

# *BANZ Liquid Biofuels Workshop*

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*Andrew Saunders*

## *Delivering on Standards for Liquid Biofuels*

- Fuel market
- Purpose of regulated fuel specifications
- Engine Fuel Specifications Regulations 2008
- Fuel quality monitoring
- Supply opportunities

## *Fuel market*

- Diesel fuel market is almost 3 billion litres pa
  - Approx 40% used off-road
  - Supplied thru service stations and directly
  - Significant proportion of commercial sales
  - Retail fuel required to be fit for a variety of purposes
- Petrol fuel market a little over 3 billion litres pa and mainly supplied thru service stations
- Fuel Monitoring Programme - run by Measurement and Product Safety Service (MAPSS).

## *Purpose of regulated fuel specifications*

- Fuel specs address a range of considerations including:
  - Consumer protection
  - Environmental
  - Health and safety
- Specifications are provided for:
  - Petrol and petrol/ethanol blends
  - Diesel, biodiesel and diesel/biodiesel blends

## *Engine Fuel Specifications Regulations 2008*

- Replaced *Petroleum Products Specifications Regulations 2002 (PPSR)*
- Process of development
- Came into force 1 July 2008, available from [www.legislation.govt.nz](http://www.legislation.govt.nz)
- New features in Engine Fuel Specifications Regulations 2008 (“EFSR”):
  - specifications for biodiesel and ethanol
  - different biofuel blend specifications for retail and non-retail supply, e.g. for diesel/biodiesel blends:
    - 5% biodiesel blend limit for retail diesel
    - No blend limit for non-retail sale

## *Biodiesel Specification*

- Schedule 3 of EFSR
- Based on NZS 7500:2005 and the European biodiesel standard (EN 14214)
- Key features
  - Oxidation stability limit of 10 hrs
  - Viscosity of 2.0 – 5.0 allowed
- No seasonal specifications for biodiesel

## *Ethanol Specification*

- Schedule 4 of EFSR
- Applies only to ethanol used for blending with petrol
- Based on ASTM D 4806 specification
- Key features
  - Ethanol content
  - Denaturant requirements
  - Corrosion inhibitor

# *Questions*