

Clever

A New Vehicle Concept Powered by an IFP Dedicated CNG Engine

CONTEXT

Develop a two seat vehicle for city traffic with minimal road space requirements.

Light weight and low fuel consumption for low emissions.

Passive safety equivalent to that of a modern compact car, plus adequate passenger comfort.

OBJECTIVES

- Full use of all properties of natural gas such as, for example: high H/C ratio, high octane number;

- Compliance with Euro IV pollution regulations;
- Individual mobility and driveability;
- Use of BMW C1 175cc baseline engine.

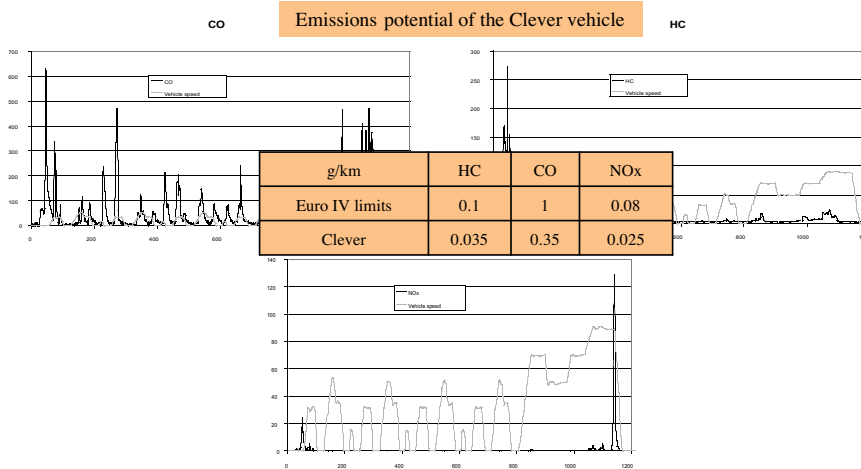
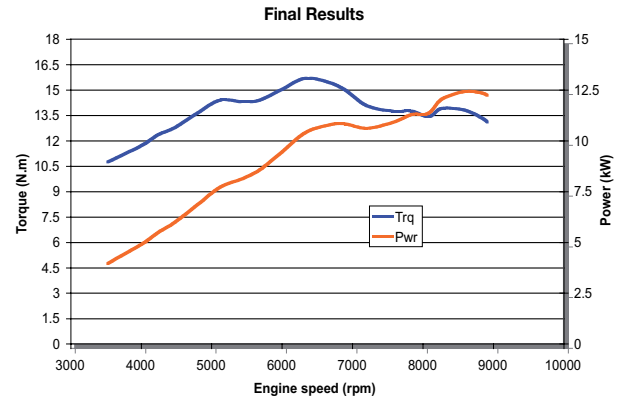
IFP'S SOLUTIONS

- Development of a dedicated 213cc CNG engine;
- Development of a new engine control system;
- Engine and vehicle calibration.



FIRST RESULTS

- Maximum torque is 16 Nm achieved at 6300 rpm.
- Maximum output power is 12.5 kW achieved at 8600 rpm.
- Vehicle CO₂ emissions: about 60 g/km.



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Contact
info@clever-project.net
www.clever- roject.net

CONTACTS:

Worldwide:

Nicolas des Courtils
IFP - Powertrain
Engineering
Marketing & Business
Development
1 et 4, avenue de Bois-Préau
92852 Rueil-Malmaison
Cedex - France
nicolas.des-courtils@ifp.fr
<http://engines-fuels.ifp.fr>

Germany:

Oliver Schmidt
IFP - Powertrain
Engineering
Key Account Manager
Gustav-Heinemann-Ring 60,
D-81739 München -
Germany
Tel.: +49 700 44 76 91 96
Fax: +49 700 44 76 91 97
Mobil: +49 171 44 33 305
schmidto.ifp@t-online.de



ISO 9001: 2000
certification for all IFP
Powertrain Engineering
activities.



www.ifp.fr

IFP - Powertrain Engineering

IFP (Head Office)

1 et 4, avenue de Bois-Préau - 92852 Rueil-Malmaison Cedex - France
Tel.: +33 1 47 52 59 18 - Fax: +33 1 47 52 53 04 - <http://engines-fuels.ifp.fr>

IFP-Lyon

BP 3 - 69390 Vernaison - France
Tel.: +33 4 78 02 20 20 - Fax: +33 4 78 02 20 15