Grand Renewable Energy 2014 International Conference

Together with

The International Solar Energy Society Asia Pacific Conference 2014

(All programs together with Grand RE 2014 Int. Conference)

and The 2nd Asia wave and Tidal Energy Conference

(managed in the area of Ocean Energy)

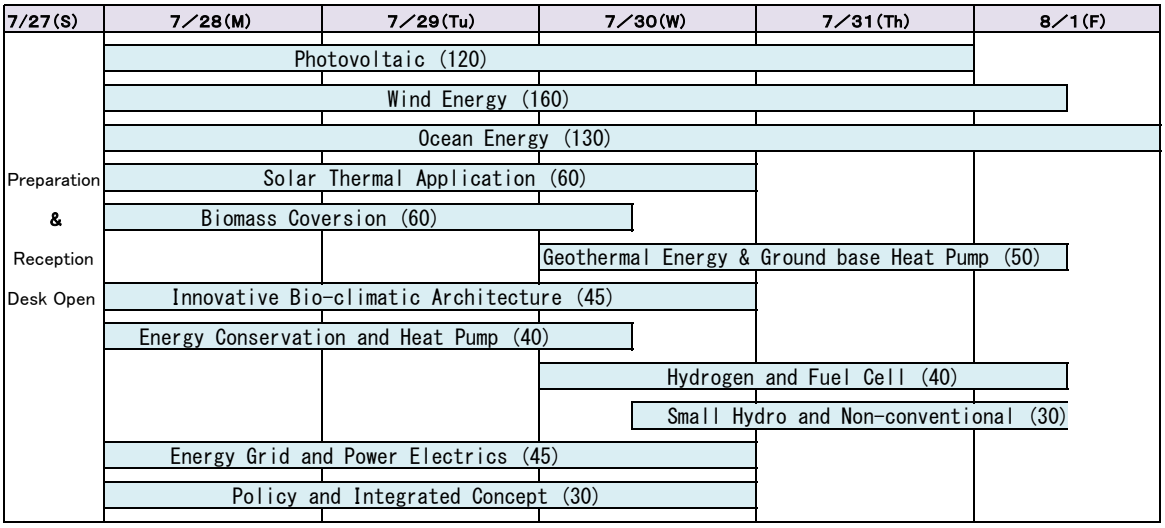
July 27(sun) - August 1(Fri), 2014; Tokyo Big Sight

— *Advanced Technology Paths to Global Sustainability* —

www.grand-re2014.org

1. Everyday, paper presentation more than 800 from 60 countries covering 12 areas below;

( )expected numbers



2. Plenary Speech by Invited Speakers

The 18 experts invited from all over the world have the precious speeches every day within the paper presentation of 12 areas

3. Welcome Greeting and Keynote Speech

This is held on July 30 at 10:30 to 12:30.

Organization Chairperson speech, Introduction of all 18 Invited Speakers, VIP Greeting from Central Government and Tokyo Metropolitan Gorvenment, then, the KEY NOTE Speech is held by the president of Hitachi, Representative from Fraunhofer Institute, and President of International Solar Energy Society.

4. Workshop

Within the frame work of International Conference, workshops like FUKUSHIMA on how to retrieve resilience by renewable energy, ZEMCH organized by the international team to pursue zero energy custom house, and so on. Detail is introduced in home page.

5. Special Open Session

Sosio-Governmental Organizations such as New Energy and Industrial Technology Development Organization (NEDO), National Institute of Advanced Industrial Science and Technology (AIST), and Japan Science and Technology Agency (JST) organize Open Session on July 29, July 31, and July 29 respectively. Detail is disclosed in home page.

The DVD compiled all mentioned above from 1. to 5. is distributed to all the participants of the conference, who can compensate his or her registration fee by this intelligent package.

Registration Fee (JPY) : Normal 65,000, Special 55,000, Student 15,000,

"Special" is applied to the organization members like Co-organizer, Assented Organizer, so forth which are listed in home page in detail. Registration is executed in online through the home page.

PROGRAM Detail OVERVIEW – **Grand Renewable Energy 2014 International Conference** www.grand-re2014.org/ <—More Detail

together with ISES Asia Pacific Conference 2014 in All Areas, and together with The 2nd AWTEC in Ocean Area

Advanced Technology Paths to Global Sustainability

July 27(Sunday)–August 1, 2014 at TOKYO BIG SIGHT, TOKYO **Exhibition July 30 (Wednsday) –August 1(Friday)**

★Plenary/Invited Presentation ●Oral Presentation ■Poster Presentation ( )shows Number of Paper presentation, ◆Workshop ◎Special Session (Open Session)

Area	7. 27(Sun)	7. 28 (Mon)	7. 29 (Tue)	7. 30 (Wed)	7. 31 (Thu)	8. 1 (Fri)
0. Covering ALL				●Opening & Keynote Speech ★Hitachi President, ★Dr.H.M.henning (Fraunhofer) ★Dr.Dave Renne (ISES)	◆ISES–Renewable Energy 100%	●Award&Closing ◆Workshop FUKUSHIMA
1.Policy and Integrated Concept	・Reception Desk	・Reception Desk ●Renewable Energy Development(11) ■Poster Session (14)	●Energy System Assessment (5) ★Invited Speech (Dr.Alan Brown)	●Renewable Energy and Economy (6)		
2. Photovoltaic	・Reception Desk	・Reception Desk ●PV System and Grid Integration (13)	◆PRESTO Session (PV conversion system, SAKIGAKE) (9) ●New Dye–sensitized solar cells (●Outdoor Performance, Failure Analysis, and Reflection (9) ■Poster Session (18) ■Poster Session (22)	◆Symposium on Realiability of Photovoltaic Modules (12) ●Hybrid Solar Cells based on Organic Materials (2) ★Invited Speech (Prof. Michael Graetzel)	◆Industrial Session (4) ◆RATO Session "Organic thin film and dye–sensitized solar cells"(7) ●Crystal Silicon Technology (5) ■Poster Session (24)	●Novel PV Technology (6) ●Thin Film Technology (5) ★Invited Speech (Prof. Makoto Konagai)
3. Solar Thermal Application	・Reception Desk	・Reception Desk ●Solar collectors and systems for houses and buildings (4) ●Solar driers (3) ●solar cookers and solar thermal applications (4) ■Poster Session (27)	●Concentrated solar power systems (7) ★Invited Speech (Mr. Werner Weiss) ●Solar thermal collectors and thermochemical systems (7)	●Solar heating and cooling (10)		
4.Innovative Bio–Climatic Architecture	・Reception Desk	・Reception Desk ●Vernacular Architecture / Passive Design (9) ●Green Building / Zero Energy Building (8)	★Invited Speech (Prof. Deo Prasad) ◆ZEMCH Workshop (10) ■Poster Session (12)	●Building Stock Activation / Comfort Indoor Climate (3)		
5. Wind Energy	・Reception Desk	・Reception Desk ●Wind Turbine Technology (15) ●Sight Assessment and Forecast (14)	★Invited Speech (Dr. Peter Hauge Madsen) ●Wind Turbine Technology (2) ●Grid Connection and Electric System (9) ●Social Enviroment Issue(7) ■Poster Session (40)	★Invited Speech (Mr. Steve Sawyer) ●Measurement and Monitoring (5) ●Plant Design and Management (3)	●Offshore Wind Turbine (11) ●Small Wind Turbine (14) ■Poster Session (16)	●Offshore Wind Turbine (7) ●Small Wind Turbine (6)
6. Biomass Conversion	・Reception Desk	・Reception Desk ★Invited Speech (Dr. Jin–Suk Lee) ●Biofuel (8) ●Biofuel/B D F (5)	●Bio–ethanol (5) ●Biomaterials/Forestry (2) ●Anaerobic Digestion (2) ●Gasification (7) ●Gasification/ Pyrolysis (4) ●Marine Biomass (4) ■Poster Session (32)	●Sustainability (3)		
7. Hydrogen and Fuel Cell	・Reception Desk	・Reception Desk		★Invited Speech (Prof.Etsuo Akiba)) ●Outlook of Hydrogen Energy (3) ●Renewable Energy and Hydrogen (3) ・Reception Desk	●Hydrogen storage materials (4) ●Electrochemical reactions (3) ●Hydrogen storage and production for vihiecles (4) ●Hydrogen production and Catalysts (4) ■Poster Session (16)	●Fuel Cell (7)
8. Ocean Energy	・Reception Desk	・Reception Desk ●AWTEC Opening ★Invited Speech (Prof. Atilla Incecik) ★Invited Speech (Prof. AbuBakr S Bahaj) ●Recent progress of ocean renewable energy (9) ■Poster Session (23)	●Ocean Current (5) ●Tidal 1–5 (27) ●Wave1–4 (21) ●Ocean Resource (6 ●OTEC(4)	●Tidal6 (5) ●Wave5 (5) ■Poster Session (23)	●Tidal7 (2) ●Wave7 (5) ●Tidal8 (4) ●Wave8 (6) ●Resource(3)	●Offshore Wind (6)
9. Geothermal Energ and Ground base Heat Pump	・Reception Desk	・Reception Desk		●Environmental Aspects of Geothermal Energy (3) ★Invited Speech (Prof. Roland N Horne) ●' Geothermal Frontier (6) ■Poster Session (15) ・Reception Desk	●Geothermal Field (5) ●Ground–Source Heat Pump (7) ●Power Generation (4) ●Exploration and Mapping (4)	●'Ground–Source Heat Pump (7) ●'EGS (4) ●Reservoir Engineering (3)
10. Energy Network and Power Electronics	・Reception Desk	・Reception Desk ●Micro/Smart Grid (8) ●Demand Responses (2) ■Poster Session (16)	●Application for Transportation (2) ★Invited Speech (Dr. Brian Johnson) ★Invited Speech (Dr. Roland Bauer) ●Energy Network (4) ●Distributed Energy Resources (4)	●Battery (3)		
11.Energy Conserva and Heat Pump	・Reception Desk	・Reception Desk ●Thermal Energy Utilization (6) ●Various Air Conditionings (5)	★Invited Speech (Dr. Monica Axell) ★Invited Speech (Mr. John A Grimes) ●Environment and Heat Pump (6)	●Energy Conservation and Others (6)	■Poster Session (26)	
12.Small Hydro and Non–convenntional Energy	・Reception Desk	・Reception Desk		★Invited Speech (Prof. Eduard Doujak) ●Small Hydro (6) ・Reception Desk	●Non–Conventional Energy I (6) ●Non–Conventional Energy II (5) ●Hydropower Development and Utilization (6) ■Poster Session (8)	●Small Hydro and Practical Examples (6)
◎Special Session (Open Session)	・Advanced Registration		◎NEDO Session (organized by New Energy and Industrial Technology Development Organization) ◎JST session (organized by Japan Science and Technology Agency)		◎AIST session (organized by National Institute of Advanced Industrial Science and Technology)	

CONFERENCE CONTENTS :

● PAPER Presentation, more than 800, from the 12 RE areas stated above, Oral and Poster

★ Plenary Speeches from the 18 Invited Speakers and 3 Keynote Speakers ◆ Workshops

Registration Fee JPY 65,000, JPY 55,000 for Special, JPY 15,000 for Student, detail in HP

Registered through HP, www.grand-re2014.org/ or at Onsite

www.renewableenrgy.jp/ www.jpea.gr.jp/pcj2014/

RENEWABLE ENERGY WORLD FAIR 2014–**EXHIBITION** : PVJapan 2014 and The.9th RE World Exhibition