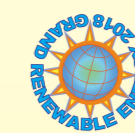


FLOOR MAP

Date : June 20 (Wed) ▶ June 22 (Fri) 2018
 Venue : PACIFICO Yokohama
 Time : 10:00 - 17:00



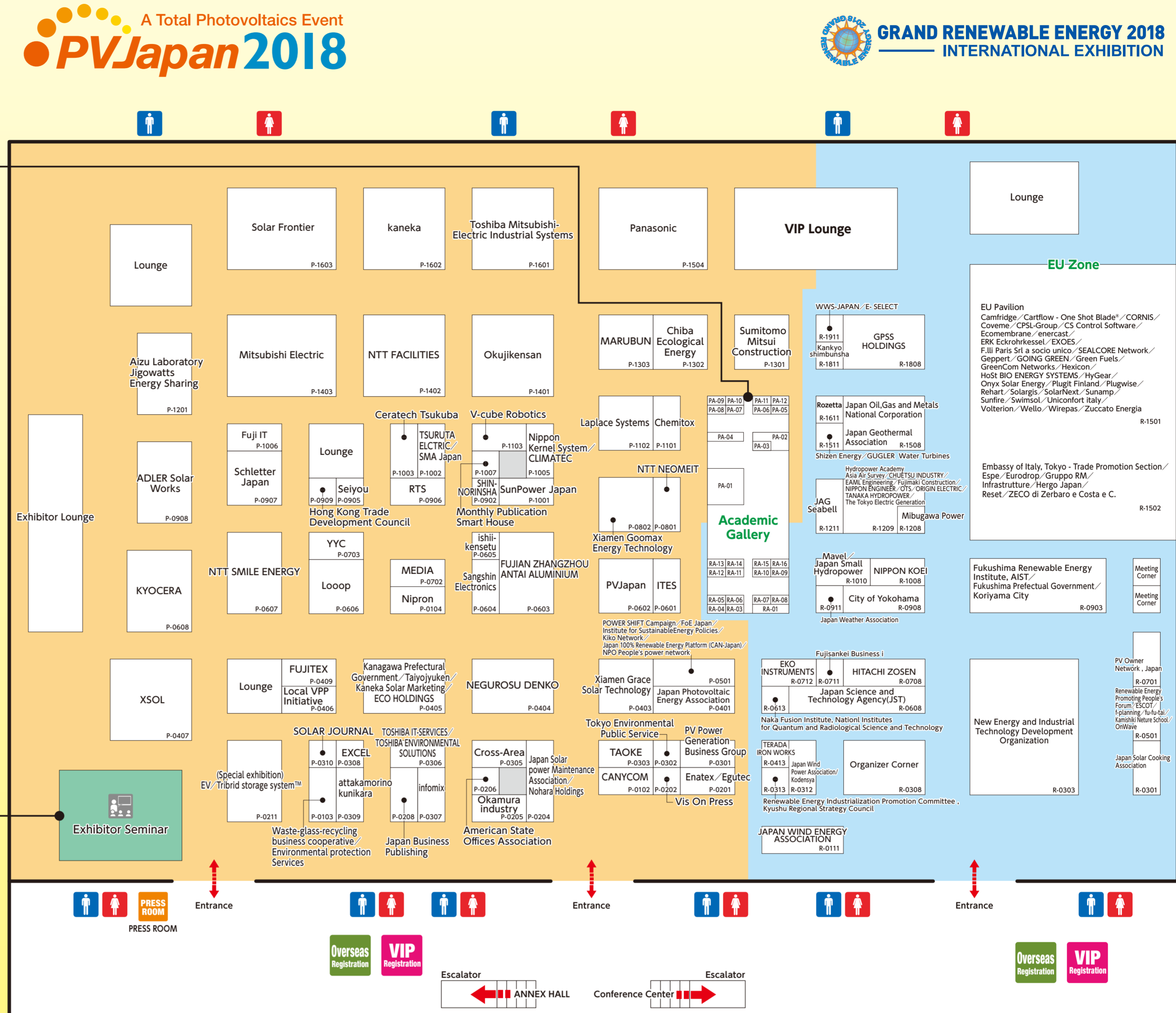
**GRAND RENEWABLE ENERGY 2018
 INTERNATIONAL EXHIBITION**

| ACADEMIC GALLERY EXHIBITORS | |
|-----------------------------|---|
| PVJapan2018 | |
| PA-04 | Crystalline Si PV R&D Consortium of Six Universities in Japan, NEDO Project |
| PA-12 | HOKKAIDO UNIVERSITY, RIES |
| PA-08 | Japan Advanced Institute of Science and Technology, Ohdaira Laboratory |
| PA-10 | Kanagawa Institute of Technology Itako Lab. |
| PA-03 | Kyushu Institute of Technology |
| PA-06 | Okada Lab., RCAST, The Univ. of Tokyo |
| PA-11 | Research Association for Technology Innovation of Organic Photovoltaics |
| PA-05 | Research Center for Smart Energy Technology, Toyota Tech. Inst. |
| PA-09 | The Japan Society of Applied Physics |
| PA-01 | Tokai University Student Project Center (Tokai University Solar Car Team) |
| PA-02 | Tokyo University of Science, Research Institute for Science and Technology, Photovoltaic Science and Technology Research Division |
| PA-07 | Usami & Kurokawa Laboratory, Nagoya University |

| GRAND RENEWABLE ENERGY 2018 INTERNATIONAL EXHIBITION | |
|--|---|
| RA-04 | Aichi Institute of Technology Eco-electric Power Research Center |
| RA-15 | BIOMASS SHORE, Graduate School of Agricultural and Life Science, THE UNIV. OF TOKYO |
| RA-05 | Chubu Univ. Yasuyabashi - Minna Denryoku-Joint Reserch Lab. |
| RA-12 | Institute of Regional Innovation, HIROSAKI UNIV. |
| RA-01 | JAPAN SOLAR ENERGY SOCIETY |
| RA-14 | Morita Group, TOKYO UNIV. OF AGRICULTURE |
| RA-13 | OGURA Lab, Dept. of Urban Environment Systems, Chiba Univ. |
| RA-11 | Organization for Marine Sci. & Tech., Nagasaki Univ. |
| RA-08 | Power and Energy LAB., Department of Electrical Engineering, College of Science and Technology, Nihon Univ. |
| RA-16 | Shibaura Institute of Technology, Energy and Environmental Technology Lab. |
| RA-10 | TATSUHIKO NAGATA (INDIVIDUAL MEMBER OF JAPAN WIND ENERGY ASSOCIATION) |
| RA-03 | The Geothermal Research Society of Japan |
| RA-07 | Tokyo Denki Univ. School of Engineering, Green Energy LAB. |
| RA-09 | WASEDA UNIV. Faculty of Science and Engineering, Department of Applied Mechanics and Aerospace Engineering, Miyagawa LAB. |
| RA-06 | Yasuo Ueno (INDIVIDUAL MEMBER OF JAPAN WIND ENERGY ASSOCIATION) |

PVJapan2018 Exhibitor Seminar

| In addition to seminars by exhibitors, we will newly conduct seminars in four fields that have captured the latest market changes. | | | |
|--|--|---|---|
| [New field 1 (yellow)] | | [New field 3 (light blue)] | |
| digitization of renewable energy | | Spreading on-water installations | |
| [New field 2 (orange)] | | [New field 4 (yellow-green)] | |
| New business models in the agricultural field | | Electricity aiming to expand the supply of renewable energy | |
| June 20 (Wed.) | June 21 (Thu.) | June 22 (Fri.) | |
| 11:00 - 12:20 | Nohara Holdings Renewable energy project division Kyochi Fuse Visualization and making work efficient of business plan, operation and maintenance | Local VPP Initiative Fujitsu Research Institute Consulting Unit Public Management Consulting Group Principal Consultant Yusuke Uwabara Development of Regional Energy Services through Local Virtual Power Plant | ENATEX Solar Division Manager Norihiko Ojima Solar power installation method supporting farming activities |
| 11:30 - 11:50 | 'Japan Solar Power Maintenance Association' Nohara Holdings Renewable energy project division Manager Mikihito Masuda Harmful effect and risk | ITES Department of Solar Panel Checker Jun Tanihara Solar Panel Checker 'Solameter' | Chiba Ecological Energy Representative Director Takeshi Magami New Era of Natural Energy and Farming |
| 13:00 - 13:20 | Japan Weather Association Environment and Energy Department Section Kenji Uozumi Estimation and prediction technologies of solar radiation and characteristics of solar radiation in recent years | Japan Weather Association Environment and Energy Department Section Kenji Uozumi Estimation and prediction technologies of solar radiation and characteristics of solar radiation in recent years | Suntomo Mitsui Construction Planning & Administration Department, Business Innovation and Incubation Division Naoko Nishihara Floating solar for future energy solution |
| 13:30 - 13:50 | Fuji IT Energy Solution Div. Yasunori Hashimoto power stabilizer control solution | Japan Business Publishing Environmental Business Chief editor Norifumi Hakuta FIT 'O' Business Model Concept | XSOL Hiideki Manuyama The reality and problems of low-voltage (under 50kV) projects: Study of low-voltage projects and XSOL PV evaluation service. |
| 14:00 - 14:20 | Aizu Laboratory Creation Division Project manager Jinichi Tokyo Introduction of the demonstration of the Smart Plug in Fukushima prefecture | Japan Weather Association Environment and Energy Department Section Masayoshi Iyoda Estimation and prediction technologies of solar radiation and characteristics of solar radiation in recent years | Japan Weather Association Environment and Energy Department Section Masayoshi Iyoda Estimation and prediction technologies of solar radiation and characteristics of solar radiation in recent years |
| 14:30 - 14:50 | Minna Denryoku PPS Division Manager Shuta Mano Introduction of Minna Denryoku's "face-to-face electricity," and RE100 service using block chain technologies | POWER SHIFT Campaign Institute for Sustainable Energy Policies/100% Renewable Energy Platform Shota Fujiya The trend of 100% renewable energy in the world and Japan | Fuji IT Energy Solution Div. Yasunori Hashimoto power stabilizer control solution |
| 15:00 - 15:20 | Jigowatts CEO Tomoki Shibata Multifunctional EVSE "Ella" | Fuji IT Energy Solution Div. Yasunori Hashimoto power stabilizer control solution | POWER SHIFT Campaign Kiko Network Masayoshi Iyoda Renewables vs. Coal? - Insights from UN Climate Negotiation on the Paris Agreement - |
| 15:30 - 15:50 | Energy Sharing CEO Naoki Saki P2P trading platform & transaction development among local solar PV promoters and users to make a sustainable microgrid | Excel Technical Division Minoru Kobayashi Good to know 'panel cleaning' is a real effect at | Ceratech Tsukuba Renewable Energy Department Jiro Hasumi Photovoltaic Science and Technology Research Division |



| PVJapan2018 (Exhibitor List) | |
|------------------------------|--|
| P-0908 | ADLER Solar Works |
| P-0206 | Aizu Laboratory |
| P-0309 | American State Offices Association |
| P-0102 | attakamorinkunikara |
| P-1003 | CANYCOM |
| P-1101 | Ceratech Tsukuba |
| P-1302 | ChemtoX |
| P-0305 | Chiba Ecological Energy |
| P-0201 | Cross-Area |
| P-0201 | Enatex |
| P-0201 | Egutec |
| P-1201 | Energy Sharing (Special exhibition) EV / Tribrid storage system™ |
| P-0308 | EXCEL |
| P-1006 | Fuji IT |
| P-0603 | FUJIAN ZHANGZHOU ANTAN ALUMINIUM |
| P-0409 | FUJITEC |
| P-0909 | Hong Kong Trade Development Council |
| P-0307 | Infomix |
| P-0605 | Ishii-kensetsu |
| P-0601 | ITES |
| P-0401 | Japan Photovoltaic Energy Association |
| P-0204 | Japan Solar power Maintenance Association |
| P-1201 | Nohara Holdings |
| P-0405 | Nagawa Prefectural Government ECO HOLDINGS |
| P-1602 | Kanaka Solar Marketing |
| P-1102 | NTT FACILITIES |
| P-0608 | KYOCERA |
| P-1102 | Laplace Systems |
| P-0406 | Local VPP Initiative |
| P-0606 | Loop |
| P-1303 | MARUBUN |
| P-0702 | MEDIA |
| P-1403 | Mitsubishi Electric |
| P-1007 | Monthly Publication Smart House |
| P-0404 | NEGUROSU DENKO |
| P-1005 | Nippon Kernel System CLIMATEC |
| P-0104 | Nipron |
| P-1402 | NTT FACILITIES |
| P-0801 | NTT NEOMEIT |
| P-0607 | NTT SMILE ENERGY |
| P-0607 | Loop |
| P-0205 | Okamura Industry |
| P-1401 | Okujikensan |
| P-1504 | Panasonic |
| P-0501 | POWER SHIFT Campaign |
| P-0602 | PVJapan |
| P-0301 | PV Power Generation Business Group |
| P-0906 | RTS |
| P-0907 | Sangshin Electronics |
| P-0905 | Selyou |
| P-0902 | SHIN-NORINSHA |
| P-1603 | Solar Frontier |
| P-0303 | SOLAR JOURNAL |
| P-1301 | Suntomo Mitsui Construction |
| P-1001 | SunPower Japan |
| P-0303 | TACKE |
| P-0302 | Tokai Environmental Public Service |
| P-0306 | TOSHIBA IT-SERVICES |
| P-1601 | TOSHIBA ENVIRONMENTAL SOLUTIONS |
| P-1002 | TSURUTA ELECTRIC |
| P-1103 | V-cube Robotics |
| P-0202 | Vis On Press |
| P-0103 | Waste-glass-recycling business cooperative Environmental protection Services |
| P-0802 | Xiamen Goomax Energy Technology |
| P-0403 | Xiamen Grace Solar Technology |
| P-0407 | XSOL |
| P-0703 | YYC |
| P-0602 | Kiko Network NPO People's power network |
| P-0602 | PVJapan |
| P-0301 | PV Power Generation Business Group |
| P-0906 | RTS |
| P-0604 | Sangshin Electronics |
| P-0905 | Selyou |
| P-0902 | SHIN-NORINSHA |
| P-1603 | Solar Frontier |
| P-0303 | SOLAR JOURNAL |
| P-1301 | Suntomo Mitsui Construction |
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| P-0403 | Xiamen Grace Solar Technology |
| P-0407 | XSOL |
| P-0703 | YYC |

| GRAND RENEWABLE ENERGY 2018 INTERNATIONAL EXHIBITION (EXHIBITOR LIST) | |
|---|--|
| R-0908 | City of Yokohama |
| R-0712 | EKO INSTRUMENTS |
| R-1502 | Embassy of Italy, Tokyo - Trade Promotion Section |
| R-0908 | Espe |
| R-0908 | Eurodrop |
| R-0908 | Gruppo RM |
| R-0908 | Infrastructure / Hergo Japan |
| R-0908 | Reset |
| R-0908 | ZECO di Zerbaro e Costa e C. |
| R-1501 | EU Pavilion |
| R-1501 | Cambridge |
| R-1501 | Cartflow - One Shot Blade® |
| R-1501 | CORNIS |
| R-1501 | Coverne |
| R-1501 | CPSL-Group |
| R-1501 | CS Control Software |
| R-1501 | Ecomembrane |
| R-1501 | enercast |
| R-1501 | ERK Eckrohrkessel |
| R-1501 | EVONES |
| R-1501 | F.I.II Paris Srl a socio unico / SEALCORE Network |
| R-1501 | Geppert |
| R-1501 | GOING GREEN |
| R-1501 | Green Fuels |
| R-1501 | GreenCom Networks |
| R-1501 | Hexicon |
| R-1501 | HoSt BIO ENERGY SYSTEMS |
| R-1501 | HyGear |
| R-1501 | Onyx Solar Energy |
| R-1501 | Plugit Finland |
| R-1501 | Plugwise |
| R-1501 | Rehart |
| R-1501 | SolarGIS |
| R-1501 | SolarNext |
| R-1501 | Sunamp |
| R-1501 | Sunfire |
| R-1501 | Swimcol |
| R-1501 | Uniconfort Italy |
| R-1501 | Volterlon |
| R-1501 | Wello |
| R-1501 | Wirepas |
| R-1501 | Zuccato Energia |
| R-0711 | FujiSankei Business I |
| R-0903 | Fukushima Renewable Energy Institute, AIST |
| R-1808 | GPSS HOLDINGS |
| R-0708 | HITACHI ZOSEN CORPORATION |
| R-1209 | Hydropower Academy |
| R-1209 | Asia Air Survey |
| R-1209 | CHUETSU INDUSTRY |
| R-1209 | EAM Engineering |
| R-1209 | Fujimaki Construction |
| R-1209 | NIPPON ENGINEER |
| R-1209 | OTS/ORIGIN ELECTRIC |
| R-1211 | JAG Seabell |
| R-1508 | Japan Geothermal Association |
| R-1508 | Japan Oil, Gas and Metals National Corporation |
| R-0608 | Japan Science and Technology Agency (JST) |
| R-0301 | Japan Solar Cooking Association |
| R-0911 | Japan Weather Association |
| R-0111 | JAPAN SOLAR ENERGY SOCIETY |
| R-0312 | Japan Wind Power Association |
| R-0413 | Kanryoshimbunsha |
| R-1010 | Mavel |
| R-1208 | Mibugawa Power |
| R-0613 | Naka Fusion Institute, National Institutes for Quantum and Radiological Science and Technology |
| R-0303 | New Energy and Industrial Technology Development Organization |
| R-1008 | NIPPON KOEI |
| R-0701 | PV Owner Network, Japan |
| R-0313 | Renewable Energy Industrialization Promotion Committee, Kyushu Regional Strategy Council |
| R-0501 | Renewable Energy Promoting People's Forum |
| R-0501 | ESCOF |
| R-0501 | FaJianming |
| R-0501 | fu-fu-fu |
| R-0501 | Kamishiki Nature School |
| R-0501 | OniWave |
| R-1611 | Rozetta |
| R-1511 | Shizen Energy |
| R-0413 | GUGLER Water Turbines |
| R-0413 | TERADA IRON WORKS |
| R-1911 | WWS-JAPAN |
| R-1911 | E-SELECT |
| R-1511 | EU Pavilion |
| R-1511 | Cambridge / Cartflow - One Shot Blade® / CORNIS / Coverne / CPSL-Group / CS Control Software / Ecomembrane / enercast / ERK Eckrohrkessel / EXCES / F.I.II Paris Srl a socio unico / SEALCORE Network / Geppert / GOING GREEN / Green Fuels / GreenCom Networks / Hexicon / HoSt BIO ENERGY SYSTEMS / HyGear / Onyx Solar Energy / Plugit Finland / Plugwise / Rehart / SolarGIS / SolarNext / Sunamp / Sunfire / Swimcol / Uniconfort Italy / Volterlon / Wello / Wirepas / Zuccato Energia |
| R-1511 | Embassy of Italy, Tokyo - Trade Promotion Section / Espe / Eurodrop / Gruppo RM / Infrastructure / Hergo Japan / Reset / ZECO di Zerbaro e Costa e C. |
| R-1511 | Fukushima Renewable Energy Institute, AIST / Infrastructure / Hergo Japan / Reset / ZECO di Zerbaro e Costa e C. |
| R-1511 | Fukushima Prefectural Government / Koriyama City |
| R-1511 | Japan Weather Association |
| R-1511 | Japan Solar Cooking Association |
| R-1511 | Japan Solar Network, Japan |
| R-1511 | Renewable Energy Promoting People's Forum / ESCOF / FaJianming / fu-fu-fu / Kamishiki Nature School / OniWave |
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| R-1511 | Renewable Energy Promoting People's Forum |
| R-1511 | ESCOF |
| R-1511 | FaJianming |
| R-1511 | fu-fu-fu |
| R-1511 | Kamishiki Nature School |
| R-1511 | OniWave |
| R-1511 | Rozetta |

| PVJapan2018 Seminar | | | |
|---------------------|---|----------------------|--|
| June 20 (Wed.) | Seminar | Venue | Organizer |
| 10:30-12:00 | [ES-1] Executive Seminar [1] Photovoltaic (PV) power generation: towards becoming a reliable, major power source [2] Perspective on Future Policies on Renewable Energies [3] Dynamism of Climate Diplomacy and the Role of Renewable Energy | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:15-17:00 | [SS-1] Specialized Technical Seminar: Kyoto University/Energy Strategy Institute seminar "Distributed energy resources (DERs) and issue of available storage" Opening remarks Part 1 DER transactions (1) Prosumer's integration into energy market: the age of Transactive Energy / The current movement of DER transaction (2) Trend Over European DER (Distributed Energy Resources) Transactions Part 2 Transmission Capacity Problem in Japan and Power Exchange as the Solution (1) Transmission Capacity Problem in Japan and Power Exchange as the Solution (2) Power trading and grid system | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:15-14:00 | [BS-1] Business Seminar Advances in electric vehicle (EV) and EV battery recycling business with a view to renewable energy application | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 14:30-15:15 | [BS-2] Business Seminar Efforts to Secure the Structural Safety of Photovoltaic System | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 15:45-16:15 | [BS-3] Business Seminar The point of FIT application | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 10:15-12:00 | [BS-4] Business Seminar (1) Implementation of large-scale renewable energy systems and what the systems should be like (2) Initiatives toward expedited introduction of "Connect and Manage in Japan" (3) Utility 3.0 - Outlook for changing electric power system and energy industry | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 10:15-10:45 | [BS-5] Business Seminar The point of FIT application | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 11:00-11:45 | [BS-6] Business Seminar Measures against the 2019 problem visible from the actual residence data | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:00-15:10 | [SS-2] Specialized Technical Seminar Measures to support net-zero Energy House (ZEH), etc. for 2018, and seminar on design and construction of residential PV power generation systems for ZEH builders Opening remarks (1) Measures to Support Net-Zero Energy House (ZEH) for 2018 (2) Measures to Support Net-Zero Energy House (ZEH) and Residential Energy Efficiency Improvement for 2018: Session 1 (3) Measures to Support Net-Zero Energy House (ZEH) and Residential Energy Efficiency Improvement for 2018: Session 2 (4) About residential photovoltaic system market (5) Design and Construction of Residential PV Power Generation Systems | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:15-14:45 | [BS-7] Business Seminar (1) Fujitsu's approach to expansion of renewable energy (2) Revitalizing regions with floating solar | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 15:15-16:45 | [ES-2] Executive Seminar (1) Recent initiatives of Japan Photovoltaic Energy Association (2) Subsidies and Other Measures of the Ministry of the Environment to Support the Construction of PV Power Generation Systems That Will Play the Leading Role in a Carbon-Free Society (3) Renewable energy for activation of rural areas | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |

| GRAND RENEWABLE ENERGY 2018 INTERNATIONAL CONFERENCE SPECIAL SESSION | | | |
|--|---|----------------------|--|
| June 22 (Fri.) | Seminars and Events | Venue | Organizer |
| 10:15-11:45 | [TS-1] Technical Seminar (1) Recent development of solar cells (2) Advanced development of perovskite thin film solar cell | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 10:15-12:15 | [IS-1] International Operations Committee Seminar (1) US PV Market Trend: "RE100" Driven by Communities and Corporations (2) Global trends in PV implementation and estimated changes in leveled cost of energy (LCOE) | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:00-14:00 | [SS-3] Specialized Technical Seminar About the PV power generation business evaluation guide | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 13:15-14:00 | [BS-8] Business Seminar How are European countries struggling renewable energy main power supply? | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 14:15-15:00 | [BS-9] Business Seminar Hamamatsu City's energy policy | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 14:30-16:00 | [IS-2] International Operations Committee Seminar (1) Corporate Business Risks and Opportunities in Climate Change (Mitigation and Adaptation) (2) Contributions Photovoltaic Technologies are expected to make in Developing Countries especially in Sub-Saharan African countries, and necessary conditions to promote Photovoltaic Systems | F203-204, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 15:15-16:00 | [BS-10] Business Seminar Efforts to Secure the Structural Safety of Photovoltaic System | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |
| 16:15-16:45 | [BS-11] Business Seminar The point of FIT application | F201-202, ANNEX Hall | Japan Photovoltaic Energy Association (JPEA) |

(As of June 12, 2018)

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GRAND RENEWABLE ENERGY 2018 INTERNATIONAL CONFERENCE SPECIAL SESSION

| June 19 (Tue.) | Seminar | Venue | Organizer |
|----------------|--|-------------------------|--|
| 13:00-17:30 | NEDO Session at GRE 2018 "Renewable Energy makes New Era... to realize Low-carbon society" | Conference Room 501-502 | New Energy and Industrial Technology Development Organization (NEDO) |

| June 20 (Wed.) | Seminar | Venue | Organizer |
|----------------|---|-------------------------|--|
| 10:00-12:05 | FREA session International Workshop: "Challenges and breakthrough toward realization of smart society powered by distributed renewable electricity sources" | Conference Room 501-502 | National Institute of Advanced Industrial Science and Technology (AIST) The Fukushima Renewable Energy Institute, AIST* (FREA) |

| June 21 (Thu.) | Seminar | Venue | Organizer |
|----------------|---|-------------------------|---|
| 13:00-16:30 | Grand-re2018 JST special session "Expectations and Prospects of Ammonia Fuel derived from Renewable Energy" | Conference Room 501-502 | Japan Science Technology Agency (JST) |
| 13:20-17:00 | Grand-re2018 ESI/NEDO/IEA special session "Maximization of Possibility in Energy System Transformation - Implication from IEA System Integration of Renewables" | Conference Room 502 | Social System Integration, Social Cooperation Program Institute of Industrial Science The University of Tokyo (ESI) |