

Measures to reduce emissions of the national automotive fleet

December 14, 2016



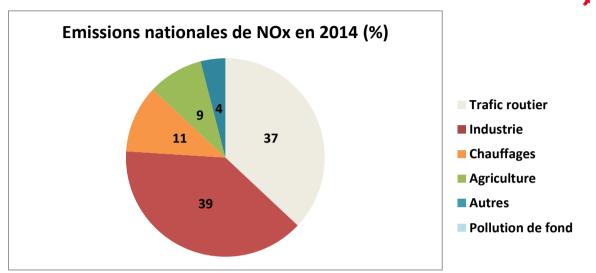
Administration de l'environnement

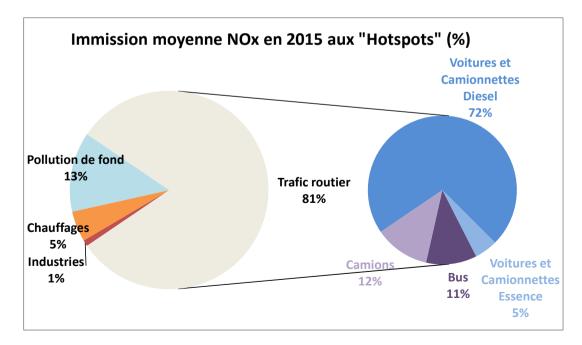


- Emission sources (NOx)
- New Fiscal incentives
- Electro-mobility

Emission by source (NO_x)

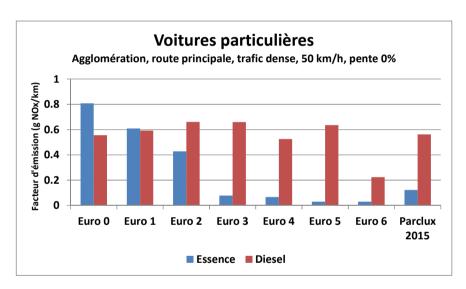






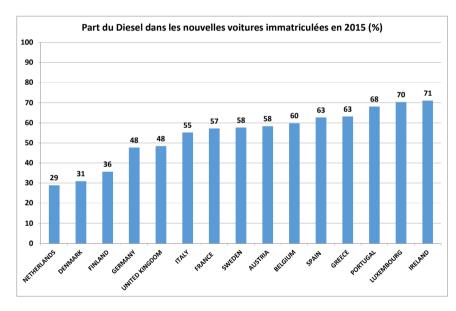


Euro standards for diesel cars are less severe



Source: Handbook Emission Factors for Road Transport (HBEFA) v.3.2 (2014), SNCT (2015), Komobile/iVT-TUGraz (12/2014)

High level of Diesel cars in national fleet



Source: Association Auxiliaire de l'Automobile (AAA)

Share of annually new registered leasing cars is about 50% of total registrations in Luxembourg



Incentives for the purchase of low-emission cars

Tax reform 2017



Tax reform 2017

Introduction of a tax allowance for zero-emission private cars





Tax reform 2017

- ➤ Change in benefits in kind based on CO₂ emissions
- Penalisation of Diesel cars (+ 0.2%) compared to petrol engines



Catégories d'émissions de CO2	Situation actuelle	actuelle Réforme			Nouveauté
	CO2 et motorisations				Pourcentage de la valeur du vélo ou pedelec
		Véhicule avec motorisation Essence (seul ou hybride) ou avec motorisation au gaz naturel comprimé (GNC)	Véhicule avec motorisation Diesel (seul ou hybride)	Véhicules 100% électriques ou avec motorisation au hydrogène	Cycle au sens du Code de la route (vélo ou pedelec)
0 g/km	1,5			0,5	0,5
>0-50 g/km	1,5	0,8	1,0		
>50-110 g/km	1,5	1,0	1,2		
>110-150 g/km	1,5	1,3	1,5		
>150 g/km	1,5	1,7	1,8		



Calculation of the benefit in kind

- > The taxable monthly benefit in kind is calculated on the purchase price of the car
- > From 1 January 2017 it varies between 0.5% and 1.8%

	Purchase price	%	Monthly taxable benefit in kind
Diesel car >150 g CO ₂ /km	30 000,00 €	1,8	540,00 €
Electric car 0 g CO2/km	30 000,00 €	0,5	150,00 €
Additional taxable amount for diesel car (1 year)	6 480,00 €		
Additional taxable amount for electric car (1 year)	1 800,00 €		



Public infrastructure for electric mobility

Installation of 800 charging stations by 2020



Public charging infrastructure



Installation of 800 charging stations by 2020

Financing and installation is done by the

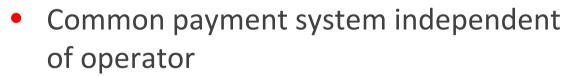






- electricity network operators (legal obligation)
 - Each station is fitted with 2 charging points -> 1.600 charging points in total
 - Socket « Type 2 » (EN 62196)





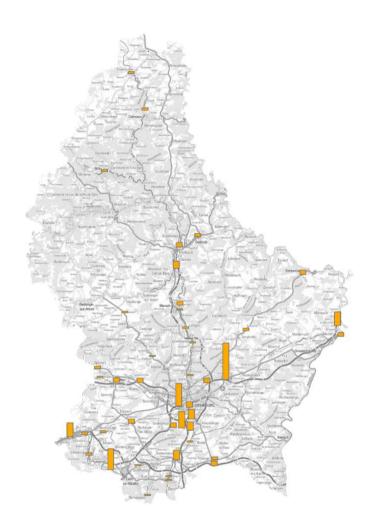


« eRoaming » function

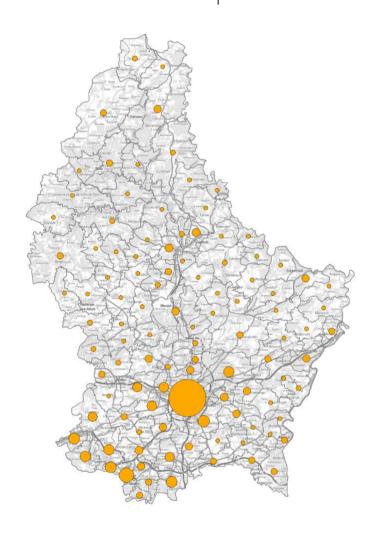


Public charging infrastructure





400 charging stations at **P&R parking** until 2020



400 charging stations at **public parking spaces** until 2020

Public charging infrastructure



Project timeframe:

Concept & Legislation

- Technical-commercial study
- Grand-Ducal regulation
- General implementation plan



- Call for proposals and contracts signature (July 2017)
- Test period (Sep. 16 beginning 17)
- Infrastructure works on public parking spaces and P+R





Operational launch



 July 2017: 100 charging stations on public parking spaces and 50% of P+R operational



- July 2019: 240 charging stations on public parking spaces and 80% of P+R operational
- End 2020: 400 charging stations on public parking spaces and 100% of P+R operational



- Continuous evaluation of measures put in place.
- > Adaptation, if expectations are not met.

