

Prospectus of Grand RENEWABLE ENERGY 2014 International Conference

1. Name of Conference

“Grand RENEWABLE ENERGY 2014 International Conference”

— Together with ISES (International Solar Energy Society) Asia Pacific Conference 2014,
And The 2nd Asia Wave and Tidal Energy Conference

Conference Slogan : “*Advanced Technology Paths to Global Sustainability*”

2. Overview of Organization and Structure

(1) **Organized by:** The Grand Renewable Energy 2014 Organizing Committee

< Organizing Committee >

Chairperson: kenji Yamaji, the University of Tokyo, Professor emeritus
Chairman of Renewable Energy Committee organized by METI, Japanese Government

Co-Chairperson: Kosuke Kurokawa, Professor of Tokyo Institute of Technology,
Representative of Japan Council for Renewable Energy, JCRE

Co-Chairperson: Yasuo Suzuoki, Professor of Nagoya University,
Director-general of Nagoya Industrial Science Research Institute, NISRI

Co-Chairperson: Chuichi Arakawa, Professor, the University of Tokyo

Deputy Chairperson and Secretary General:
Masayuki Kamimoto, Professor, Hirosaki University

Vice Chairperson: Munehiko Tsuchiya, Senior Executive Director of New Energy and
Industrial Technology Development Organization (NEDO)

Vice Chairperson: Yoshiro Owadano, Deputy Director-General, Planning Headquarters of
National Institute of Advanced Industrial Science and Technology (AIST)

Vice Chairperson: Ryuichi Ito, Executive Director of New Energy Foundation (NEF)

< Managing & Advisory Committees >

Chairperson(Managing): Takao Kashiwagi, Professor, Tokyo Institute of Technology,
Director-General of AES Center, Tokyo Institute of Technology

Chairperson(International): Ken-ichiro Oota, Yokohama National University, Professor em.

Chairperson(National, domestic): Shiro Saka, Professor, Kyoto University

In the underneath of Organizing Committee, <Steering Committee> is facilitated to implement the work, from which working route is developed to each functional committee including <Program Committee> with 12 areas of renewable energy activity. Advisory committees support the organizing committee from the overview sense of management.

< Program Committee >

Chairperson Mitsuhiko Udagawa, prof. of Kogaku-in Univ.

Co-Chairperson Michio Kondo, Executive Coordinator of Innovation H/Q, AIST

Co-Chairperson Takeshi Ishihara, Prof., the University of Tokyo

Leader of Each Area:

Area1(Policy and Integrated Concept) Kazuhiko Ogimoto, Prof., the Univ. of Tokyo

Area2(Photovoltaic) Shigeru Niki, General Director of PV Eng. Center, AIST

Area3(Solar Thermal Utilization) Atsushi Akizawa, Prof. Tokyo Univ. of A & T

Area4(Innovative Bio-Climatic Architecture) Nobuyuki Sunaga, Prof., Tokyo Metropolitan Univ.
 Area5(Wind Energy) Yutaka Hasegawa, Prof., Nagoya Institute of Technology
 Area6(Biomass) Kinya Sakanishi, Coordinator in General, International H/Q, AIST
 Area7(Hydrogen & Fuel Cell) Etsuo Akiba, Prof., Kyushu University
 Area8(Ocean Energy) Yasuyuki Ikegami, Deputy Prof., Saga University
 Area9(Geothermal Energy & Ground-Source Heat Pump)
 Yusaku Yano, Deputy Director General, GS & AG H/Q, AIST
 Area10(Energy Network & Power Electronics) Hiroshi Asano, Executive Coordinator, CRIEPI
 Area11(Heat Conservation and Heat Pump) Haruki Sato, Prof., Keio University
 Area12(Small Hydro & Non-Conventional Energy) Yuji Nakanishi, Prof. Kanagawa Univ.

(2) Co-Organized by :

- Japan Council for Renewable Energy (JCRE)
- International Solar Energy Society (ISES)
- New Energy and Industrial Technology Development Organization (NEDO)
- National Institute of Advanced Industrial Science and Technology (AIST)
- Japan Science and Technology Agency (JST)
- The Engineering Academy of Japan (EAJ)
- Nagoya Industrial Science Research Institute (NISRI)
- New Energy Foundation (NEF)
- Japan Solar Energy Society (JSES)
- Japan Wind Energy Association (JWEA)

(3) Assented by :

- The Federation of Electric Power Companies of Japan
- The Japan Electrical Manufacturer's Association
- Japan Automobile Manufacturers Association, Inc.
- Petroleum Association of Japan
- The Japan Gas Association
- The Japan Iron and Steel Federation
- Japan Federation of Construction Contractors
- Japan Electro. and Info. Technology Industries Association
- Communications and Info. network Association of Japan
- Japan Association of Water Work Industry
- The Japan Society of Mechanical Engineers
- The Japan Society of Applied Physics
- The Institute of Electrical Engineers of Japan
- The Chemical Society of Japan
- Architectural Institute of Japan
- The society of Heating, Air-conditioning and Sanitary Engineering of Japan
- The Electrochemical Society of Japan
- The Society of Chemical Engineers, Japan
- Research Institute of Innovative Technology for the Earth
- The Institute of Applied Energy
- The Institute of Energy Economics, Japan
- Central Research Institute of Electric Power Industry
- The Energy Conservation Center, Japan
- New Energy Promotion Council

- Japan Photovoltaic Energy Association
- Japan Wind Power Association
- Heat Pump & Thermal Storage Technology Center of Japan
- The Japan Heat Service Utilities Association
- The Japan Institute of Energy
- Japan Society of Energy and Resources
- Japan Weather Association
- Solar System Development Association
- Japan Federation of Housing Organizations
- Japan Construction Material & Housing Equipment Industries Federation
- Institute for Building Environment and Energy Conservation
- The Japan Institute of Architects
- The Hydrogen Energy System Society of Japan
- Fuel Cell Development Information Center
- The Research Association of Hydrogen Supply/Utilization Technology
- Engineering Advancement Association of Japan
- Fuel Cell Commercialization Conference of Japan
- National Institute for Environmental Studies
- Japan Agency for Marine-Earth Science and Technology
- Japan Aerospace Exploration Agency
- National Maritime Research Institute
- Port and Airport Research Institute
- Japan International Research Center For Agricultural Science
- National Agriculture and Bio-oriented Research Organization
- National Agriculture and Food Research Organization
- Forestry and Forest Products Research Institute
- National Institute of Material Science
- Japan Oil, Gas and Metals National Corporation
- Ocean Energy Association - Japan
- The Japan Society of Naval Architects and Ocean Engineers
- Institute of Marine Engineering, Japan
- Japanese Association for Coastal Zone Studies
- The Geothermal Research Society of Japan
- Japan Geothermal Developers' Council
- Japan Geothermal Association
- Geo-Heat Promotion Association of Japan
- Turbo Machinery Society of Japan
- The Academy of Hydro Power
- The Japan Society of Fluid Mechanics
- The Japan Refrigeration and Air Conditioning Industry Association
- Japan Society of Refrigerating and Air Conditioning Engineers
- Heat Island Institute International
- Photovoltaic Power Generation Technology Research Association
- Research Association for Technological Innovation of Organic Photovoltaic
- Fuel Cell Commercialization Conference of Japan
- Japan Small Wind Turbines Association
- Japan Association of Wind Engineering
- Windpower Promotion Network of Local governments
- Japan Alcohol Association
- The Japan Organics Recycling Association
- Commission Internationale du Genie Rural
- Japanese Business Alliance for Smart Energy Worldwide
- Japan Science Foundation

- Japanese Association of Groundwater Hydrology
- Semiconductor Equipment Association of Japan
- Integrated Research System for Sustainability Science
- EU-Japan Center for Industrial Cooperation
- Japan Organization for Promotion of Renewable Energy
 - A part, under acceptance process

(4) Supported by: expected

- Ministry of Economy, Trade and Industry
- Ministry of the Environment
- Ministry of Land Infrastructure and Transport
- Ministry of Agriculture, Forestry and Fisheries of Japan
- Ministry of Education, Culture, Sports, Science and Technology
- Ministry of Internal Affairs and Communications
- Ministry of Foreign Affairs of Japan
- Cabinet Office, Government of Japan
- Tokyo Metropolitan Government
- Yokohama Municipal Government
 - A part, under acceptance process

(5) Collaborated with

- Takahashi Industrial and Economic Research Foundation
- Fuji-Sankei Business i
- Commemorative Organization for the Japan World Exposition '70 (expected)

3. Conference and Exhibition Period

- **International Conference**
July 27(Sun) – August 1(Fri), 2014
 Registration start : July 27(Sun) PM, Technical Tour August 2(Sat)
- **International Exhibition**
July 30(Wed) – August 1(Fri), 2014

4. Conference and Exhibition Venue

Tokyo Big Sight, International Conference Building and Exhibition Hall (West)

5. Conference Significance and Aim

(1) Implementation of the former Conference, RE2010 International Conference

More than 1300 specialists from 65 countries gathered to Pacifico Yokohama, in the city of Yokohama, Japan in order to contribute to the progress of wide range of Renewable Energy technologies and to promote sustainable and renewable energy markets. Attendees agreed with the following fundamental understandings and proposals to show our direction to the world. That is, we, the specialists involved in the field of renewable energy technologies and their policies, accept the technical challenge and contribute to grow the renewable energy market to realize a sustainable world with high quality of life in this century. We, the attendees here, wish to meet again at the next occasion of this Renewable Energy Conference.

This Grand Renewable Energy Conference is the third conference followed by the 2006 and the 2010, held in Japan.

(2) Renewable energy is indispensable, year by year, in social responsibility view of point

Economic development using renewable energy technology became indispensable. To accelerate this situation, the place setting where every stakeholders gather together, present, and discuss about utmost qualified research and technology is a significant matter. The development of individual technology and the integrated technology are likely in the wheel of vehicle. Given such circumstances of the world as population increase, unstable security surrounding many countries, global temperature increase, and so on, renewable energy development must be accelerated. Innovation is the most important which is true, but the updated modification and rearrangement of conventional energies are also important, thus it is a part of subjects to the discussion. Final purpose is, linking with industry development and stable society. We welcome all of those having interest in renewable energy.

(3) Through the conference, we publicize revitalization from the East Japan big earthquake

The magnitude 9 earthquake attacked east Japan on March 11, 2011 with associating unexpected giant tsunami, which had caused close to 20,000 fatal losses, and the catastrophic damage to the land, causing the housing loss more than 300,000, plus the inexperienced accident of nuclear power plants, which was classified in severity level, seven. Receiving the warm heart help from many countries in addition to many volunteers of Japanese civilian, the recovery plan has been commenced from the part of capable areas in turn. In year 2014, when conference is held, the project to retrieve the vitalization will be disclosed for discussion. In this meaning, the year 2014 is deemed to be good timing for all the people internationally, since the sharing of experience is very valuable because there is probability everywhere in the world.

(4) We contribute to develop young generation talent with global sense

We submit the venue where young researcher and engineer participate, present own paper and discuss with global specialists in reasonable price. This activity will make them promoting global sense, inducing own research development through the refined paper submission. We support the promotion of papers in collaboration with renowned academy associations.

(5) We realize the first class international conference

The conference is held in the joint connection with international exhibition where visitors come about 50,000 persons. Those registered to the conference feel free to access both, and visitors to the exhibition can participate in the conference only if paying the registration fee. We intend to pursue the real renewable energy world fair 2014 in Tokyo Big Sight.

6. Features of Conference

The conference slogan is “*Advanced Technology Paths to Global Sustainability*”, for which, “*Look, Today and Tomorrow*” is added. Both slogans are focused. Researchers and specialists participate from all over the world to achieve the conference purposes. Many themes are programmed covering interest of industry, academia and government as follows;

- (1) Plenary session and keynote speeches by invited speakers
- (2) Paper presentation in area by area, totaling 12 areas

~More than 1000 paper is aimed for collection and presentation~

- (3) Special sessions planned by Government initiatives like METI, NEDO, AIST, JST, so on
- (4) Special session and workshop focusing the hot projects such as Revitalization Program from the 3.11 catastrophic earthquake
- (5) Conferences together with ISES Asia Pacific Conference 2014, and The 2nd Asia Wave and Tidal Energy Conference
- (6) Collaboration program with Tokyo municipal government
- (7) Social Program : Technical tour, Banquet, Thanks Dinner, VIP Reception, etc

7. Program Scheme

(1) Overview through the term

July 27 (SUN)	July 28 (MON)	July 29 (TUE)	July 30 (WED)	July 31 (THU)	August 1 (FRI)	August 2 (SAT)
	SPECIAL SESSION		OPENING & KEYNOTE	SPECIAL SESSION		
	PLENARY			PLENARY		
REGISTRATION	ORAL PRESENTATION				CLOSING SESSION	
		POSTER PRESENTATION		POSTER PRESENTATION		
	ISES AP CONFERENCE The 2nd AWTEC					
	WORKSHOP, FORUM, AND EVENT					TECHNICAL TOUR
			MINI TOUR	MINI TOUR		
		THANKS DINNER	BANQUET	VIP RECEPTION		
			The 9th RENEWABLE ENERGY WORLD EXHIBITION			
			PVJapan 2 0 1 4 (EXHIBITION & FORUM by JPEA)			

(2) Areas of Conference

- ① Policy & Integrated Concept
- ② Photovoltaic
- ③ Solar Thermal Application
- ④ Innovative Bioclimatic Architecture
- ⑤ Wind Energy
- ⑥ Biomass Utilization & Conversion
- ⑦ Hydrogen & Fuel Cell
- ⑧ Ocean Energy
- ⑨ Geothermal Energy & Ground-Source Heat Pump
- ⑩ Energy Network & Power Electronics
- ⑪ Energy Conservation & Heat Pump
- ⑫ Small Hydro & Non-Conventional Energy

(3) Target, Number of Participants

1,400 persons (Domestic 1000, Oversea 400), more

(4) Target, Number of Countries

60 countries, more

(5) Language in the conference English

(6) Conference Products

- Abstract of Papers : Registered participant receives free from Website
- DVD of all the papers presented : Registered participant receives free, after conference
- Full Report : distributed to all stakeholders supporting the conference

(7) Registration Fee

The following registration fee is tentative including banquet. It will be finally set when the call for paper is officially submitted. Unit is Japanese yen.

	Early Bird	After E.B.
•Regulatory Participant	55,000	65,000
•Those of Supporting Society	45,000	55,000
•Student	15,000	15,000

The fee of special sessions and symposium organized by government such as NEDO, AIST, JST and Tokyo municipal government will be decided separately from the above.

8. Schedule reaching to Goal of Conference

YR	Mo.	International Conference	Remarks	International Exhibition & Forum
2012	8月	KICK-OFF Meeting for Grand RE2014		
	9月	Setting Organizing Committee members mainly in domestic	Tentative HP Open in JCRE http://renwableenergy.jp	
	10月	Setting Advisory Committee members involving oversea expert and specialist		
	11月	Set financial strategy		
	12月	Firm Organizing members		Renewable Energy World Fair 2012 Dec 5~7, Makuhari Messe
2013	1月	Bidding for Contractor		
	2月	Decide Contractor for Event	decide International Advisory members	
	3月	Keynote & Invited Speakers selection	All elements gathering for Call for Papers	
	4月	All elements complete for "Call for Papers"	General Meeting of JCRE	
	5月	Complete Call for Papers, and issue Exclusive Home Page Open		
	6月	Registration of Papers start though HP Asking for Fund Donation start		
	7月	Stimulate supporting societies for paper		Renewable Energy World Fair 2013 July 24~26, Tokyo Big Sight
	8月	Enhanced Call for Papers issued		
	9月	Bringing peak for donation activity		Promotion for RE World Fair 2014, and World Exhibition in 2014
	10月			
	11月	Real hard work for collecting Papers		
	12月	Call for PAPERS (ABSTRACT)		
2014	1月	Propagation of Grand RE2014	Strengthening the campaign	Campaign for RE World Fair 2014
	2月	Review all submitted abstracts		
	3月	Inform Applicants on Acceptance or Not		
	4月	Early Bird Due Date, April 30	General Meeting of JCRE	
	5月			
	6月			
	7月	Grand RE2014 International Conference July 27~Aug 1 @Tokyo Big Sight		Renewable Energy World Fair 2014 July 30~Aug 1, Tokyo Big Sight
	8月			
	9月	Full Paper compilation in DVD Complete Full Report		

9. Organization Chart

