

**!! Welcome !!**

***Local Energy Generation  
Workshop***



***Neville Nicholson***  
***Your workshop chairperson***



# Workshop format

1. Introduction of the topic
2. Scene setting – demand growth forecasts
3. BEAB actions 06
4. Local energy generation in action – John Gifford, SCION
5. Focus groups:
  - From your perspective, what do you see as the major barriers / issues & opportunities for local energy generation in the Rotorua district?
    - Bio-mass
    - Geothermal
    - Water (smaller scale hydro)
6. Brief report back (if time allows)



# Nine-point framework

## Locally generated energy

### Drivers of change: National

**Infrastructure investment lags**  
= insufficient power generation  
= fragile distribution network

### Global

**Extreme weather**  
= risk to lake levels  
= risk to distribution network  
**Energy supply price (oil)**  
= rising energy costs

### **Rotorua's comparative advantages**

= Geothermal fields  
= Bio-energy (forestry/crops)  
= Local hydro (Kaituna)

### Opportunity:

### **Locally generated energy**

= Use generation - efficiency  
= Self-sufficiency in 100% renewable energy  
= Turn threat to opportunity



# Demand growth

- **Peak demand now 6000MW (NZ)**
- **2025 forecast over 8000MW (NZ)**
- **BoP demand exceeds regional generation capacity**
- **Rotorua demand forecast to grow 22% by 2016**

# BEAB actions

***Current position analysis & opportunities report***  
by March 07

***Report purpose:***

- To identify Rotorua District's comparative advantages/disadvantages in the energy market
- To identify opportunities for additional utilisation of local energy resources
  - Local use – (already have good information)
  - Generation opportunities – geothermal, biomass, hydro
  - Efficiency – research the best opportunities for Rotorua

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# Local energy generation in action

*John Gifford - SCION*



# Focus groups

- Groups of 10-15
- 4 facilitators:
  - Neville Nicholson
  - Peter Guerin
  - Michelle Rendall
  - Mark Rawson
- Answer this question:
  - From your perspective, what do you see as the major barriers / issues & opportunities for local energy generation in the Rotorua district?
    - Bio-mass
    - Geothermal
    - Water (smaller scale hydro)
    - Four key groups – users, regulators, energy industry & resource owners
- Brief report back if time allows

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# Thanks for your participation

*Please make your way back to the main  
forum*