fuel\_usage\_card\_transactions.csv

* Kathy hicks: [Kathy.hicks@stats.govt.nz](mailto:Kathy.hicks@stats.govt.nz)
* <http://infoshare.stats.govt.nz/?_ga=2.103068160.1470223979.1637527221-934897926.1618195218>
* Monthly sales using electronic card transactions at fuel stations.

MBIE\_weekly\_fuel\_cost.csv

* Ministry of business, Innovation & employment
* <https://www.mbie.govt.nz/building-and-energy/energy-and-natural-resources/energy-statistics-and-modelling/energy-statistics/weekly-fuel-price-monitoring/>
* Weekly average cost of fuel. Discount cost is estimated

Weather data

* From NIWA national climate Database
* <https://cliflo.niwa.co.nz/>
* HDD downloaded are using 18° base temp and using approximation using average daily temp
* Station info is in weather folder

oil\_data\_quarterly.xlsx oil\_data\_monthly.xlsx

* <https://www.mbie.govt.nz/building-and-energy/energy-and-natural-resources/energy-statistics-and-modelling/energy-statistics/oil-statistics/>
* Quarterly data has split into categories including domestic transport which is what we need.
* Monthly data does not have this.
* Quarterly is up to and including the month
* Unclear if it is actually usage and how it is sourced

fuel\_trade.csv fuel\_trade.xlsx

* Calculated using oil\_data\_quarterly.xlsx
* fuel\_trade.xlsx is calculation sheet to convert to liters from million barrels
* Csv is used to input into r

regional\_fuel\_sales.xlsx regional\_fuel\_sales.csv

* Kathy hicks: [Kathy.hicks@stats.govt.nz](mailto:Kathy.hicks@stats.govt.nz)
* Quarterly regional all sales at petrol stations
* Yearly is slightly higher includes some non-fuel business
* 2017 Q2 and back is a modeled backseries using GST data

VKT data

* Quarterly data is from Haobo wang [h.wang@transport.govt.nz](mailto:h.wang@transport.govt.nz)
* Yearly data is from the online NZTA page <https://www.transport.govt.nz/statistics-and-insights/fleet-statistics/sheet/vehicle-kms-travelled-vkt-2>
* Other regions have a high inaccuracy

EECA times model

* <https://www.eeca.govt.nz/insights/new-zealand-energy-scenarios-times-nz/>
* Kea: represents a scenario where climate change is prioritised as the most pressing issue and New Zealand deliberately pursues cohesive ways to achieve a low-emissions economy.
* Tūī: represents a scenario where climate change is an important issue to be addressed as one of many priorities, with most decisions being left up to individuals and market mechanisms.
* Downloaded data is Billion VKT km/year of car/SUV. Corresponds to NZTA passenger vehicles VKT
* Also downloaded fuel consumption of car/SUV. Unit is PJ.