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Flow Measurement Standards and Regulation for BioFules

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Many kinds of flowmeters are used for selling, buying and production of bio-fuel

■Production plant of bio-fuel (Flowmeters)

Flow Measurement

■ Loading bio-fuel to a tank lorry

■ Bio-fuel trading

■ E3 blending facility at sites

■ Fuel dispenser for E3

NMIJ Bio-fuel Flow Project (2008 -2010)

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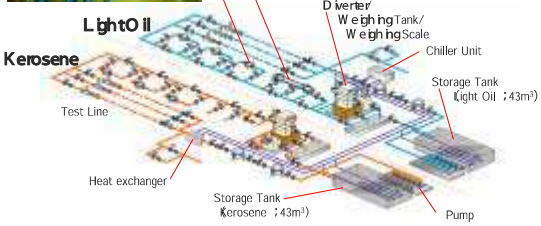
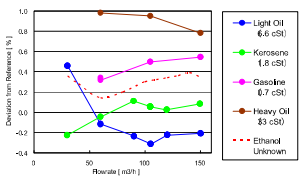


■ Primary standard for hydrocarbon flow at NMIJ

■ Bio-fuel flow test facility

■ Bio-fuel flow meter



■ Calibration results of a bio-fuel flowmeter by different liquids

■ Mass flow meter

■ Density meter

① Bio-fuel flowmeters are tested by hydrocarbon standard facility at NMIJ (K-Factor vs Reynolds No.)

② Bio-fuel flowmeters are tested by bio-fuel flow facility at the production site. Reference flowrate is consisted of mass-flow and density meters