

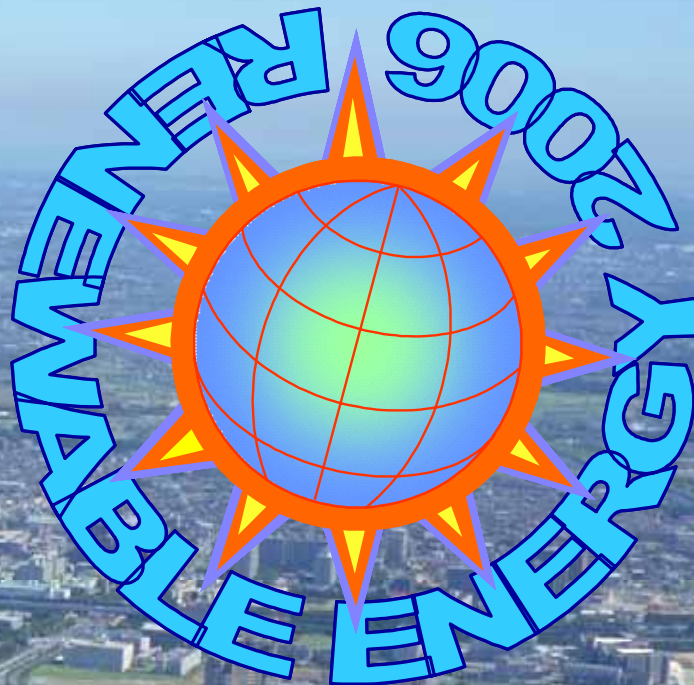
2nd Call for Papers

RENEWABLE ENERGY 2006

International Conference and Exhibition

Joint Conference with

The International Solar Energy Society – ISES



Advanced Technology Paths to Global Sustainability

9 - 13 October 2006

Makuhari Messe
Chiba, Japan

<http://www.re2006.org/>³¹

Organized by:

The Renewable Energy 2006
Organizing Committee

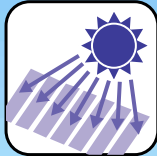
– RENEWABLE ENERGY 2006 – International Conference and Exhibition



Policy Issues



Photovoltaics



Solar Thermal



Low Energy Buildings



Wind Energy



Biomass



Hydrogen & Fuel Cells



Ocean Energy



Geothermal



Advanced Power Systems, etc.

CHAIR PERSONS' MESSAGE

The importance of the renewable energy technology field has been growing very significantly since the beginning of the 21st century and will continue throughout this century. It is my great pleasure to inform you that Japan is initiating a new international technical conference titled "Renewable Energy 2006." The Renewable Energy 2006 Organizing Committee, founded through the cooperation of academia, industry and the Japanese government, is organizing this conference. It is also internationally co-organized with the International Solar Energy Society, as one of its external supported conferences.

Expectations have been growing worldwide for renewable energy technologies as a solution for energy and global environment problems; problems projected to become more evident and serious during the 21st century. According to some long-term world energy projections, renewable energy may satisfy half of the world's energy needs by 2050. This would put renewable energy on the same level of importance as conventional energy. Moreover, more aggressive forecasts predict that renewable energy might supply two-thirds of the world's energy by 2100.

We, the specialists involved in the field of renewable energy technologies today, should accept this challenge and respond to these ambitious targets this century. Doing so will influence our direction and quality of life should we achieve them. Knowing that renewable energy is a peaceful energy resource present anywhere on earth should inspire us to further its development and dissemination.

At this important time in history, you are invited to contribute to the progress of renewable energy technologies. This international conference will be held at Makuhari Messe in Chiba Prefecture from October 9 – 13, 2006. Quite close to the Tokyo Disney Resort along Tokyo Bay, Makuhari Messe is a short distance from Tokyo and Narita International Airport. People from around the world with a sincere interest in renewable energy will gather here to discuss technological developments and the creation of sustainable, renewable energy markets. The Organizing Committee sincerely believes that "Renewable Energy 2006" will provide an excellent opportunity for those in attendance to make an invaluable contribution to our planet by forming proposals to establish an ideal "New Energy System for the 21st century."



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(Ritz, President of JOPRE)



Prof. Kosuke Kurokawa
General Chairperson
(TUAT)



Prof. D. Yogi Goswami
Co-Chairperson,
International Advisory Committee
(Univ. South Florida,
Past President of ISES)

<CONFERENCE ORGANIZATION>

Organized by:

The Renewable Energy 2006 Organizing Committee

Co-Organized by:

- Japan Organization for the Promotion of Renewable Energy (JOPRE)
- International Solar Energy Society (ISES)
- Japan Solar Energy Society (JSES)
- Japan Wind Energy Association (JWEA)
- New Energy and Industrial Technology Development Organization (NEDO)
- National Institute of Advanced Industrial Science and Technology (AIST)
- New Energy Foundation (NEF)
- Photovoltaic Power Generation Technology Research Association (PVTEC)
- Nagoya Industrial Science Research Institute (NISRI)

Assented by:

- | | |
|---|---|
| <ul style="list-style-type: none"> · The Japan Electrical Manufacturers' Association · The Federation of Electric Power Companies of Japan · Japan Automobile Manufacturers Association, Inc. · Petroleum Association of Japan · The Japan Gas Association · Solar System Development Association · Japan Photovoltaic Energy Association · Japan Wind Power Association · Wind Power Developers Association · Japan Geothermal Developer's Council · Turbo Machinery Society of Japan · Japan Association of Wind Engineering · Fuel Cell Development Information Center · The Geothermal Research Society of Japan · Japan Society of Energy and Resources · The Hydrogen Energy System Society of Japan · The Japan Institute of Energy · Japan Agency for Marine-Earth Science and Technology | <ul style="list-style-type: none"> · The Society of Heating, Air-conditioning and Sanitary Engineering of Japan · The Japan Society of Mechanical Engineers · Architectural Institute of Japan · The Institute of Electrical Engineers of Japan · The Japan Society of Applied Physics · Institute of Applied Energy · Takahashi Industrial and Economic Research Foundation · The Society of Chemical Engineers, Japan · Japan Science Foundation · The Chemical Society of Japan · The Electrochemical Society of Japan · Japan International Research Center for Agricultural Science · National Agriculture and Bio-oriented Research Organization · National Institute for Environmental Studies · Japan Automobile Research Institute · Research Institute of Innovative Technology for the Earth |
|---|---|

Supported by:

- Ministry of Economy, Trade and Industry
- Ministry of Environment
- Ministry of Land, Infrastructure and Transport
- Ministry of Education, Culture, Sports, Science and Technology
- Ministry of Agriculture, Forestry and Fisheries

Collaborated with:

- Fuji-Sankei Business i

RENEWABLE ENERGY 2006 PROGRAM

The program for this Conference will comprise:

- While the program for this Conference will focus on “Advanced Technology Paths to Global Sustainability” by the utilization of renewable energy resources, it also covers socio-economical matters and policy issues from now on to introduce renewable energy as a major path in the whole century.

RENEWABLE ENERGY 2006 PROGRAM (continued.)

| 09 Oct MON | 10 Oct TUE | 11 Oct WED | 12 Oct THU | 13 Oct FRI | 14 Oct SAT |
|---------------|---------------|-------------------|---------------|----------------|----------------|
| | OPENING | PLENARY | PLENARY | CLOSING | |
| Registration | NEDO | NEF | | AIST | |
| | | ORAL | ORAL | ORAL | |
| | | POSTER | POSTER | | |
| | | JAPAN DAY | | | TECHNICAL TOUR |
| | | RE2006 EXHIBITION | | | |
| RECEPTION | Mini-tours | BANQUET | | Related Events | |

- Plenary Sessions are composed of Plenary Lectures as well as Special Sessions organized by New Energy and Industrial Technology Development Organization (NEDO), National Institute of Advanced Industrial Science and Technology (AIST) and New Energy Foundation (NEF) respectively as shown in the previous diagram.
- Japan Solar Energy Society (JSES) is also planning to organize “Japan Day” on 12th – 13th October as its regular, national conference.
- Plenary, oral and poster presentations of specific research, development and demonstration projects as the main body of Renewable Energy 2006.
- Exhibition of Renewable Energy products and services promoted by Japanese major industry associations and international vendors.
- One-day post-conference tour to renewable energy system demonstration sites around Tokyo on Saturday as illustrated on the back page of back cover. Mini-tours are also planned around Makuhari during week days.
- Related symposium and events are also invited: e. g., “Energy from the Desert”, International Symposium on Very large Scale PV Systems in Desert Area as the second phase report from IEA PVPS Task VIII as well as Task XI concerning SHS / village electrification (tentative).
- Social programs such as tea ceremony; sightseeing tours to Tokyo Disney Resort; Tokyo or other Tokyo Bay Area. Please, consult the tour desk.

More about Special Sessions

Special sessions are sponsored by NEDO, NEF and AIST respectively:

- In **NEDO** Session, a series of NEDO projects on renewable energy including those conducted in international collaboration will be introduced. R&D efforts by Japanese industries will also be presented. Future prospects of renewable energy will be discussed by panelists from various kinds of fields.
- **NEF** provides “New Energy Symposium” composed of unique presentation/discussion on how to prevail renewable energy to the public and industry. It will also create great possibility of business opportunity for this environmentally friendly energy.
- In **AIST** Session, based on a very long-term vision of energy, the first topic is “What is the reliable energy system for future?” from technological and social points of view. Then, it comes to “How to realize it by advanced technologies?”.

Expected Technical Tours

Details are described on page xi.

- Half day tour to Sapporo Beer Chiba Brewery.
- Mini-technical tours to the area of Makuhari such as Hi-Technology Exhibit Hall of Sharp, and/or to the Area Heat Network Center utilizing waste water heat.
- One-day tour to a Really Massive Roof-top-PV Community “Pal Town”.

CONFERENCE SUBJECTS

Advanced Technology Paths to Global Sustainability

Papers are invited on the following topics:



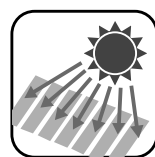
I: Policy Issues [Area Chair: Dr. Makoto Akai (AIST)]

Scenario; Policy Instruments; National Actions; Financing; CDM; Regulatory Issues.



II: Photovoltaics [Area Chair: Dr. Shigeru Niki (AIST)]

Fundamentals; Novel materials and Devices; Crystal Silicon Solar Cells and Modules; Thin Film Silicon Solar Cells and Modules; II-IV Thin Film Solar Cells and Modules; III-V Solar Cells, Modules and Space Applications; Terrestrial Systems; Applications and Reliability.



III: Solar Thermal Applications

[Area Chair: Prof. Haruki Sato (Keio Univ.)]

Collector Technology; Desalination; Detoxification; Solar Heating and Cooling; Solar Thermal Electricity; Solar Thermal Fundamentals; Thermal and Hybrid Applications; Thermodynamic Systems; Urban and Rural Applications; Other Applications.



IV: Low Energy Buildings

[Area Chair: Prof. Mitsuhiro Udagawa (Kogakuin Univ.)]

Comfort and Indoor Climate; Lighting and Visual Environment; Building and Environmental Simulation; Building Design, Forms, Elements and Materials; Cities, Airborne and Noise pollution; Ventilation.



V: Wind Energy

[Area Chair: Prof. Hikaru Matsumiya (Kyushu Univ.)]

Wind Power National Program and Overview; Technological Advances and Problems; Offshore wind Power; Environmental Issues, Planning and Wind Resources; Small and Hybrid Wind energy Systems; Trading, Markets and Social Issues.



VI: Biomass

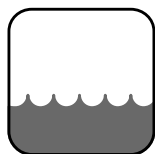
[Area Chair: Prof. Shinya Yokoyama (Univ. of Tokyo)]

Gasification; Pyrolysis; Fermentation; Anaerobic Digestion; Biomaterials; BDF; Carbon Neutrality; Forestry.



VII: Hydrogen & Fuel Cells [Area Chair: Dr. Etsuo Akiba (AIST)]

Cell Technology and Fabrication; Fuel Cell Power Plants, Fuel Cell for Transportation; Fuel Cells for Co-Generation; Renewable Hydrogen Production; Hydrogen Supply and Storage; Hydrogen End-Use Technologies; Hydrogen Energy Systems.



VIII: Ocean Energy

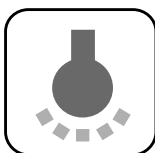
[Area Chair: Prof. Yasuyuki Ikegami (Saga Univ.)]

Ocean Thermal Energy Conversion; Wave Energy; Tidal and Tide Energy; Intake Pipe; Marine Biomass; Resource Assessment and Modeling; Monitoring; Economic assessment.



IX: Geothermal [Area Chair: Dr. Isao Matsunaga (AIST)]

Geothermal Exploration; Environmental Aspects; Geothermal Field and Reservoir; Reservoir Engineering; Advanced Technology; Power Generation; Geothermal Heat Pump; Geothermal Direct Use.



X: Advanced Power Systems & Other Possibilities

[Area Chair: Dr. Tadao Ishikawa (CRIEPI)]

Advanced Power Network for Renewable and/or Distributed Energy Systems, Mini Grids for Village Electrification, Energy Storage, Advanced Energy Integration & Co-generation, Power Electronics for Power Network; Mini- & Micro-Hydropower, Other Future Renewables.

EXPECTED PLENARY SPEAKERS

AREA I



Roberto Vigotti joined ENEL - the Italian National Power Board, Research and Development Division - in 1974. From 1988 he has been involved in the field of new renewable energies. In 2002, he was re-elected chairman of the Renewable Energy Working Party at the International Energy Agency. He is currently chairman of the Renewables and Distributed Generation Working Group at Eurelectric, the association of European electric utilities, and is vice president of the Italian section of the International Solar Energy Society.

AREA II



Martin A. Green is a Scientia Professor at the University of New South Wales, Sydney, Australia and Executive Research Director of the University's Centre of Excellence for Advanced Silicon Photovoltaics and Photonics. He is also Research Director of Sydney-based CSG Solar Pty. Ltd, a company formed to commercialize next-generation "crystalline silicon on glass" thin-film solar cells he helped develop.

AREA III



Yin Zhiqiang is a Professor in Tsinghua University, Beijing and has been engaged in research, development and production of all-glass evacuated collector tubes, tubular collectors and solar water heaters since 1979. He invented "Graded Al-N/Al selective absorbing surface"; "Water-in-glass" close-coupled solar water heater, etc.. He is the Director, Committee of Science and technology, Beijing Tsinghua Solar Ltd., Tsinghua University, and has transferred the achievements to industry. He is the founder of Chinese Solar Thermal Conversion and Applications.

AREA IV



Yuichiro Kodama has been long engaged in research on passive solar heating and cooling system at Building Research Institute, Ministry of Construction. He is known as an author of prominent books on Bioclimatic design and a pioneer architect in this field, awarded AIJ Architectural Design Commendation and etc. International activities are PLEA (Passive and Low Energy Architecture Network, inTA (International Tropical Architecture) and IEA Energy Conservation in Building & Community Systems Program. Since 1998, has been Prof. of Kobe Design University. Dr. Eng. Architect JIA.

AREA V



Arthouros Zervos is one of Europe's leading renewable energy authorities with almost two decades of high-level expertise across the European renewable energy sector. He was lead author of the White Paper on Renewable Sources of Energy in 1997, which led to the Renewable Energy Directive in 1999. Professor Zervos is based in Athens. His present positions are: President, European Renewable Energy Council; Chairman, Global Wind Energy Council; President, European Wind Energy Association; Vice-Chair, REN 21 International Steering Committee.

AREA VI



Ralph P. Overend is a principal scientist of Industrial Division of National Renewable Energy Laboratory. He is an expert of biomass and covers all aspects of bioenergy related topics, that is, biomass conversion technology, global warming control, and international collaboration. He is also responsible for renewable energy policy and management of the United States

EXPECTED PLENARY SPEAKERS

AREA VII



Ken-ichiro Ota is the President of the Hydrogen Energy Systems Society of Japan (HESS), the Chairman of the Fuel Cell Study Group, the Electrochemical Society of Japan and a Professor at the Chemical energy Laboratory, Graduate School of Engineering, Yokohama National University. His major field is the applied electrochemistry: materials for fuel cells, the hydrogen energy system and industrial electrolyses.

AREA VIII



Haruo Uehara, the former President of Saga University, Japan, is internationally known for his long-time research, over 35 years, in ocean thermal energy conversion (OTEC) and a leading researcher who devised the "Uehara Cycle". He has established a non-profit organization, Organization for the Promotion of Ocean Thermal Energy Conversion (OPOTEC) to promote potential OTEC projects.

AREA IX



John W. Lund is the President of the International Geothermal Association (IGA), and Director of the Geo-Heat Center in Klamath Falls, Oregon, USA. He is an Emeritus Professor of Civil Engineering at Oregon Institute of Technology. He has also been a member of the Geothermal Resources Council Board of Directors for 29 years. His specialty is the direct utilization of geothermal energy. He has lectured on this subject in over 20 countries and published extensively on geothermal energy including the editor of the Geo-Heat Center Quarterly Bulletin.

AREA X



Jyunichi Toyoda is the Chairperson of the Technical Advisory Committees for the NEDO supported New Type Micro Grid Projects demonstrated in Hachinohe and in Sendai. He is now Professor Emeritus of Tohoku University, Member of the Science Council of Japan and Distinguished Member of CIGRE (International Council on Large Electric Systems). His major field is the secure and harmonized operation of the electric power systems including the renewables and the dispersed generations.

SPECIAL SESSION



Jürgen Schmid is presently a Professor at the University of Kassel, Germany and the Chairman of the Board, Institute for Solar Power Supply Technology (ISET) at the University. His research career covers many different technologies in distributed and renewable energy sources including photovoltaic power generation and wind energy. His recent activities are directed to the grid integration of these distributed and renewable energy sources and he plays important roles in organizing and networking different European and international initiatives for such activities.

SPECIAL SESSION



Goran Strbac is the Director of the UK Centre for Distributed Generation and Sustainable Electrical Energy and a Professor of Electrical Power Engineering at the University of Manchester. His research interests include technical and commercial integration of distributed generation in the operation and development of power systems. He is the convener of the CIGRE Task Force "Economic interaction between dispersed generation and the power system" and a member of the executive team of the IEE Professional Network on Power Trading and Control.

INSTRUCTION FOR ABSTRACT PREPARATION (updated, October 2006)

Two different types of a **Short Abstract** and a **Review Abstract** are requested.

Abstract Deadline by Electronic Submission: *March 15, 2006*

Log on to our web-site at <http://www.re2006.org/> for full instructions.

Short Abstract:

Authors are required to submit a short abstract up to 400 words in English that provides a concise statement of objectives and a summary of important results through our web site. The abstract accepted for presentation will be reproduced directly in a Book of Abstracts for distribution at the conference.

Following information is also required during the submission:

- Applicable area number (I to X in "Conference Topics") and corresponding key words.
- Preferred mode of presentation (oral or poster).
- Full title.
- Full name, affiliation, phone/fax/e-mail and complete mailing address of the corresponding author.
- Full name and affiliation of co-authors.

Review Abstract:

A PDF (or MS-Word, Rich-Text) file of a review abstract up to 2 pages maximum (size A4, 210×300mm) in English, including figures and tables, must be also submitted for reviewing by the Program Committee through our web site. The same information as listed above, plus phone/fax/e-mail for co-authors, must also be at the top of the first page of the review abstract.

Abstracts submitted after the Deadline will be treated as **Late News papers**. The author designated as the author of correspondence will be notified of the paper's acceptance or rejection during the month of **May 2006**. **Within a month after this notification, you should register your participation to secure your presentation on the final conference program.**

FULL PAPER SUBMISSION:

Final manuscripts of full papers in PDF file will be collected during the Conference. Details will be found on our web site later. No papers will be published without presentation at the conference.



Prof. Izumi Ushiyama, Program Chairperson (AIT)

E-mail: program@re2006.org

Registration Fee (Tentative):

Registration can be made electronically through our Web site (<http://www.re2006.org>) after April 2006. Registration Fee does not cover any of Tour Cost. Conference Proceedings will be distributed by CD-ROM after the conference.

Standard Fee: 60,000 Japanese Yen per person including one CD-ROM and Banquet fee.

Early Bird: 50,000 JPY before 31st August 2006 at the same conditions as the Standard fee.

Special Rate: 50,000 JPY and 40,000 JPY depending on the above date of the registration only for members of RE2006 co-organizers and supporting organizations/societies listed on page xii and iii including ISES.

Student Rate: 10,000 JPY without CD-ROM and Banquet fee. A student ID is necessary to apply this fee.

Note: 1 USD ≈ 110JPY @ Jul.2005.

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ACCOMMODATIONS

International grade hotels within walking distance from the venue will be available through the conference Website - <http://www.re2006.org/> - at a reasonable conference rate. If you have any additional questions, please contact JTB, the official travel agent, or JCS, the RE2006 secretariat:

JTB Global Marketing & Travel Inc.

Phone:+81-3-5796-5445 Fax:+81-3-5495-0685

E-mail: accommodation@re2006.org

JCS International Communications Company

Phone: +81-3-3508-1243; Fax: +81-3-3508-1695

E-mail: inquiry@re2006.org

Technical Visit & Social Program

Social Programs

- Welcome reception on Monday and Conference Banquet on Wednesday are planned.
- Social programs will be prepared for accompanying persons such as tea ceremony; sightseeing tours to Tokyo Disney Resort; Tokyo Bay area tours for Chiba, Tokyo or Yokohama. Please, consult the tour desk or obtain information in advance from - <http://www.re2006.org/>.

Technical Tours

- **Half day tour to Sapporo Beer Chiba Brewery**
abatement system including fuel cell operation using methane gas from industrial waste water, bio-top gardening, and PV system. Site walking is also planned along the beer production process with beer or soft drink service at the end.
- **Mini-technical tours** are also planned in the area of Makuhari. The High Technology Hall is a showroom of Sharp which is the world leading company in photovoltaics and liquid crystal display; and/or another plan to the Area Heat Network Center composed of 10 big heat pumps utilizing waste water heat.
- **One-day tour to a Really Massive Roof-top-PV Community "Pal Town"**, which consists of more than 300 PV houses presently operated as a part of NEDO's R&D Project. At the time of visit, the total number of PV houses will exceeds 500. Its main objective is to solve various distribution grids issues arising from the massive interconnection of PV systems. The tour is planned on Saturday, 14 October. This tour may also visit a related research institute.



Subscription for Further Information

Please, send E-mail to Conference Secretariat including your name, organization and E-mail address:

inquiry@re2006.org

Dr. Masayuki Kamimoto, Secretary General (AIST)



KEY DATES

Start of abstracts submission:

October 2005

Deadline of Abstracts Submission in PDF format:

15 March 2006

Notification of acceptance:

during May 2006.

Registration for paper presentation:

1 month after acceptance.

Full paper submission in PDF file :

during the Conference.

Renewable Energy 2006 Exhibition

An industrial exhibition is planned to be held during the Conference from 11th to 13th October 2006 in the same venue. This will become one of the internationally-highest quality exhibitions including Japanese advanced products in renewable energy field such as photovoltaics, fuel cell vehicles, etc.. It is also preparing a sufficient number of booths for inviting around 250 exhibitors from 40 countries in Europe, America and Asia.

An exhibitor guide is available on the homepage: <http://www.re2006.org/>.

You are also encouraged to contact:

CNT Company, Phone: +81-3-5297-8855; Fax: +81-3-5294-0909

E-mail: exhibition@re2006.org

Organized by:

· **The Renewable Energy 2006 Organizing Committee**

Co-Organized by:

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- Photovoltaic Power Generation Technology Research Association (PVTEC)
- Nagoya Industrial Science Research Institute (NISRI)

Where's "Makuhari Messe"?

It's the world famous convention center within Tokyo Metropolitan Area!



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World Famous "Tokyo Motor Show" at the same exhibition center every year!



The Makuhari Messe is the most conveniently located on the way to Central Tokyo from the New Tokyo International Airport (Narita) in 30 min. by bus or car.