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Newsletter, January 2000

1999 was a great year for the Energy Storage Association and 2000 is shaping up to be even better. We made many changes in the way we operate, so we can now devote a much larger fraction of our monies to meeting our mission: "To promote the development and commercialization of competitive and reliable energy storage delivery systems for use by electricity suppliers and their customers, thereby bringing financial and technical benefits for energy storage operators." We have had very strong and positive feedback from our members and friends about the quality of last year's meetings and activities. We are looking forward to this year's program with equal enthusiasm.

The Spring Meeting: North Carolina

The Spring meeting held in the Raleigh Durham area of North Carolina provided a great networking opportunity for utilities, developers and users of energy storage. It was stimulated by a series of sessions, which reviewed new technical developments and energy storage projects. The meeting opened with Dr

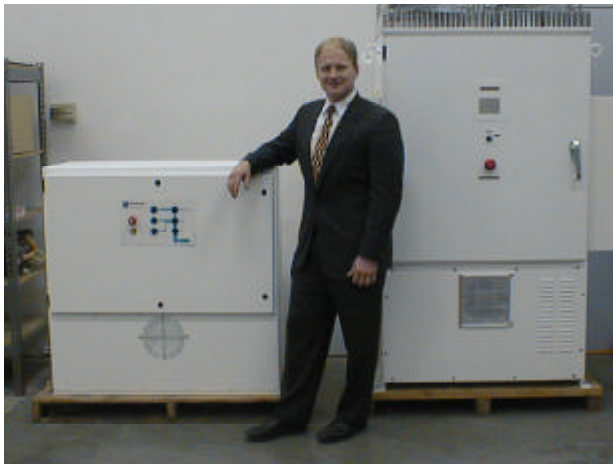
Imre Gyuk's review of energy storage. Imre is the Program Manager at the US Department of Energy with responsibility for energy storage, and he was able to give a fascinating and entertaining review of the opportunities for storage in the deregulating markets around the world. We heard

speakers talking about uninterruptible power supplies, flywheel applications, super-capacitors, superconducting magnetic energy storage and several batteries and advanced battery developments.

One of the highlights was a visit to Carolina Power and Light's solutions center, which included a visit to their trailer, mounted SMES. Everyone enjoyed "kicking the tires" and seeing first hand this interesting and very relevant technology. It was especially useful to get the utilities' views as well as the vendors'. Our thanks to all those who contributed to such a good meeting.



(Above) The American Superconductor, trailer mounted SMES



(Left) Rick Winter of Powercell, and the Powerblock advanced battery. Rick invited ESA members to visit Powercell during the annual meeting in April 2000 (see Page 3)

European activities

We held a short meeting in Gelsenkirchen, Germany as an overture to the Sixth International Conference on Battery for Utilities Storage. Our meeting covered a brief review of the spring meeting, but also introduced a number of European speakers: Alan Palin from Urenco introduced a zero maintenance flywheel system, Hilmar

Darrelmann spoke about the Piller “batteryless” UPS and Dr Salbert from Accel reviewed their work on SMES components. Mike Behnke of Trace gave a review of current and expected developments in power conversion technologies, which highlighted the importance of this part of energy storage systems in the development of commercial products.

In addition, several papers were presented at the main battery conference of interest to ESA members. Our Chairman, Dr Phil Symons was able to speak about the work of the ESA and the importance of its members and their network in developing the market for energy storage services.



(Above) Dr Phil Symons, the ESA Chairman



(Top Right) The ESA posters on display at Gelsenkirchen.



(Right) Erik Hennig, one of our European members enjoying the ESA boat trip in Germany.



(Above) The 1 MW battery energy storage facility at Herne, which we visited during the battery conference

Other activities

Our last meeting in 99 was a poster session and member reception during the Power System's World Conference (November) in Chicago.

We have developed our web site further: as everyone knows, web sites cannot stand still! We shall continue to develop our website to make sure that it is useful to all our members. Our grateful thanks to Ben Norris of Gridwise for his valuable assistance.

We are always in need of photographs of energy storage, technologies and activities. Please could members with photographs suitable for publishing purposes let Anthony Price know. e-mail: anthony.price@natpower.com

Finally: ESA assisted in communicating to the US Congress the importance and value of the Department of Energy's energy storage program. Maintaining the high profile of the energy storage community is a must, if energy storage is to be an integral part of every power network.

Meetings 2000

Looking forward to April: our plans are shaping up for the Annual Meeting, April 6th-7th in the San Francisco Bay area. Later in the year we are jointly sponsoring EESAT2000, September 18th-20th in Orlando, Florida. There is a joint session with the IEEE/ Power Engineering Society meeting, July 16th-20th in Seattle, and joint activities during the Power Systems World October 3rd -5th in Boston.

"Cleaner, Greener Power through Energy Storage"

We have issued the call for papers for the annual meeting of 2000, focusing on the role of energy storage in green and clean power. The increased emphasis on all aspects of the environment makes this a topical subject, and gives us an opportunity to consider some of the wider applications of storage in the industry. Submissions on all aspects of energy storage are invited for three sessions...

- A) Environmental aspects of Energy Storage, Energy suppliers and government perspectives.
- B) Energy storage for renewables and environmentally preferred sources of generation.
- C) Energy storage technology update.

Please send abstracts giving presenter's name, affiliation, presentation title and topic to be covered by e-mail to Mike Behnke, mbehnke@traceinternational.net by 22nd February 2000

California and the San Francisco Bay Area are home to some of the world's leading developers of technology for renewable and environmentally preferred energy applications. The meeting will include tours to Trace Technologies (Power Electronics) Powercell (Zincbromine advanced batteries) and Trinity Power (Flywheels). Book the date now **(6 – 7 April, Pleasanton CA)** and we look forward to seeing you there!

Look for further details in the coming months on the ESA web site: www.energystorage.com