



The Brazilian transport and industry sectors

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Brazilian Automotive Complex

EMPLOYMENT
(Direct and indirect)
1,3 million people

GDP SHARE (2015)
(Including Autoparts Industry)
Industrial: 22%
Total: 4%

**NATIONAL
AUTOMOTIVE
ENGINEERING**

WORLD RANKING

Sales: 8th position

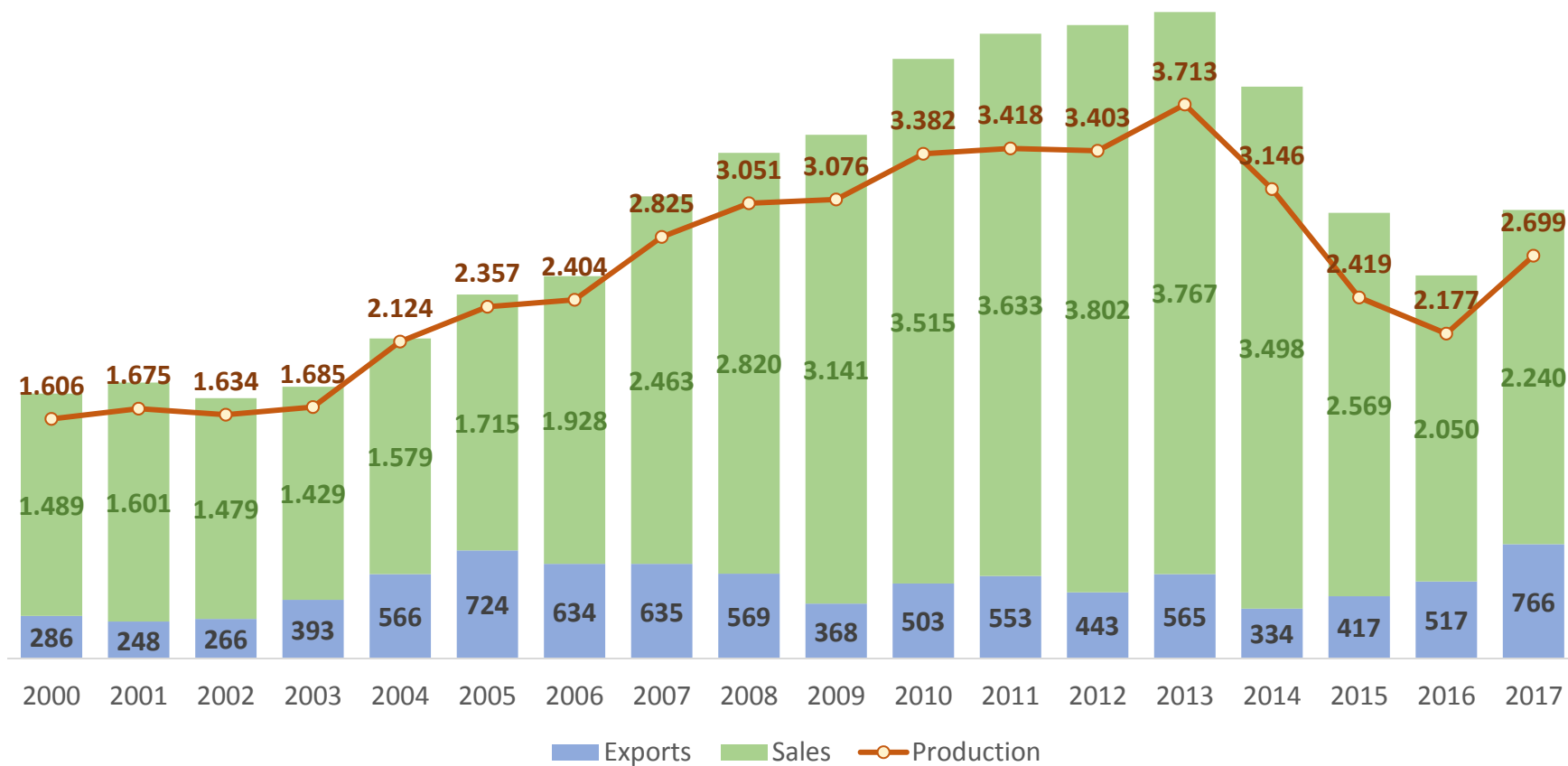
Production: 9th position

TAXES (2016)
R\$ 45 billion

REVENUE (2016)
(Including Autoparts Industry)
US\$ 46,9 billion

PLANTS
65 Industrial Units
10 States
42 Cities

Thousand units



Production

Country	Thousand Unit
China	29.015
United States	11.190
Japan	9.694
Germany	5.646
India	4.783
South Korea	4.115
Mexico	4.068
Spain	2.848
Brazil	2.699

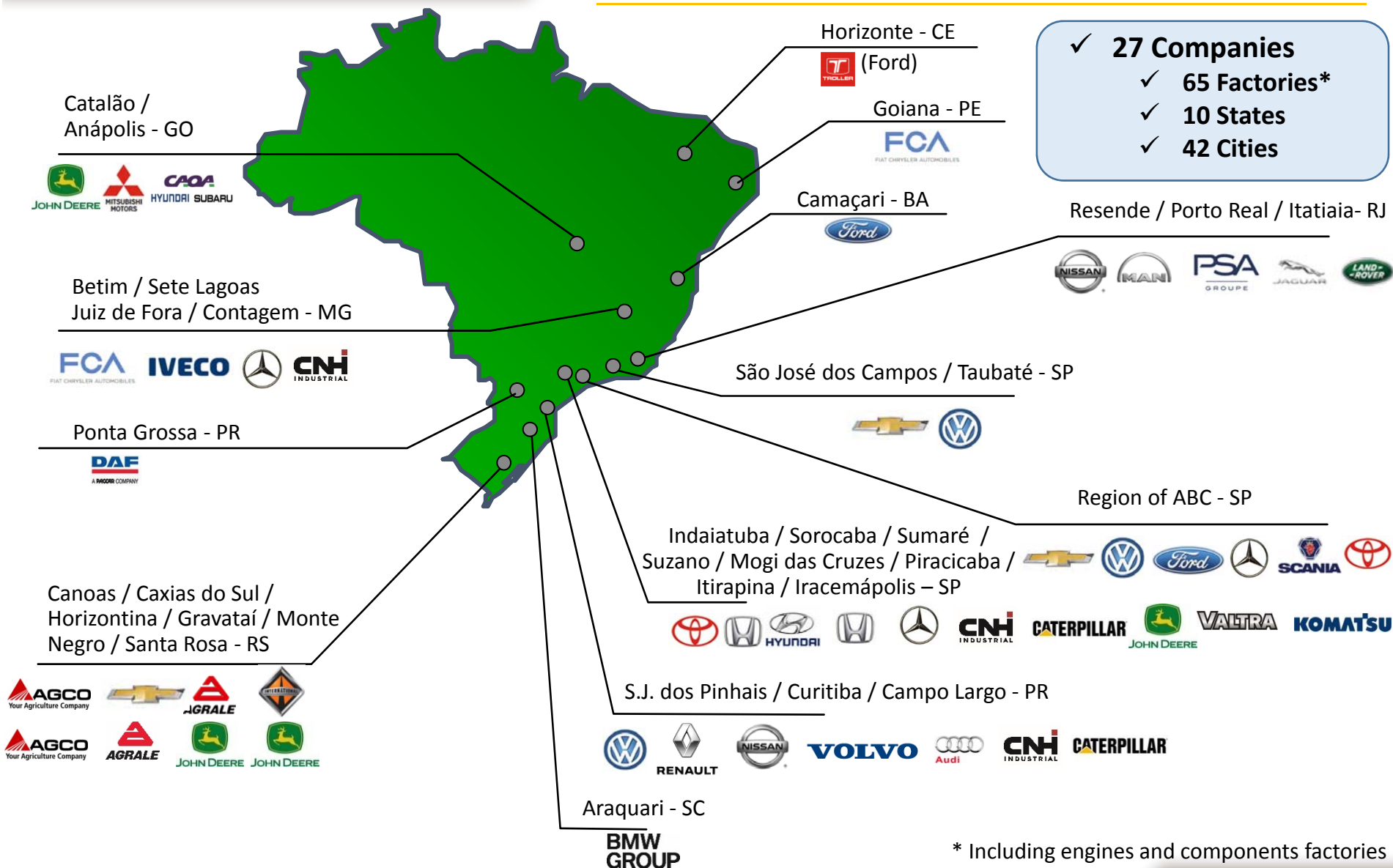
9th PRODUCER

Sales

Country	Thousand Unit
China	29.123
United States	17.584
Japan	5.239
India	4.018
Germany	3.811
United Kingdom	2.955
France	2.605
Brazil	2.240

8th MARKET

Automotive Industry Complex



* Including engines and components factories



The industry is following two trends:

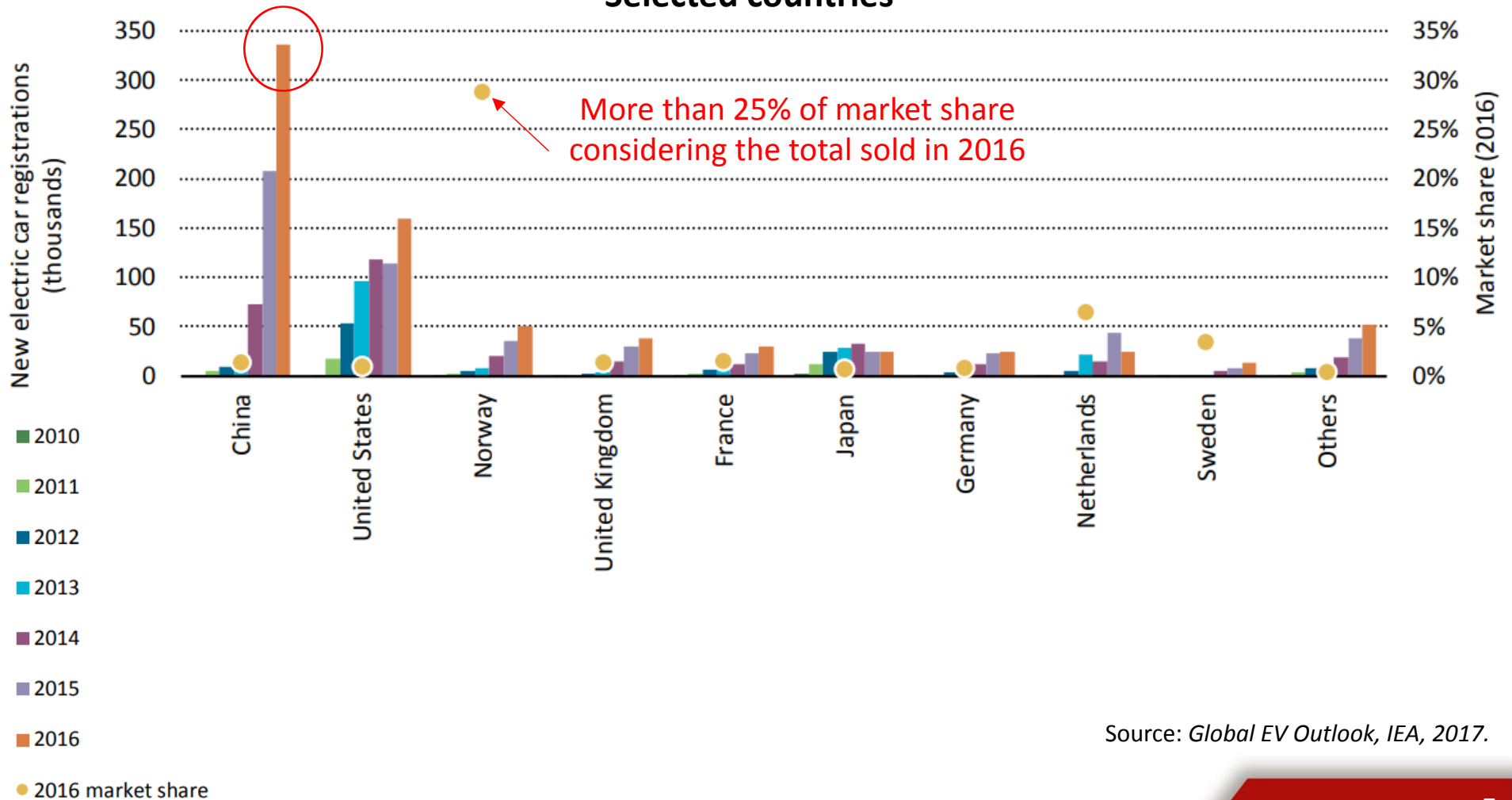
Reduction of the greenhouse gases emissions

Mobility, car sharing and road safety

Electrics and hybrids in the world

Almost 350 thousand units sold in China in 2016

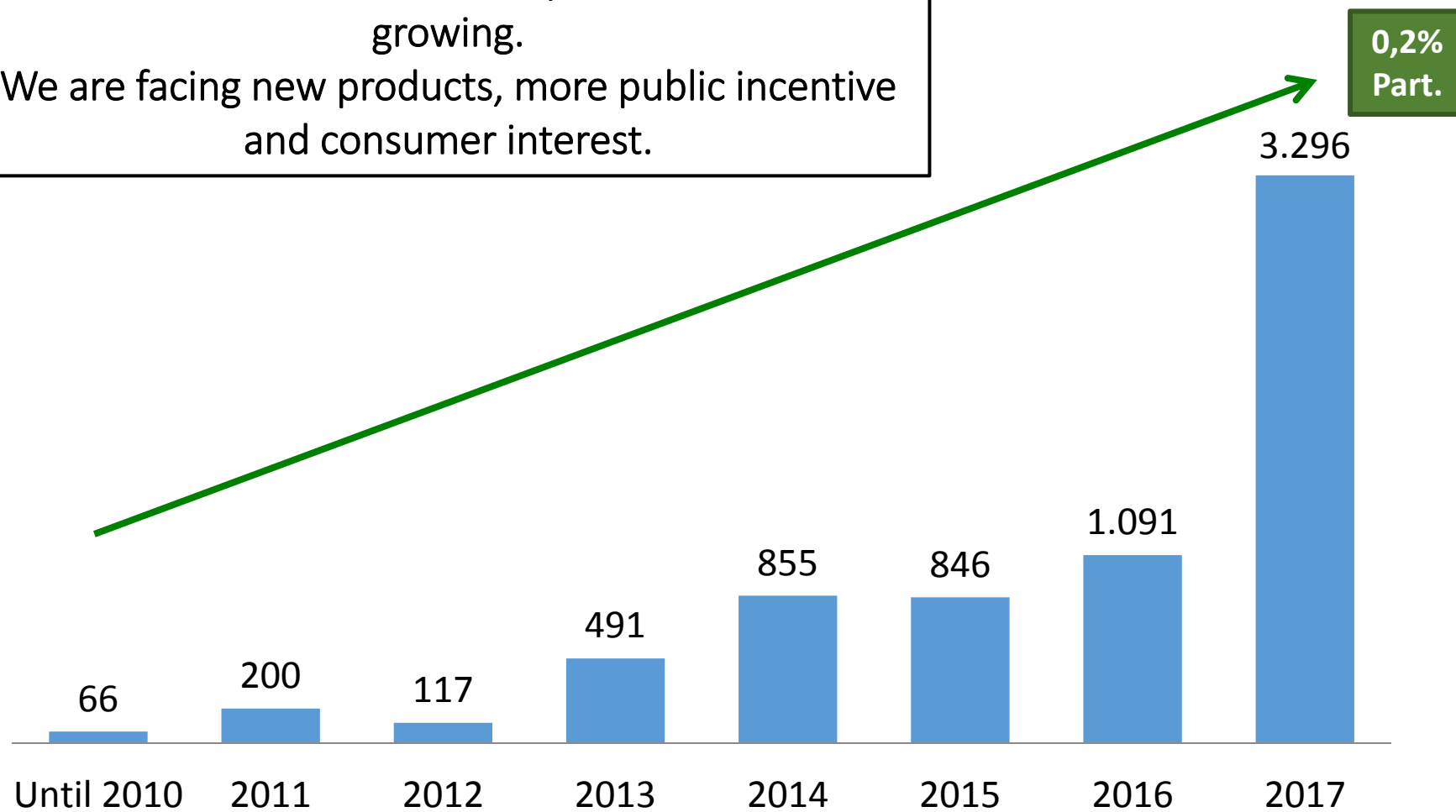
Sales and share Selected countries

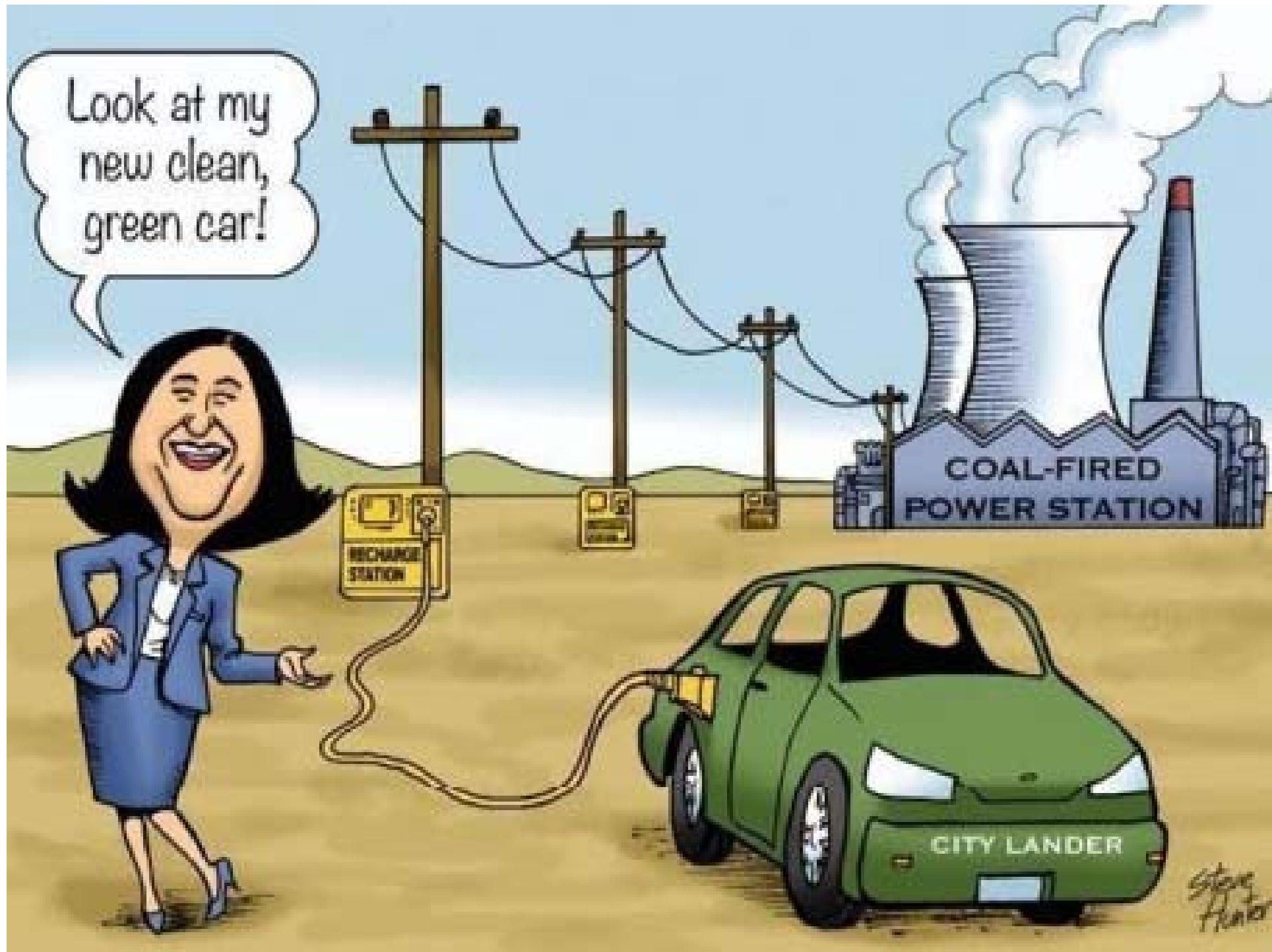


Source: Global EV Outlook, IEA, 2017.

And also in Brazil

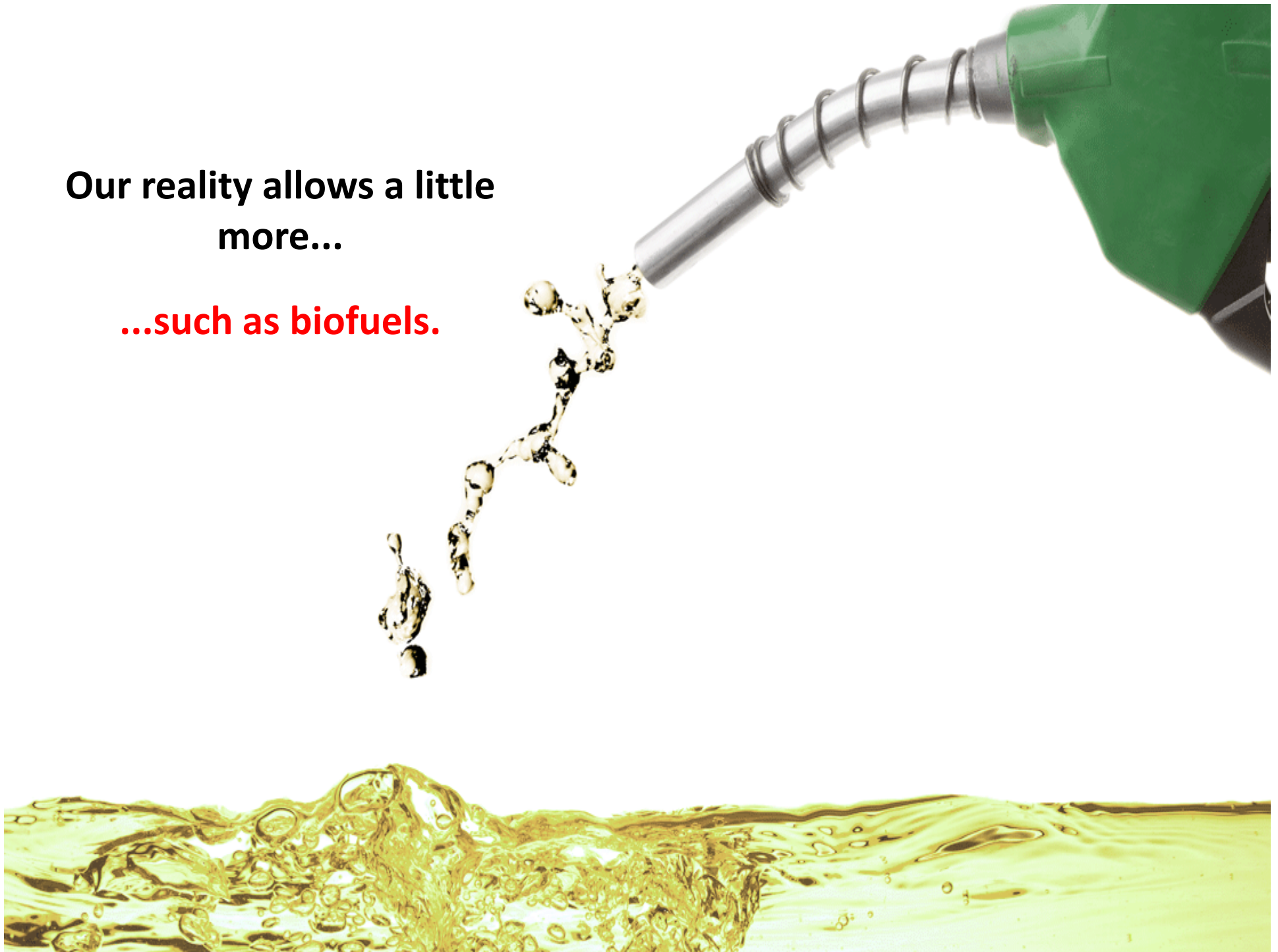
Brazil: sales of electric and hybrid vehicles are growing.
We are facing new products, more public incentive and consumer interest.



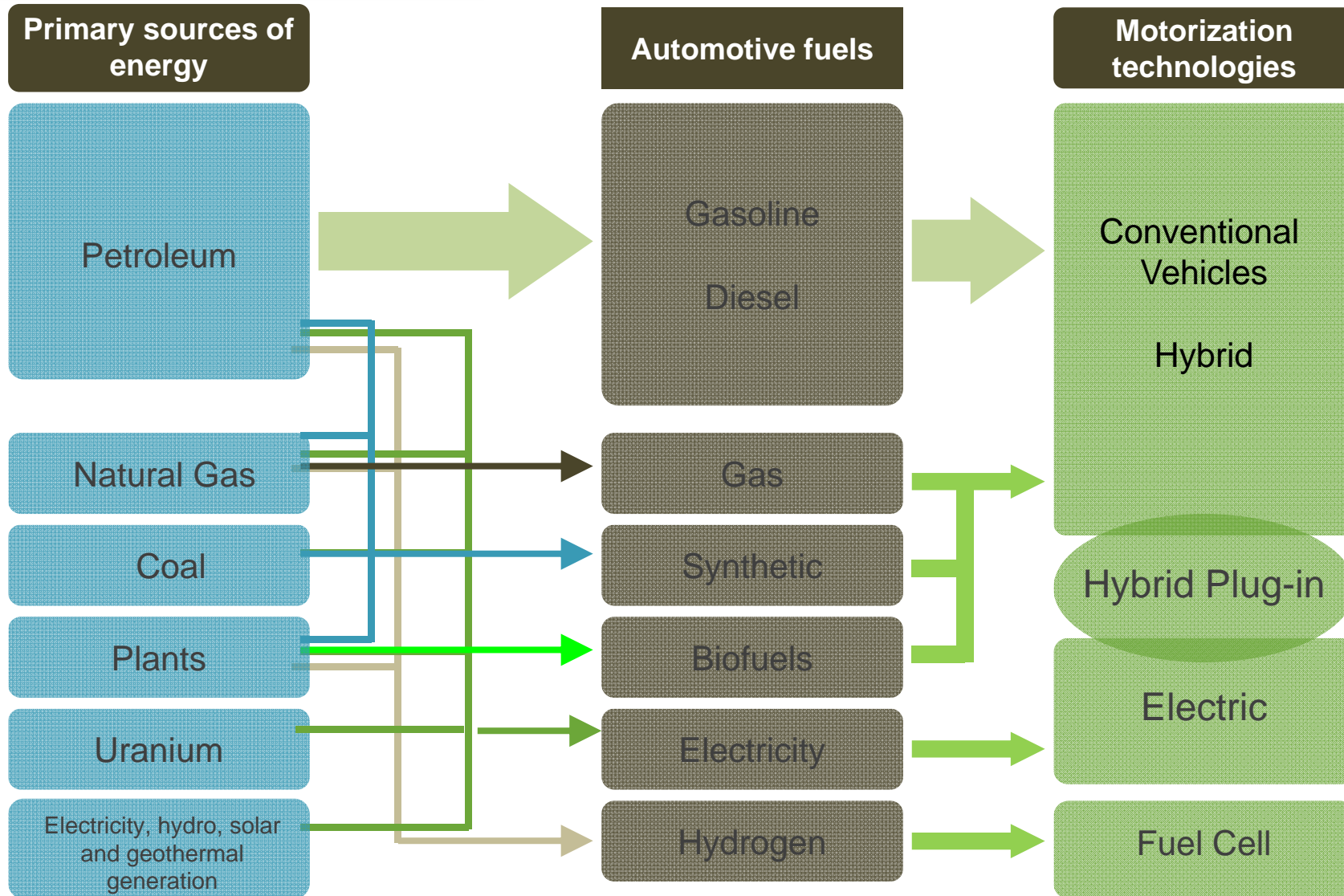


**Our reality allows a little
more...**

...such as biofuels.



Our energy mix



We have a great variety in our energy mix



The world is searching for new technologies and Brazil has an unique opportunity: **ethanol**

A photograph of a person's hand holding a green fuel nozzle, positioned next to the fuel tank of a car. The background is a blurred green and white structure, possibly a gas station. The image is overlaid with text boxes and icons.

ETHANOL



Rich in hydrogen

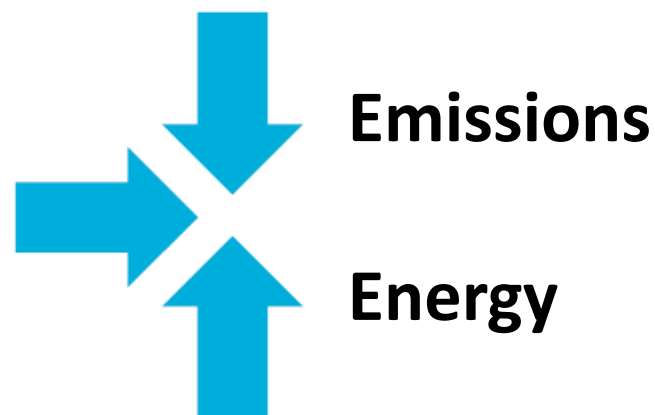


Liquid and renewable



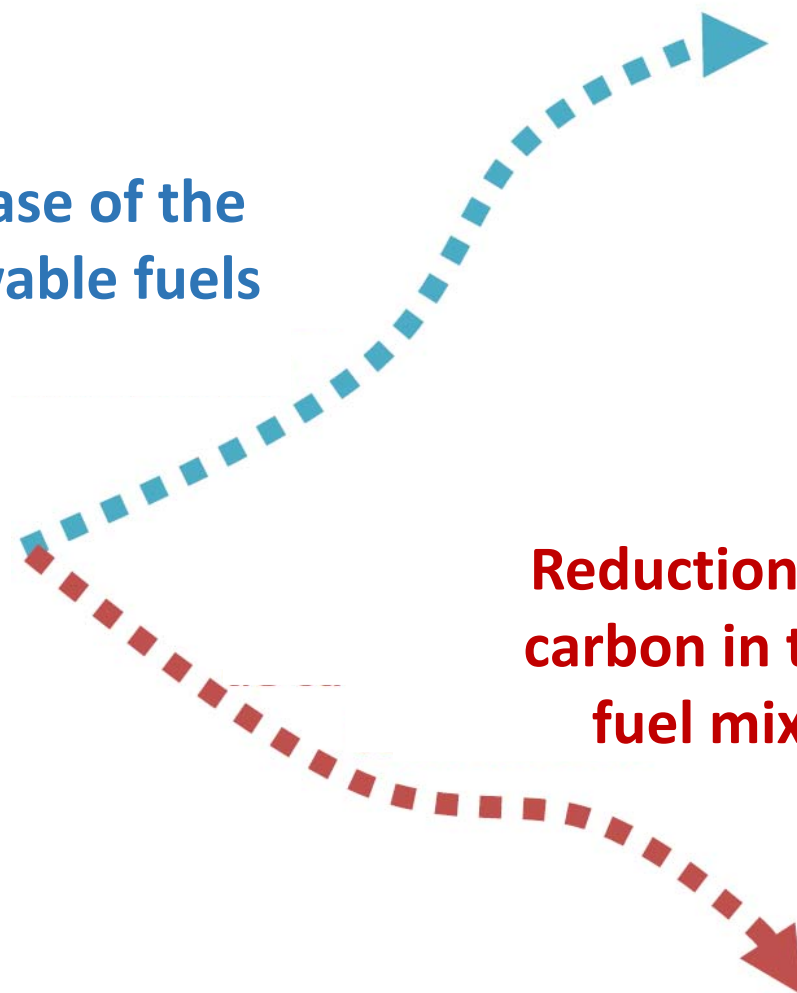
Can help the development of fuel cell

Policy that aims to induce **environmental and energy efficiency** in the Brazilian energy mix



Results expected

Increase of the
renewable fuels



Reduction of
carbon in the
fuel mix



ROUTE 2030

(expectations)

Predictability for new investments and law security

Brazilian competitiveness in the global scenario



Brazilian potentialities, such as ethanol

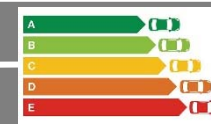
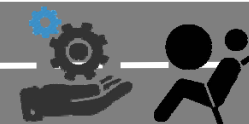
Attraction of new technologies

New markets and exports increase



Knowledge generation in Brazil

Technological advance and consolidation of auto parts chain





Thank you!

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