

Deriving Effective Least-Cost Policy Strategies for Alternative Automotive Concepts and Fuels

REPORT on the National Workshop FRANCE

Author

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Project Partner:

Rhônealénergie-Environnement in association with INRETS

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A. General information

Title of the workshop:

Renewable fuels and alternative motorizations to fight against greenhouse gases emission

State of the art, best practises, researches and manners, perspectives of cooperations between public actors and researchers

Date of the workshop: **07th January 2010**

Location: **Bron,
INRETS**

Organisers:

- Rhônaldépénégie -Environnement
- INRETS

Number of Participants: **48 + 2 own staff**

Number of invitations sent: **500**



B. List of participants

Last name	Surname	Institution	Type
ALBERT	François	COMMUNAUTE DE COMMUNES DU PAYS DE ROMANS	Public organisation
ALLARD	Augustin	INDDIGO	Consultant
ASCIAC	Celine	CAP COMMUNAUTE D'AGGLOMERATION PORTE DE L'ISERE	Public organisation
BACHER	Alexandre	VILLE DE CHASSIEU	Public organisation
BIGEARD	Pierre-Henri	IFP LYON	Petrol company
BONNOT	Thierry	GRAND LYON	Public organisation
BORRONI	Valérie	RHONALPENERGIE-ENVIRONNEMENT	OS
CAMBOU	Bernard	INRETS	Research organisation
CENUT	Michel	CERTU	Research organisation
CHARVIN	Catherine	RENAULT TRUCKS	VHP
CHARVIN	Frédéric	INDDIGO	Consultant
COGERINO	Laurent	RHONALPENERGIE-ENVIRONNEMENT	OS
COMBAL	Brigitte	GROUPE LA POSTE	
DEVIE	Arnaud	INRETS	Research organisation
DORDOR	Vincent	VILLE DE CHAMBERY	Public organisation
DUFFAUD	Corinne	VILLE DE CHAMBERY	Public organisation
DUINAT	Michel	VILLE DE ROANNE	Public organisation
DUPREZ	Fabien	CETE	State organisation

DUPUY	Philippe	INRETS	Research organisation
EYMERY	Gilles	VILLE DE GRENOBLE	Public organisation
GARDIN	Christian	VILLE DE LYON	Public organisation
JORIEUX	Pierre	KEOLIS	Transport company
LABROSSE	Alain	GRAND LYON	Public organisation
LAVIGNE	Franck	ECOTHANE	Consultant
LECULIER	Jean-Marc	RHONE ALPES TOURISME	Public organisation
LEROY	Jean	RHONALPENERGIE-ENVIRONNEMENT	
MICHEL	Guy	VILLE DE GRENOBLE	Public organisation
MORDANT	Nadine	INRETS	Research organisation
NOWICKI	Patrick	VILLE DE LYON	Public organisation
PASCAL	Jean-Yves	GROUPE KEOLIS	Transport organisation
PETITBON	Didier	CONSEIL REGIONAL RHONE-ALPES	Public organisation
PILLOT	Didier	INRETS	Research organisation
PRAVAZ	Bernard	VILLE DE CHAMBERY	Public organisation
PROVENT	Jean-marc	NAVIG'INTER	Transport company
ROCHE	Anne-Laure	INRETS	Research organisation
ROLHION BOURCELIN	Geneviève	GPRA NORD ISERE	Public organisation
RONEZ	Benoît	CERTU	Research organisation
RONGIER	Géraldine	DDT01	Public organisation
ROUMEGOU	Jean-pierre	INRETS	Research organisation

SPATOLA	Stéphane	VILLE DE VILLEURBANNE	Public organisation
STEFFEN	Bernard	IVECO IRISBUS	VHP
TABARD	Serge	MAIRIE DE SAINT ETIENNE	Public organisation
TANGUESTANIFAR	Alban	MOBILITE ET ENERGIE ALTERNATIVE	Consultant
TRANZEAT	Sidonie	ANNEMASSE LES VOIRONS AGGLOMERATION	Public organisation
VILLIEN	Jean	GRAND LYON	Public organisation
VIVIANI	Jean-Paul	CETE	State organisation
VIVIER	Patrice	CONSEIL GENERAL HAUTE-SAVOIE	Public organisation
WEBER	Olivier	ANNEMASSE LES VOIRONS AGGLOMERATION	Public organisation

Stakeholder category (type): **OS**=own staff, **FUP**=fuel producer, **FUD**=fuel distributor, **AC**=academia, **FLT**=fleet, **POL**=policy maker, **MUN**=municipality, **VHP**=vehicle (technology) provider, **VHD**= vehicle dealer,

C) AGENDA of the Workshop

9h45 – 10h00	Welcoming of participants
10h00 – 10h15	Opening of the conference and presentation of Altermotive by Nadine MORDANT (loaded with the relations with the local and territorial authorities for the head office, INRETS) and Laurent COGERINO (chairman) (Rhônalpennergie-Environnement)
10h15 – 11h15	State of the art and researches on future without carbon vehicles by Philippe DUPUY (Director of the Laboratory Transports Environment, INRETS) and points of view by one representative of territorial community or fleet owner Jean-Yves PASCAL (Keolis)
11h15 – 11h 30	DEBATE
11h30 – 12h30	Point on research and perspectives of development on alternative fuels by Didier PILLOT (Researcher of Laboratory Transports Environment, INRETS) and practical experience of the city of Grenoble (Gilles EYMERY , experience feedback)
12h30 – 13h00	DEBATE
13h00 – 14h30	LUNCH
14h30 – 16h 30 presentation and debates included	Round table : Chairman Laurent COGERINO (RAEE) Which expectations and which difficulties met respectively by the representatives of communities and researchers? Tools and tracks of collaboration with Fabien DUPREZ (CETE) : presentation of collaborative tools between researchers and communities. Bernard CAMBOU (Scientific Director INRETS) François ALBERT (Communauté de Communes du Pays de Romans)) Nadine MORDANT (INRETS), presentation of the call for project Espon Didier PETITBON (Regional council régional Rhône Alpes) Serge TABARD (City of Saint Etienne) Thierry BONNOD (Grand Lyon)
16h 30	End of the meeting

D. Short summary:

a) The workshop was successful. Participants agreed that it was one of the first time when french representatives of fleet owners and scientists or experts met together and exchanged their point of views in a direct discussion. The participants show great interest in the implementation of new common projects meeting simultaneously scientists and fleet owners and their concrete needs

b). Participants also agreed that such meetings should be re organised. There was a suggestion to have a next conference after the regional council election, on september.

The issues addressed:

- | | |
|---|-----------------|
| 1) Critical review of the state of the art | yes / no |
| 2) Recent and planned policy development | yes / no |
| 3) Action plan for an EU strategy towards a sustainable transport | yes / no |
| 4) Coordination/harmonisation of the support systems | yes / no |
| 5) Specific national requirements | yes / no |
| 6) Policy integration | yes / no |
| 7) Other (please specify) | yes / no |
| common projects between scientists and fleet owners | |

E. Detailed report on the debate :

Presentation of INRETS : first French research organization on transport (6th in Europe) 650 staffs, on mobility, quality and health

Recall from Philippe Dupuy to reduce mobility needs, reduce fuels consumptions, develop renewable fuels and non carbon vehicles (less than 60 g CO₂/km and 3l/100km). Presentation of hybrid (different type) and electric vehicles, their main characteristics. Some issues about electric vehicles : real impacts in CO₂, batteries, grid and security

Presentation of Keolis : 40000 staff, 8 countries and Canada, 3.2 MM €
Small contribution of buses in urban atmospheric pollution (3 %)

Energies alternatives utilisées dans les filiales

Carburants liquides Carburants gazeux

-  Diester
-  Gecam O#
-  Ethanol
-  GPL
-  Gaz naturel
-  Biogaz

Véhicules hybrides











Véhicules électriques



















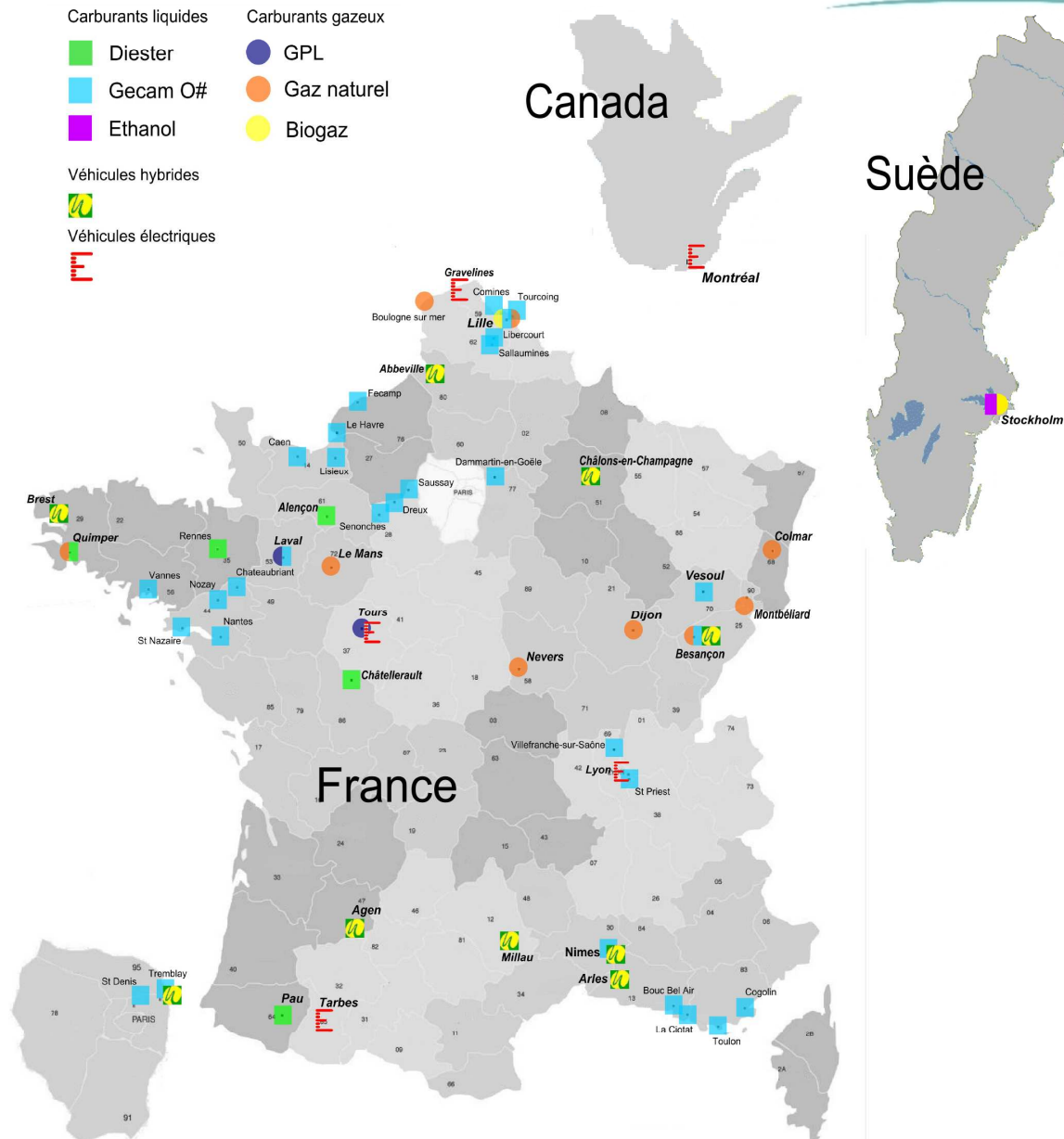
Nombre de véhicules (exploités ou en exploitation) :

Réseaux urbains :

Abbeville :	 2
Agen :	 3
Alençon :	 21
Arles :	 5
Besançon :	 61  3
Brest :	 2
Châlons-en-Champagne :	 1
Châtellerauld :	 23
Colmar :	 27
Dijon :	 65
Gravelines :	 1
Laval :	 22  30
Le Mans :	 62
Lille :	 261  71  En évolution
Lyon :	 5
Millau :	 5
Montbéliard :	 25
Montréal :	 7
Nevers :	 1 (véhicule de service)
Nîmes :	 57  4
Pau :	 57
Quimper :	 22  29
Stockholm :	 300  51
Tarbes :	 2
Tours :	 36  1
Vesoul :	 7

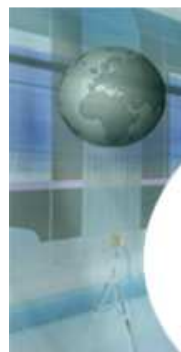
Réseaux inter-urbains :

Autocar Planche (69) :	 30
CIF (93,95,77) :	 85  3
Interhône Alpes (69,38) :	 10
Keolis Atlantique (44,56,49,53,35) :	 350
Keolis Bouches du Rhône (13) :	 51
Keolis Calvados (14) :	 200
Keolis Eure et Loire (28) :	 152
Keolis Seine Maritime (76) :	 100
Monts-Jura Autocars (25) :	 69
Pacific Cars (Ile-de-France) :	 17
SAP Bouc Bel Air (13) :	 45
TAE (35) :	 54
Transports de la Brière (44) :	 46
Trans Val de Lys (59) :	 84
Sodetrav (83) :	 44
Westeel Voyages (62) :	 100



Gecam : an easy solution to reduce local pollutants at a same price of diesel
Diester (biodiesel) more expensive than gasoil (+ 3 %) environmental impacts
Bioethanol 300 buses in Sweden
NGV expensive costs for refueling stations
Biogas 51 buses in Sweden expensive costs of equipment but one of the best solution to reduce CO2 emissions
BEV 5 buses more expensive than gasoil Issues of batteries

Presentation of Didier Pillot :comparison of emissions. The problem of food against fuel about biofuels. The hopes about 2nd generation of biofuels



Émissions relatives de polluants (à l'échappement)

Écarts	CO ₂ /ess /gazole	NOx /ess /gazole	HC /ess /gazole	Particules /gazole ss FAP
GPL	-10% +10%	x6 ? -60%	-25% ≈	
GNV	-23% +10%	x4 -75%	-30% x4	
E10	-2%	+30%	-25%	
E85	-5%	≈	≈	
B5	-1%	≈	-5%	-10%
B30	-1%	≈	-10%	-20 à -40%
HVP 30%	+2%	+4%	+20 et -10%	+30% froid -10% chaud

Tank to
wheel

Presentation of Grenoble : 672 vehicles and 220 alternatives vehicles

consumption GNV 25 % higher but cost 40 % cheaper
(NGV =0.55 € diesel= 1.25 €)

Presentation of Fabien Duprez : call of participation with a consortium of scientists organisations to help fleet owners or public organisations

Presentation by François Albert (pays de romans) of PPO
Local and environmental production, no competition with food.
Some willing of collaborations with scientists about other use of PPO in all kind of vehicles in France

Presentation of regional fleet by Didier Petitbon
159 cars mainly diesel. A new deal : reducing CO2 emissions

Presentation of B30 in Grand Lyon by Thierry Bonnot
Reducing of 1000 t/year of CO2

36 % essence
(243)

32%
Gasoil
(212)

23 %
GNV
(157)

9 %
Electrique
(60)

All the interventions are on line at www.raee.org

F. Overall conclusions

- not easy to reach scientists and fleet owners
- both need to work together
- a new vocabulary to find
- some new tools to test
- some perspectives in new European projects ?

G. Recommendations

- interest to co organize a WS with a big scientist organization
- don't hesitate to recall the participants before the meeting and write (and re write) what you are expecting
- read their presentation before and discuss it with them
- maintain some links after to make real the new collaboration