

OSA SOCIAL DESIGN GROUP

Seeds from JAPAN to be realized in KENYA

Promotion of technology and innovation creation,
sharing and management for sustainable community development

As a social design group, OSA ensures that initiatives undertaken are about people, bringing together the government, industry, academia and community collaboration to explore and promote technologies and projects that are eco-friendly, sustainability sensitive, and user-friendly in support of sustainable community development.



Emmanuel Mutisya

Director - OSA Kenya

Holds Master of Arts in Public Administration from International Christian University in Japan and a PhD in Sustainability Science from the University of Tokyo. Mutisya is a Project Assistant Professor at the University of Tokyo's Graduate Program in Sustainability Science and an Associate Coordinator of the Education for Sustainable Development in Africa (ESDA) Programs at the United Nations University. He has worked as a project/program leader with donor agencies, governments, NGOs, and international organizations including UN-HABITAT, UNEP, UNESCO in the areas of sustainable livelihoods, green growth, urban development, water and sanitation, climate change, renewable energy, sustainability education, knowledge management, environmental impact assessment, as well as business development.

SAKATA Izumi

President - OSA Japan

Holds Master of Arts in Architecture from Kyoto University Graduate School of Technology. As an architect, Sakata has an extensive 30 years' experience working under Mayekawa Kunio, one of the most prominent modern architects in Japan. He has also worked as a JICA Expert in Jomo Kenyatta University of Agriculture & Technology in Kenya where he taught architectural design and theory. In 2011, Sakata established OSA Japan as President to link Japan and Kenya through sharing and exchange of technologies based on his experience and networks to promote community development. He is a member of International Communication Committee of Japan Institute of Architects (JIA), a visiting lecturer of Keio University Business School and Hosei University Graduate School of Design Technology and Advisor of OSA Kenya.

Dick Olango

Director - OSA Kenya

Holds Bachelor of Engineering from the Department of Architecture of Tokyo Metropolitan University. He gained professional experience working for various firms in Japan, including the Pritzker laureate Shigeru Ban Architects. He established AOAD (ATELIER OLANGO ARCHITECTURE DESIGN), an architectural firm based in Nairobi and Tokyo, and co-founded AAP (Africa Architecture Project), a platform that focuses on improving housing in Kibera slums, Nairobi Kenya. Two of the proposals have been exhibited at Architecture Biennale in Sweden 'Architecture for Necessity' and also nominee for UN Habitat 'Mass housing Competition'. He is the Principal Architect at AOAD, a member of Japan Institute of Architects (JIA) and Advisor of OSA Japan.

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R-Battery Project

Partner: Environment & Life Technology Inc.

Adopted by JICA BOP Business Feasibility Study Proposal in 2012

Feasibility Study in Kenya to provide electricity to the un-electrified area in Kenya by using "R-Battery", a used battery revived by an electronic renewable technology, as a low-cost container of electricity, together with a simple energy unit of LED Lamp and Phone Charger developed and produced in Kenya



Zero-Unit Project

Partner: LIXIL Corporation

"Zero-Unit" is Independent Equipment Unit for living in the area without Infrastructure. Three functions of "Composting", "Water Purifying" and "Electricity Charging" are combined in one unit which can be set independently from houses. "Zero-Unit" is a proposal for Decentralized Independent System of Infrastructure to supersede conventional Network System of Infrastructure.



Green Toilet System Project

Partner: LIXIL Corporation

Adopted by JICA Proposal for Collaboration Program with the Private Sector for Disseminating Japanese Technology in 2013

The Promotion Project of Ecological Sanitation System (Green Toilet System - GTS-) for watershed management and improvement hygienic environment in Non-urban areas in Kenya. Beneficiary of GTS; For Governments are cost saving for construction and maintenance cost of water and sewage treatment facilities and for Users are improvement of hygienic situation, cost saving for water rates and increasing income by selling fertilizer.



Micro Flush Toilet System Project

Partner: LIXIL Corporation

Adopted by JICA Proposal for Collaboration Program with the Private Sector for Disseminating Japanese Technology in 2014

Promotion Project on Micro Flush Toilet System for Watershed Management and Improvement of Water Environment in Urban Areas in Kenya. Development impacts expected through this system are Effective use of water resource, Reduction of sewage treatment cost, Improvement of urban environment and Creation of employment.

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RECENT PROJECTS

March 2016

Solar-Sharing Project

Partner: Loop Inc.

Collaboration with Jomo Kenyatta University of
Agriculture & Technology under MOU signed in May 2015

An experimental project with Loop Inc. and Jomo Kenyatta University of Agriculture & Technology (JKUAT) about "Solar-Sharing", a unique technology to share the solar energy and agriculture activities with the generation of electricity by setting solar panels above the agricultural land. Sunshade made by panels above the agriculture land is to give good effects to some kinds of crops (Tea, Coffee, Potato, Strawberry etc) in the land and the electricity generated is to be used in the land, for example, for water irrigation system or for the electricity supply to the un-electrified area around the land.



Gettou Project

Partner: Angel World Ltd.

Collaboration with Meru Herbs under LOI signed in July 2015

"Gettou" is an aromatic plant that has been actively utilized in Okinawa, the southern island in Japan, for a long time for daily use and in these days for cosmetics and healthy supplements too. Gettou is popular in Kenya as a garden plant but its valuable functions have not been known in the country. "Gettou Project" is aiming to develop Healthy Food/Supplement Products from Gettou in Kenya together with our partner Meru Herbs, a producer, processor and provider of a range of certified organic products.



Solar-Sheet Project

Partner: Kens.co

Monitoring of "Solar-Sheet Pole Light" has started since March 2016

The "Solar-Sheet Project" is aiming at developing solar related products in Kenya using "Solar-Sheet" technology, a flexiblefilm type photovoltaic module made from "Amorphous (non-crystalized) Silicon, which is "Thin - Light - Robust". Since March 2016, four sets of "Solar-Sheet Pole Light" using Solar-Sheet have been installed in Kitui and Makueni Counties for monitoring.



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