

PSMA Energy Storage Committee Meeting Minutes 23 Mar 2022

Attendees:

John Horzepa, Ed Herbert, Eric Schneider, Mike Hayes, Justin Farrelly, Joe Horzepa, JC Balda, Teresa Rowe (IPC), Tracy Riggan (IPC), Eric Swenson

Discussion:

- The meeting discussion started with topics/activities that the committee will pursue in the coming months/year.
 - JC B. suggested grid forming Power Electronics, and what is the source, like hydrogen.
 - Ed H. suggested types of long-term storage, like molten salt or other thermal energy storage.
 - NREL came up as a potential source for projects/activities/speakers.
 - JC and Justin F. know people at NREL.
 - JC talked about Europe and the hydrogen economy.
 - JC also talked about Lithium Sulphur as an emerging technology.
 - Justin F. also stated he could share the NMEA storage vs. generation tree to help guide us as to what type of device is considered energy storage by them. It could potentially expand the committee view of energy storage types.
- The meeting shifted to a standards discussion. Two members of IPC were present, Tracy R. and Teresa R.
 - Justin F. stated that starting and placing standards is the difficult part.
 - Teresa R. stated that sometimes standards take decades.
 - Ed H. said that PSMA has not worked a lot on standards. Many time standards end up as a recommendation versus a requirement.
 - Mike H. said that there is an opportunity to accelerate compliance to UL, CSA, CE, etc. standards.
 - Eric Swenson (IBM) stated that he may be able to help with standards development in the energy storage area.
- Joe H. talked about how alternative sources, like wind and solar, store energy for later use. The DOE may be working on topics like this.
- There was a discussion about battery EOL, repurposing, refurbishing, recycling.
 - Henrik L. says that their battery systems get recycled.
- Henrik L. also suggested topics of the role of power electronics in battery systems, and also embedded sensors in battery systems.
- Tracie R. suggested one big area that is ripe for standardization is charging infrastructure, reliability, interoperability, and communications. Mike H. wondered if this type of development could be linked to a PTR.

- Next meeting 20 April at 11 am CDT.