

IEEE P2814 Working Group Meeting
Minutes
26 Oct 2020 / 1:00 PM –2:00 PM (GMT + 1)
Teleconference

<https://ieeesa.webex.com/ieeesa/j.php?MTID=me69da99047ad4c2c869b355bc511fd9a>

Minutes Recorded by Michael Sanders, WG Secretary

1. Call to Order

The meeting was called to order at 2:05 PM (GMT) by the Working Group Chair, C. S. Lai. M. Sanders determined there was a proper quorum of voting members (6 out of the 10 members were present).

2. Roll Call of Individuals & Declaration of Affiliation

Affiliation FAQs: <http://standards.ieee.org/faqs/affiliation.html>

3. Approval of Agenda

C. S. Lai asked for approval of the agenda, and it was affirmed.

4. IEEE Patent Policy

a. Call for Patents

<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

The call for patents was raised. There were no questions or concerns.

5. Approval of the minutes of the last meeting

D. Wang requested that the minutes from the last meeting be approved.

J. Camillieri seconded that, and there were no objections.

6. Comments on Presentation

Slide 1 – Slide 6 Introduction/Agenda/ etc.

No comments

Slide 7 – Scope Statement

No comments

Slide 8 – Structure of Standard

No comments

Slide 9 – Input

No comments

Slide 10 – Methodology

Loi Lei Lai commented that the group should consider looking at EV case studies. He also posted a reference on this:

“IECON2020 Paper Number: SD-013412

Cost Effective Energy Management of Home Energy System with Photovoltaic-Battery and Electric Vehicle “

Dongxiang Yan, Tao Li, Chengbin Ma, Loi Lei Lai, Kim Fung Tsang

Dongxiao Wang commented that it is a good idea to consider EV as a potential energy storage solution to address the distribution grid peak load issue. Dongxiao posted this reference

“V2G and utilizing EV as a storage solution is in trial in Australia”:
<https://www.originenergy.com.au/blog/electric-vehicles-will-be-cheaper-lower-emissions-and-good-for-the-grid/>

John Camilleri commented that while EV growth in the fleet market is approaching comprehensive management level, residential side is still mostly at the program level. John posted this reference:

<https://www.distributedenergy.com/storage/article/21158424/case-study-finds-fermata-energy-v2g-technology-saves-on-utility-bills>

CS Lai commented that (w.r.t.) EV's, there is a cost benefit mitigation, and this should be considered relevant for the group.

Slide 11 Overnight and Operating Costs for Five Energy Storage Technologies

Simon Valdivia asked to clarify the differences between overnight cost and capital cost. C. S. Lai described the differences that overnight cost assumes the system is built “overnight”, where interest and time value of money are not accounted for.

M. Sanders commented that Battery Management System could be part of the operating cost.

Slide 12 Generic Cost Breakdown of Four Energy Storage Technologies

Simon Valdivia asked if costs are only available through public entities, or could we get this information from other sources

CS responded there could be funds available to purchase other data

Tom Thompson from IEEE mentioned that any concerns with using data and copyright issues, to contact him.

Slide 13 Revenue Sources with the Generation and Energy Storage System

No comments from members.

Slide 14 WIND-TP (GIES) System

No comments from members.

Slide 15 Wind Turbine with Battery Storage System (Non-GEIS)

No comments from members.

Slide 16 Revenue Streams for GIES Systems

R. Germana questioned about the relevant sources of revenues for the generation integrated energy system. In particular, intermittent and unreliable sources of generation system cannot participate in grid services and reserve. This is the case for Italy. C. S. Lai commented that these arrangements are the case for many European countries (in UK) and possibly for US, China, Australia etc.

C. S. Lai mentioned it would be useful to identify and categorize the revenue streams for other countries too, where this meeting examined the UK system.

Slide 16 Revenue Streams for GIES Systems

No comments from members

*Slide 16 Revenue Streams for GIES Systems
No comments from members*

Slide 19-24 Ran out of time to go through

7. Adjournment:

Simon Valdivia motioned to end the meeting at approximately 2:04pm, and Dongxiao Wang seconded.

8. AOB

None

9. Future Meetings

Will be in December 2020. C.S. Lai to send out meeting notice approximately 1 week before.

Attendees

Last Name	First Name	Affiliation
Lai	Chun Sing	Brunel University London
Sanders	Michael	Salt River Project
Lai	Loi Lei	Guangdong University of Technology
Wang	Dongxiao	Australia Energy Market Operator (AEMO)
Camilleri	John S.	PSC North America
Valdivia	Simon	John Wood Group
Germana	Roberto	University of Rome "La Sapienza"
Thompson	Tom	IEEE Standards Association