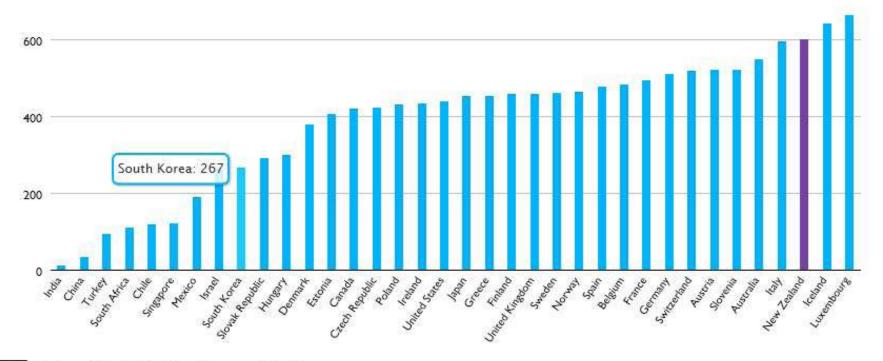


# **Transport energy efficiency in New Zealand**

APEC Expert Group on Energy Efficiency an Conservation Beijing October 2014

#### Passenger cars per 1,000 people by country, 2009



TAGS Cars Global Industries Transport Vehicles

Contributor: Lillian Grace 000133 Source: The World Bank Group i+



# A range of solutions

### **Energy issues**

Oil price volatility Security of supply GHG emissions

### **Transport issues**

Congestion Safety Air quality

#### **Solutions**

ICE vehicle efficiency
Driver behaviour
Walking & cycling
Public transport
Sustainable biofuels
Electric vehicles

provide both renewable and efficiency solutions

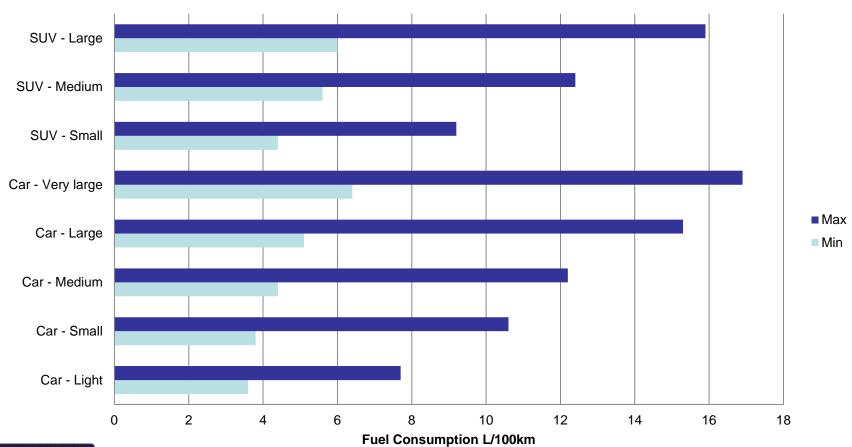


# Our programmes targeting efficiency improvement



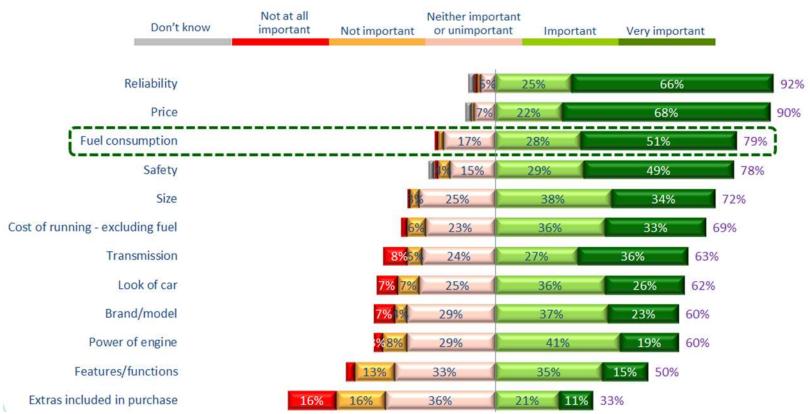
# **Vehicle Fuel Economy Ranges**

### Minimum and Maximum Fuel Consumption by Vehicle Size





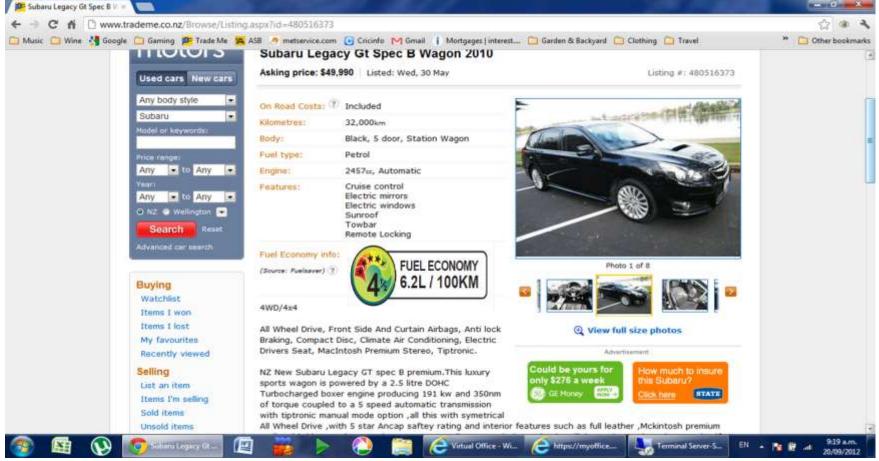
# Fuel consumption is an important influence in the vehicle purchase decision making process





# **Vehicle Fuel Economy Labelling**







# **Vehicle Fuel Economy Labelling**

CREATIVE TECHNIQUES





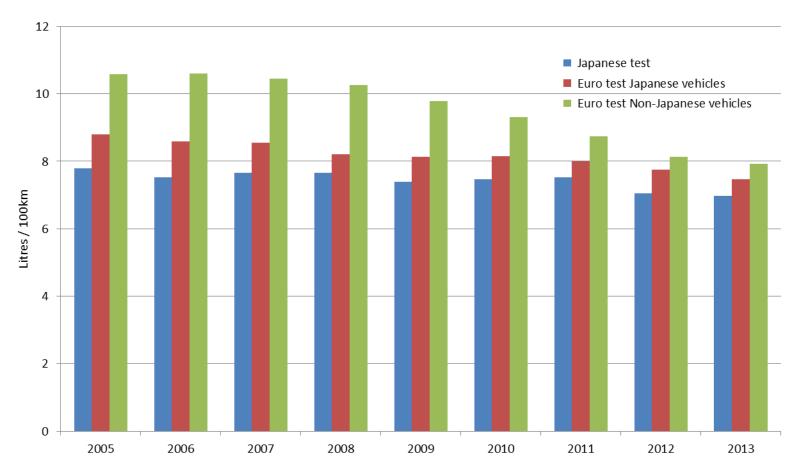








# Average petrol consumption of vehicles at first registration in New Zealand improving





# Heavy vehicle programme



### Over the last 2½ years EECA has:

- Worked with over 50 truck and bus fleets
- With a combined annual fuel consumption of 140m litres of diesel
- That's 14% of heavy transport diesel use in the EECA programme
- They are now on course to save 7% of the fuel per year

### EECA's programme involves:

- Securing top management commitment from the fleet company
- Fleets set objectives and develop plans
- Investing in monitoring and measurement robust accurate data
- SAFEDNZ driver training

### Case study: BP improves fuel efficiency by 10%

 Through EECA's programme, BP's senior management leadership combined with driver training and team work saved BP over \$120,000 per year on its own fuel



### Fuel efficient tyre programme

- Promotional campaign backed by a voluntary endorsement mark to help motorists identify tyres which are both fuel efficient and safe
- Aims to move the fuel efficient tyre market from 6% to 12% by 2015/16, saving fuel and reducing CO<sub>2</sub>
- Consumers buying fuel efficient tyres will save around \$230 over the life of the tyres – its like saving 10c per litre every time you drive
- EECA is investing \$2m over two years
- Programme launches October 2014
- All major tyre importers are on board
- Criteria for the endorsement mark are based on international standards for rolling resistance and wet grip performance and are identical to the Japanese endorsement mark for fuel efficient tyres
- Keeps a focus on tyres through WOF changes





# Fuel efficient tyre programme

EECA and partner promotion 

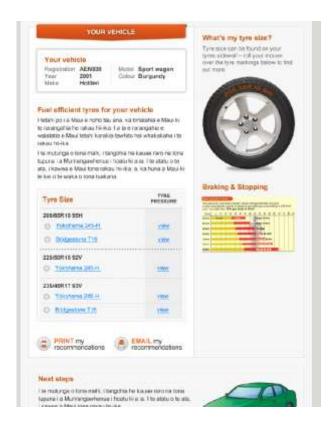
Education and awareness

- → Where you can buy Action and sales





- Tyre industry partner marketing
- Promotional support from MTA, NZTA, VTNZ, AA ...







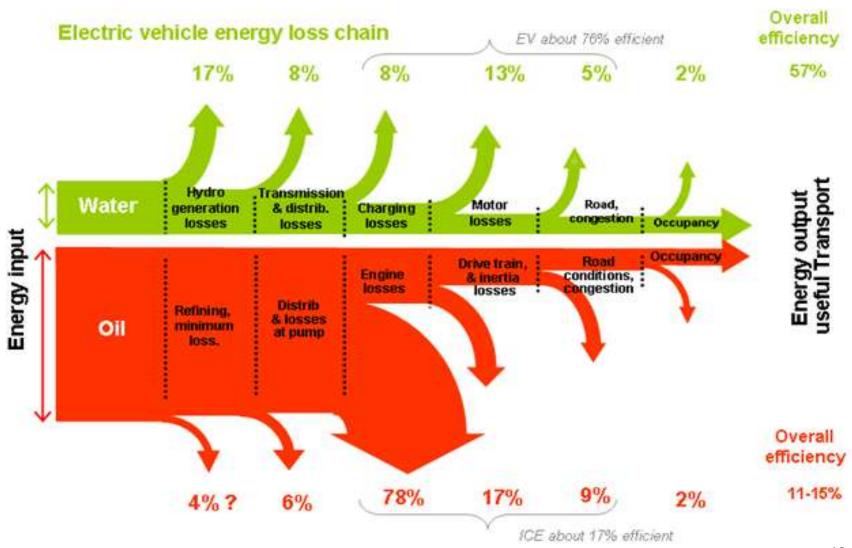


I tetahi po i a Maui e noho tau ana, ka timatahia e Maui ki te rarangahia he rakau hii-ika.

For more information: FREEPHONE 0800 555 1234 www.yokohama.co.nz/locations



# **EV** efficiency



### New Zealand's EV advantage

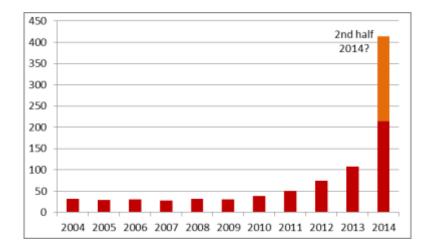
- High proportion of homes with off-street parking 2<sup>nd</sup> highest in world
- Multiple car ownership 2<sup>nd</sup> highest in world
- Low average commute distance 28 km/day
- 230 Volts easy overnight charging
- NZ does not need significant infrastructure investment for EVs





### NZ's electric fleet

- 271 EVs in fleet (June 2014)
- But new models and prices coming down
  - Mitsubishi Outlander PHEV: \$60,000
     → over 70 vehicles sold in April/May



- Nissan Leaf: price now reduced to \$40,000
   → vs Toyota Corolla: \$33,500 \$43,500
- New models: BMW i3 (Nov 2014)
- Used imports from Japan (eg used Nissan Leafs at \$20k-\$30k)





