Centre for Energy and Environmental Markets

The Australian PV Association

The Role of PV in Smart Grids

Integration of Renewable Energy Systems and Distributed Energy in Electricity Grids
Opportunities and Issues for Photovoltaics

Date: Tuesday 25 November 2008
Venue: *EnergyAustralia* Energy Efficiency Centre,
Unit 12, Homebush Business Village, 11-21 Underwood Road
Homebush, Sydney Australia

Program

9:00am: Tour of the EnergyAustralia Energy Efficiency Centre

10.00 Workshop Opening
ENARD and the PVPS (Hubert Fechner, Arsenal Research, PVPS ExCo Austria)
Trends in photovoltaic applications (Muriel Watt, IT Power, PVPS ExCo Australia)

10.30 – 11.30: Session 1: Smart Grids - State of the Art

- US Department of Energy Grid Integration Perspectives (Ben Kroposki, National Renewable Energy Laboratory, USA)
- Early experiences with deployment of smart grid and telecommunications technologies (Terry Daly, Energy Australia)
- Multifunctional PV Inverters (Christoph Mayr, Arsenal Research, Austria)
- Discussion

11.30 – 12.30: Session 2: Economics and Regulation

- Use of economic incentives for reactive power delivery (Hugh Outhred, Uni of NSW, Australia)
- Policy and regulatory requirements (Iain MacGill, Uni of NSW, Australia)
- Volatile Energy Sources in the Grid (John Boland, Uni of South Australia)
- Discussion

12:30 – 1:30 LUNCH

1.30 – 2.30: Session 3: Best Practice Applications

- High Level PV Penetration in Electricity Networks & Smoothing Effects (Kazuhiko Ogimoto, Tokyo University, Japan)
- Experiences with high levels of PV in diesel grids (David Edwards, Horizon Power, Australia)
- Matching the PV Resource to Demand (Geoff James, CSIRO, Australia)
- Discussion

2:30 – 3:30: Session 4: Large PV Penetration Levels

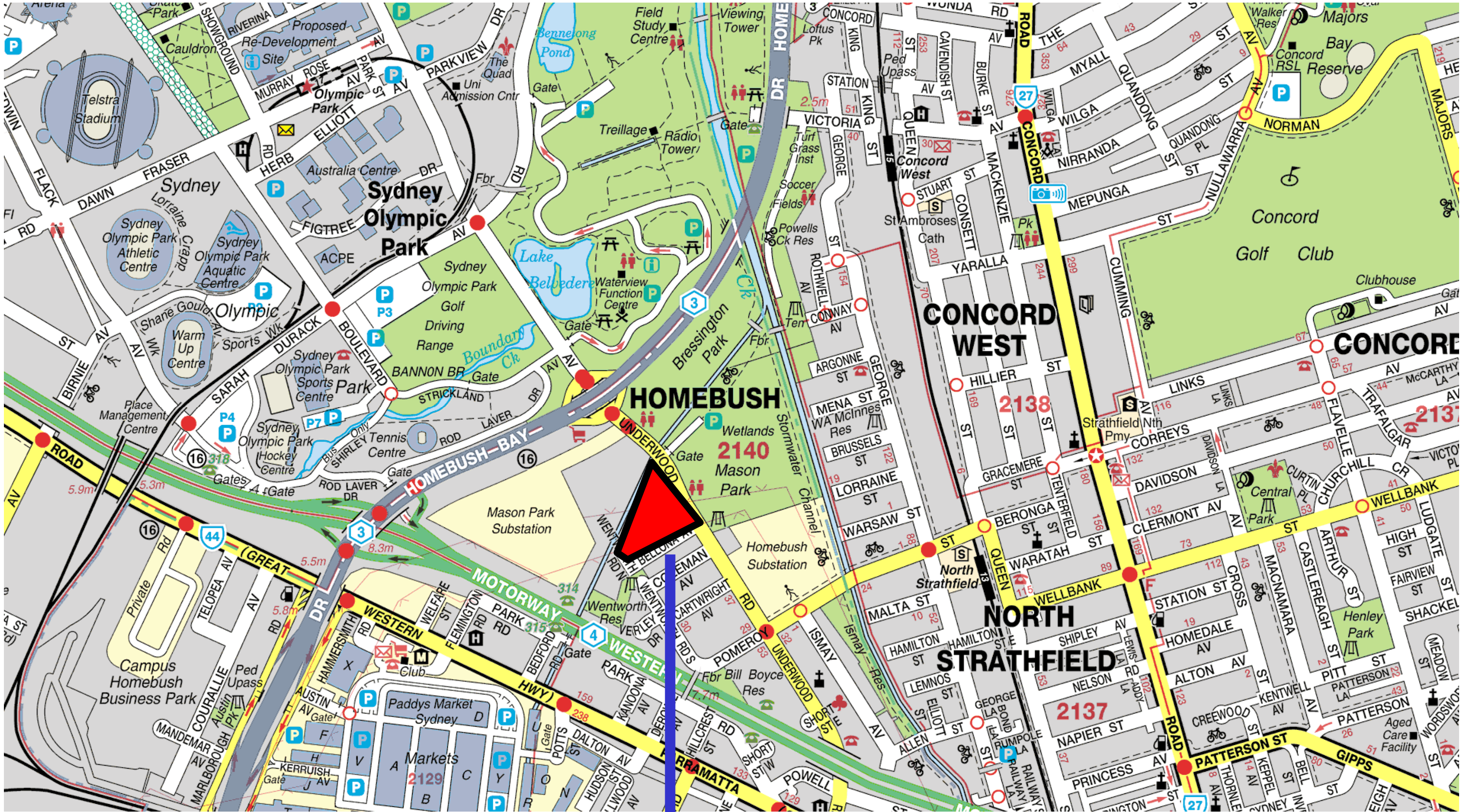
- Demonstrative Research of Clustered PV Systems (Shogo Nishikawa, Nihon University, Japan)
- Managing electricity industries with high levels of PV at local, regional or system-wide levels (Hugh Outhred, Uni of NSW, Australia)
- Discussion
- What can PVPS contribute?

3.30 – 4.30: PVPS internal WRAP up for PVPS Experts only
Draft proposal for the ExCo on how to proceed with this topic within IEA PVPS.

COST: Free to all IEA-PVPS and APVA members, Aus$110 (incl. GST) to all others (an invoice will be sent to you after you register).

REGISTRATION: is via www.iea-pvps.org (go to Workshops → Future → Registration under the link for the Program for the PV in Smart Grids workshop).

EnergyAustralia®
We're on it



EnergyAustralia's
Energy Efficiency Centre
Unit 12, Homebush Business Village
11-21 Underwood Road, Homebush

DIRECTIONS:
Walk from North Strathfield Station (Northern Line)
Taxi from Strathfield Station