

AEEP at the Vienna Energy Forum 2015

Energy Efficiency, an essential driver for urban development in Africa

The Africa-EU Energy Partnership (AEEP) in cooperation with European Commission's Directorate General for International Cooperation and Development (DG DEVCO) and Directorate General for Energy (DG ENER) organised an event entitled "**Energy Efficiency, an essential driver for urban development in Africa**" on the **19th of June 2015, at the Hofburg Palace in the Schatzkammersaal in Vienna, Austria**, on the sidelines of the Vienna Energy Forum 2015.

Attended by more than 60 participants, the event was opened by **Dr. Mike Enskat, Programme Manager of the EU Energy Initiative Partnership Dialogue Facility (EUEI PDF)**, who introduced the event's **moderator Prof. Emanuela Colombo of the Politecnico di Milano**, UNESCO Chair in Energy for Sustainable Development. **Key note addresses were given by Mr. Felice Zaccheo**, Deputy Head of Water, Energy and Infrastructure Unit, Directorate General for International Cooperation and Development, European Commission. He highlighted that the population in African cities is rapidly growing to an estimated 1.3 billion people by 2050, which in turn will have to be supplied with sustainable modern energy services. He further emphasised that sound energy access and energy efficiency policies can be the answer to this challenge and in addition are essential cornerstones of socially and environmentally conscious development. Yet, he acknowledged that in order to implement these policies, strong commitment on local government level is required. He further pointed out that the European Covenant of Mayors has proven to increase local political ownership and that its success in promoting efficient use in Europe can potentially be repeated in Africa.

To set the scene for discussions and provide for a **common understanding on the progress of energy efficiency** in Africa, **Dr. Hussein Elhag**, Executive Director of the African Energy Commission (AFREC), **AEEP Co-Chair African Union Commission (AUC)**, presented key energy efficiency policies and strategies at the AUC, as well as monitoring efforts at AFREC. In addition, **Ms. Pirjo-Liisa Koskimaki**, Adviser to the Director of Renewables, Research and Innovation and Energy Efficiency, Directorate General for Energy, European Commission, proceeded to showcase European efforts to increase energy efficiency and achieve the ambitious goal of reducing primary energy consumption in Europe by 20% in 2020.

Practical on-the-ground experiences of promoting efficient use in urban areas of sub-Saharan Africa were presented in the preceding session. **Ms. Kerstin Faehrmann**, Head of Section Energy, Infrastructure and Natural Resources, German Federal Ministry for Economic Cooperation and Development as well as **AEEP Co-Chair** showcased German energy efficiency initiatives, as an example of European Member States engaging in increasing efficient use in sub-Saharan Africa. **Dr. Vincent Kitio**, Chief Urban Energy, **UN Habitat**, highlighted that a rapid urbanization is taking place in all African countries and that already over 70% of energy is consumed in cities; in particular more than half of total electricity consumption is contributed to buildings and in addition the demand for new housing is quickly increasing. **Mr. Edison Masereka**, Manager Business Development and Research, **Kampala Capital City Authority**, proceeded to familiarize the audience with energy efficiency initiatives in Uganda's capital Kampala. He went on to highlight challenges the local government is facing when promoting the efficient use of energy and thereby provided an example of sub-Saharan Africa's major cities. **Mr. Felice Zaccheo**, Deputy Head of Unit DG DEVCO, European Commission, and **Ms. Perla Srour-Gandon**, International Relation Officer, DG ENER, European Commission, presented in a joint manner the EU Covenant of Mayors, its international dimensions and a future project for Cities from sub-Saharan Africa.

The following moderated **panel discussion focused on breaking down the concept of energy efficiency in urban areas**, by identifying key stakeholder groups and main dimensions which have to be addressed when promoting the efficient use of energy in cities. **Mr. Thomas Guéret**, Seconded National Expert – Energy Efficiency DG DEVCO, provided further insights on the Covenant of Mayors initiative and its extension to sub-Saharan Africa. **Mr. Klaus Gühr**, Head of Division from Kreditanstalt für Wiederaufbau (KfW), advised on how investments in energy efficiency can be increased. **Ms. Markye van Staden**, Low Carbon Cities Program Manager at ICLEI Local Governments for Sustainability, voiced the crucial role of local governments as a pillar for improving urban energy efficiency. **Ms. Pirjo-Liisa Koskimaki** and **Dr. Elhag Hussein** brought in experiences from continental European and African energy efficiency promotion. **Dr. Vincent Kitio** provided expert insights from Western and Eastern Africa, while **Mr. Edison Masereka** informed the audience about specific needs on local government level in Kampala. Key conclusions from discussions included:

- **Energy access and energy efficiency have to be tackled alongside each other**, stakeholders have to be sensitized for choosing the right technologies when implementing access schemes and increasing generation capacities.
- **Clear legal frameworks are needed** when implementing energy efficiency measures in urban areas, in particular national policies have to be flexible enough to allow targeted interventions on municipal level. Local governments should clearly voice their request for support to national governments.
- **Political ownership is crucial** to the success of energy efficiency interventions on municipal level and one of the key outcomes of the experiences from the Covenant of Mayors. Each level of authority should be in charge of what they can do best. Large cities can be a catalyst for small cities.
- To improve **financing for energy efficiency interventions** it is crucial to have clear tariff schemes and to address energy subsidies. Bankable projects are an essential prerequisite; projects need to be soundly prepared and financial schemes have to be closely monitored.
- **Strong capacities are needed** in urban planning, energy planning, and integrated resource management, as well as for managing financial resources, when improving the efficient use of energy in urban environments. **Data collection efforts have to be strengthened** in order to create a sound baseline, especially on municipal level.
- **Awareness-raising is needed** at all levels from highest / decision-maker level to municipal and consumer level. At residential level, awareness should especially be raised among women, who are mostly heading households. Measurement and verification of energy efficiency interventions is key to create awareness.
- The rapidly **increasing demand for housing provides a golden opportunity** for improving energy efficiency in the building stock by mainstreaming energy efficiency measures into building codes, housing policies and building practices.

In his **closing remarks**, **Mr. Nico Longo**, Advisor at the Italian Ministry of Foreign Affairs and **AEEP Co-Chair**, highlighted that the event is the start of the AEEP Work Stream on energy efficiency and emphasised that the workshops very lively and productive discussions as well as active contributions further confirmed AEEP's role as a strategic platform for dialogue on energy cooperation between the two continents, as equal partners. Moreover, he was glad that the meeting provided the opportunity to present and discuss the experiences from Covenant of Mayors, for which he sees the AEEP as a relevant partner for the implementation in sub-Saharan Africa.

List of Participants

Name	Institution	Position
Abonyo, Barack	Kisumu County Government	Energy Expert
Adamczyk, Monika	International Atomic Energy Agency	Project Manager
Ahimbisibwe, Michael	Ministry of Mineral and Energy Development Uganda	Ag Principal Energy Officer
Andy, Downer	BDFA	
Arzt, Markus	Austrian Ministry of Foreign Affairs	Intern
Aste, Niccolo	Politecnico di Milano, Department of Architecture, Building environment and Construction Engineering	Associate professor
Bachler, Martin	Osram	Director
Barbieri, Jacopo	Politecnico di Milano, Department of Energy	Project Manager, Research Fellow
Benioff, Ron	National Renewable Energy Laboratory	Director Multilateral Programs
Breid, Berthold	Renewables Academy RENAC AG	CEO
Bromboszcz, Marta	Human Dynamics	Business Development Assistant
Chavula, Abel	ZESCO Ltd	Electrical Engineer
Colombo, Emanuela	Department of Energy - Politecnico di Milano	Rector's Delegate to Cooperation and Development
Crispen, Zana	African Union Commission	Advisor
Daka, Andrew	Executive Director	Pacific Power Association
Diecker, Johanna	Global Off-grid Lighting Association	Project Manager
Drillisch, Jens	Kreditanstalt für Wiederaufbau KfW	Deputy Head of Division
Duclos, Adeline	UNIDO	Consultant
Elhag, Hussein	African Energy Commission (AFREC)	Executive Director
Enskat, Mike	EUEI PDF	Programme Manager
Esia, Thoni	JPO	Director
Faehrmann, Kerstin	Federal Ministry of Economic Cooperation and Development	Head of Section
Fall, Amyata	UNIDO	Energy Expert
Faraldo, Caroline	UNIDO	Consultant
Ferrini, Luca	EUEI PDF	Advisor
Fifita, Solomone	Secretariat of the Pacific Community	Deputy Director Energy, Economic Development Division
Galiwango, Solome		Consultant
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Golovanov, Serge	Golem IMS GmbH	General Manager
Gueret, Thomas	European Commission DG DEVCO	Seconded National Expert - Energy Efficiency
Guyo , Wario Kuduba	Ministry of Foreign Affairs & International Trade, Kenya	Third Secretary
Horn, Henry	Ministry of Foreign Affairs, Finland	Senior Advisor Energy
Jaques, Ivan	World Bank - ESMAP	Program Team Leader for Energy Efficient Cities
Kitio, Vincent	UN Habitat	Chief, Urban Energy Unit
Koskimaki, Pirjo-Liisa	European Commission, DG ENER	Advisor to Director
Lenz, Florian	EUEI PDF	Consultant
Leszczynska, Aleksandra	UNIDO	Consultant

Name	Institution	Position
Longo, Nico	Ministry of Foreign Affairs, Italy	Advisor
Mali, Thembakazi	South Africa National Energy Development Institute(SANEDI)	Senior Manager, Clean Energy Solutions
Masereka, Edison	Kampala Capital City Authority	Manager Business Development & Research
Moser, Wolfgang	SADC - Southern African Development Community	
Muscetti, Roberto	Ingerop	International Development Manager
Nantchon Ngoko, Justin	Ministry of Environment Cameroon	GEF operational focal point
Otieno, David	EUEI PDF	Project Manager
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Shadrina, Anna	TU Wien	Student
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Sordo, Carlos	FIIAPP	
Srouf-Gandon, Perla	European Commission DG ENER	International Relation Officer
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Taylor, Hadley	EUEI PDF	Project Manager
Tebbich, Herok	BAOBAB	General Manager
Turyahabwe, Elsam	EAC East African Community	Project Development Officer
Ulterino, Matthew	Rodin Consulting Ltd	Principal
Ulterino, Matthew	Rodino Consulting	Principal
van Staden, Maryke	ICLEI Local Government for Sustainability	Low Carbon Cities Program Manager
Wattel, Philippe	European Copper Institute	Consultant
Williamson, Laura	REN21	Communication + Outreach
Zaccheo, Felice	European Commission DG DEVCO	Deputy Head of Division
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