

ZEMCH NETWORK

ZEMCH 2014 Mission to Japan
22nd – 25th July 2014

'ZEMCH' is an abbreviation of zero energy mass custom homes that encompass social, economic and environmental sustainability as a whole. Indeed, housing is a system of energy and environment and it is required to accommodate wants and needs of individuals and society, which are usually considered to be diverse and dynamic.

The ZEMCH Mission to Japan started from 2006 and this sustainable industrialised housing technical tour has been welcoming over 100 delegates from around the world to date. As the original purpose, the ZEMCH Mission aims to offer construction industry professionals, academics and government officers opportunities to visit not only the state-of-the-art production facilities of leading housing manufacturers in Japan, but also the sales centres where a number of model homes are displayed allowing potential homebuyers to examine high-cost performance housing quality.



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During the 1960s and 1970s, Japanese housing manufacturers focused solely on the mass production of their products, resulting in a supply of virtually identical, rather monotonous houses. Due to the inferior image associated with the low-quality appearance of these mass produced houses, the public immediately rejected industrialised homes. Since then, the manufacturers have placed greater emphasis on improving housing quality, and thereby customer satisfaction, such that Japanese housing manufacturers today enjoy a reputation for providing reasonably-priced quality housing that, while still mass-produced, is customised—i.e. *mass customisation*.

ZEMCH Mission to Japan had been carried out over the last years with the aim to enhance the public awareness of zero energy homes delivered successfully around the globe. Over 70 delegates already joined the mission and developed their own ZEMCH prototypes in view of their local market needs and demands.



Japanese housing manufacturers have been at the forefront of producing marketable and replicable mass custom homes whose utility bills are as close as zero. Using techniques passed down from ancient times, Japan has developed houses suitable to its distinguish climatic conditions. For instance, there is a rigorous structure resistance to earthquakes and typhoons. Open indoor environment allows for comfortable living during the hot summers.

Home amenities studios provide potential homebuyers opportunities to understand safety, amenity and structural and environmental performances in housing by experience.



2014 MISSION SCHEDULE

	MORNING	AFTERNOON	EVENING
DAY 1	LOCAL DEPARTURE	ARRIVAL IN JAPAN	ACCOMMODATION
21st July (Tuesday)	Departure: Local Airport	Airport Arrival: Narita (Tokyo) International Airport Or Central Japan International (Chubu) Airport	Check-in: BIK Hotel (Budget Inn Kakegawa) (Kakegawa, Shimizu)
DAY 2	FACTORY VISIT I	EXHIBITION VISIT I	ACCOMMODATION
22nd July (Wednesday)	Sekisui House, Ltd. (Kakegawa, Shizuoka) - Automated production line - Steel post & beam frame system	Sekisui House, Ltd. Yume Kojyo Housing Museum (Kakegawa, Shizuoka)	Check-in: Loisir Hotel Toyohashi (Toyohashi, Aichi)
DAY 3	FACTORY VISIT II	FACTORY VISIT III	ACCOMMODATION
23rd July (Thursday)	Sekisui Chemical Co., Ltd. (Heim) (Toyohashi, Aichi) - Building integrated PV - 3D module assembly line - Wood & steel unit systems	Misawa Homes Co., Ltd. (Konan, Aichi) - Building integrated PV - 3D module assembly line - Multifunctional panels	Check-in: Hotel Nikko Osaka (Chuo, Osaka)
DAY 4	EXHIBITION VISIT II	EXHIBITION VISIT III	ACCOMMODATION
24th July (Friday)	LIXIL Corp. (Osaka, Osaka) - System bath unit - Kitchen and equipment - Wall and floor tiles	Daiwa House Industry Co., Ltd. (Sakyo, Nara) - Safety and comfort - Environmental technology	Hotel Nikko Osaka (Chuo, Osaka)
DAY 5	EXHIBITION VISIT IV	WRAP-UP TOUR	ACCOMMODATION
25th July (Friday)	Sekisui House, Ltd. (Airaku, Kyoto) - Universal design - Environmental considerations - Structural design	UNESCO World Heritage Sites (Nara & Kyoto) - Kinkakuji - Kiyomizu-dera	Hotel Nikko Osaka (Chuo, Osaka)
	TRANSPORT	ARRIVAL	ACCOMMODATION
26th July (Saturday)	Travelling from Osaka to Tokyo	Arrival in Tokyo	Check-in: Local Hotel of Delegates' Choice in Tokyo
Grand Renewable Energy 2014 International Conference 27th July (Sunday) - 1st August (Friday)			
28th July (TBC)	ZEMCH International Workshop 14:00 -17:00 (TBC)		





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REGISTRATION FORM

To book a place, please complete and send the following registration form to:

Dr Masa Noguchi
ZEMCH Network Coordinator
EDBI iGroup
Faculty of Architecture, Building and Planning
The University of Melbourne
757 Swanston Street
Melbourne
Victoria 3010
Australia
E-mail: masa.noguchi@unimelb.edu.au

CONTACT INFORMATION:

Surname Name: Mr / Ms _____

Given Name: _____

Middle Initial (if any): _____

Title: _____

Organisation: _____

Address: _____

Postal Code: _____

Phone (country + area code): _____

Fax (country + area codes): _____

Email Address: _____





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IMPORTANT DATES

31 st March, 2014	Expression of Interest
28 th April, 2014	Registration
18 th May, 2014	Online Mission Registration Fee Payment Due
25 th May, 2014	Hotel Reservation Request

COST ESTIMATE (APPROXIMATE)

❖ Airfare:	A\$1,000	(As per the departure city)
❖ Shinkansen Train Fare:	A\$160	(Shin-Osaka St. – Tokyo St.)
❖ Accommodation:	A\$1,650	(\$150 per night x 11 days)
❖ Mission Registration Fee:	A\$450	(Bus, interpreter & lunch arrangements)
❖ GRE2015 Registration Fee:	A\$700	(Conference including ZEMCH Workshop)

MISSION ORGANISERS

Environmental Design and Building Innovation (EDBI) iGroup
Faculty of Architecture, Building and Planning
The University of Melbourne

Dr. Masa Noguchi
Mission Coordinator
Phone: +61 3 9035 8193
E-mail: masa.noguchi@unimelb.edu.au

Ms. Sarah Backhouse
CEO, prefabAUS
Phone: +61 457 055 693
E-mail: sarah@prefabaus.org.au



ZEMCH INTERNATIONAL WORKSHOP COLLABORATOR

GRAND RENEWABLE ENERGY 2014 INTERNATIONAL CONFERENCE

Website: <http://www.re2010.org>





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MISSION SPONSORS

DAIWA HOUSE INDUSTRY CO. LTD.

Website: <http://www.daiwahouse.co.jp>



MISAWA HOMES CO. LTD.

Website: <http://www.misawa.co.jp>



LIXIL CORPORATION

Website: <http://www.lixil.co.jp>



SEKISUI CHEMICAL CO. LTD.

Website: <http://www.sekisuiheim.com>



SEKISUI HOUSE LTD.

Website: <http://www.sekisuihouse.co.jp>

