

Transportation policies in Brazil

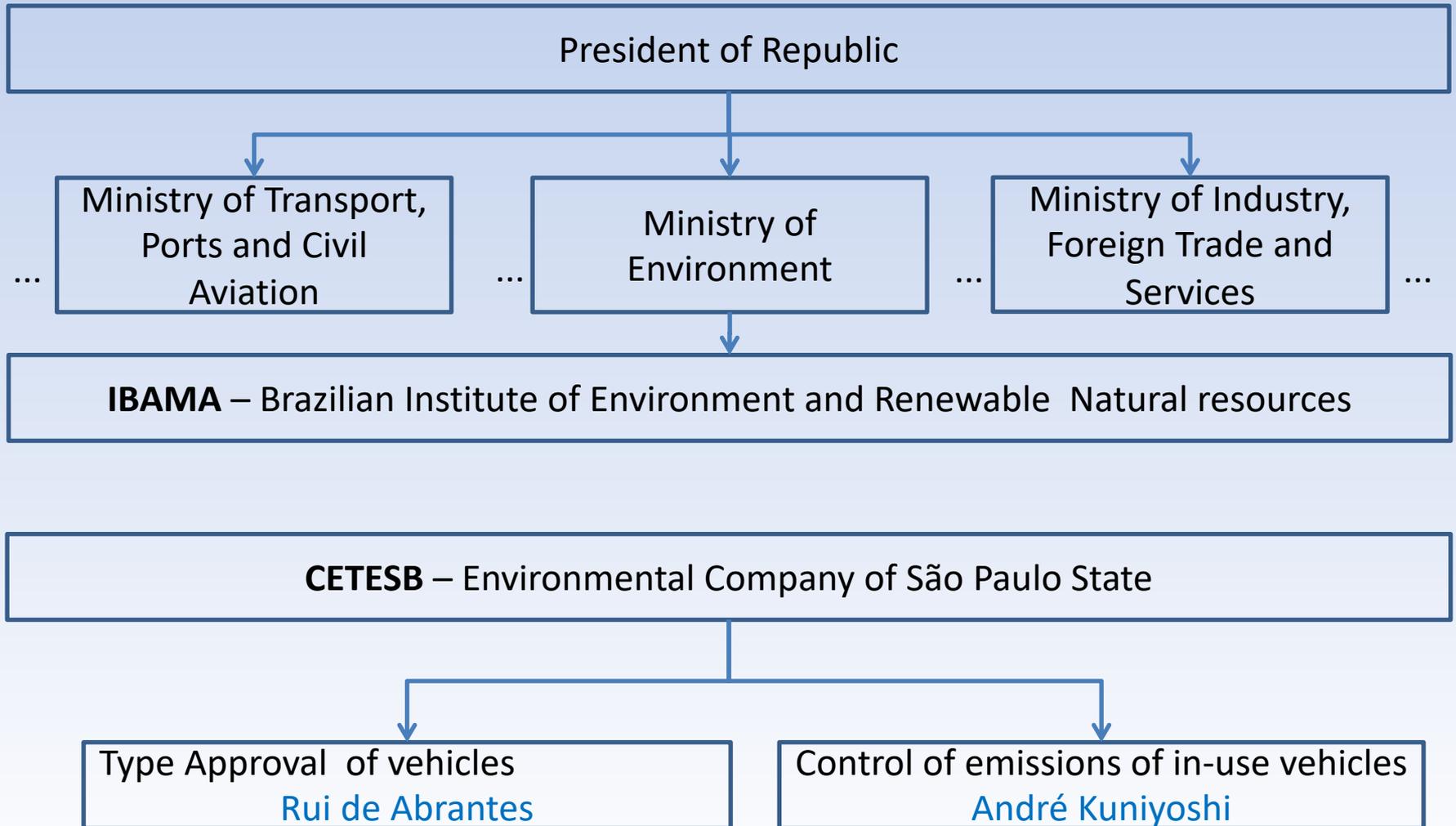
Rui de Abrantes – Cetesb

Buenos Aires, September 25th, 2018

South American Summit on Vehicle Emissions



Governmental structure



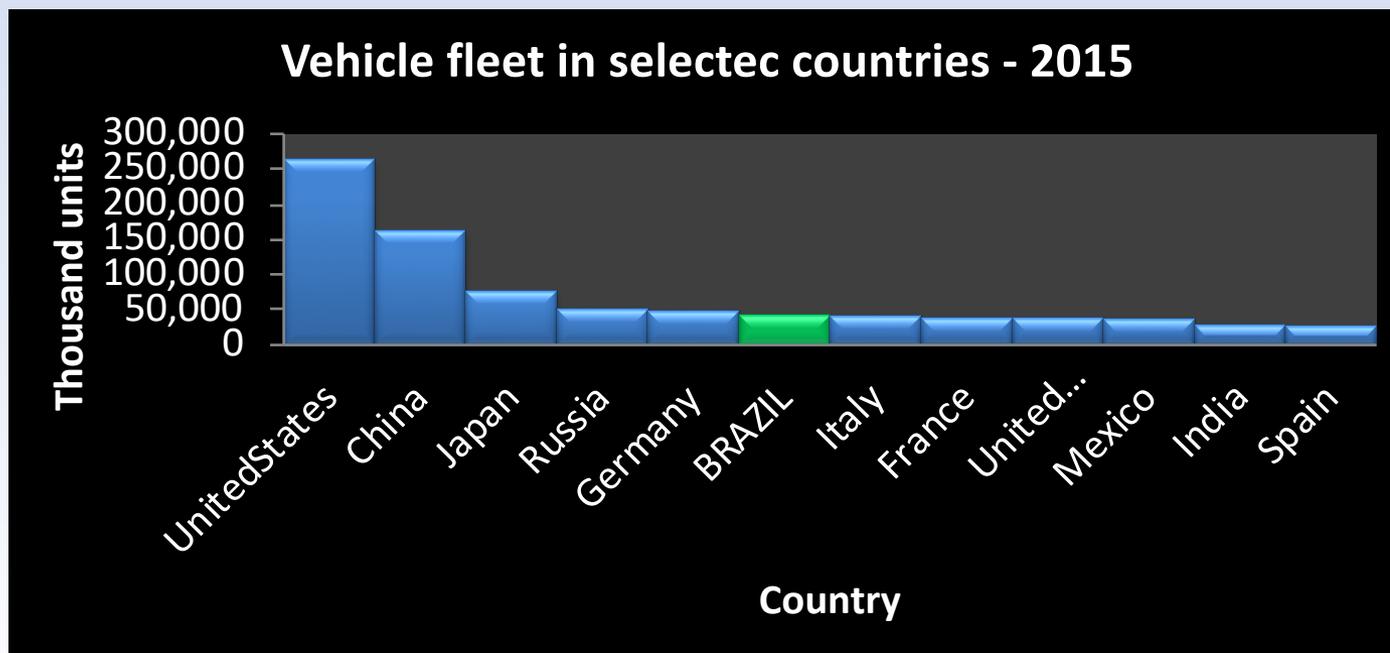
Brazilian scenario



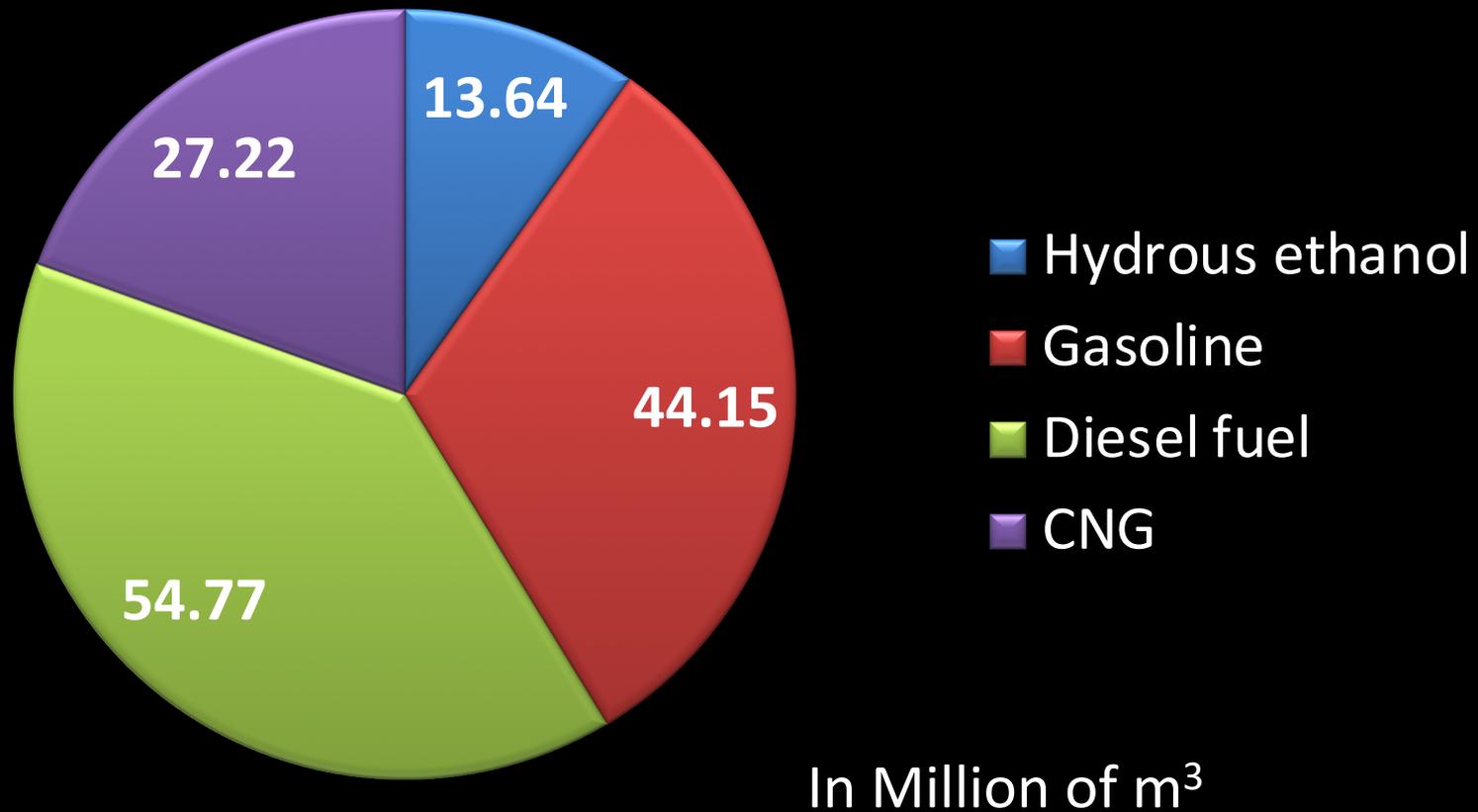
- Road transport is the main transportation system in the country for goods and passengers;
- With 1,610,076 km of national highways and roads;
- Since 2012 Proconve phase P 7 is the emission control program for Heavy Duty Vehicles (HDV) in Brazil, it is based on Euro 5;
- Next step P 8 (Euro 6) is under discussion;
- Diesel fuel usage is allowed just for vehicles able to carry more than 1 ton.

Brazilian fleet

- Brazil has the sixth biggest vehicles fleet in the world, with 42 million units;
- 5.7% are HDV, with 2.4 millions;
- what corresponds to the fourth biggest HDV fleet in the world.

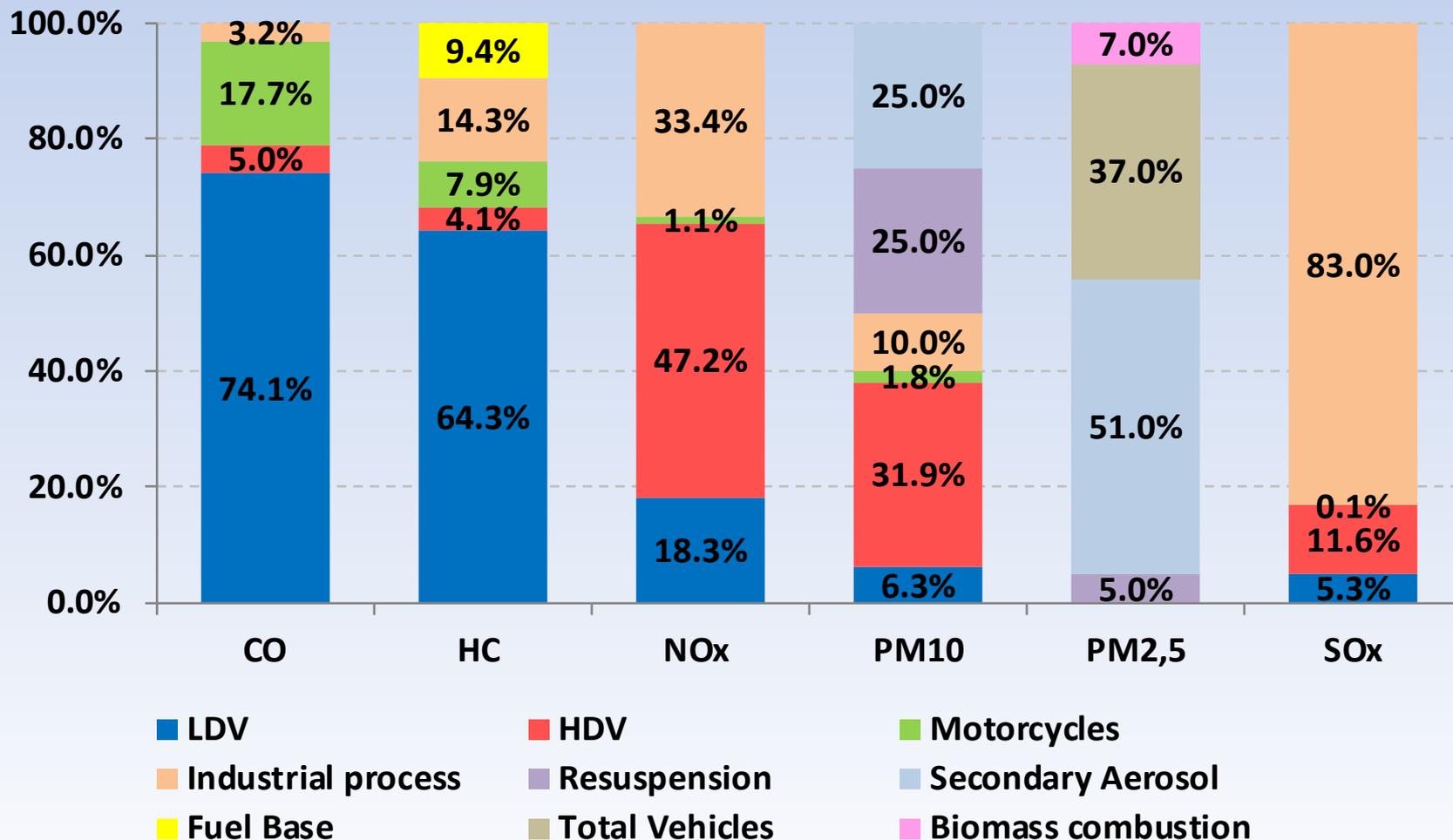


Fuel consumption in 2017



Source: ANP - National Agency of Petroleum, Natural Gas and Biofuels - 2018

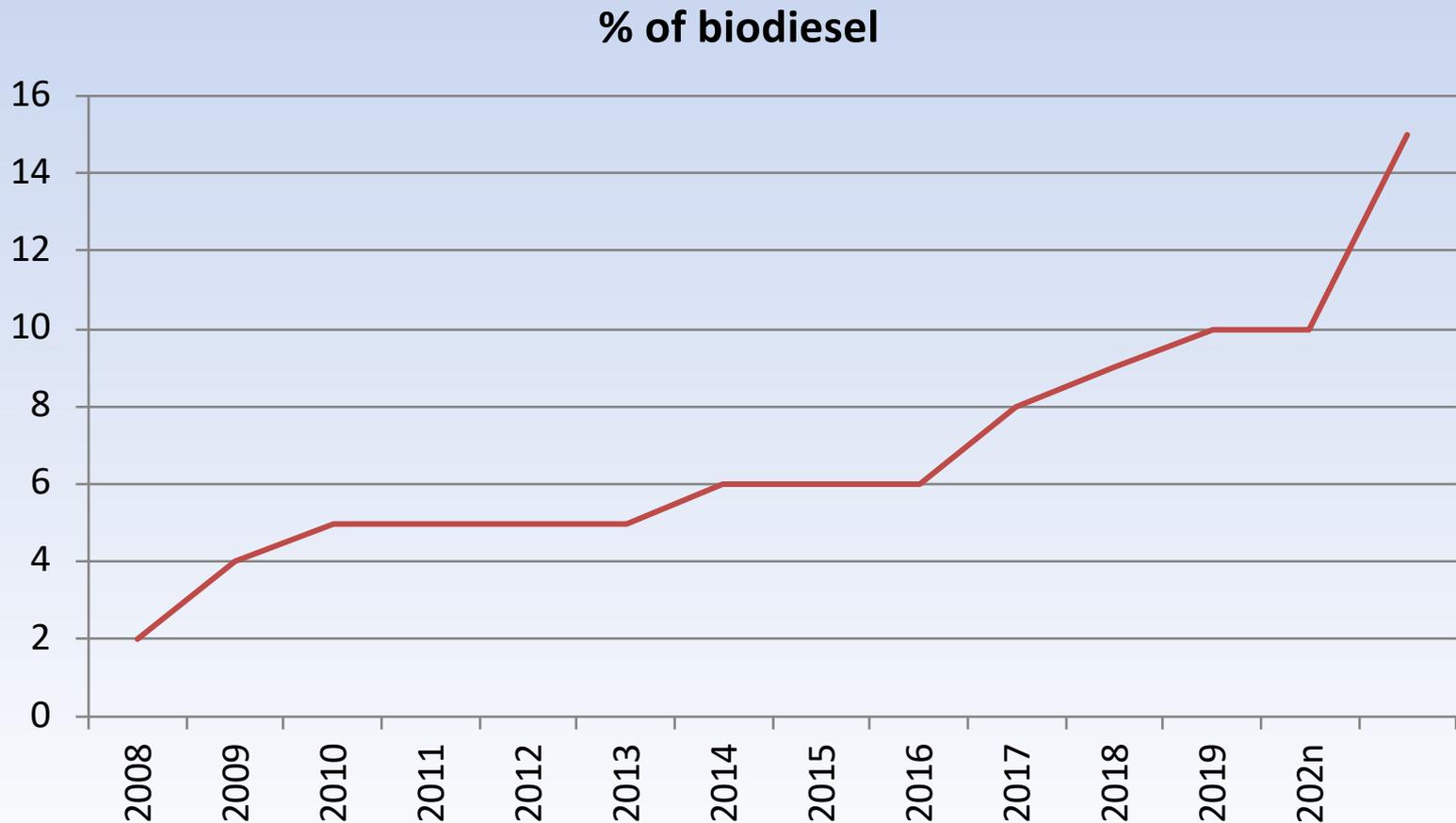
Relative emissions by source type – Metropolitan Region of Sao Paulo



Biodiesel



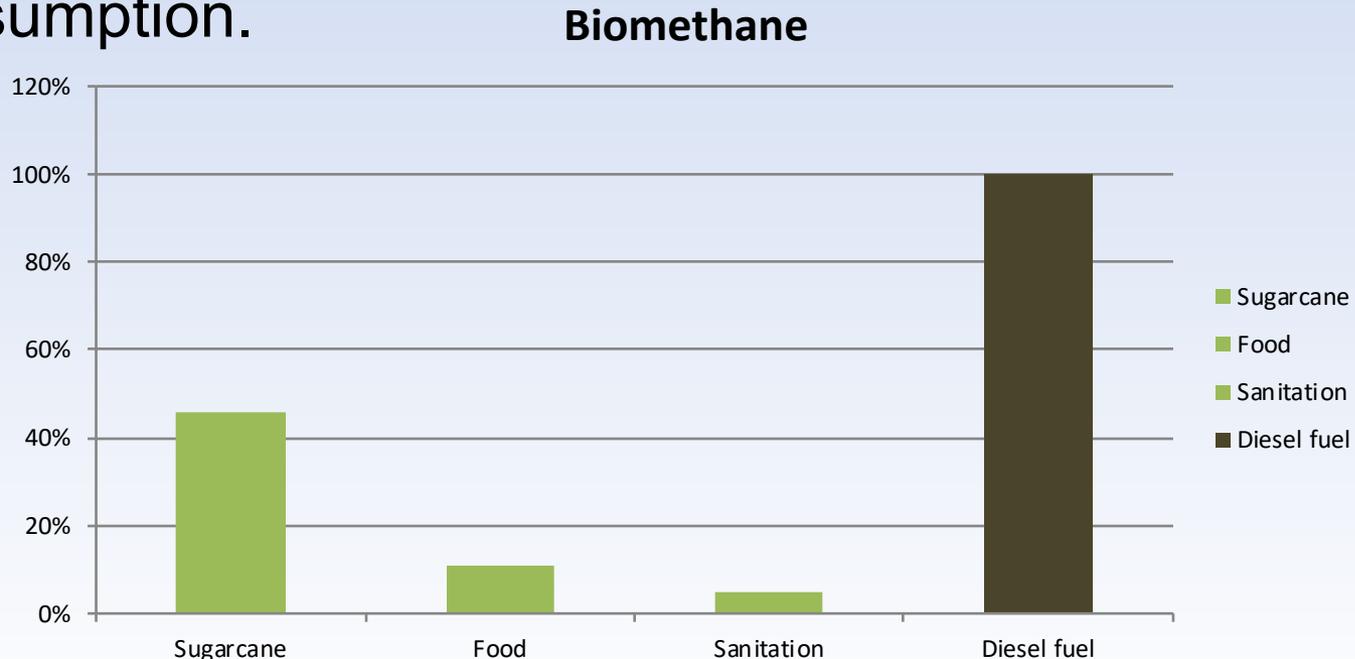
- Soybean biodiesel is the most common type of biodiesel.



Bio methane



- Bio methane specification is regulamentated already;
- Brazil has the potential to produce 30 million of cubic meters per day by 2030;
- What can corresponds up to 44% of diesel fuel consumption.



Source: ABIOGAS

Hybridization and Electrification



- Electrification net for vehicles is in embryonic stage:
 - São Paulo ◀▶ Rio de Janeiro (6 electro stations);
 - Paranaguá ◀▶ Foz do Iguaçu (2 electro stations);
 - Some malls and supermarkets.
- Some delivery companies are buying electric trucks;
- Some electric buses are been used in demonstration;
- No importation tax for hybrid and electric vehicles;
- Federal tax for hybrid vehicles was reduced from 25 % to 13%;
- Federal tax reduction for electric vehicles are still under discussion.

Fuel efficiency

- Cetesb proposed to Ibama a regulation for Corporative GHG reduction;
- CO_2 equivalent = $\text{CO}_2 + \text{CH}_4 \times 25 + \text{N}_2\text{O} \times 298$;

Redução percentual da emissão de GEE de veículos pesados

Categoria	Redução (%)	
	3 Anos	13 Anos
Veículos de passageiro com PBT \leq 5 toneladas	10	10
Veículos de carga com PBT > 3,856 toneladas e \leq 16 toneladas, e veículos de passageiro com PBT > 5 toneladas e \leq 7,5 toneladas	10	15
Veículos de carga com PBT > 16 toneladas, e para os veículos de passageiro com PBT > 7,5 toneladas	10	20

- Public consultation (finalized): <https://www.ibama.gov.br/notas/1410-consulta-publica-sobre-controle-de-emissoes-de-gases-de-efeito-estufa-por-veiculos-automotores>
- This propose maybe will be discussed next year.



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THANK YOU