

# ***Company Information***

**Gert-Jan Rap**

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# 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         |
| • H <sub>2</sub> | Hydrogen                |

on :

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

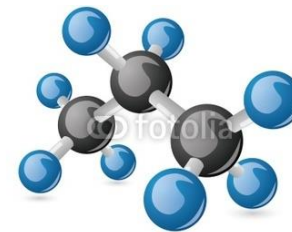
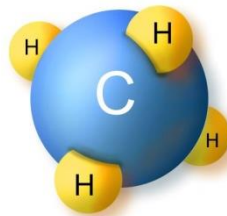
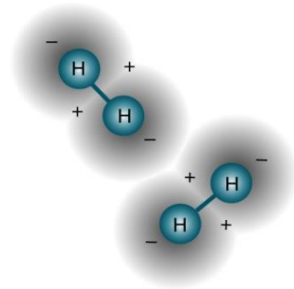


# Activities

**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 & H<sub>2</sub> for buses)
- Iveco BeNeLux / Iveco Schouten (technical dealer staff CNG & LNG for truck & bus)
- 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, H<sub>2</sub>)
- RDW-Dutch Road Authorities (technical / legislation CNG, LNG, H<sub>2</sub>)
- Fire departments / Rescue Services (safety & calamity handling CNG, LNG, H<sub>2</sub>)
- 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 and Arriva (H<sub>2</sub> for public transport, system technology, safety, maintenance workshop)
- UTAC – UK (H<sub>2</sub> component- & system technology as well staff qualification)
- Several OEM's, engineering and service companies (Hydrogen vehicles – Basic & Technology)
- European OEM of agricultural machinery (Qualification acc.to FBHM-099 on CNG and H<sub>2</sub> & High Voltage)
- Several OEM's and component manufacturers (Qualification acc. FBHM-099, level 2E & 3E CNG and H<sub>2</sub>)



# 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 / Sisu GenPowexFinland (development Dual-Fuel CNG agricultural tractor & generator set)
- AGCO Sisu GenPowex Finland (development Dual-Fuel Biogas generator set)
- Lantmännen / Transport Styrelsen (Swedish national approval Valtra CNG tractor)
- AFV (Volvo) Sweden (Component selection Bi-fuel vehicles)
- Several cases ; support on accident investigation CNG, LNG, H<sub>2</sub> vehicles
- Gasföreningen Sweden (set up certification system CNG)
- Vehicle Repair Workshop CNG, LNG & H<sub>2</sub> (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
- Consultancy on Hydrogen infrastructure concerning compressed Hydrogen, cryogenic Hydrogen, LOHC's Metal Hydrides and Methanol
- Sales consultancy on CNG and Hydrogen storage- and transport modules for truck, bus, train and maritime applications, as well mobile refueling equipment

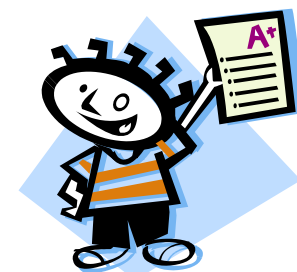


# Other projects

**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 CNG certification system
- 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, LNG and H<sub>2</sub> 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)
- Comparison for OEM on hydrogen storage systems including LOHC's, cGH<sub>2</sub> and LH<sub>2</sub>, Methanol





***For further information :  
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