Shanxi, Gansu and Sichuan and Hunan provinces	Activity completed in 2011.

	Activity 3.1.4 Financial assessment plan of replication sites	The subcontract was awarded in 2013 and is under implementation. Conducting assessment on financing capabilities of 25 pilot EE brick enterprise and financial institutes; this will provide basis for the establishment of market transformation financing mechanism of EE brick and rural EE building in light of the demand.
	Activity 3.1.5 Trainings and study tour on international related financing management model	
	Activity 3.1.5.1 Trainings and Study tour on international related financing and monitoring models (Africa, combined with Activity 4.1.10)	Due to new national regulations in 2014 with stricter control on international study tour and the administrative approval issues, this activity was not undertaken.
	Output 3.2: Developed and Implemented New Business Models for Local Banks and Financial Institutions for Financing EE Brick Making and EE Buildings Projects in Rural Areas Indicators: 1) By the end of the project, the minimum No. of information exchange and knowledge sharing activities conducted : 5 2) By the end of the project, at least 100 people in local financial sectors being involved in or trained under this project	
	Activity 3.2.1 **Assessment of operational models and capability of relevant finical institutions, study and feasibility analysis of successful experiences of relevant finical products and business models at home and abroad, development and application of related finical incentive mechanisms**	
	Activity 3.2.1.1 Assessment on the financing capability of the pilot brick-makers and lending capacity of financial institutions & relevant training) (combined with Activity 3.2.1 and 3.2.2)	Activity completed in 2011.

	Activity 3.2.1.2 Study on financing and finical incentives models of EE bricks and rural EE buildings	Activity completed in 2012.
	Activity 3.2.2 Trainings to financial institutions on financial management capability (Contract: Assessment & Relevant Training on the Financing Capabilities of Pilot Brick-Makers and the Lending Capacities of Financial Institutions) (continued in 2010, combined with Activity 3.1.1 and 3.2.1)	Activity completed in 2011.
	Activity 3.2.3 Application and replication of financial incentives models	22 new project replication sites were identified, where the replication of financial incentives model is under implementation.
	Activity 3.2.3.1 Replication of EE building in rural area in Shaanxi	The building engineering of the 6 replication sites in Shaanxi which were identified in 2012 is still under implementation.
	Activity 3.2.3.2 Replication of rural EE buildings in Jujia town in shaanxi	The building engineering of the 2 replication sites in Shaanxi which were identified in 2013 is still under implementation.
	Activity 3.2.3.3 Replication of rural EE buildings in Hebei	The building engineering of the 2 replication sites in Hebei which were identified in 2013 is still under implementation.
	Activity 3.2.3.4 Replication of rural EE buildings in Zhejiang	The building engineering of the 5 replication sites in Zhejiang which were identified in 2013 is still under implementation.
	Activity 3.2.3.5 Replication of rural EE buildings in Tibet	The building engineering of the 3 replication sites in Tibet which were identified in 2013 is still under implementation.

	Activity 3.2.4 Training workshop on financing and financial management of the sector of domestic energy efficiency in rural buildings	
	Activity 3.2.5 Recruitment of expert in rural EE buildings	The expert in rural EE buildings was recruited for 2 months in the reporting period.
	Activity 3.2.6 Recruitment of expert in wall material reform sector	The expert in wall material reform sector was recruited for 2 months in the reporting period.
	Activity 3.2.7 Recruitment of project management and training	The expert of project management and training was recruited for 2 months in the reporting period.
	Activity 3.2.8 Recruitment of expert in new countryside construction	The expert of expert in new countryside construction was recruited for 2 months in the reporting period.
	Financial Management	
Component 4: Demonstration and Technology Support		
Indicator: 1) the number of EE brick makers in rural areas upon the completion of this project; 2) by the end of this project, the total output of EE brick in rural areas; 3) the total number of EE buildings	output 4.1: Completed and demonstration of rural EE buildings and EE bricks production Indicator: 1) By the end of third year, the No. of conducted feasibility studies: at least 9 feasibility studies on EE brick production projects and 8 feasibility studies on EE building projects 2)By the end of third year, the No. of EE building projects and EE brick making projects that can reach the energy efficient goals: 8 EE brick making projects, 8 EE building projects 3)By the end of the third year, the No.of information dissemination activities: at least once	

in rural areas by the end of project; Target: 1) at least 28 enterprises; 2) at least 1.4 billion standard brick ; 3) at least 1760 EE buildings being built Annual Targets: 2014: 1.Project demonstration at all 10 villages completed 2.Project replication kicked off at least 35 villages. 3. Contest for rural green/EE buildings organized	Activity 4.1.1 Feasibility study on the technology transformation of pilot EE brick makers in Jilin, Hebei, Anhui and Zhejiang provinces (Contract: Feasibility study on the updating of production technology and development of business plan-1,continued in 2010, combined with Activity 3.1.2)	Activity completed in 2011.
	Activity 4.1.2 Feasibility studies on the technology transformation of pilot EE brick makers in Xinjiang, Shanxi, Gansu,Sichuan and Hunan provinces (Contract: Feasibility study on the updating of production technology and development of business plan-2, continued in 2010, combined with Activity 3.1.3)	Activity completed in 2011.
	Activity 4.1.3 Review meeting on the feasibility studies on technology transformation of pilot EE brick makers (combined with Activity 2.1.3.1)	Activity completed in 2011.
	Activity 4.1.4 Plans on the village development, energy conservation and emission reduction of the pilot villages in Jilin, Hebei, Anhui and Zhejiang provinces (Contract: Plans on the village development, energy conservation and emission reduction of the pilot villages-1, continued)	Activity completed in 2013.
	Activity 4.1.5 Plans on the village development, energy conservation and emission reduction of the pilot villages in Xinjiang, Shanxi, Gansu, Sichuan and Hunan provinces (Contract: Plans on the village development, energy conservation and emission reduction of the pilot villages-2, continued)	Activity completed in 2013.

	Activity 4.1.6 **Technical training on EE brick production, EE building design, plan, construction and etc**	
	Activity 4.1.6.1 Training on construction technology of EE building at pilot sites	The training were held in Hangzhou , zhejiang province, in March ,2014. 150 persons from UNDP, MoA, local PMO and subcontractor and experts were attend the training.
	Activity 4.1.7 **Construction of pilot projects of EE brick making in rural areas**	
	Activity 4.1.7.1 Reform of EE brick production techniques of Zhouling New Construction Material Co.Ltd , Xianyang Shanxi province continued in 2011)	Activity completed in 2012.
	Activity 4.1.7.2 Reform of EE brick production techniques of Mulan Yunshan brick maker, Lanzhou Gansu province (continued in 2011)	Activity completed in 2012.
	Activity 4.1.7.3 Reform of EE brick production techniques of Jia'an Architecture Materials Co., Ltd , Hefei province (continued in 2011)	Activity completed in 2012.
	Activity 4.1.8 **Development of demonstration plans and construction of EE building pilot projects in rural areas**	
	Activity 4.1.8.1 Development of the demonstration plan and construction of the EE building pilot project in Jilin	Villagers have moved in the demonstration EE buildings. The energy-efficiency M&E activities have finished.

	Activity 4.1.8.2 Construction of EE building pilot project at the pilot site in Hunan	Demonstration buildings in the separate have been built and villagers have moved in. The energy-efficiency M&E activities are underway, will be finished in 2015
	Activity 4.1.8.3 Construction of the demonstration EE buildings in the pilot village in Shanxi (continued in 2011)	Activity already complete in 2013
	Activity 4.1.8.4 Construction of the EE building pilot project at the pilot site in Pinghu, Zhejiang	Villagers have moved in the demonstration EE buildings. The energy-efficiency M&E activities have finished.
	Activity 4.1.8.5 Construction of the EE building pilot project in Xinjiang	Villagers have moved in the demonstration EE buildings. The energy-efficiency M&E activities have finished.
	Activity 4.1.8.6 Development of the demonstration plan and construction of the demonstration EE buildings in Hebei (continued)	Villagers have moved in the demonstration EE buildings. The energy-efficiency M&E activities have finished. And Inspection and accept the demonstration village (Wangyu Village) and Corporation (Chenlongjianchai Coperation)with UNDP, Director Germer highly affirmed the building and the energy-saving effect of demonstration site in the city of Qinhuangdao, Hebei Province in Nov,2014
	Activity 4.1.8.7 Construction of the EE building pilot project for post-disaster reconstruction in Meishan, Sichuan	Building engineering has been completed. The energy-efficiency M&E activities are underway.
	Activity 4.1.8.8 Construction of the EE building pilot project for post-disaster reconstruction in Chengdu, Sichuan	Building engineering has been completed. The energy-efficiency M&E activities are underway.

	Activity 4.1.8.9 Construction of pilot project of EE building in Anhui	Building engineering underway.
	Activity 4.1.8.10 Construction of pilot project of EE building in Gansu	Building engineering underway.
	Activity 4.1.9 **Recruitment of national planning expert (2months/person)**	Activity completed.
	Activity 4.1.10 Trainings and Study tour on international related financing and monitoring models (Africa, combined with Activity 3.1.5.1)	Due to new national regulations in 2014 with stricter control on international study tour and the administrative approval issues, this activity was not undertaken.
	Output 4.2: Developed and disseminated technical guidelines and templates for the development and implementation of rural EE brick and EE building applications Indicator: 1) The No. of reports on lessons learnt and experience of rural EE building and EE brick making projects at home and abroad: 2; 2)The No. of report on the feasibility study of EE brick product standardization: 1; 3) one data base on rural EE building information being established and relevant report being submitted; 4) The No. of information dissemination activity: 1; 5)The No. of training materials on rural EE brick and EE building technology: at least 2 sets; 6) The No. of trainees: 200	
	Activity 4.2.1 **Surveys and assessment on the EE brick production technologies and application at home and abroad; feasibility study on its application**	

	Activity 4.2.1.1 Surveys and assessment on the EE brick production technology and application at home and abroad; (Contract: Survey & Assessment on the Technical Standards and Codes of EE Brick Production at Home and Abroad, continued, combined with Activity 2.1.4.1)	Activity completed in 2011.
	Activity 4.2.1.2 Feasibility assessment on EE brick production technologies and application at home and abroad (Contract: Development of Series Standards and Application Guidelines for EE Brick Production in Rural Area, continued, combined with Activity 2.1.4.2)	Activity completed in 2012.
	Activity 4.2.2 Surveys on the EE building models at home and abroad, on EE technology and its application & the assessment of its feasibility in China's rural area (Contract: Survey & assessment on the EE building models at home and abroad, on the feasibility of EE technology application, continued)	Activity completed in 2011.
	Activity 4.2.3 **Monitoring and evaluation(M&E) of the demonstration and replication of EE brick production**	
	Activity 4.2.3.1 Development of the M&E methodology of the demonstration and replication of EE brick production & the development of application guidelines (Contract: Development of Energy Efficiency Monitoring &Evaluation (M&E) Methodology and technical training materials in Energy Efficient (EE) Brick Production, combined with 4.2.6.1)	Activity completed in 2012.

	Activity 4.2.3.2Monitoring and evaluation (M&E) of energy efficiency on EE brick production at pilot brick makers	The subcontract was awarded in 2013 and is under implementation, M&E of energy efficiency on EE brick production at pilot brick makers have finished and the cost analysis is under implementation.
	Activity 4.2.3.3 Monitoring and evaluation (M&E) of energy efficiency on EE brick production at replication brick makers	No action was taken under this activity during the reporting period in accordance with the project work-plan
	Activity 4.2.4 **M&E on the demonstration and replication of rural EE building**	
	Activity 4.2.4.1 Development of the M&E methodology of the demonstration and replication of EE building & the development of application guidelines	Activity completed in 2012.
	Activity 4.2.4.2 M&E of Energy Efficiency of EE buildings in rural areas	Field testing was carried out to the demonstration site in Nong'an Jilin and the result showed that the energy efficiency of the demonstration building was 56.2%. Field testing on another the demonstration sites in Sichuan is still underway according to the different engineering progress. Data collection will be carried out to the other 7 demonstration sites.
	Activity 4.2.4.3 M&E of energy efficiency of EE building in replication site in rural areas	the subcontract was awards in 2014,the EE M&E method has developed, EE M&E for EE buildings at replication sites will be carried out in 2015
	Activity 4.2.5 Comprehensive M&E of the project	Activity completed in 2011.

	Activity 4.2.6 **Development of technical training materials & conduction of training activities**	
	Activity 4.2.6.1 Development of technical training materials on EE brick production (Contract: Development of Energy Efficiency Monitoring &Evaluation (M&E) Methodology and technical training materials in Energy Efficient (EE) Bricks Production, combined with 4.2.3.1)	Activity completed in 2012.
	Activity 4.2.6.2 Development of training materials on EE building construction technology (Contract: Development of Technical Training Materials for EE Buildings in Rural Area & Action Plans of Local Government , combined with 2.2.4 and cooperated with 2.1.1.1 and 2.1.2.1)	Activity completed in 2012.
	Activity 4.2.6.3 Printing and dissemination of training materials on EE brick and EE building	Activity completed in 2012.
	Activity 4.2.6.4 Footage shooting of Propaganda Videos and Science Film Production of EE Brick Production Techniques (continued, combined with 1.2.1.1)	Educational Film of EE brick production technology has been developed.It introduces the production processes and energy-saving way of different EE brick. The subcontract have completed in 2014, the film will be broadcast on CCTV7 and remote education platform in 2015
	Activity 4.2.6.5 Footage shooting of Propaganda Videos and Science Film Production of EE building construction processes (combined with 1.2.1.2)	Educational Film of rural EE buildings has been developed. It introduces masonry method of different EE brick and the main types of rural EE building. The film will be broadcast on CCTV7 and remote education platform in 2015

	Activity 4.2.6.6 Dissemination and airing of project science popularization films at local TV channels	No action was taken under this activity during the reporting period.
	Activity 4.2.7 Recruitment of CTA	CTA was recruited for 6 months in the reporting period.
	Activity 4.2.9 Recruitment of Contract Officer	The contract officer was recruited for 12 months in the reporting period.
	Activity 4.2.10 Recruitment of Project Assistant	
	Activity 4.2.11 Recruitment of national expert on brick making	The expert was recruited for 2 months in the reporting period.
	Activity 4.2.12 Recruitment of national expert on management in building sector	The expert was recruited for 2 months in the reporting period.
	Activity 4.2.13 Recruitment of expert in rural economic and social development	
	Activity 4.2.13 Recruitment of local technical consultants on EE brick application and EE buildings (14 person, 2 month/person)	10 local technical consultants was recruited according to the actual needs.
	Activity 4.2.14 Recruitment of communication officer	
	Activity 4.2.15 Summarization and development of the national technical replication roadmap	No action was taken under this activity during the reporting period in accordance with the project work-plan
	Activity 4.2.16 Forum of development and application trend of new type energy efficient wall & roof materials	Activity completed in 2012.
	Activity 4.2.17 Development of EE brick laying and masonry methods	the subcontract was awarded in 2014 and is under implementation

	Activity 4.2.18 Compilation of drawing collection of the rural EE/Green buildings design	
	Activity 4.2.18.1 Recruitment of expert in rural EE building design and building construction craft	The expert was recruited for 2 months in the reporting period.
	Activity 4.2.18.2 Contest in design of rural EE/green buildings	the subcontract was awarded in 2014 ,A contest in design of rural EE/green buildings will be organized in 2015
	Activity 4.2.18.3 Compilation, printing and publication of a drawing collection of excellent rural EE green buildings	No action was taken under this activity during the reporting period in accordance with the project work-plan
	Activity 4.2.19 Local training activities at replication sites	
	Activity 4.2.19.1 Training on EE brick production and on dissemination of the national EE brick production standards	the subcontract was awarded in 2014 and is under implementation
	Activity 4.219.2 Training on EE M&E of EE buildings at replication sites	26 trainings on EE brick and rural EE building were carried out in Hubei, Anhui, Zhejiang, Hunan, Jilin, Xinjiang and Shandong Province. 2400 person from local level were trained.
	Activity 4.2.20 Dissemination and publicity of EE brick technologies	the subcontract was awarded in 2014 and is under implementation
	Activity 4.2.21 Test of the EE brick products applied for project replication	The subcontract was awarded in 2014 and is under implementation, 13 EE brick production companies have been tested.

	Output 4.3：Construction of replication projects Indicator: 1) Evaluation reports of the demonstration projects ; 2) Number of the replication projects constructed Targets: 1) 16 ; 2) 60	
	Activity 4.3.1 **Screening of project replication of EE brick production in rural area and feasibility study**	
	Activity 4.3.1.1 Assessment workshop on project replication sites of EE brick production in rural area	The workshop was held with PMO, experts and representatives from some project demonstration provinces assessing the replication candidates of EE brick makers.
	Activity 4.3.1.2 South-South Exchange Workshop for promoting energy efficient and low emission technology in EE brick production and brick-making industry.（held jointly with South-South cooperation project)	Due to progress of the S-S cooperation project and coordination issues, the activity is delayed. Discussion has been carried out and revised plan for this activity has been indemnified.
	Activity 4.3.1.3 Recruitment of consultant expert on screening and construction of replication sites (2month/ person)	The expert was recruited for 2 months in the reporting period.
	Activity 4.3.2 **Screening of replication project of EE brick production in rural area and design of project plan**	
	Activity 4.3.2.1 Assessment workshop on project replication sites of rural EE building	The workshop was held with PMO, experts and representatives from some project demonstration provinces assessing the EE building replication candidates.
	Activity 4.3.3 **Construction and acceptance of the replication project of EE brick production in rural areas**	

	Activity 4.3.3.1 Construction of the replication sites of EE brick production in rural areas	Competed the selection and construction of 24 replication brick factories which already have the ability to produce EE brick
	Activity 4.3.4 **Construction and acceptance of the replication project of rural EE brick building**	
	Activity 4.3.4.1 Construction of the replication sites of rural EE buildings in Qionglai, Sichuan	Activity already completed
	Activity 4.3.4.2 Replication of EE building in rural areas in Shaan`xi	The building engineering of the 6 replication sites in Shaanxi which were identified in 2012 is still under implementation.
	Activity 4.3.4.3 Establishment of replication sites of rural EE buildings	22 new project replication sites were identified, where the replication of financial incentives model is under implementation.
	Activity 4.3.4.3.1 Replication of rural EE buildings in Jujia town in shaanxi	The building engineering of the 2 replication sites in Shaanxi which were identified in 2013 is still under implementation.
	Activity 4.3.4.3.2 Replication of rural EE buildings in Hebei	The building engineering of the 2 replication sites in Hebei which were identified in 2013 is still under implementation.
	Activity 4.3.4.3.3 Replication of rural EE buildings in Zhejiang	The building engineering of the 5 replication sites in Zhejiang which were identified in 2013 is still under implementation.
	Activity 4.3.4.3.4 Replication of rural EE buildings in Tibet	The building engineering of the 3 replication sites in Tibet which were identified in 2013 is still under implementation.

	Activity 4.3.7Survey of replication potential of new-type wall materials in China	carry out survey of replication potential of new-type wall materials in China. April 22-24, 2014 Annual Meeting and Exhibition on New Wall Material Equipment and Supporting Products was held by Wall Material Innovates Work Committee of China Association of Circular Economy(WMIWC) in Jinan, Shandong province, the main outcomes of MTEBRB project have introduced to more than 2000 participants. The main participants are from local Wall Material Reform Offices (WMRO) and equipment & production enterprises of building material industry. PMO had a thorough discussion with the participants around the construction of replication project which effectively promoted the implementation of the project this year. Through this meeting strengthen the relationship between PMO and local WMROs and laid a good foundation for project replication.
Project Management		
	Recruitment of project Communication officer	The project communication officer has been recruited as planned.
	Recruitment of project assistant	The project communication officer has been recruited as planned.
	Auditing	The project has smoothly passed the audit carried out by National Audit Office in March for 2013 project performances.

Sustainability

To secure the project sustainability, attention must be paid on integration of and balance between the bottom-up micro-effects and top-down macro-system and impacts during project implementation. First, as the most important stakeholder, farmers focus on real effects and benefits. To ensure the sustainability, real effects and benefits must be generated and acknowledged by farmers to encourage their spontaneous application. On the other hand, as it is a cross-sector, trans-industry and interdisciplinary mission to develop EE bricks and rural EE buildings, a comprehensive and long-term system and mechanism must be established to make the project sustainable.

The marketization of EE bricks and rural EE buildings is a dynamic and inevitable development progress with many stages (adoption, scaling-up and mainstreaming of the technologies). As the intervention of the project is a systematic intervention at all dimensions throughout the whole progress of the marketization, the project shall not only carry out activities at the micro level, but also pay attention to comprehensive establishment of a sustainable marketization mechanism (information, policy, financing mechanism, etc.).

- Information dissemination mechanism that satisfy the needs of farmers:1) make full use of the advantage of existing information network, connected EE Brick Website and Rural EE Brick Website with socialism new rural construction website and rural energy environment website, form a diffusion channel with broader coverage and targeted audience; 2) give play to the interaction function of the network platform, realize the interactive technology of remote diagnosis, technical guidance and training, and give play to the optimal effect of experts; 3) draw lessons from the successful experiences of GEF TVE projects and other GEF projects of MoA, pay more attention to the use of TV, radio and such modes of transmission that are popular among farmers in the design of project comprehensive promotion scheme; maximize the sharing of project information, technology transmission and demo results display, raise the enthusiasm and passion for understand and involvement in the project.
- Exploring all-round multi-level system of policies and regulations: by conducting a survey assessment of the policy at home and abroad, the project study to develop and improve the law and regulation system and policy implementation ability on the promotion of EE brick and EE building at national and local level. Related research includes not only the general administrative laws and regulations, but also includes technical policies such as EE brick production technology and standards, construction specifications, rural EE building design standards and construction specification, thus forming all-round multi-level system of policies and regulations, then create a favorable policy environment for the application of rural EE brick and EE buildings.
- Sustainable financing partnership: according to the assessment on technical ability and obstacle of investment and financing, the project offer technical assistant through financing and business plan by way of technical training, to overcome the shortage of technical ability, promote the establishment of market connection between investment side with financing side, and exploring a effective incentive mechanism, thus forming a sustainable financial market of EE brick and EE building.
- Advanced applicable technology demo that accord with the features of rural area: rural EE building markets is different from that of urban area in low tolerance in economy, complex requirement for building function, high requirement for building weather resisting property, poor technical implementation and quality control, imperfection of

policy environment. Thus put forward different requirement for building style, materials, thermal insulation technology. The project carried out systematic research on EE building material and rural EE building construction techniques and practices, based on the survey assessment according to different climate and resource conditions, abide by the principle of fully rely on experts and fully respect the wishes of residents and enterprises, explore demo scheme with advanced applicable technology that suited local rural features, guarantee the smooth implementation of demo project construction.

Partnership Effectiveness

The main indicators for measuring development effectiveness are relevance, performance and success. Success relies on impact, sustainability, contribution to capacity building, etc.

Relevance: The progress in 2014 well proved that the project objectives and activities are in line with and have promoted the nationals targets and campaigns and effectively contributed to MDG and UNDAF;

Performance: It is too early to evaluate the performance via results and efficiency at this stage, but so far the project implementation result is positive. In addition to the 18 replication sites promised in PPG, the project added 60 replication sites without increasing the budget. Based on the implementation in 2014, it is practical though challenging (number of pilot projects and sites all exceeded ProDoc. design). This will greatly increase the ECER amount and improve the efficiency of GEF funds.

Impact: the project focuses not only on the bottom-up micro results such as the amount of energy conserved, GHG emission reduced and people trained, but also on the top-down macro impacts on the social, political and economic system. Therefore, the project added the following contents to the original designed activities in 2014:

- The standard/code of EE bricks promised is enhanced to systematic standards and codes of EE bricks and rural EE buildings. A complete technical and policy system will be preliminary established, including rural EE building materials and the application, EE building design, construction, monitoring and evaluation;
- The budget of 2015 has prepared to ensure the project objective as well as to consider the possibility of South-South cooperation, thus to enlarge the regional and global impacts of GEF/UNDP funds;
- Sustainability: Please refer to the "Sustainability" section;
- Contribution to capacity building: Footage shooting for the project science film of EE brick-making techniques was completed, with the film expected to be produced in 2013; additionally, the technical training materials of EE brick-making and rural EE buildings were developed and distributed nation-wide through the promotion workshop of project demonstration achievements. All these activities played a positive role in enhancement of the sustainability of the project capacity building.

Cross-cutting Issues

Besides ECER and improving global and local air quality, the project also: 1) improved the indoor air quality through building energy conservation and reduction of coal firing for house heating; 2) greatly reduced the consumption of clay and land resources through technical improvement and EE

brick production.

The investigation in 2014 showed that just like other rural areas in China, women in the project sites were left home while men went to work in the cities. Lack of labour is a common problem. However, traditional brick making requires hard labour in poor working environment, which is not suitable for women. Thus, lack of labour and raising cost of labour force restricted the development of rural brick making sector. The project has improved the technology and the working condition, thus provided women with working opportunities in EE brick production sector. In the future monitoring and evaluation, the project will record and assess the change of employment of men and women, and quantify the contribution of the project in improving women employment and gender equity.

3. Project Management and Oversight

Implementation status

In the implementation of the project in 2014, national and local PMOs generally complete the tasks with good quality and quantity according to the requirements of the work plan; according to the progress at present, the project will complete all goals and outcomes by the end of the project.

Human Resource Management

Human resource management of the project includes PMO staff, CTA and experts. Following measures were taken in 2014:

1) Based on the experience in 2013, positions of staff and experts were specialized and TORs were developed for the tasks in 2014;

2) Based on the assessment of their work in 2013, contracts with some of the PMO staff and experts were renewed;

3) Recruited local experts in EE bricks and EE buildings at pilot sites in addition to national experts, who played a positive role in successful project implementation at each pilot site.

In 2014, the project was well managed with high efficiency. The coordination and cooperation was smooth and the results were satisfying.

Monitoring and Evaluation

1) Daily M&E system:

Institutional arrangement: The project M&E was carried out under the leadership and supervision of TPR and PSC. The daily M&E was organized by the national PMO and carried out by the national PMO, the expert consultation committee, local PMOs and the construction management partners.

Procedure: 1) According to the requirements in the project document, the national PMO developed the annual work plan with detailed M&E indicators and plan; 2) The expert consultation committee, local PMOs and the construction management partners submitted progress reports to the national PMO; 3) The national PMO organized supervision and monitoring of project activities progress and quality, as well as the evaluation and assessment of important activities; 4) The APR was prepared by the national PMO and submitted to PSC and TPR for approval.

2) M&E in 2014includes:

i)Further refined the indicator system in 2014 annual work plan based on the ProDoc; ii)Developed M&E methodology and implementation plan of energy efficiency of EE bricks and rural EE buildings and carried out M&E activities accordingly; iii) Organized review of outputs of key

activities of 2014; iv) PMO carried out more than twice site visits to each pilot and on-going replication sites;

1) Response to the midterm evaluation suggestion:

The evaluation report had made a satisfactory conclusion on the overall implementation of 2013 and proposed the role of GEF in intervention and influence. In 2014 PMO held the meeting with stakeholders and local PMO, and under the guidance of the technical adviser from UNDP and NSC , launched special activities in 2014 work plan from the respects of information system, evaluation on the cost efficiency of demo and replication sites, implementation of EE brick national standards. At present, all activities are in progress, and will achieve the final outcomes in 2015-2016.

Practices in 2014 showed that the operation of track evaluation system was timely and effective, related work plan have provided sufficient funds budget guarantee for the implementation of track evaluation.

Risk management

Main risks in 2014 were basically the same with those in 2013, which were: 1) How to achieve and identify the demonstration effects and promote to stakeholders; 2) How to realize effective management, with the consideration of different regions, sectors, departments, fields, objectives and levels, especially to encourage local project teams and to ensure the full-cycle-quality-control of project implementation. However, all risks were timely and effectively controlled by the PMO with the guide of UNDP (see section 1 and section 2). The project was smoothly implemented.

Communication and advocacy

Communication and advocacy (C&A) is one of the 4 components of the project and systematic and specific activities were designed. C&A is also one of the major project management procedure and methods. For both project activities and management, C&A has carried out activities focus on the following aspects in2014: 1) to remove the barriers that hinder the stakeholders, especially farmers and rural companies, accessing related information and to establish sustainable information dissemination mechanism; 2) for the project management, to establish efficient institutional arrangement and normative operation system, including PSC, expert consultation committee, website, etc.; 3) to visit the project sites regularly and to discover and involve important stakeholders, thus to improve the project activity design and to enlarge the impacts and partnership base.

Special note: The project has carried out series of information dissemination activities beyond the original design of the project documents and achieved initial outcomes, which further strengthened the project impacts and sustainability (please refer the section 2 for details).

4. Financial Management

	Source of Fund	Budget	Expenditure
Expenditure Vs. Approved project budget by source of funding	UNDP	1,165,137	1,058,528.56
	Government Cost Sharing		
	Third Party Cost-sharing		
	Other (please specify)		
	Total		

Outcome	Source of Funding	Budget Description	Annual Budget (USD)	Annual Expenditure (USD)	Note
Outcome1	GEF	71300	24000	16060.96	
	GEF	72100	20000	20000	
	GEF	74500	1320	1080.181	
Outcome2	GEF	72100	64000	88882.72	
	GEF	74500	4020	5342.750	
	GEF	75700	70000	88764.22	
Outcome3	GEF	71300	24000	24000.00	
	GEF	72100	191000	251013.48	
	GEF	74500	6450	8252.511	
Outcome4	GEF	71200	75600	75600.00	
	GEF	71300	88000	75220.97	
	GEF	72100	395150	242052.41	
	GEF	74500	20212.5	13121.961	
	GEF	75700	115000	38507.69	
Outcome5	GEF	71200	0.00	540.21	
	GEF	71300	48000	47477.63	

	GEF	71600	16451	45392.28
	GEF	74100	0.00	3813.07
	GEF	74500	5023.53	4807.93
	GEF	76100	0.00	0.04

5. Management recommendations

The management strategy of 2014 includes scientific decision-making, timely adjustment, integration and opening, adaptation to local conditions, and public participation.

- Scientific and rigorous working procedure: According to the GEF/UNDP rules and based on PMO's over 10-year experience in implementing GEF/UNDP projects, the project is managed normatively, systematically and comprehensively: 1) Based on the investigation, study and expert consultation, the annual workplan was made with full consideration of the logical connection between activities and various possible restrains; 2) the procurement of services and equipment; 3) rigorous monitoring and supervision of project implementation; 4) results evaluation and assessment and quality control by expert team; 5) develop scientific and practical monitoring and evaluation plan, as well as recording and reporting system; 6) regular communication with UNDP and the financial service provider to be guided timely; 7) continuous management capacity building of the project teams, especially local project teams.
- Flexible and quick adjustment: As mentioned in section 2, new project activities and management mechanism were added based on the changed situation and deepening understanding, thus the project sustainability and GEF/UNDP impacts are enhanced and the project objectives and outcomes are ensured.
- The implementation strategy of being integration and opening is the key to guarantee project success and expansion of the GEF macro-impact (timely adjustment with project objectives unchanged, open selection of technologies and products, open management arrangements); PMO further consolidate cooperation with related agencies, such as wall material innovates Work Committee China Association of Circular Economy, China Bricks & Tiles Industrial Association, Ministry of Housing and Urban-Rural Development, China Academy of Building Research, Xi'an Research &Design Institute of Wall & Roof Materials and local PMO, to relies resource sharing and activities complementary. The project have promoted the innovation of wall materials and speed up the Bricks and tiles industry upgrading in China, also prompt the application of EE brick in EE building in rural areas. Meaning time, the strategy ensures the smooth implementation of project activities, and the accomplishment of outcomes and outputs and the establishment of a sustainable mechanism for GEF intervention.
- Adaptation to local conditions: With project objectives kept unchanged, technical implementation and management methods were made flexibly to be targeted and adapted to different local conditions (differences in management capacity, economic development levels, resources of wall materials, living habits of local people, etc.) of the pilot sites. According to the changed practical situation of project in 2014, to ensure the smooth implementation of the project, the demonstration sites and implementation strategy were adjusted and the local project management were rearranged in Gansu, Sichuan, Hunan and Anhui

Provinces through meetings.

- Public participation: As the application and replication of EE bricks and rural EE buildings involves actual benefits of the mass rural residents, farmers' participation in project implementation is necessary to ensure smooth project implementation and sustainable project results. The project made encouraging fruits in this aspect in 2014. For example, in construction of the extension project, farmers were involved via various forms of the meetings organized by the local project team throughout the whole process of planning, design and construction of the EE buildings. Besides, farmers were also organized to visit the brick-making plants to see the whole process of EE brick-making to learn the good quality of EE bricks, thus they would become more active and initiative in adopting EE bricks and EE buildings.

6. Annexe/s