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GLOBAL ENVIRONMENT FACILITY

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IMPLEMENTATION OF THE POZNAN STRATEGIC PROGRAM
ON TECHNOLOGY TRANSFER:
A PROGRESS REPORT OF THE GLOBAL ENVIRONMENT
FACILITY TO THE SUBSIDIARY BODY FOR IMPLEMENTATION
AT ITS THIRTY-SIXTH SESSION

1. The Global Environment Facility (GEF) prepared this progress report for the thirty-sixth session of the Subsidiary Body for Implementation (SBI 36) to the United Nations Framework Convention on Climate Change (UNFCCC).
2. The Conference of the Parties to the UNFCCC at its fourteenth session (COP 14) welcomed the GEF's Strategic Program on Technology Transfer (renaming it the Poznan Strategic Program on Technology Transfer) in COP decision 2/CP.14, as "a step towards scaling up the level of investment in technology transfer in order to help developing countries address their needs for environmentally sound technologies" and recognized "the contribution that this strategic programme could make to enhancing technology transfer activities under the Convention."
3. COP decision 2/CP.14, in Paragraph 2, requested the GEF to:
 - (a) To promptly initiate and expeditiously facilitate the preparation of projects for approval and implementation under the strategic programme referred to in paragraph 1 in order to help developing countries address their needs for environmentally sound technologies;
 - (b) To collaborate with its implementing agencies in order to provide technical support to developing countries in preparing or updating, as appropriate, their technology needs assessments using the updated handbook for conducting technology needs assessments for climate change published by the United Nations Development Programme, to be made available in early 2009 in collaboration with the Expert Group on Technology Transfer, the UNFCCC secretariat and the Climate Technology Initiative;
 - (c) To consider the long-term implementation of the strategic programme, including: addressing the gaps identified in current operations of the Global Environment Facility that relate to investment in the transfer of environmentally sound technologies; leveraging private-sector investment; and promoting innovative project development activities;
 - (d) To report on the progress made in carrying out the activities referred to in paragraph 2 (a-c) above to the Conference of the Parties at its sixteenth session, in addition to providing interim reports to the Subsidiary Body for Implementation at its thirtieth and thirty-first sessions, with a view to assessing its progress and future direction in order to help inform Parties in their consideration of long-term needs for implementation of the strategic programme.
4. In accordance with decision 2/CP.14, the GEF presented interim reports to SBI 30 and SBI 31, respectively, on the progress made in carrying out the Poznan Strategic Program on Technology Transfer.

5. Subsequently, the conclusions of SBI 31 (FCCC/SBI2009/L.18) invited the GEF to provide a report on the progress made on the implementation of this program at SBI 32, including on the long-term aspects of the Poznan Strategic Program. In response to the above conclusions of SBI 31, the GEF presented an interim report to SBI 32.
6. In accordance with decision 2/CP.14, the GEF presented a report to COP 16 on the progress made in carrying out the activities of the Poznan Strategic Program on Technology Transfer.
7. Conclusions from the SBI 34 agenda item 12 on the development and transfer of technologies (conclusion L.10) stated the following:
 - (a) The SBI noted the oral report by the GEF and expressed its appreciation to the GEF and its agencies, the United Nations Development Programme and the United Nations Environment Programme on the progress made in carrying out the Poznan strategic programme on technology transfer.
 - (b) The SBI welcomed the progress made in providing technical and financial support to assist 36 non-Annex I Parties in developing and updating their technology needs assessments (TNAs). The SBI noted that many non-Annex I Parties expressed their interest to conduct or update their TNAs. The SBI recommended that the COP, at its seventeenth session, invite the GEF to continue to provide financial support to other non-Annex I Parties, as appropriate, to conduct or update their TNAs, noting the availability of the updated handbook *Conducting Technology Needs Assessments for Climate Change*.
 - (c) The SBI welcomed the progress made by the GEF in providing support for piloting priority technology projects as part of the Poznan strategic programme. The SBI noted that the pilot project proposals submitted by non-Annex I Parties and supported by the GEF included only one project on technologies for adaptation. The SBI also noted the importance of projects on technologies for adaptation, including on the development and strengthening of local knowledge, and invited the GEF, Parties and relevant organizations in a position to do so to provide financial support for project proposals, including those for pilot projects, of the types supported by the Poznan strategic programme related to technologies for adaptation.
 - (d) The SBI recalled the conclusions of its thirty-second session inviting the GEF to provide half-yearly progress reports on the implementation of the activities receiving support under the Poznan strategic programme. It invited the GEF to provide reports on the progress made in carrying out its activities under the Poznan strategic programme, including its long-term implementation, for

consideration by the SBI at its thirty-fifth and subsequent sessions, for the duration of the Poznan strategic programme.

8. In accordance with SBI 34 agenda item 12 conclusions, the GEF presented its progress in carrying out activities under the Poznan strategic program to COP 17. The GEF presented a summary of the report to the COP at the SBI 35.
9. Draft conclusions proposed by the Chair on the SBI 35 agenda item 11 (FCCC/SBI/2011/L.34) stated the following:
 - (a) The Subsidiary Body for Implementation (SBI) noted the report of the Global Environment Facility (GEF) on the progress made in carrying out the Poznan strategic programme on technology transfer, 1 including its long-term implementation, as invited by the SBI at its thirty-fourth session.
 - (b) The SBI acknowledged the support provided by the GEF for the implementation of technology transfer pilot projects and for the conduct of TNAs. It further acknowledged the progress made in implementing the long-term programme on technology transfer. Furthermore, it urged the GEF and Parties to expedite the process for the early implementation of projects submitted before 30 September 2009.
 - (c) The SBI encouraged Parties not included in Annex I to the Convention to develop and submit project proposals, particularly for technologies for adaptation, to the GEF in line with elements of the long-term programme on technology transfer described in document FCCC/SBI/2011/14 paragraphs 46 and 47. The SBI invited the GEF to raise awareness of the long-term programme on technology transfer.
 - (d) The SBI welcomed the results of the TNAs that are being prepared under the Poznan strategic programme in cooperation with the United Nations Environment Programme (UNEP).
10. The present report is prepared in response to the above SB requests. It covers the period of October 2011 to February 2012.

POZNAN STRATEGIC PROGRAM ON TECHNOLOGY TRANSFER

11. In November 2008, the GEF Council and the Least Developed Country Fund (LDCF)/Special Climate Change Fund (SCCF) Council approved the Strategic Program on Technology Transfer. The Program aimed to scale up the level of investment in the transfer of environmentally sound technologies (ESTs). The

approved Program included a funding window of \$50 million with \$35 million coming from the GEF Trust Fund and \$15 million coming from the SCCF. The Strategic Program was then renamed the Poznan Strategic Program on Technology Transfer at COP 14.

12. There are three funding windows to support technology transfer under the Poznan Strategic Programme, namely: (1) TNAs; (2) piloting priority technology projects linked to TNAs; and (3) dissemination of GEF experience and successfully demonstrated ESTs.
13. The report presents the progress made in the order of the COP decision paragraphs. Section A on technology transfer pilot projects documents the progress made in carrying out the activities referred to in COP decision 2/CP.14 Paragraph 2 (a). Section B on technology needs assessments reports on the progress made in carrying out the activities referred to in 2/CP.14 Paragraph 2 (b). Section C on long-term implementation of the Poznan Strategic Program reports on the progress made in carrying out the activities referred to in 2/CP.14 Paragraph 2 (c). In addition, the dissemination of the GEF experience and successfully demonstrated ESTs is presented as Section D.

A. Technology Transfer Pilot Projects

14. The purpose of this funding window for technology transfer pilot projects was to finance projects that support the deployment, diffusion, and transfer of technologies that have been identified by countries as priorities.
15. The Call for Proposals for technology transfer pilot projects was issued on March 25, 2009, including the background information, procedure for proposal submission, and selection criteria. The deadline for submission was August 14, 2009, which was subsequently extended to September 30, 2009.
16. Fourteen proposals of technology transfer pilot projects were prioritized for funding out of 39 proposals submitted to the GEF Secretariat. During the call for proposals, only one proposal for adaptation was received. This proposal was funded, along with three other proposals that included adaptation elements. Total GEF resources requested for these 14 projects amounted to \$36.8 million from the Poznan Program, with additional \$21.2 million requested from the GEF Trust Fund. Total GEF funding for these pilot projects amounted to \$58 million, and total co-financing amounted to more than \$195 million. The project proposals and CEO endorsement documents of those under implementation are available at the GEF website:

http://www.thegef.org/gef/gef_projects_funding.

17. As of February 2012, GEF Agencies charged with implementing these 14 pilot projects have reported progress in project preparation and implementation:
- (a) Five projects have been CEO endorsed and are progressing in project implementation. These projects take place in China, Jordan, Mexico, Russia, and Thailand.
 - (b) Seven projects have been undergoing preparations for CEO endorsement by respective GEF Agencies and countries. These projects take place in Senegal, Sri Lanka, Cambodia, Chile, Cote d'Ivoire, Brazil, and Cook Islands/Turkey.
 - (c) One project was cancelled upon request from a GEF Agency in late 2010. It was re-submitted by another Agency, and was approved by the GEF Council in November 2011. This project is included under the Poznan pilot project portfolio, taking place in Colombia, Kenya, and Swaziland.
 - (d) One project was cancelled upon request from the GEF Agency in July 2011.

Table 1 provides a summary of progress for project development and implementation of the pilot projects.

18. The technologies targeted by these projects address both mitigation and adaptation, and are diverse and innovative. They include technologies on renewable energy, energy efficiency, transport, agricultural irrigation, composting, and renewable carbon capture and storage.

B. Technology Needs Assessments (TNAs)

19. The TNA project concept, under window one of the Poznan Strategic Program, was approved by the LDCF/SCCF Council in April 2009. Based on this TNA project concept, UNEP, as the GEF Agency, developed a full project document, which was endorsed by the GEF CEO in September 2009. Project implementation by UNEP started in October 2009. Total GEF funding for this project is \$9 million.
20. The objective of the TNA project is to provide targeted financial and technical support to assist 35 to 45 developing countries in developing and/or updating their TNAs within the framework of Article 4.5 of the UNFCCC. The intention is that assisted countries go beyond identifying technology needs narrowly and develop national technology action plans (TAPs) for prioritized technologies. The

objective also seeks to use the updated TNA Handbook and provide feedback to fine-tune methodologies through and iterative process.

21. Key areas of the UNEP TNA project progress, summarized from an update submitted by the Agency, include the following:
- Thirty-six countries are participating in the TNA project. They include:
 - Africa: Cote d'Ivoire, Ethiopia, Kenya, Ghana, Mali, Morocco, Mauritius, Rwanda, Senegal, Sudan, Zambia;
 - Asia and Europe: Azerbaijan, Bangladesh, Bhutan, Cambodia, Georgia, Indonesia, Kazakhstan, Laos, Lebanon, Moldova, Mongolia, Nepal, Sri Lanka, Thailand, Vietnam; and
 - Latin America and the Caribbean: Argentina, Bolivia, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Peru.
 - A Project Steering Committee (PSC) has been constituted by UNEP, to assess the project progress and plan the upcoming activities. The PSC consists of representatives of the GEF Secretariat, the Expert Group on Technology Transfer (EGTT) until 2010 and Technology Executive Committee (TEC) since 2011, the UNFCCC Secretariat, UNEP, UNDP, UNIDO, the World Bank, UNEP Risoe Centre and the GEF Secretariat. PSC meetings have been held in December 2009, June 2010, November 2010, and November 2011. The tentative date for the fifth PSC meeting is May 2012.
 - Building on the foundation established in most countries, technical support and stakeholder engagement activities are underway. During the reporting period, a second round of regional capacity building workshops for second round countries was held in February 2012 in Africa, Asia and Latin America.
 - In regards to progress in TNA preparations, draft TNA reports were submitted from 12 countries (Bangladesh, Cambodia, Costa Rica, Cote d'Ivoire, Georgia, Indonesia, Mali, Morocco, Peru, Senegal, Thailand, and Vietnam) in 2011. TAPs were submitted from six countries (Costa Rica, Cote d'Ivoire, Indonesia, Morocco, Mali, and Thailand). For the remainder of the countries, UNEP requested a project extension until April 2013.
 - The project has published material in 2010 and 2011 in relation to TNA practices. Three guidebooks to support adaptation TNAs and thee sectoral guidebooks for mitigation have been developed and published. Also, two finance guidebooks, one for mitigation and one for adaptation projects, are under review and expected to be published in the first quarter of 2012.

- A series of case studies titled “Technology Transfer Perspectives” covering technology for adaptation and renewable energy were published in November 2011 and is available from the project website, <http://www.tech-action.org/perspectives.asp>.
- The use of the updated handbook for conducting TNAs for climate change published by UNDP was included in COP decision 2/CP.14. The handbook has been shared with country teams and is being used as the basic resource document on the general methodology of sector prioritization.
- The first project newsletter ("TNA Newsletter"), aimed at keeping countries and other stakeholders informed of the project progress and sharing experiences, was published in June 2011. The second newsletter was released in October 2011, and the third volume was published in November 2011 and distributed during COP 17.
- The project held a side event during COP 17.

C. Long-Term Implementation of the Poznan Strategic Program

22. In keeping with the COP 14 decision that requested the GEF to consider the long-term implementation of the strategic program on technology transfer, the GEF has identified technology transfer as a longer-term priority in the climate change focal area for GEF-5 programming. GEF-5 climate change mitigation strategy promotes technology transfer at various stages of the technology development cycle, from demonstration of innovative, emerging low-carbon technologies to diffusion of commercially proven, environmentally sound technologies and practices. For adaptation, the transfer and adoption of technologies is a strategic objective of the LDCF and the SCCF.
23. In response to decision 2/CP.14, the GEF submitted a Long-Term Program on Technology Transfer to COP 16. The GEF submission included the following elements to further scale up investment in ESTs in developing countries in accordance with the GEF climate change strategy, and to enhance technology transfer activities under the Convention:
 - (a) Support for Climate Technology Centers and a Climate Technology Network
 - (b) Piloting Priority Technology Projects to Foster Innovation and Investments
 - (c) Public-Private Partnership (PPP) for Technology Transfer
 - (d) Technology Needs Assessments (TNAs)

(e) GEF as a Catalytic Supporting Institution for Technology Transfer

24. The progress made in Long-Term Program implementation was reported to COP 17. During this reporting period, the following progress has been made in the elements of the Long-Term Program.

(a) Support for Climate Technology Centers and a Climate Technology Network:

In May 2011, the GEF Council approved a regional pilot project titled *Pilot Asia-Pacific Climate Technology Network and Finance Center* submitted jointly by the Asian Development Bank (ADB) and UNEP. The project was submitted for CEO endorsement in December 2011 and is undergoing revision by the two Agencies.

(b) Piloting Priority Technology Projects to Foster Innovation and Investments:

During this reporting period, the following project concepts that promote the demonstration, deployment, and transfer of innovative low-carbon technologies (objective 1 of the GEF-5 climate change mitigation strategy) have been approved by the GEF Council:

- Global: SolarChill Development, Testing and Technology Transfer Outreach
- Global: Fifth Operational Phase of the GEF Small Grants Program - Implementing the program using STAR resources
- Regional(Bangladesh, China, Mongolia): ASTUD Asian Sustainable Transport and Urban Development Program (PROGRAM)
- Uzbekistan: Sustainable Agriculture and Climate Change Mitigation Project
- Russian Federation: ARCTIC GEF-Russian Federation Partnership on Sustainable Environmental Management in the Arctic under a Rapidly Changing Climate
- India : Promoting Business Models for Increasing Penetration and Scaling up of Solar Energy

In addition, the GEF Council has approved a number of project concepts that contain technology transfer under additional GEF-5 objective areas that address market transformation in energy efficiency, investments in renewable energy, low-carbon transport urban systems, and conservation and

enhancement of carbon stocks through sustainable management of land use, land-use change, and forestry (objectives 2 through 5 of the GEF-5 climate change mitigation strategy).

(c) Public Private Partnership (PPP) for Technology Transfer:

PPP Programs can be a strong tool for promoting technology transfer by supporting businesses in developing countries that are trying to commercialize or scale-up ESTs. The GEF Council approved the revised private sector strategy in November 2011. Following this approval, the GEF Secretariat is developing, in consultation with the GEF Agencies, a paper outlining operational modalities for private sector engagement. In addition, the GEF Secretariat has been working with GEF Agencies to develop full proposals for PPP Programs. The operational modalities and one or more PPP Program proposals are expected to be presented to the June 2012 GEF Council.

(d) Technology Needs Assessments (TNA):

The GEF is ready to support additional TNAs focusing on small and medium income countries, taking into consideration the lessons learned from the ongoing Poznan-supported TNA project implemented by UNEP. UNEP is conducting a mid-term review of the project to articulate such lessons learned. During this reporting period, the GEF did not receive any request for larger scale TNAs to be financed with GEF national allocations.

(e) GEF as a Catalytic Supporting Institution for Technology Transfer:

The GEF participated in key international discussions supporting the development of technology transfer initiatives and to raise awareness about the Longer-Term Program during the reporting period. Some examples include the following:

- COP 17 Side event on GEF: “GEF Innovations and Technology Transfer”, 3 December 2011. The objective of the meeting was to share information about GEF innovative approaches to technology transfer as well as to launch the first GEF funded regional climate technology center and network in the Asia-Pacific region.
- COP 17 Side event on TNAs: “Technology Needs Assessment Progress”, 30 November 2011, organized by UNEP.
- Joint SBI/SBSTA Forum on the Impact of the Implementation of Response Measures, 1 December 2011, organized by the UNFCCC Secretariat during COP 17. The GEF presented its technology transfer support, including the Long-Term Program.

- Technology Mechanism-related meeting: The GEF attended the second meeting of the Technology Executive Committee (TEC), held from 15 to 17 February 2012 as an observer.

D. Dissemination of GEF Experiences and Successfully Demonstrated Environmentally Sound Technologies (ESTs)

25. The GEF has been preparing a publication on energy efficiency, summarizing good practices and other lessons learned from GEFs portfolio of energy efficiency projects. The publication is expected to be formally launched at the occasion of Rio+20 Conference in June 2012.
26. Information on technology transfer is updated regularly in the GEF website.
27. In addition to the meetings summarized in paragraph 24, the GEF presented its technology transfer programming at the following additional meetings, many of which included the UNFCCC national focal points as participants:
 - GEF Familiarization Seminar, 17–19 January 2012
 - Extended Constituency Workshops
 - Uzbekistan, 11–13 October 2011
 - Kenya, 25–27 October 2011
 - South Africa, 1–3 November 2011
 - Burundi, 8–10 February 2012
 - Jordan, 15–17 February 2012
 - Eilat-Eilat Renewable Energy Forum for Renewable Energy Policy, 22 February 2012.

Table 1: Implementation Progress of Technology Transfer Pilot Projects Under the Poznan Strategic Program (as of February 2012)

* Including agency fee and project preparation grants (if any).

Country	Project title	GEF Agency	GEF Poznan Program Funding (\$)	Total GEF Funding (\$)	Co-financing (\$)	Comment on Progress
Brazil	Renewable CO ₂ Capture and Storage from Sugar Fermentation Industry in Sao Paulo State	UNDP	2,970,000	2,970,000	At Council Work Program Approval: 7,715,000	The project was approved by GEF council in November 2009. The Agency has not submitted the CEO endorsement request as of February 2012. The GEF requested the Agency to report on the project status in February 2012.
Cambodia	Climate Change related Technology Transfer for Cambodia: Using Agricultural Residue Biomass for Sustainable Energy Solutions	UNIDO	1,947,000	1,947,000	At Council Work Program Approval: 3,965,000	A revised CEO endorsement request was submitted in December 2011. GEF review comments were sent back to the Agency in January 2012. The project is technically cleared and awaits clarification regarding co-financing.
Chile	Promotion and Development of Local Solar Technologies in Chile	IDB	3,000,000	3,000,000	At Council Work Program Approval 32,400,000	Milestone extension was approved by the CEO in September 2010 after experiencing delays due to an earthquake (February 2010). A second milestone extension request was approved by the CEO in September 2011. The CEO endorsement request was submitted in February 2012.

Country	Project title	GEF Agency	GEF Poznan Program Funding (\$)	Total GEF Funding (\$)	Co-financing (\$)	Comment on Progress
China	Green Truck Demonstration Project	World Bank	2,998,000	4,867,500	At CEO endorsement: 9,770,000	The project was endorsed by the CEO in March 2011 and approved by the World Bank Board in April 2011. Project Launch took place in China in October 2011. The project is under implementation.
Colombia, Kenya, Swaziland	SolarChill: Commercialization and Transfer	UNEP	2,841,300	2,841,300		The project was re-submitted by UNEP after the World Bank requested its cancellation in December 2010. The GEF Council approved the project in November 2011. The CEO endorsement request is expected to be submitted in 2012.
Cote d'Ivoire	Construction of 1000 Ton per day Municipal Solid Wastes Composting Unit in Akouedo Abidjan	AfDB	3,000,000	3,000,000	At Council Work Program Approval: 36,898,500	The project preparation exercise is underway. Milestone extension request was approved by CEO in September 2011. The CEO endorsement request is to be submitted in May 2012.
Jamaica	Introduction of Renewable Wave Energy Technologies for the Generation of Electric Power in Small Coastal Communities	UNDP				The Agency informed the GEF about its intention to cancel the project. GEF awaits official withdrawal request.

Country	Project title	GEF Agency	GEF Poznan Program Funding (\$)	Total GEF Funding (\$)	Co-financing (\$)	Comment on Progress
Jordan	DHRS Irrigation Technology Pilot Project to Face Climate Change Impact	IFAD	2,365,020	2,365,020	At CEO endorsement: 5,516,000	The project was endorsed by the CEO in August 2011. Project implementation is underway.
Mexico	Promotion and Development of Local Wind Technologies in Mexico	IDB	3,000,000	5,500,000	At Council Work Program Approval: 18,600,000	Project was endorsed by the CEO in December 2011. Project implementation started in early 2012.
Russia	Phase out of HCFCs and Promotion of HFC-free Energy Efficient Refrigeration and Air-Conditioning Systems in the Russian Federation through Technology Transfer	UNIDO	2,970,000	19,998,000	At CEO endorsement: 40,000,000	The project was endorsed by the CEO in August 2010. Project implementation is underway.
Senegal	Typha-based Thermal Insulation Material Production in Senegal	UNDP	2,310,000	2,310,000	At Council Work Program Approval: 3,400,000	The CEO endorsement request was re-submitted in December 2011. GEF review comments were sent back to the Agency in January 2012. Revised project is expected to be submitted in March 2012.

Country	Project title	GEF Agency	GEF Poznan Program Funding (\$)	Total GEF Funding (\$)	Co-financing (\$)	Comment on Progress
Sri Lanka	Bamboo Processing for Sri Lanka	UNIDO	2,700,500	2,700,500	At Council Work Program Approval: 10,700,000	The CEO endorsement request was re-submitted in December 2011. GEF review comments were sent back to the Agency in January 2012. The revised CEO endorsement request was submitted in February 2012.
Thailand	Overcoming Policy, Market and Technological Barriers to Support Technological Innovation and South-South Technology Transfer: The Pilot Case of Ethanol Production from Cassava	UNIDO	2,970,000	2,970,000	At Council Work Program Approval: 8,340,000	The CEO endorsement request was re-submitted in December 2011. The project was recommended for CEO endorsement in February 2012.
Turkey, Cook Islands	Realizing Hydrogen Energy Installations on Small Island through Technology Cooperation	UNIDO	3,000,000	3,000,000	At Council Work Program Approval: 3,500,000	The CEO endorsement request was submitted in September 2010. GEF review comments were sent back to the Agency, and follow-up discussions took place between the Agency and GEF. The GEF requested the Agency to report on the project status in February 2012.
TOTAL			36,071,820	57,469,320	180,804,500	