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No. 7

IEEE FOOTHILL

JUNE MONTHLY NEWSLETTER

WHAT'S INSIDE

Events

This newsletter is brought to you by:

Panatron Inc

IEEE Foothill June 2024 ExCom/OpCom Monthly Hybrid Meeting

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The IEEE Foothill Section held its June ExCom/OpCom monthly hybrid meeting at DeVry University and virtually through Zoom. The chair reviewed the minutes, and the secretary is still working on the approved minutes from last year. The chair said that the section had already received its rebate. However, he was somewhat disappointed regarding the student's branch submissions, which resulted in fewer rebates to the student branches. As far as the vTools reporting, everyone is up-to-date with their event reports. The chair noted that the section just added a TikTok account.

Membership Development

Kim Mosley was able to report. We had 29 additional members. WIE will celebrate its WIE Day(s) from June 23 to July 12. Melissa Castro of CSUSB is interested in attending a Region 6 WIE Event, and the chair encouraged her to look for a colleague to attend with it. The section will reimburse their expenses.

Technical Committee

Nanotechnology, Dr. Jenny Yu, is working on SETC 2024. So far, they have had registrants from the USA (17) and India (14). They ha three categories: High School, Inter-High School, and Domestic College. Hyperloop may no longer handle the workshop series, but Banshee UAV might handle it since it has 100 members. The chair is interested in being a judge of the SETC 2024.

PES had an event last May 15, which was an Overview of an R&D Project for System Stability aimed at mass Introduction of Renewable Energy and a joint event with the Pikes Peak Section titled Utility-Scale Solar Generation at Colorado Springs Utilities. Koji has future topics already lined up for PES webinar.

Affinity Group

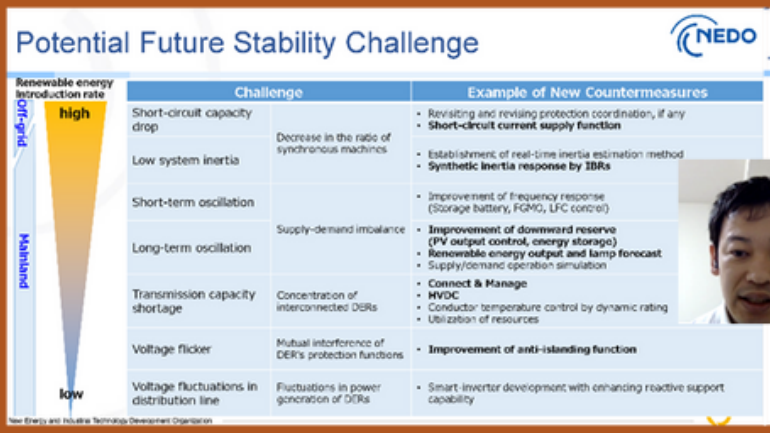
Kim Mosley said they have no upcoming events except for the IEEE WiE Day. She's also looking for some active members around Hesperia and hopes to engage them in more volunteering.

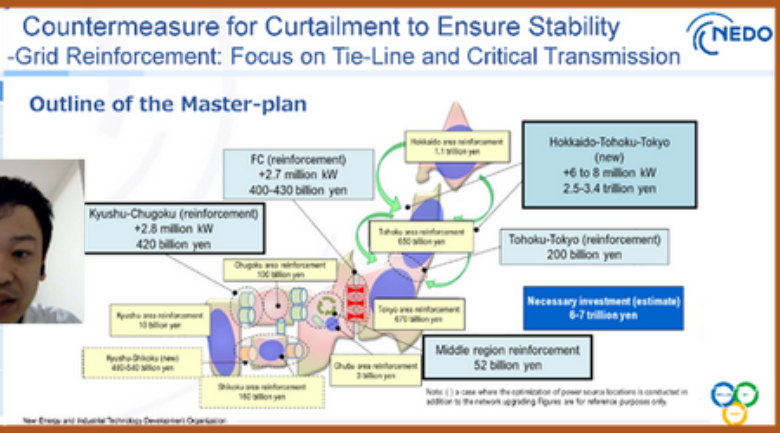
Consultants Network had their monthly meeting for this month and there will be no meeting for the month of July.

PES Chapter: Overview of Demonstration Projects aimed at Harnessing Renewable Energy on Remote Islands

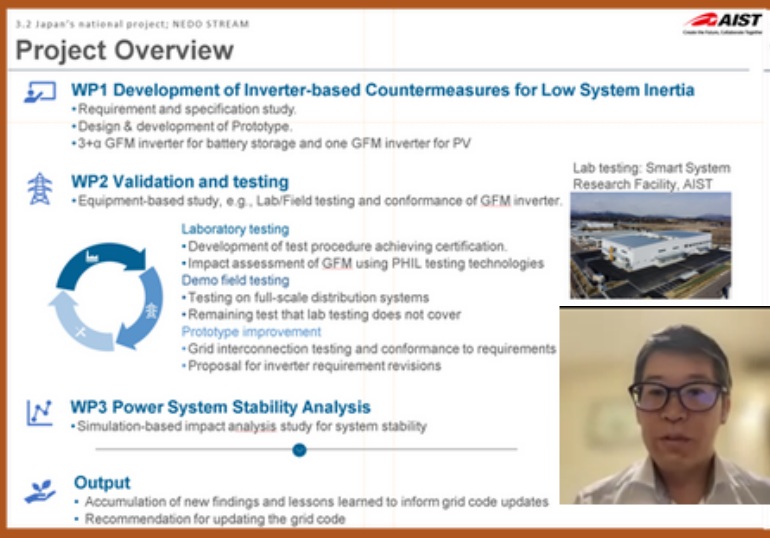
Reported by: Koji Yamashita

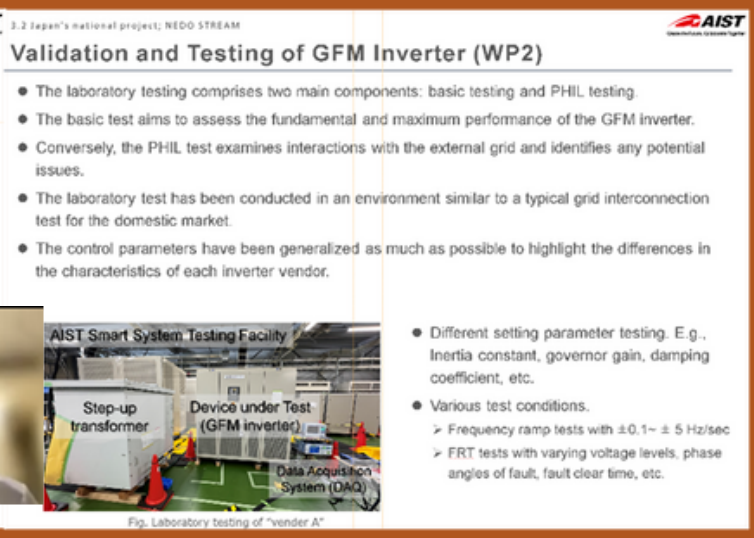
The IEEE Pes Foothill Seminar, titled “Overview of NEDO Stream R&D Project for System Stability Aimed at Mass Introduction of Renewable energy,” was held online on May 15, 2024. Mr, Ruichi Ogahara from the New Energy and Industrial Technology Development Organization (NEDO) and Dr. Jun Hashimoto from the National Institute of Advanced Industrial Science and Technology (AIST) presented an overview of a national demonstration project in Japan, highlighting preliminary results.





The first speaker discussed the current status and future goals of inverter-based resource (IBR) integration in Japan, specifically emphasizing the decreasing grid inertia due to the increasing use of IBRs. The second speaker explored projects involving grid-forming converters and motor-driven synchronous generators powered by renewable energy sources with batteries. He presented new findings regarding a unique current feature of grid-forming converters during a system fault, which will be leveraged for the upcoming update of Japan’s grid interconnection code.





A total of 13 participants attended this webinar. During the discussion segment, speakers and the audience elaborated on the limitations of synthetic inertia and fault current provision provided by IBRs, contrasting these functionalities with those of conventional synchronous generators, including grid-forming converters. The seminar was not recorded. But presentation slides are available in PDF format upon request. Interested individuals can contact Dr Koji Yamashita at kyamashita@ucr.edu To acquire the presentation material.

UCR Students had a tour at TAE with the help of YP interim chair, Pankaj Bhowmik.

UPCOMING EVENTS

IEEE Foothill July ExCom/OpCom Monthly Hybrid Meeting

July 09, 2024

IEEE Foothill Consultants Network August Meeting

August 07, 2024

If you want to be part of our growing section, email us at sec.foothill@ieee.org, or check our social media accounts below.