

Progress Summary for BEA Cities and Jurisdictions

As of July 2017

CITY	SELECTED BEA ACTIONS	MONTHS IN PRIOR & CURRENT BEA STAGES					KEY GOALS WITHIN CURRENT STAGE	OUTCOMES SO FAR WITHIN CURRENT STAGE
		0	1	2	3	4		
Alba Iulia, Romania	Policy: Align with investors for 2018 implementation of Smart City Pilot Project	24						
	Project: Conduct retrofits in over 2000 apartments in 30 multi-apartment buildings	24						
Belgrade, Serbia	Policy: Develop standard procedures for building retrofits, including consumption-based billing	1	5	9			• To draft the guidebook under the policy commitment (by August 2017)	background work (in process)
	Project: Conduct an energy retrofit on one or more public buildings	1	5	9			<ul style="list-style-type: none"> • To select the site • To select the measures • To determine the targeted project • To obtain technical design of the project (with elaborated measures and basis for implementation) • To have target baseline (current energy consumption and after the renovation) 	<ul style="list-style-type: none"> • received the list of schools 28.4.2017. • shortlisted to 3 schools 12.5.2017. -The school "Vlada Obradovic Kameni", in settlement Ledine-New Belgrade, selected for the demonstration project 16.5.2017. -ToR developed for the selection of the company which will do the technical design
Bogota, Colombia	Policy: Integrate a national regulation for building construction into local plans	6	5	8			<ul style="list-style-type: none"> • Define the "Primary Packages" for Bogota baseline and new targets for obligatory energy and water savings • Define "Beyond Code" targets for future incentives • Develop an Implementation Protocol for Resolution 549/15 • Alignment with existing and future policies as PPECS and the City's Territory Plan (POT) TRACKING <ul style="list-style-type: none"> • Design of a monitoring, reporting and verification mechanism (MRV) for the Implementation Protocol of Resolution 549/15, articulated with the licensing process for buildings. 	<ul style="list-style-type: none"> • Building workshops: May 24 and September 12 • Technical group meeting: September 14 • Partial submission indicators workshops: July 19 and August 2 • Indicators study submitted on August 18 • Normative board reunions on August 16, August 22, August 25 • Terms of reference published in CCCS web page on October 9
	Project: Apply best practice for new efficient buildings in a district scale regeneration project	6	5	8			<ul style="list-style-type: none"> • Develop water and energy efficiency recommendations for the technical design of urban planning from the Pilot Project and provide feedback for the EcoUrbanism and Green Building Public Policy (PPECS, by its Spanish acronym) in Bogotá D.C. • Tool for the calculation of GEI reduction in the pilot project 	<ul style="list-style-type: none"> • Pilot Project Workshops (Eco urbanism board) on August 24 • Tool for the calculation of GEI reduction in the Pilot Project submitted
Bucharest, Romania	Policy: Incorporate private investment into the city's sustainable development strategy	24						
	Project: Retrofit schools and apartment buildings	24						
Coimbatore,	Policy:	10	9					

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India	Project:	10	9					
	Policy: Develop a directive to implement efficiency measures in large buildings	8	7	8			<ul style="list-style-type: none"> The scope of the policy is identified; Policy's content is drafted; Policy is approved by the city government. 	<p>(1): 05 organizations were engaged in developing the policy: DoC, DoIT, Union of Science and Technology Associations (USTA), IFC and CCCO;</p> <p>(2): 01 additional policy instrument: training and propaganda plan about building efficiency and construction code 09;</p> <p>(3)</p> <p>- 06 organizations are to support the implementation of policy instruments: DoC, DoIT, Dept of Science and Technology, Dept of Planning and Investment, Dept of Finance, IFC)</p> <p>- The roles of 05 departments in the cooperation in tracking and managing building efficiency were identified.</p> <p>- 04 training classes are going to be organized in May/2017 with the support from DoC and IFC.</p> <p>- 12-15 June: Consulting experts by questionnaire to finalize the content of directive and communication plan.</p>
Da Nang, Vietnam	Project: Implement energy efficiency solutions for a hotel demonstration project	8	7	8			<ul style="list-style-type: none"> The site is decided, The agreement between the hotel and the project is signed; The saving solutions are developed; The funding is obtained. 	<p>(1):</p> <p>- MoU signing ceremony was organized with the participation of Lion Sea Hotel's owner, representative of DoC, DoIT, Department of Tourism, Power Company, mass medias and CCCO;</p> <p>- 08 days of energy audit at the hotel;</p> <p>- 05 contents of energy audit: lighting, air-condition, elevator and pumping, heating, glass systems and others;</p> <p>(2): 14 initially potential solutions were proposed (12 technical solutions and 02 managing ones);</p> <p>(3): identifying</p> <p>(4): 03 times of energy audit's results: city consultation with the participation of private sector, sending project brochure to SEforALL Forum in New York and sharing the result and meeting potential donors at 3GF event at Ha Noi;</p> <p>- The final energy audit report is being finalized.</p>

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Dubai, UAE	Policy: Adopt a policy for energy performance labeling of existing buildings	9	12				<ul style="list-style-type: none"> Analyze the results of the Action Prioritization Assessment Survey Evaluate and consider the suggestions provided by the stakeholders at the Engagement Meeting Selection of the BEA Policy and Project 	<ul style="list-style-type: none"> 37 respondents to the survey 24 organizations participated in the Stakeholder Engagement Meeting (13 business, 9 government, 2 NGO) Letters sent to main building developers in Dubai informing them about the selected policy and project.
	Project: Benchmark the energy performance of 100 buildings	9	9	3			<ul style="list-style-type: none"> Develop project structure (July 2017) Develop benchmarking methodology (Dec 2017) Secure funding for online tool development (Dec 2017) Invite developers, malls, schools and hotels to participate (2017-2018) 	<ul style="list-style-type: none"> The project structure has been developed (Sponsors, Leadership team, Advisory committee) have been invited. The methodology development is ongoing -- expected to be final by Q4 2017 end Sponsorship packages have been created and circulated to support costs of developing benchmarking tool. Lists of malls and schools have been compiled (Hotels: 78 properties, Malls: 55 properties, Schools: 141 properties)
	Policy: Implement a national mandate for energy performance certificates	7	7	7			<ul style="list-style-type: none"> Select policy instrument or policy package to be developed Identify specific project goals, actions, resources, and timeline Prepare work plan Prepare energy efficiency policy roadmap/incentive document 	<ul style="list-style-type: none"> Consensus for goals of the policy was developed building: to design a local above-code program to promote, incentivize, and encourage building practices that go above and beyond the base building energy code requirements (Class B or above building energy certificate) Content of the commitment (Work Plan) was prepared, including: the target, timeline, priority areas, resources, etc and agreed upon Policy instruments, which were selected for development and implementation were specified (training, awareness raising, finance, web site) Description of Energy efficiency policy roadmap is being prepared. Additional policy instruments to support building incentive program was prepared and currently being implemented

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Eskisehir, Turkey	Project: Integrate building efficiency measures in a new public building or public building retrofit	7	7	7			<ul style="list-style-type: none"> Develop demonstration project technical documentation Obtain project funding Prepare building inventory for municipal buildings Prepare a retrofitting plan 	<ul style="list-style-type: none"> Location of the project was selected (Extension to science & experiment center) Concept project was prepared. (As a pilot project, cost-effective energy efficiency solutions will be showcased by adapting an Integrated Building Design Approach in Eskişehir Metropolitan Municipality's new Energy Center.) Potential technologies were identified (High performance building envelope, Green roof, natural lighting with solar chimney, Appropriate sunshade settlements, Photovoltaic and solar-thermal panels, Rainwater collection system and grey water usage, Efficient soil borne based heat pump, Solar wall, Underground pipe system, Natural ventilation, Rough budget was estimated Sponsorship meetings were held Building inventory is being prepared Monitoring program is being developed in coop. with Zorlu Energy
Iskandar, Malaysia	Policy: Incorporate building energy efficiency requirements in guidelines for two localities	19						
	Project: Demonstrate the energy efficiency guidelines and incentives through pilot projects	19						
Jalisco, Mexico	Policy: Establish annual EE project budget; implement an energy management plan for public buildings	4	12					
	Project: Conduct energy retrofits / energy management programs in five public buildings	4	3	9			Identify the project action (January), make paperwork (April), approval from administrative department (June)	2 audits for solar energy projects already done, 4 audits for energy efficiency in processes, to be finished by February 2018;
Kisii County, Kenya	Policy:	11						
	Project:	11						
Mandaluyong, Philippines	Policy: Develop green building guidelines for new construction	25						
	Project:	25						
Medellín/Aburrá Valley,	Policy: To develop a preliminary business model to include sustainability measures in the capital investments and operations of existing buildings.	7	12					

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Colombia	Project: Analysis of energy consumption of 4 public buildings as a pilot for a larger retrofit program.	19						
Mérida, Mexico	Policy: By September 2017 begin to use the information of the climate analysis to make a "Bioclimatic Design Guide for the municipality of Mérida"	6	5					
	Project: By September 2017 begin to implement municipal energy project in six building from the municipality of Mérida with technology that guarantees energy efficiency.	6	5					
Mexico City, Mexico	Policy: Adopt and implement a building energy code	6	7	8	18			In implementation by the end of the year 2017: <ul style="list-style-type: none"> • Lighting retrofit • Modernization of computer equipment • Installation of light timers • Installation of motion sensor • Increase awareness regarding adequate use of energy • Cooperation with interested organizations for future project
	Project: Retrofit four public buildings using audits and benchmarking tools	6	7	18	8		• Implementation of optimum measures for energy reconversion.	#REF!
Milwaukee, USA	Policy: Further implementation of the Better Buildings Challenge program	21	9	9				
	Project: Refine and use the city's ECO Building Design Guidelines on a pilot project	21	9	9				
Munoz, Philippines	Policy: Adopt a building energy code to apply to all new construction	31						
	Project: Introduce the building energy code to stakeholders to prepare for implementation	31						
Nairobi, Kenya	Policy:	11						
	Project:	11						
Pasig, Philippines	Policy: By September 30, 2017, completed and approved the IRR of Green Building Ordinance of Pasig City.	9						
	Project: That Pasig City Government shall apply the Green Building Standards for all government buildings with at least 5,000 sqm Gross Floor Area.	9						

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Porto Alegre, Brazil	Policy: Launch a municipal fund for efficiency and renewable investment	20						
	Project: Benchmark municipal and school buildings to prioritize for investment	20						
Rajkot, India	Policy: Develop a Technical Guidebook on measures for building efficiency	5	6	8			<ul style="list-style-type: none"> • Develop and approve BEA work plan for Rajkot city • Preparation of Draft green building policy for Rajkot city • Solicit technical and financial assistance for green building measures from Accelerator partners 	<ul style="list-style-type: none"> • Rajkot's BEA work plan has been approved and signed by the city government. The work plan highlights the specific goals, targets and methods for implementing the City's goals on policy, project and MRV mechanism under the BEA program. • Indian Green Buildings Council (IGBC) conducted a half day training workshop with RMC officials, local builders & developers on green buildings in Rajkot in March under the aegis of BEA. • The Municipal Commissioner of Rajkot launched the preparation of a green building policy for Rajkot city at a workshop on Building Efficiency Accelerator (BEA) held on 16th March 2017. • RMC identifies central zone office building for conducting green building feasibility analysis for implementation of retrofitting measures. • The first draft of the policy is finalized detailing the assessment criterias, incentives framework and assessment process for implementation. • The draft policy is approved by the commissioner & city officials & a press release regarding the preparation of the policy is also made by RMC Commissioner. • At present the draft policy is out for comments from expert & non-expert stakeholders.

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	Project: Retrofit one or more existing municipal	5	6	8			<ul style="list-style-type: none"> Develop and approve BEA work plan for Rajkot city Selection of project for conducting feasibility analysis to improve energy efficiency Solicit technical and financial assistance for green building measures from Accelerator partners 	<ul style="list-style-type: none"> Rajkot's BEA work plan has been approved and signed by the city government. The work plan highlights the specific goals, targets and methods for implementing the City's goals on policy, project and MRV mechanism under the BEA program. The Municipal Commissioner of Rajkot launched the preparation of a green building policy for Rajkot city at a workshop on Building Efficiency Accelerator (BEA) held on 16th March 2017. RMC identifies central zone office building for conducting green building feasibility analysis for implementation of retrofitting measures. Econoler will assist Rajkot in identification of FINANCIAL MECHANISMS FOR ENERGY EFFICIENCY BUILDING RETROFITS based on the IGA being conducted on two RMC buildings.
Riga, Latvia	Policy: Introduce benchmarking or an energy reduction target for buildings	20						
	Project: Introduce a municipal revolving fund for multi-apartment renovations	20						
Santa Rosa, Philippines	Policy: Adopt a mandatory green building code	8	5				<ul style="list-style-type: none"> 1. Gather basic information/data necessary for the formulation of Green Building Code 2. Consultative meetings with experts and stakeholders for the formulation of the Santa Rosa Green Building Code in line with the Philippine National Green Building Code in terms of city implementation 3. Consolidation of existing national and local policies related to energy efficiency in buildings 4. Identification of existing best practices around the globe towards the formulation and implementation of GBC 	<ul style="list-style-type: none"> 1. n/a 2. Initial Meeting with the Philippine GBC. Proposal for drafting and consultation submitted by PGBC 3. n/a 4. n/a

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	Project: Launch a Green Building City Challenge for new and existing buildings	8	5				<ul style="list-style-type: none"> 1. List of data necessary to be gathered from the private 2. Conducted meetings with different experts and stakeholders towards the drafting of the GBC 3. Consolidated policies for energy efficient buildings 4. Identified best practices worldwide as inputs for the GBC formulation 	<ul style="list-style-type: none"> 1. n/a 2. Identified ___ industries within the City for the Assessment Survey. • Drafted the assessment survey form and to be submitted for review by the Philippine Green Building Council 3. n/a
Shimla, India	Policy:	19						
	Project:	19						
Tokyo, Japan	Policy: Transfer a carbon reporting program to other municipalities in the region	23						
	Project:	9	14					
	Policy: Implement the Green Economy Strategic Framework identified/as policy for the BEA	7	11	3			<ul style="list-style-type: none"> 1. Ensure the choice of policy implementation will be on energy, water, and waste management <ul style="list-style-type: none"> a. To set the target for energy savings (in relation to the baseline) b. To prepare the draft design of the main selected policy c. To select supporting policy mechanisms (regulation, incentives, awareness) d. To carry out stakeholders engagement activities 	<ul style="list-style-type: none"> 1. Buy-in / support from key stakeholders (especially Group Property, Research and Innovation department Management who are part of the city's stakeholders) has been done. The retrofit and refurbishment of a city building has been agreed upon

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Tshwane, South Africa	Project: Retrofit 2-4 municipal buildings including efficiency and rooftop solar deployment	7	14				<ul style="list-style-type: none"> 1. Identify locally-appropriate actions to improve building efficiency. 2. To select the site for the pilot project 3. To perform the audits of the current energy and water performance of the selected building and identify energy efficiency measures to be implemented. To engage relevant stakeholders with the expertise required for the project. 	<ul style="list-style-type: none"> 1/2: Buy-in from key stakeholder departments for building to be green star rated has been achieved. 1/2/3. Initial communication has already been made from the city's side via e-mails. 2. The pilot project for renovation has been selected through interdepartmental collaboration and the advisory committee (HB Phillips in Tshwane CBD). 2. There is a committee which has been established to assess the needs of the city departments that will occupy the space after the refurbishment and how to best integrate the green and energy efficient technology during the design of the project. 3. In Progress
Ulaanbaatar, Mongolia	Policy: Develop a standardized technical and financial procedure for residential building retrofits that can be replicated across districts of Ulaanbaatar	6	3				<ul style="list-style-type: none"> Collect data to inform selection of policy actions 	<ul style="list-style-type: none"> Building Energy Auditor is hired to carry out energy audit for 3 model buildings in Ulaanbaatar City
	Project: Develop a model project preparation for residential buildings in Bayangol district of Ulaanbaatar City, in line with existing regulations and Mongolia's thermal performance standards	6	1	2				
Warsaw, Poland	Policy: Adopt guidelines for building energy efficiency for public tender procedures	33	0	6			Adoption of Warsaw Housing Standard in the resolution on Warsaw Housing 2030 Programme.	<ol style="list-style-type: none"> Analysis of the outcomes of the workshops conducted in May-June 2017: Development of initial hierarchy and construction of the standard <ol style="list-style-type: none"> Intentions Areas of action Specific issues Criteria Indicators Establishment of the expert team working on the development of the standard. Expected date of adoption of the resolution: November 2017

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	Project: Implement the guidelines for thermal retrofits and the indicators from the Warsaw Housing Standard in the construction of the Warsaw Social District	33	0	6			Warsaw Social District – newly planned residential area with different kinds of buildings – social, built by housing associations, buildings with flats for commercial rental. This project will take into account measures on energy efficiency, water management and impact on climate. It will be model investment implementing Warsaw Housing Standard indicators.	