

Energy Efficient Cities Initiative

Context

Recognizing that cities are an important engine for economic growth and socioeconomic development, and rapid urbanization will lead to massive requirements for new energy sources and environmental challenges, ESMAP launched its [Energy Efficiency Cities Initiative](#), or EECI, in December 2008 to help scale-up energy efficiency (EE) improvements in urban development and planning across the developing world. Using energy more efficiently can lower a city's dependence on imported fuels and its energy costs while freeing up resources that can improve or extend access to basic city services. Such measures can also bring many "co-benefits," such as higher local investment, job creation, improved competitiveness, and enhanced quality of life (e.g., reduced commuting times, improved air quality and health).

The program was launched following a [Practitioners Roundtable](#), co-hosted by the World Bank's Urban Anchor, in October 2008, which brought together client cities, potential partners and other practitioners to share experiences and identify remaining gaps. The program will help city mayors, planners and administrators make better informed decisions, across six key sectors – buildings, water, transport, public lighting, solid waste and heating and power. This multi-sector and demand-driven program seeks to leverage World Bank investments as well as foster global partnerships to help cities grow in a more sustainable manner. The program includes a full range of available support, from upstream market assessments to project design to program monitoring and dissemination. The five main components include: (i) analytical work, including tools; (ii) direct technical assistance to cities to help influence their city development strategies (CDSs); (iii) a city EE case study database and innovation awards; (iv) mobilization of financing; and (v) outreach and partnerships.

Program Update

Since the program's launch, EECI has completed a number of outputs and milestones, including:

Analytical Work

- Development and field testing of an **innovative city energy diagnostic tool (Rapid Assessment Framework)**, to help cities quickly assess their EE performance, identify underperforming sectors, and define measures the city can take to make improvements (available October 2010).
- Created **external expert panel**, including developing city officials, practitioners and academia, to review the diagnostic tool and collaborate on data sharing and tool dissemination.
- Completed four key **AAA products**, including the Energy and Cities chapter of East Asia's *Eco2: Ecological Cities as Economic Cities* Program (June '09), *Public Procurement of Energy Efficiency Services: Lessons from International Experience* (Dec '09), and an edited book on *Energy Efficient Cities – Assessment Tools and Benchmarking Practices* (April '10), and *Mainstreaming Building Energy Efficiency Codes in Development Countries* (Sept '10).

Knowledge Management

- A memorandum of understanding with the [Cities Alliance](#) (Jan '09) to provide EECI technical assistance to cities preparing their development strategies. The first grant to Quezon City, *Philippines*, was launched Jan '10 to develop an energy efficient/green buildings program and a second to Zarqa Municipality, *Jordan* launched in Sept '10 to prepare an urban mobility plan.

- Launched the **energy and water partnership** with the International Benchmark Network of Water and Sanitation Utilities (IBNET) to promote the adoption of energy management practices in water utilities, including a pilot study in *Vietnam*.
- Launched the **EECI city project database** (Oct '09), which now has nine [detailed case studies](#) on EE initiatives undertaken by cities around the world, and the **EECI Innovation Awards** (Jan '10), which will recognize cities for innovative and high impact programs.
- Sponsoring and participation in several **global forums**, such as the *ICLEI Local Government Climate Session* side event at COP-14 (Poznan, Dec '08), *Energy Efficiency in Cities* session at the *World Bank's Energy Week* (Washington, March '09), the *Energy Efficiency Global Forum* (Paris, Apr '09) and the *Senior Policy Seminar on Climate Change, Housing and Liveable Cities in Asia and Africa* (Singapore, June '09), two parallel sessions at the Bank's 5th *Urban Research Symposium – Cities and Climate Change: Responding to an Urgent Agenda* (Marseilles, June '09), the *EE Public Procurement* training session at the *World Bank's SDN Week* (Jan '10), the *West African Regional Workshop on Energy Efficiency* (Ouagadougou, Apr '10), the *Energy Efficiency Global Forum* (Washington, D.C., May '10), the *APEC Cooperative Energy Efficiency Design for Sustainability (CEEDS) Workshop* (Bangkok, Sept '10), *21st World Energy Congress* (Montreal, Sept '10).
- Sponsored and participated in two regional practitioners' workshops on EE and cities in June '10, including [Financial and Technical Solutions for Sustainable Cities](#) (Brasilia, Brazil) and [Energy Efficient Cities in Russia: Preparing, Financing and Implementing Municipal Energy Efficiency Programs](#) (Kazan, Russia) to share EECI knowledge products and experiences to date and support potential new World Bank investment operations.
- Fostered **global partnerships** with like-minded programs, both inside and outside the World Bank. Discussions with [Singapore Institute of Planners](#), [Institute of Research and Urban Planning for Curitiba](#) (Brazil), [Clinton Climate Initiative](#), [Local Governments for Sustainability \(ICLEI\)](#), [International Energy Agency](#), Association of Energy Efficient Cities of Ukraine, [Swedish Energy Agency](#), and several cities (Quezon City, Durban, Lviv, Tianjin, Stockholm). Internally, EECI is working with the Urban, Energy, Transport, and Water Anchors; Carbon Finance; the World Bank Institute (WBI), and the regional urban and energy units.

Operational Leveraging

- Completion of **World Bank urban investment project preparation** work, including two project appraisals, for two EE urban projects in *China*. Project identification and development efforts underway in the *West Bank, Ukraine, Armenia, and Macedonia*. Total investments from projects total about **US\$97 million**.

Future Plans

Over the next year, EECI expects to:

- Apply the city energy diagnostic tool (RAF) in 3-4 cities to help develop policy and investment plans, as well as update its benchmark data and functionalities.
- Issue two guidance notes: (i) public procurement of EE services using World Bank procurement guidelines (Oct '10); and (ii) city bus fleet maintenance programs to improve fuel efficiency (Jan '11). The latter note will also be field tested in two Indian cities by Dec '10. Issue three 4-page dissemination notes on public procurement, building code implementation, and bus fleet maintenance.

- Develop e-learning course on public procurement in conjunction with the World Bank Institute for incorporation into their cities and climate change course modules.
- Develop an EE and water savings toolkit in conjunction with the World Bank Water Anchor. Once developed, the tool will be applied to develop a portfolio of policy recommendations and investments in client countries globally.
- Complete the Quezon City buildings TA and Zarqa Municipality urban mobility plan.
- Announce first round of EEI city awards and hold awards ceremony (Apr '11). Augment EEI case study database with an additional 15-20 case studies.
- Support continued preparations of World Bank urban investment operations with EE components in *Ukraine, China, Armenia, and Macedonia* as well as support project supervision in *Palestine/West Bank, and China*. Explore new project opportunities in *Russia, Brazil, Jordan and India*.
- Deliver one additional regional practitioners' workshop, and participate in suitable global fora to share EEI products and experiences. Continue to foster partnerships with relevant international organizations to collaborate on ongoing efforts and share experiences.