

Project Reference List

Gert-Jan Rap

Revision : 26

Date : January 2022

Owner

Gert-Jan Rap

Over 35 years experience in development, homologation, training and commercialisation of components and systems for gaseous fuel propulsion

- LPG Liquefied Petroleum Gas
- CNG Compressed Natural Gas
- LNG Liquefied Natural Gas
- Bio-Methane Upgraded Biogas
- H₂ Hydrogen

on :

- engines
- on-road vehicles Light Duty and Heavy Duty
- off-road vehicles & non-road applications
- vehicle repair workshops

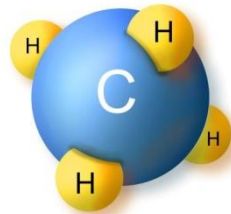
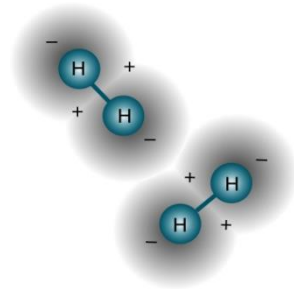


Activities

RAP Clean Vehicle Technology is active in the following fields

- Training
- Consultancy
- Supply of Infrastructure
- Supply of test equipment

All however specifically related to the gaseous fuels LPG, CNG, LNG, Biogas and Hydrogen.



Training

RAP Clean Vehicle Technology can organise the following training :

- Technical training / Safety training / Drivers training

Reference Projects :

- Mercedes-Benz Global Training (train-the trainer CNG & LNG)
- MAN / Neoplan Traininginstitute, Germany (train-the-trainer CNG, LNG & H₂ for buses)
- Iveco BeNeLux / Iveco Schouten (technical dealer staff CNG & LNG for truck & bus)
- Malte Manson, Sweden (technical staff CNG, LNG & H₂)
- AFV (Volvo), Sweden (train-the-trainer CNG & Bio-Methane)
- Renault & Dacia, Germany (technical dealer staff LPG)
- AGCO Sisu Diesel / AGCO Valtra, Finland (technical CNG, Biogas, H₂)
- RDW-Dutch Road Authorities (technical / legislation CNG, LNG, H₂)
- Fire departments / Rescue Services (safety & calamity handling CNG, LNG, H₂)
- Installer training, Iceland (CNG, Bio-Methane)
- Almaty Electro Trans, Kazakhstan (technical training CNG buses Public Transport)
- College of New Technology – Almaty, Kazakhstan (via UNDP) (train-the-trainer CNG technology)
- Tata Engineering – UK (technical & safety training CNG technology)
- Scania Dealer & Scania Production (technical training CNG, LNG truck & bus, in coop. with Innovam)
- KIWA Training (CNG cylinder inspection / Hydrogen vehicle technology)
- CNHi / Iveco Germany, Netherlands and EMEA (CNG & LNG technical / commercial / safety training)
- Connexion (H₂ for public transport, component and system technology, safety, maintenance workshop)
- Several OEM's, engineering and service companies (Hydrogen vehicles – Basic & Technology)
- European OEM of agricultural machinery (Qualification for Germany acc.to FBHM-099 gaseous fuels)



Consultancy

RAP Clean Vehicle Technology can consult for following:

- Engine & Vehicle development
- Vehicle homologation
- Production and Service workshop

Reference Projects :

- RAVO (development mono-fuel CNG street swiper)
- TÜV / MAN Neoplan (homologation Hydrogen city bus)
- AGCO Valtra Finland (development Dual-Fuel CNG agricultural tractor)
- AGCO Sisu GenPowex Finland (development Dual-Fuel Biogas generator set)
- Lantmännen / Transport Styrelsen (Swedish national approval Valtra CNG tractor)
- AFV (Volvo) Sweden (Component selection V70 Bi-fuel)
- IVECO Schouten (national approval LNG truck)
- Gasföreningen Sweden (set up certification system CNG)
- Vehicle Repair Workshop CNG, LNG & H₂ (audit and advice)
- ROM – advice on CNG systems for Public Buses – Almaty Kazakhstan
- KIWA automotive / EBRD – Pre-Delivery-Inspection CNG buses for Almaty and Kyzylorda, Kazakhstan
- OEM; vehicle manufacturer – Approval of 250 bar CNG system for the UK
- OEM; off-road machinery manufacturer – component & system selection for CNG off-road equipment
- LNG tank manufacturer – Market study & Training
- OEM; advice on system design, component choice and regulation on Hydrogen FC off-road equipment
- OEM; advice on regulations for hydrogen ICE vehicles on- and off-highway



Infrastructure

RAP Clean Vehicle Technology can supply or advise on infrastructure :

- Refuelling CNG, LNG, Bio-methane and Hydrogen
- Transport CNG, LNG, Bio-methane and Hydrogen
- Customized test equipment

Reference Projects :

- Consultancy concerning virtual pipeline CNG, LNG, Hydrogen
- Consultancy concerning MRU (Mobile Refuelling Unit) CNG, Hydrogen
- Building demonstration CNG vehicle for training Fire Departments
- Test equipment for engines on oil platforms
- ROM Israel – advice on CNG refuelling station & bus service workshop Almaty-Kazakhstan
- Israel - advice on CNG refuelling station for bus refuelling

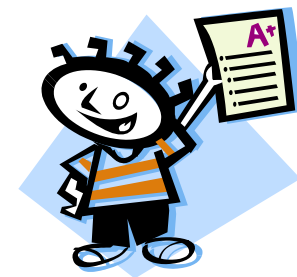


Other projects

RAP Clean Vehicle Technology can support in any other program related to gaseous vehicle fuels

Reference Projects :

- Feasibility Study Sweden (Dual-Fuel CNG & Biogas for Off-Road equipment)
in cooperation with Biogas Syd, E.ON gas Sverige, Lantmännen, SGC a.o.
- Market study CNG in Latin America
- Set up state accepted training / diploma “CNG-Technicus”
in cooperation with innovam, IBKI, RAI, Bovag a.o.
- Safety on vehicle workshops for Hydrogen vehicles, Norway
- CNG workshop, Turkey (in cooperation with ENGVA)
- Participation Borgeby Fältdagar, Sweden (Biogas tractor)
- Support RDW (Dutch Road Authorities) to set up certification system for CNG conversion workshops.
- Clean City program Almaty-Kazakhstan, 200 CNG buses for public transport
- Feasibility Study biogas agricultural tractor production in Achterhoek – NL
in cooperation with Pasmaan, WUR and ACT
- Accident investigation on LPG, CNG and LNG vehicles (several)
- Investigate regulatory work for use of LPG on weed-killer machines (NL)
- Investigate regulatory work for use of CNG on industrial cleaning equipment (EU)





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