



APEC Project Update

Hong Kong, China

The 60th Meeting of APEC Expert Group on
New and Renewable Energy Technologies

APEC Funded Project on “Promoting Digital Solar Resource Maps and Management Technologies in Advancing Renewables Growth in APEC”

EWG 01 2023A

Project Objective

Promote digital technology and innovate and improve capacity in the development and deployment of renewables, particularly solar energy, of APEC economies.

APEC forum:	EWG / EGNRET
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Co-sponsoring economies:	China; Japan; Singapore; Philippines; Viet Nam
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Start Date:	October 2023
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Project Completion Date:	March 2025
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Status:	<ol style="list-style-type: none">1. Pre-Workshop Study: Finalising;2. Workshop: 8 July 2024 (tentative) in HKC
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Status Quo of solar resource maps

No.	Solar Irradiation Map	Organisation
1	Global Atlas for Renewable Energy	IRENA
2	SolarCity	IRENA
3	Global Solar Atlas	World Bank Group and SOLARGIS
4	Solar Resource Maps	SOLARGIS
5	Hong Kong Solar Irradiation Map	Hong Kong, China (EMSD)
6	Hong Kong Solar Map	Hong Kong, China (HKBU)
7	National Solar Radiation Database (NSRDB)	United States (NREL)
8	Xihe Energy Meteorological Big Data Platform	China (Technology of Digital Energy)
9	Big data on China's wind and solar resources	China (China Meteorological Administration)
10	Solar Irradiance Map	Singapore (EMA)
11	Average Daily Solar Exposure Maps	Australia (Bureau of Meteorology)
12	Solcast Solar Radiation Maps	Australia (SOLCAST DNV company)
13	Photovoltaic Potential and Solar Resource Maps	Canada (Canadian Forest Service)
14	Solar Energy Maps	Canada (EcoSmart Foundation)
15	Japan Solar Radiation Database	Japan (NEDO)
16	National PV Irradiance Map	Malaysia (SEDA)
17	Thailand Solar Map [19]	Thailand (Chulalongkorn University)
18	Indonesia Solar Map [20]	Indonesia (AESI)

Status Quo of solar management systems

No.	Name	Organization
1	Solar Power Management Solution	Advantech
2	FusionSolar	China (Huawei)
3	SOLARMAN Business	China (IGEN TECH CO., LTD.)
4	SOLARMAN Smart	China (IGEN TECH CO., LTD.)
5	IsolarCloud	China (SUNGROW)
6	Insight monitoring system	China (SUNGROW)
7	APOLLO	China (Envision)
8	ISMS	Hong Kong SAR, China (EMSD)
9	PV Monitoring System	Malaysia (SEDA)
10	Qantum	Singapore (QOS Energy)
11	Terabase	United States (Terabase Energy)
12	Drive	United States (Power Factors)
13	Advanced Energy Management System	United States (GE Digital)
14	Solar Asset Management Software	United States (GE Digital)
15	Insight	French (Schneider Electric)
16	Solarwatt	Germany (Solarwatt)

APEC Workshop on Digital Solar Resource Maps and Management Technologies

Tentative Agenda



Hong Kong, China

Time slot (HKT)	Sessions / Topics
09:30 – 10:05	Welcoming Remarks + Opening Remarks + Photo Taking
10:05 - 10:15	Summary of Pre-Workshop Findings
10:15 -10:45	Break
10:45 - 11:40	Session 1: Data Requirement from Solar Energy Systems <ol style="list-style-type: none">1. Mr. Alexander Konstantinovich IZHBULDIN, Senior Researcher of APERC2. Prof. XU Zhao, Chairman of IEEE PES/IES/PELS/IAS Joint Chapter in HKC Section
11:40 -12:35	Session 2: Deployed technologies for Solar Resources Maps and Management Systems
12:35 – 13:45	Lunch
14:00 - 15:00	Section 3: Innovative technologies for Digital Solar Energy Systems <ol style="list-style-type: none">1. Prof. ZHU Li, President of APSEC2. Dr HE Yu Fei, Representative from the Huawei Digital Power Technologies Co., Ltd.
15:00 - 15:30	Break
15:30 - 17:00	Section 4: Site visit
17:00	End of workshop

Optional add-on event:



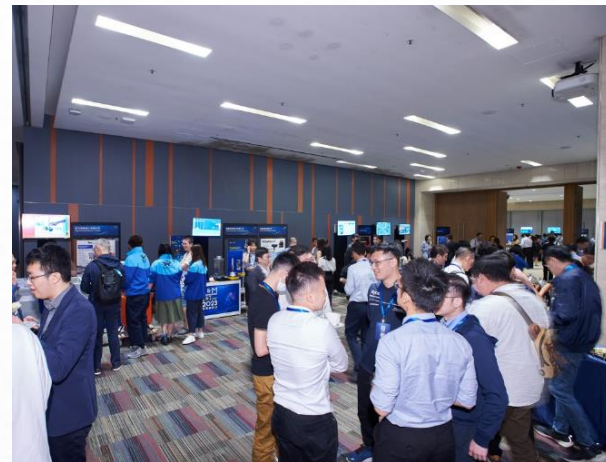
Tentative Agenda

- AI and innovation technologies
- Seminar (day 1)
- Exhibition (day 1)
- Site visit (day 2)

✗ Per-diem

✓ Local
transportation
arrangement

Reference photos of
E&M I&T Day 2023



Thank You!

**From
Hong Kong, China**