

## 15 Sep 2021 PSMA Energy Storage Committee Meeting Minutes

### Potential Talking Points:

- Reminder to members that you can contribute to educational seminars and power technology roadmap activity
- APEC 2022
  - Solicited comments about the Industry Session proposal (due Friday) content and potential subject matter after the last meeting.
  - Here is the feedback for discussion:
    - From Fred Weber.:
      - You may want make the actual IS Title a little more descriptive than just Energy Storage:
      - Perhaps; Energy Storage, it's not just about batteries, or Energy, so many ways to Store it....
    - From Michael H.:
      - I agree with Fred, there is an opportunity here to come up with a more descriptive title, e.g. '(designing) power electronics based solutions (architectures?) around energy storage devices and systems' (something shorter than this...). Another less descriptive but catchier alternative perhaps based a phrase such as '(power electronics manages) the ins and outs of energy storage'
      - 2. Do we want to keep it at higher power levels this time around? This year we had a 'power IoT' presentation on solutions in the ultra low power arena. It gets a namecheck in the abstract ('Other energy storage systems are in small, self-contained systems as portable devices or remote sensors for the Internet of Things) but there is no bullet to accompany it. How about we add a bullet
        - Portable/wireless IoT devices
      - 3. A suggestion for a tweak to the abstract, marked in yellow (or something similar)
        - Hypothetically, a small to medium sized power converter manufacturer with limited resources is facing the problem of incorporating energy storage into their systems (embedding &/or making compatible with external devices). What issues must they confront, and what problems must they solve?
    - From Yongheng Y.:
      - Should we also discuss/include a topic of energy storage wastes / recycling?
      - I like Mike's proposal – the catchier one – the first one is too much about power electronics, in my opinion – although it's important.
      - It might be good to focus on medium-/large-scale applications. We may also emphasize operation (ancillary services/control) of storage.
- Open discussion about the IS proposal
- We need presenters for the IS
- Next meeting

- Attendees:
  - John Horzepa, Peter Victor, Ed Herbert, Eric Schneider, Ada Cheng, Joe Horzepa, Juan Carlos Balda, Shafi Khadem, Mike Hayes, Patrick LeFevre, Yongheng Yang
- Discussion:
  - Ed H. did modify the previous draft proposal to address the concerns about the title, so he showed the change to the committee. He also suggested that the draft as shown will be the one submitted by the deadline. No one objected, so that document will be submitted.
  - Yongheng Yang introduced himself to the committee. He works on grid connected energy storage.
  - Juan Carlos B. and Yongheng both represent PELS TC5. Juan Carlos B. gave the committee a very good overall view of TC5, and he showed a presentation outlining many of their activities. He will provide the presentation in an email to all listed committee members.
  - Mike H. stressed the importance of this type of cross connected information. It is a benefit to the committee.
  - Shafi K. and Ada C. both came up with suggestions for potential content for the upcoming IS. Shafi K. suggested "Control of Distributed Energy Storage Systems for Energy Communities", and Ada C. suggested battery recycling. She knows of a company that does that called Redwood Materials (CEO JB Straubel came from Tesla).
  - Patrick L, Peter V. talked about other potential topics or presentations for the IS. Ada C also suggested that Dr. Becker, who gave a presentation in the last IS, could be recruited again to talk about technology trends in batteries.
  - Ed H. started a working document for the IS with the proposal and the topics and ideas discussed today.
- Next meeting 13 October 10am CDT.
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