

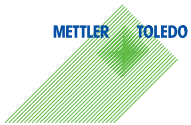
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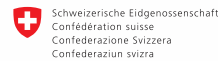
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3rd Smart Cities India 2017 Expo, May 10th-12th
Pragati Maidan, New Delhi, India

Swiss innovations for smart cities in India

Exhibition Booth C104
in Hall 11

Swiss session
on
May 11th 2017
11.45 – 13.15
in Hall B



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Swiss Agency for Development and Cooperation SDC





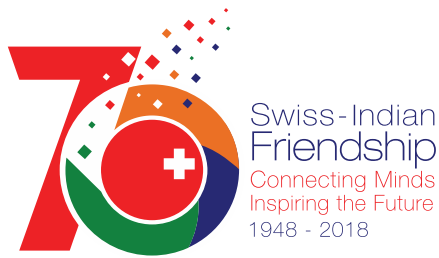
Swiss innovations for smart cities in India



India is rapidly urbanizing and cities are challenged by urban growth and urban poverty. According to UN's World Urbanisation Prospects (2014) estimates, India's urban population would increase by over 400 million by 2050. The Government of India views urban development as engines of economic growth. Since 2014, India has embarked on a major urban development pathway through series of ambitious goals and targeted programmes. India launched a Smart City Mission covering 100 cities across India. At the same time, cities are also major sources of greenhouse gas emissions and vulnerable to impacts of climate change. The expected urbanisation trend will further enhance the carbon footprint of the Indian cities. Climate variability and change will further increase risks for urban population and for infrastructure. Urbanization in India, therefore, offers great potentials for mitigating climate risks and ensuring sustainability. As India moves towards investment in urban transformation, there is a growing realization of the need to improve energy efficiency in buildings, efficient solutions for management of solid waste and sewage and solutions for mobility by addressing the demand side of urban transport systems.

Switzerland has been able to implement solutions addressing energy efficiency in buildings, cleaner technologies for managing solid waste and smart urban mobility and transport solutions. How can India learn from the Swiss experience and innovations around challenges of urbanisation that it faces? While it is understood that these solutions may not be replicated one to one in the Indian context, the experience shows that some of these innovations can be adapted to meet the requirements of cities in India.

The **Session "Swiss innovations for smart cities in India"** at the **3rd Smart Cities India 2017 Expo** aims to share experiences, lessons and explore how Swiss innovations for sustainable urbanisation can be put into practice in the Indian context. The session will focus on solutions around energy efficiency in buildings, low carbon and climate resilient city development, clean energy solutions for waste management, the role of smart communication networks and the role of start-ups in proving innovative solutions for urban transformation. The distinguished speakers will discuss the experience, challenges, and opportunities for a sustainable and smart urbanisation in India.



The Embassy of Switzerland is presenting a new event series. The biennial initiative *70 Years of Swiss-Indian Friendship: Connecting Minds - Inspiring the Future (SIF70)* commemorates the anniversary of the Swiss-Indian Treaty of Friendship, which was signed in New Delhi on August 14, 1948.

With this initiative, the Swiss diplomatic network in India is connecting Swiss and Indian minds that are actively shaping the future of both countries. The focus lies on creating opportunities for innovation in business, research and technology, but also in the fields of governance, art or social inclusion. Events and activities will take place in various cities across India to highlight this important landmark until the end of 2018.

The 3rd Smart Cities Conference in New Delhi is an excellent platform for relevant exchanges about clean technologies between Switzerland and India. From energy efficient buildings and clean energy, solutions for solid waste to smart urban mobility, Swiss companies have many solutions to offer which have already been successfully implemented and could also be beneficial for India.

By visiting the Swiss Pavilion and following the Swiss session at the Conference, you will meet Swiss and Indian experts sharing their knowhow, discussing the challenges for India's emerging cities and explore how clean technologies can be put into practice for sustainable smart cities.

Dr. Andreas Baum
Ambassador of Switzerland to India

Agenda - Swiss session

Swiss innovations for smart cities in India

11 May 2017: 11:45 – 13:15

Moderator: Mr. Daniel Ziegerer,
Head Swiss Cooperation Office India, Embassy of Switzerland

11:45

Welcome

Dr. Andreas Baum
Ambassador of Switzerland to India

11:50

Context setting

Smart city context, challenges and opportunities in India

Dr. Shirish Sinha
Deputy Head Swiss Cooperation Office India, Embassy of Switzerland

Solutions required for Siliguri and other Indian cities

Mr. Asok Narayan Bhattacharya
Mayor of Siliguri

12:10

Panel on Swiss innovations for smart cities in India

Low carbon and climate resilient city development

Mr. Ashish Rao-Ghorpade, Regional Executive Manager
ICLEI & City Coach, CapaCITIES Project

Energy efficient building design, technology and regulations

Dr. Sameer Maithel, Director, Greentech Knowledge Solutions &
Co-Team leader Indo-Swiss Building Energy Efficiency Project

Using technologies to preserve resources in Smart Cities

Mr. Jean Michel Deckers, CEO Smixin SA

Smart urban communication networks

Mr. Jens Hauggaard, Sales Manager
Paradox Engineering - MinebeaMitsumi Group

The potential of remote metering solutions

Mr. Cedric Morel, CEO, Sensile Technologies

Sewage sludge valorization

Mr. Frederic Juillard, CEO TreaTech

12:40

Questions & Answers

13:10

Wrap-up

13:15

Closure



EXHIBITOR

The BNL Clean Energy Group provides standardised modular Zero Emission Zero Residue Clean Energy plants for biomass and waste-to-energy solutions. Its proprietary, patented thermo-chemical technology generates clean energy and produces synthetic fuels without any harm to the environment. Your sustainable clean energy solution! For more information: <http://bnlce.com/en/>.



EXHIBITOR

The Indo-Swiss Building Energy Efficiency Project (BEEP) is a bilateral cooperation project between the Ministry of Power (MoP) of the Government of India and the Federal Department of Foreign Affairs (FDFA) of the Swiss Confederation. The Bureau of Energy Efficiency (BEE) is the implementing agency on behalf of the MoP while the Swiss Agency for Development and Cooperation (SDC) is the agency in charge on behalf of the FDFA. The overall objective of the project is to reduce energy consumption in new buildings through energy efficient design, construction, innovative technologies and capacity building and to disseminate best practices. For more information: www.beepindia.org.



SAMEER MAITHEL, SPEAKER

Dr. Sameer Maithel is the Founding Director at the Greentech Knowledge Solutions (GKS), New Delhi. He is the Head of the Indian Project Management & Technical Unit of the BEEP. GKS provides research and consulting services in the field of: energy-efficient building design, resource efficient building materials production, decentralized renewable energy applications and energy-efficiency in small industries. Sameer has a PhD in Energy Systems Engineering from Indian Institute of Technology, Bombay. Prior to founding GKS in 2007, he has worked at The Energy and Resources Institute (TERI) and at the Oil & Natural Gas Corporation Ltd.



EXHIBITOR

The Swiss Agency for Development and Cooperation (SDC) supports and accelerates the Government of India's efforts for sustainable urbanization through the Capacity Building for Low Carbon and Climate Resilient City Development project (CapaCITIES). The overall goal of the CapaCITIES project is to achieve a lower greenhouse gas emission growth path and to increase the resilience of select Indian cities to climate change. CapaCITIES is working in four partner cities: Coimbatore, Rajkot, Siliguri and Udaipur. For more information: www.capacitiesindia.org



ASOK NARAYAN BHATTACHARYA, SPEAKER

Mr. Asok Narayan Bhattacharya is the Mayor of the Siliguri Municipal Corporation. Mr Bhattacharya is a veteran political leader and was Minister for Municipal Affairs, Urban Development, Town & Country Planning, Government of West Bengal between 1996-2011. He was elected to the West Bengal State Assembly for four consecutive terms and represented Siliguri between 1991 and 2011. He was re-elected to the State Assembly from Siliguri in 2016.



ASHISH RAO GHORPADE, SPEAKER

Mr. Ashish Rao Ghorpade is an Architect and Urban Planner with over 12 years of practicing experience. Associated with ICLEI-Local Governments for Sustainability, South Asia as Regional Executive Manager. He coordinates projects focusing on sustainable urban planning, mobility and built environment. Currently Ashish is also the city coach for Udaipur city as a member of the implementing team for CapaCITIES project.



EXHIBITOR

Paradox Engineering is a technology company that designs and markets Internet of Things solutions and services for smart industrial and urban networks, thanks to unique competences in radio design, network design and management, low power consumption and data collection systems. Established in 2005 and headquartered in Switzerland, the company is now part of MinebeaMitsumi Inc., the world's leading comprehensive manufacturer of electro-mechanical solutions and high-precision components. For more information: <http://www.pdxeng.ch/>.



JENS HAUGGAARD, EXHIBITOR/SPEAKER

Mr. Jens Hauggaard is a Sales Manager at Paradox Engineering - MinebeaMitsumi Group and has worked with several municipalities and electrical utilities around the world. Jens has more than 20 years of international leadership experience with diverse teams in the high tech industry. He worked, within ABB, in the utility network control and relay protection segments. Later in his career, he was responsible for the load management business line at the global meter manufacturer, Landis+Gyr.

**EXHIBITOR**

Sensile Technologies is a forerunner in the Internet of Things (IoT) market. It is a leading provider of solutions for remote monitoring of tanks and meters for the oil and gas industry since 2001. Its solutions enable its customers to improve the efficiency of their bulk delivery planning, leading to cost reduction of at least 30% and higher customer satisfaction. Its Swiss-made, autonomous, robust and easily installed systems are relied upon by major oil and gas merchants globally, with more than 60,000 installed on tanks in over 60 countries. Furthermore, its solutions help in reducing the CO2 emissions by more than 12 tons daily. For more information: <http://www.sensile.com/>.

**CEDRIC MOREL, EXHIBITOR/SPEAKER**

Mr. Cédric Morel is the Managing Director of Sensile Technologies, a forerunner in the Internet of Things (IoT) market. He has been managing the company since 2004. Cédric holds a degree in Material Science and Engineering from the Swiss Federal Institute of Technology in Lausanne (EPFL) and an MBA from the University of Lausanne. Before joining Sensile Technologies in 2001 as a Project Manager for sensor development, he worked for three years at technology companies in Japan.

**EXHIBITOR**

Smixin is a Swiss clean technology company which delivers game changing hand washing solution for public area and office building. Its systems enable 90% water saving and 60% soap savings per hand wash and over 500kg CO2 reduction per system per annum. Present in Asia and in Europe it combines this unsurpassed performance with supervision modules allowing optimized facility management of the location. Smixin SA is a spinoff of Creaholic the Swiss innovation factory located in Biel/Bienne in the heart of the Swiss Watch valley. For more information: <http://www.smixin.com>.

**JEAN-MICHEL DECKERS, EXHIBITOR/SPEAKER**

Mr. Jean-Michel Deckers is the Chief Executive Officer of Smixin SA, a position he occupies since March 2016. Under his tenure, the product portfolio has evolved towards volume based products supported by Internet of Things supervision application. Jean-Michel has more than 20 years of experience in international business development primarily in the life science industry. Jean-Michel has worked in both mature and emerging market and lived and worked in over six different countries.

**EXHIBITOR**

SOFIES International is a consulting, services and project management group, focused on promoting sustainable, inclusive economic development. Created in 2008, Sofies is based on the principles of industrial ecology and waste management and successfully tackles challenges related to economic development, respectful of environmental and social values. It has a proven track-record in applying its solutions with private, public and international organizations. Sofies are currently involved in two Swiss-funded projects on smart, low carbon cities, including one in India: CapaCITIES. For more information: www.sofiesgroup.com.

**EXHIBITOR**

The South Pole Group is a leading provider of global sustainability solutions and services. The company has delivered climate-proven solutions to a wide range of public, private and civil society organisations for over a decade. Areas of expertise include corporate climate action, investment climate risks, sustainable supply chains, green finance as well as renewable energy and energy efficiency. A pioneer in emission reduction and renewable energy projects, the South Pole Group's portfolio is currently the largest available in the market. For more information: www.thesouthpolegroup.com.

**EXHIBITOR**

Current liquid waste treatment solution rely on landfill and incineration, which are expensive, polluting and do not allow for the recycling of the valuable products contained in the liquid waste such as fresh water, biogas and salts. TreaTech is developing a ground-breaking treatment technology that will enable an eco-friendly treatment of the ever-increasing quantities of wastewater while recycling its valuable by-products and most notably, clean water. TreaTech solution is being validated at EPFL by the means of a lab-scale prototype and its goal is to build a demonstration unit by early 2018. For more information: <http://trea-tech.com/>.

**FREDERIC JUILLARD, EXHIBITOR/SPEAKER**

Mr. Frédéric Juillard is the CEO of TreaTech, a Swiss start-up developing a new wastewater treatment technology at the Swiss Institute of Technology in Lausanne (EPFL). Frederic is a Swiss-French engineer and entrepreneur. He completed his Master's degree at EPFL and UC Berkeley. He was the co-founder of Naphtis, a project dealing with biofuel production from biomass waste. He worked for two years as a scientific collaborator at IPESE group (EPFL) before he incorporated TreaTech.



SHIRISH SINHA, SPEAKER

Dr. Shirish Sinha is the Deputy Head Swiss Cooperation Office in India and is responsible for managing and implementing the Global Programme Climate Change & Environment of the SDC in India. Shirish has over 22 years of experience in the development of policy making and project/programme implementation in the field of energy, climate change and sustainable development. Shirish Sinha holds a PhD in Public Policy (Energy Poverty) from the University of Twente, the Netherlands and Masters in Rural Management from the Institute of Rural Management, Anand (IRMA) in India.



DANIEL ZIEGERER, MODERATOR

Mr. Daniel Ziegerer is Head Swiss Cooperation Office India and Counsellor at the Swiss Embassy in New Delhi and heads the Global Programme Climate Change & Environment of the Swiss Agency for Development and Cooperation (SDC) in India. Throughout his professional career, he was involved in the development of policy and law-making in the areas of environment and sustainable development. He led official Swiss delegations to and represented the Swiss government in international conferences and negotiations on these matters. Before his appointment to India, Daniel was Head of Global Affairs at the Swiss Federal Office for the Environment. Daniel holds a master's degree in Political Science/International Relations from the University of St. Gallen in Switzerland and also a Master of Laws from the University of Edinburgh in the UK.

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