

Vector 



Vector



Natural Gas

A brief overview presented to the Business Energy Forum Rotorua

November 2008

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- **Current Supplies**
- **Why choose Natural Gas**
- **Natural Gas in Rotorua**
- **How do you get connected**

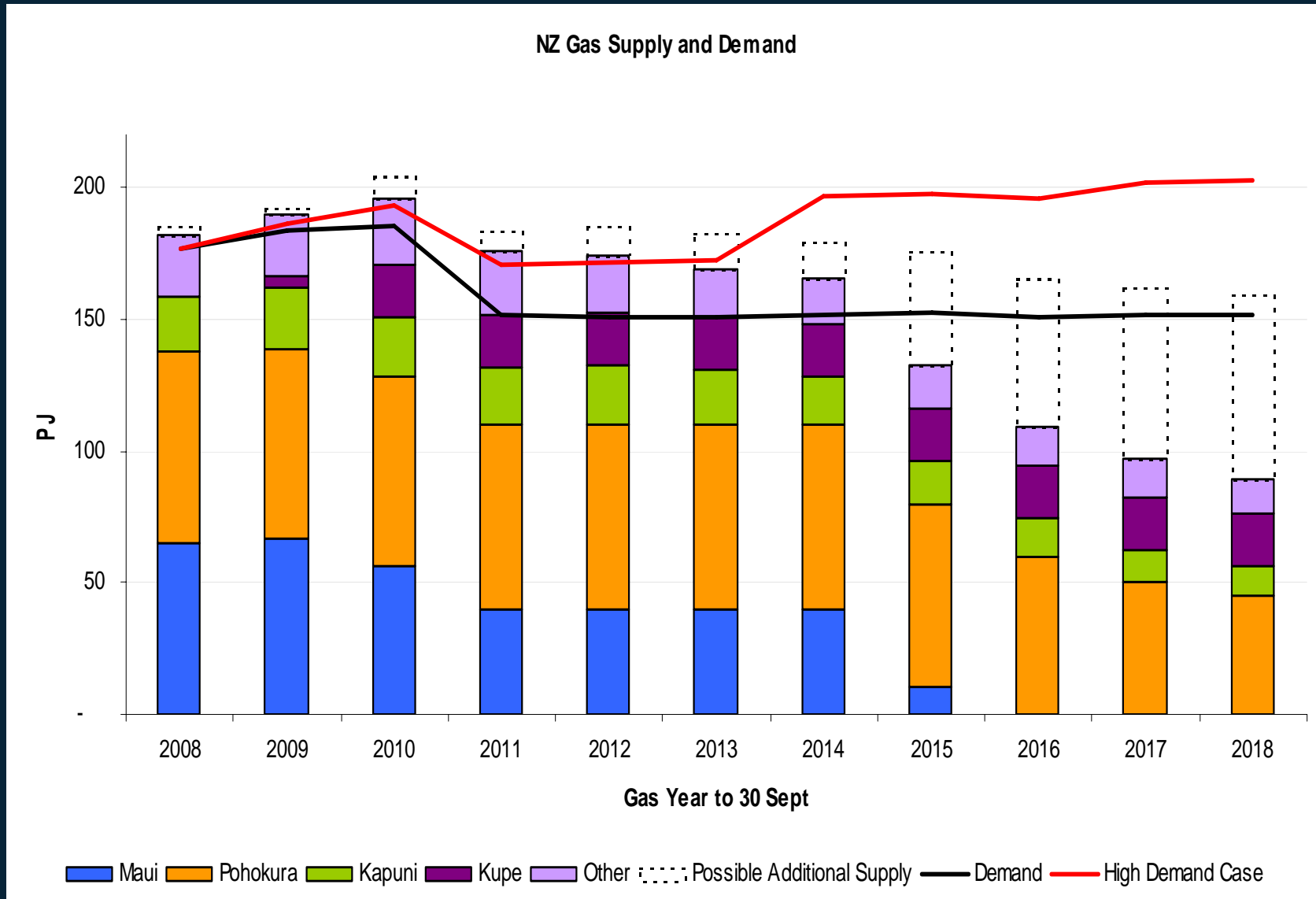


The Maui field is still producing gas and is projected to continue at around 60PJ's / ann for the next two or three years and reduce output to around 40PJ's / ann for the following 4 years

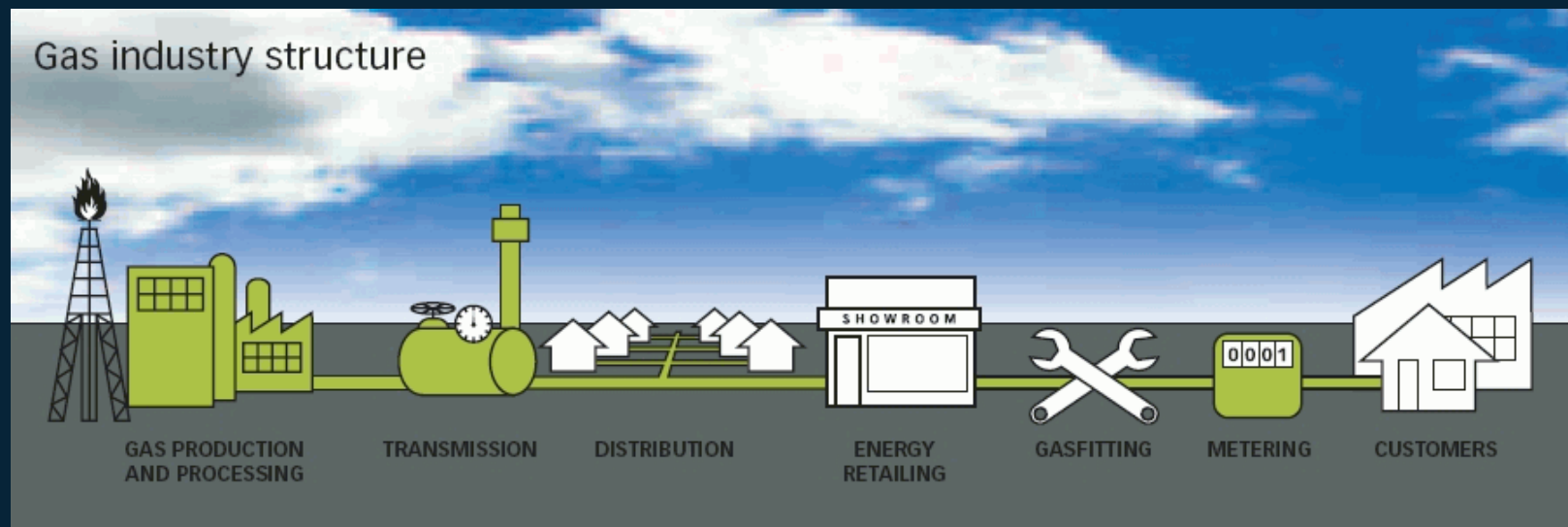
Pohukura and Kapuni fields are projected to deliver around 100PJ's / ann over the next 8 years with Kupe and other fields adding a further 50 – 60 PJ's / ann

The projections are based on current data and capacity of all fields is revisited at regular intervals and projections are remodelled

Current supplies



Gas industry structure

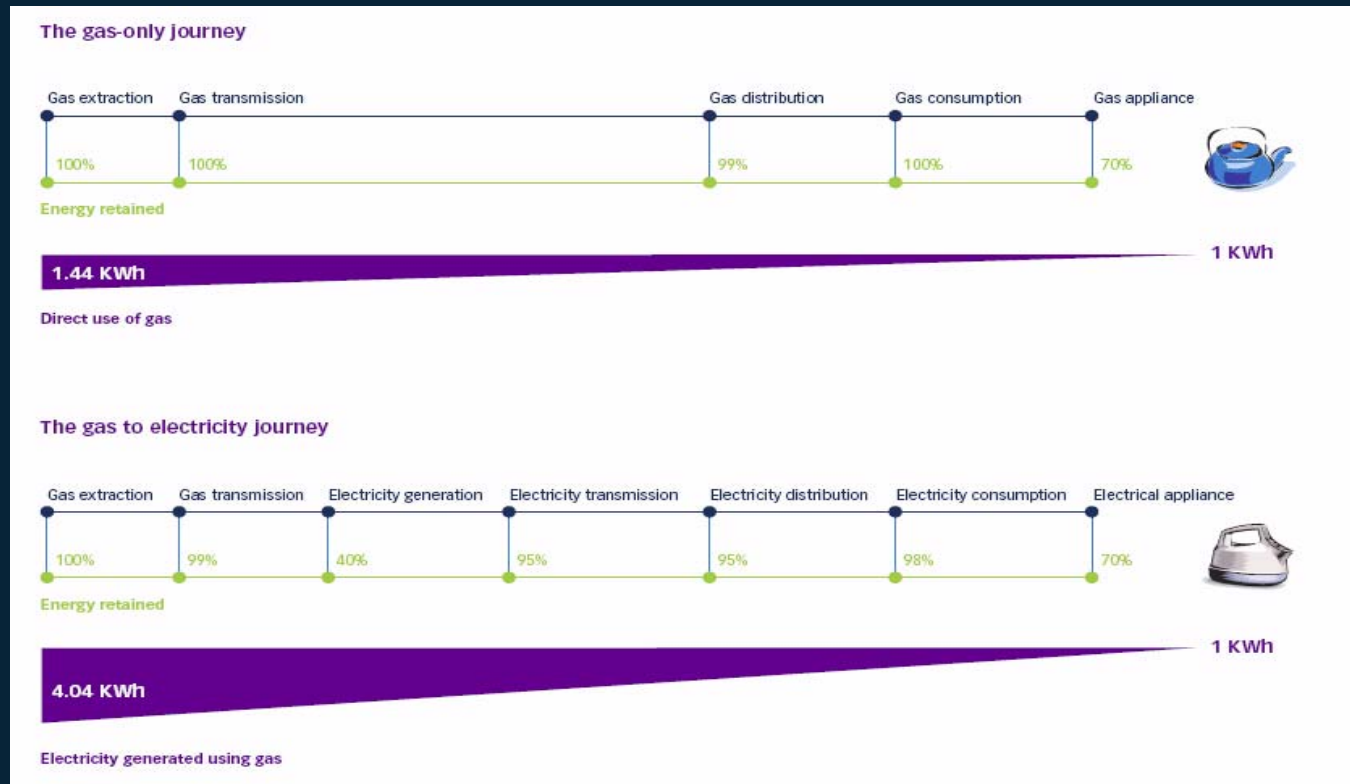


The areas shaded green are the areas in which the Vector group operates



WHY SPECIFY GAS IN A PROJECT?

Economical and efficient



Natural gas is around three times more efficient when used as a direct fuel rather than as a source for electricity generation and it reduces the carbon emissions significantly if the whole process of producing the fuel, delivering it and burning it is considered.

Environmentally friendly

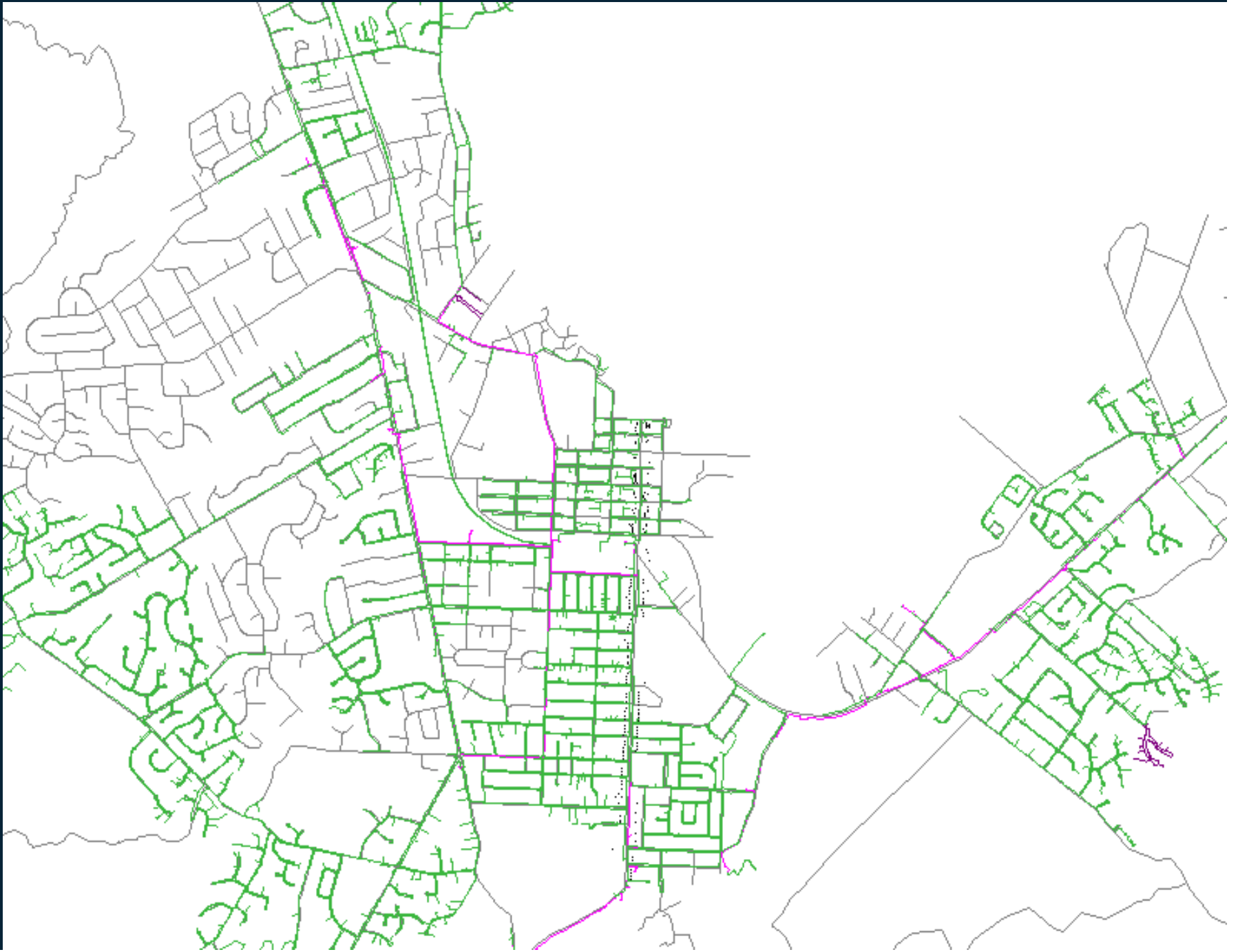
- Creates the least greenhouse gas emissions for fuels not considered "Carbon Neutral"
- Burns almost completely and does not produce any ash, dust or smoke
- Sophisticated burner systems in appliances produce fewer emissions and are very energy efficient
- Extremely controllable and responsive

Safety

- Gas is not poisonous - when burnt it produces water vapour and carbon dioxide
- Gas is completely odourless - an artificial odour is added to allow even a small leak to be easily identified and quickly dealt with
- Natural gas pipes are designed for safety

Natural Gas in Rotorua

Rotorua is fairly well reticulated, particularly in the business and commercial areas of the town, there would not be too many areas for businesses that did not have access to the reticulation system





CONNECTING TO GAS - Commercial



Where does the request for the gas supply originate?

There are several possibilities and all require a slightly different process to arrive at the desired result!

My team facilitate the requests from all of these originators

1. Customer requests the supply
2. Developer requests the supply
3. Consultant requests the supply
4. Retailer generates the request
5. Network Operator generates the request

The parties involved

- The end user (customer)
- A Gas Retailer. The party from whom the customer purchases their gas
- The Gas Measurement System (gas meter) owner who is normally nominated by the gas retailer.
- A gas network operator The party operating the gas reticulation system which delivers gas to the site
- A gasfitter to carry out the internal installation of the appliances.

How much does a connection to the gas main cost?

The cost to the end user for a connection is affected by several variables

- **The distance that the site is from the gas main and the location of the gas meter on the site**
- **The volume of gas that the customer is proposing to take per hour**
- **The volume of gas per year**
- **The actual cost of construction**

A calculation to determine the “contribution” that the customer needs to make towards the actual cost is done by considering the return on investment to Vector against the cost of the work.

In many cases this contribution is simply an administration charge (currently this is \$350.00)

Natural gas – Extra Services

- Distribution Agreements can be made directly with large commercial and Industrial end users.
- Consultancy services in the form of:
 - Utilisation advise
 - Combustion analysis
 - Energy surveys etc.

Thank you for your attention
and for the opportunity to
increase your awareness of
Natural Gas and it's possible
utilisation for your business.

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