

INGENIUM TECHNICAL TOURS

Numbers are limited on each tour. Please register early.

FRIDAY 17 JUNE - Departures from 12.35pm

TOUR 1: GOLF – Smart Drives

Sponsored by:



Expect to use almost every golf club in your bag when you play a round at Miramar Links. But whatever your handicap is, this is a club that combines sport and relaxation in a modern centralised setting. Conveniently located near Wellington International Airport, Miramar Golf Club hosts both a challenging golf course that tames big hitters with its undulating fairways and strategically located bunkers and trees.

Traditionally a great afternoon out with hosts Downer.

TOUR 2: Smart Treatment

The Seaview Wastewater Treatment Plant serves the 140,000 population of the Hutt City Council, Upper Hutt City Council and associated industry. A milliscreen facility has been treating wastewater at the site since 1984 and a modern \$60M secondary treatment plant was built in 2001 under a 20 year Design Build Operate contract. The site treats an average 54 ML/d with peak wet weather capacity of 3,000 l/s. You will hear about the liquid treatment stream and the sludge treatment stream development plans during this tour.

The Silverstream Landfill is a joint venture between Hutt City and Upper Hutt City Councils and is managed by Hutt City Council. Landfilling activities began on the site in 1973 using what were then considered to be current best practices. During the second part of this tour, you will hear about the different stages of the Landfill developing plans.

TOUR 3: Smart Energy

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Prime Minister John Key switched on the first turbines at this exciting renewable energy project on 29 April 2009. First power at West Wind provides enough clean energy to power the equivalent of approximately 17,000 homes, as 15 turbines connect to the national grid.

This tour will include a drive to Makara to take a view of West Wind from the road to see turbines on the ridges. The tour will take you through the site to a suitable turbine and sub-station where the Guide will give a short talk on each. There will be an opportunity to get off the coach and to walk around the turbines before being driven to Karori Golf Course for afternoon tea.

- Warm clothing and sturdy footwear will be required.
- Please note: an alternative option to this tour will be provided if inclement weather descends on the day.

Tour 4: Smart Living

Porirua City won gold awards in the three categories entered in the 2010 International Awards for Liveable Communities (LivCom Awards) - Whole of City, Environmentally Sustainable Projects, and Bursary Award. Endorsed by the United Nations Environment Programme, the LivCom Awards are the world's only awards recognizing excellence in the sustainable development of cities.

This tour will visit aspects of Porirua City that featured in the application for the award, including, protection of the harbour, "village" developments, CBD revitalisation, Recycling and landfill developments.

Tour 5: Shake Smart

Sponsored by:



A guided tour of the National Crisis Management Centre which will include presentations from the Ministry of Civil Defence and Emergency Management on our national emergency management arrangements. *Then on to Thordon Critical Area, including NZTA retrofitting of overbridge.*

There will be a break for afternoon tea at Capacity's new offices in Petone, including brief presentations from Capacity and Greater Wellington Regional Council.

The tour group will then move on to Petone foreshore as a critical area (especially for bulk water), which will include a discussion on high liquefaction potential. *The tour will then move to Hutt Estuary Bridge as a critical lifelines feature.* The final stop will be at GeoNet Facility, Avalon. GNS Science will give a briefing on geological monitoring and risk management arrangements.