

ECV Final Seminar & Nordic Electric Bus Initiatives 2 Helsinki, 11 – 12 May, 2016

Venue: Finpro auditorium, Porkkalankatu 1, 00180 Helsinki

Provisional programme – subject to changes and additions

DAY 1 – 11.5.2016

Possibility for 1.25 h Visits to Tapiola fast charging and VTT at: 11:00 and 16:30.

Enrolment: conference info desk.

TECHNICAL SESSIONS (auditorium)

- 8:30 – 12:30 Registration open
- 8:30 – 9:00 Coffee
- 9:00 – 9:10 ECV Final Seminar, welcome and opening address – Mikko Pihlatie & Jouko Suokas, VTT
- 9:10 – 9:30 Electric vehicle systems and related businesses – Martti Korkiakoski, Tekes EVE
- 9:30 – 10:30 Session 1: Electric and hybrid working machines (Chair J. Pippuri, VTT)
- Full-scale series hybrid mining loader with zonal hydraulics, P. Sainio, Aalto
 - Virtual platform for mobile machinery hybridisation, J. Nokka, LUT
 - Kalmar fast charge, electrification in ports, H. Häggblom, Cargotec
- 10:30 – 11:00 Coffee break
- 11:00 – 12:00 Session 2: Electric drive and powertrain solutions (Chair J. Pyrhönen, LUT)
- Electric city bus energy flow model, P. Rahkola, VTT
 - Evaluation of hybrid and electric powertrains in mobile machinery, K. Tammi/A. Lajunen, Aalto
 - Visedo powertrain solutions, K. Rauma, Visedo
- 12:00 – 13:00 Lunch break
- 13:00 NEBI2 opening and welcome note, Mikko Pihlatie, VTT & Svend Söyland, NER
- 13:15 – 14:30 Session 3a: Energy storage technologies and applications (Chair K. Tammi, Aalto)
- Overview of Li ion battery chemistries and relevant research topics, V. Erkkilä, VTT
 - Modelling batteries for mobile applications, A. Hentunen, Aalto
 - Lithium-ion batteries for mobile applications, A. Väyrynen, Leclanché
- Tentative TBC: Parallel session 3b: Electric bus charging technology providers
- 14:30 – 15:00 Coffee break
- 15:00 – 16:30 Session 4: Power grid and charging (Chair K. Kauhaniemi, UVA)
- Electric vehicles in electricity grids, A. Rautiainen, TUT
 - Electric vehicle controlled charging, V. Tikka, LUT
 - Fundamentals of electric bus charging, J. Mäkinen, ABB
 - Towards standardisation of electric bus charging, T. Raitaluoto, VTT

PITCHING SESSIONS (meeting room Metsä)

Enrolment: see conference info

More info later

19:00 -> Conference dinner (pre-registration)
Electric bus transfer from hotel Holiday Inn and Hotel Presidentti at 18:30

DAY 2 – 12.5.2016

Possibility for 1.25 h Visits to Tapiola fast charging station and VTT at: 09:30 and 13:30.

Enrolment: conference info desk.

TECHNICAL SESSIONS (auditorium)

- 09:00 – 10:30 Session 5: System design and services (Chair: S. Söyland, NER)
- Feasibility of electric buses in public transport, O. Vilppo, TUT
 - Building effective electric bus systems, A. Grauers, Chalmers Univ. Of Technology
 - Smart grid integration of eBus charging infrastructure, J. Karppinen, Helen
 - Vattenfall as a charging point operator, S. Hurtig, Vattenfall
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 Session 6: Electric bus technologies (Chair: P. Sainio, Aalto)
- Future moves with Linkker technology, S. Ruotsalainen, Linkker
 - Presentation by Volvo, M. Broback, Volvo
 - Electric buses by VDL, S. Ojamo
 - Electric buses by Solaris, Rafal Sekowski, Solaris
 - Presentation by Hybricon, Robert Åkerlind, Hybricon
- 12:30 – 13:30 Lunch break
- 13:30 – 14:30 Session 7: Electric vehicle systems operation, on-going demonstrations (Chair: J. Laurikko, VTT)
- ZeEUS – UITP electric bus flagship, initial results, P. Bruge, UITP
 - Electric bus R&D platform, results from commercial electric buses, T. Halmeaho, VTT
 - City of Copenhagen experience with electric buses, M. Krogsgaard, City of Copenhagen
 - ElectricCity experiences and results, J. Elsren, Västtrafik
- 14:30 – 15:00 Coffee break
- 15:00 – 16:30 Session 8: Roll-out strategies and procurement (Chair: M. Pihlatie, VTT)
- Nordic best practices for electric bus procurement, M. Krogsgaard, city of Copenhagen
 - Consequences from operating fully electric buses in a city, how to scale up?, Fredrik Forsell, city of Umeå
 - Helsinki region transport, from pre-commercial pilot to roll-out, R. Mäkinen, HSL
 - Procurement of the charging infrastructure for Helsinki ebus piloting and beyond, A. Lähdetie/H. Stam, City of Helsinki, Helsinki City Transport
 - Panel: how to proceed to commercial roll-out? (HSL, Copenhagen, Helsinki, Umeå, UITP)
- 16:30 – 16:45 Concluding remarks, closing of the conference – VTT, NER