

AGOSTO 2025

MOVILIDAD SOSTENIBLE

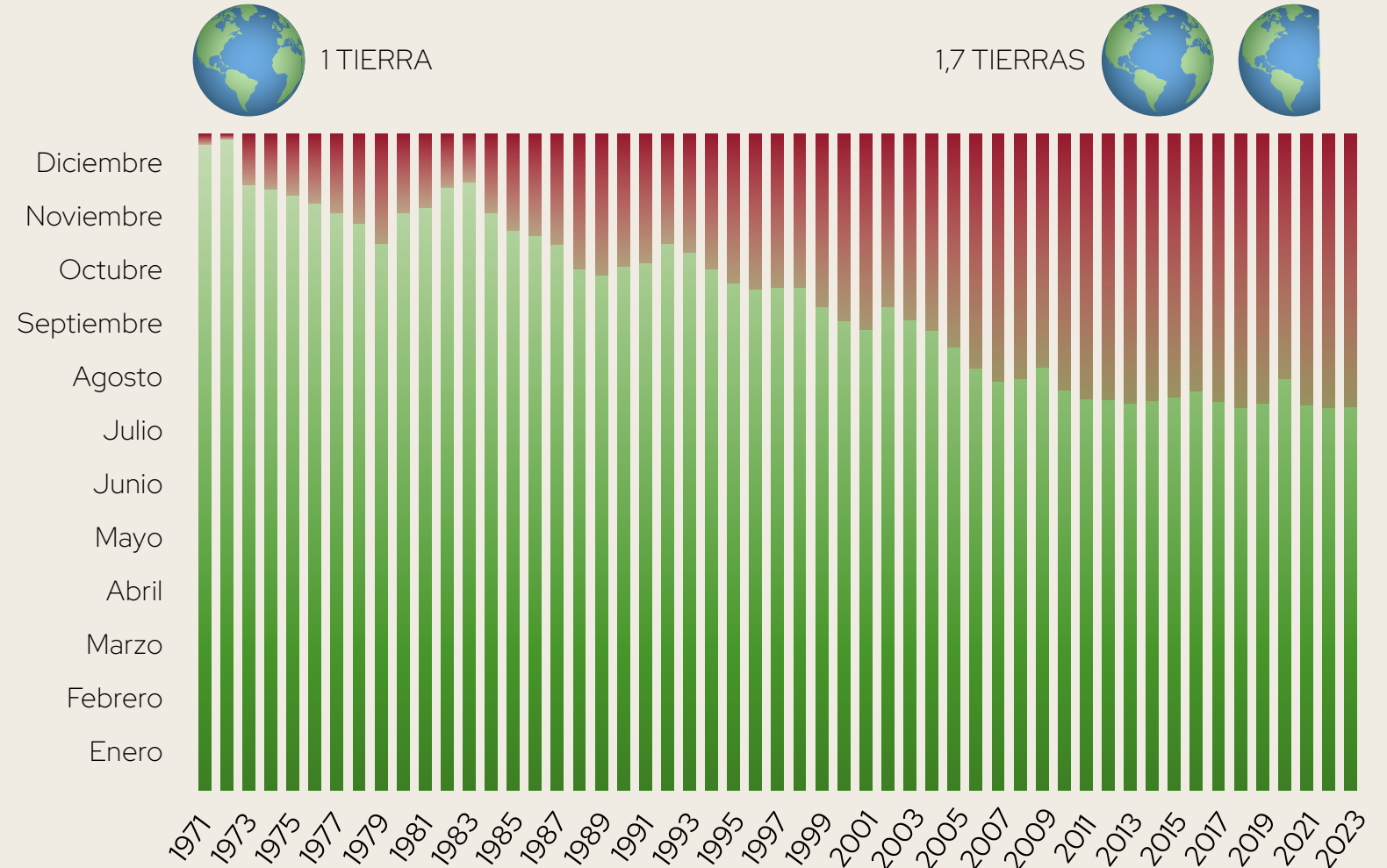


Días de Exceso

El Día del Sobregiro de la Tierra se calcula dividiendo la *Biocapacidad* del planeta (la cantidad de recursos ecológicos que la Tierra es capaz de generar ese año), por la *Huella Ecológica* de la humanidad (la demanda de la humanidad para ese año) y multiplicando por 365 (el número de días de un año).

VELOCIDAD DE CONSUMO

DÍA DEL SOBREGIRO DE LA TIERRA (1971-2023)





CO₂ Emissions

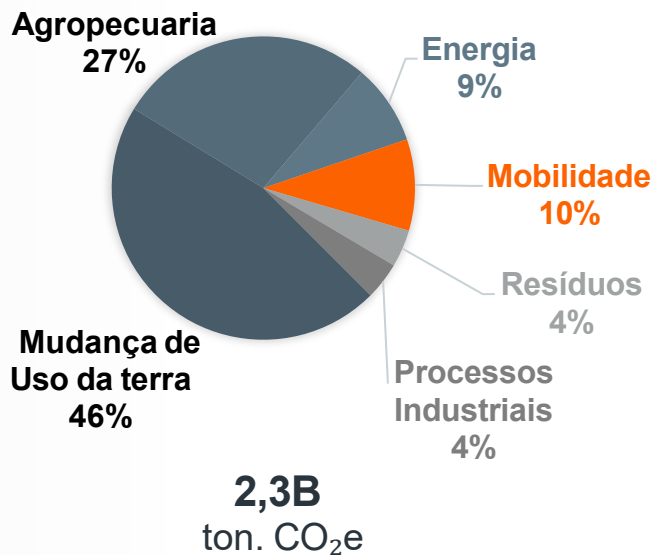
Mobility Brasil

(t) CO₂eq

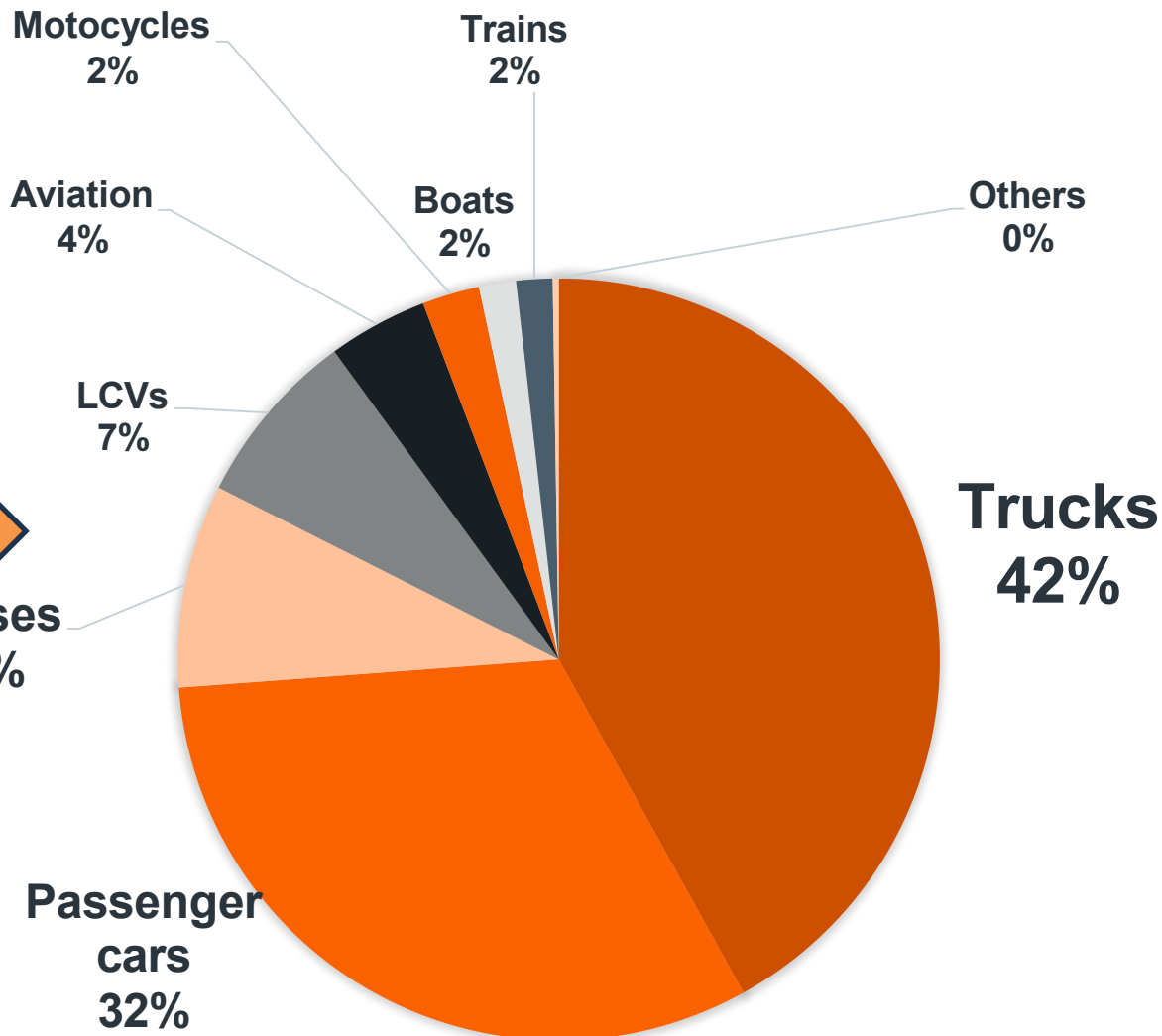
Emissões de CO₂

Total Brasil 2023

(t) CO₂eq



Buses
9%

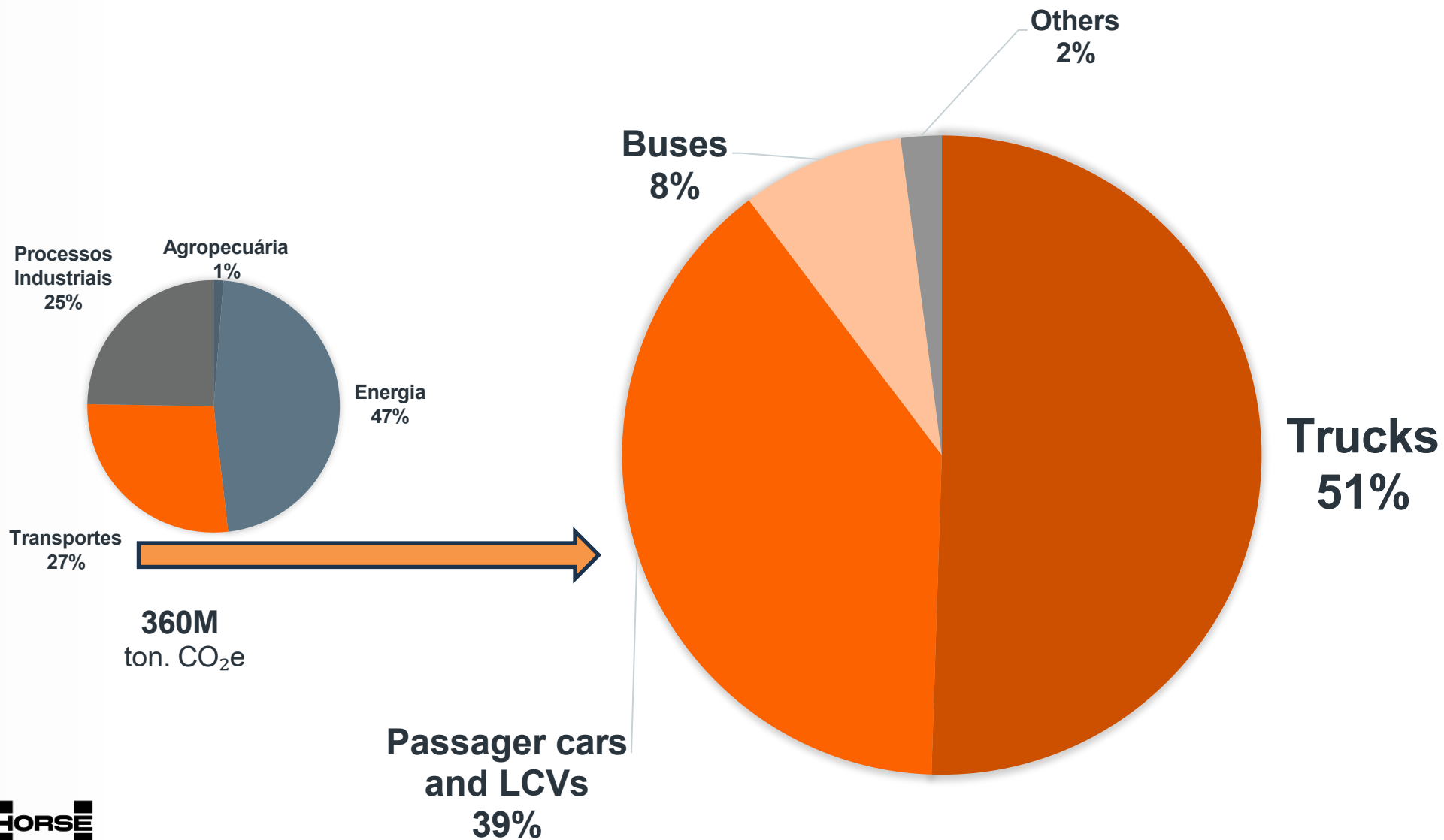




CO₂ Emissions

Mobility Argentina

(t) CO₂eq



PC TECHNOLOGY



EUROPE



CHINA

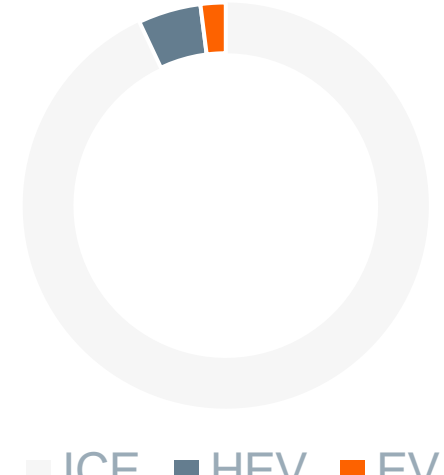
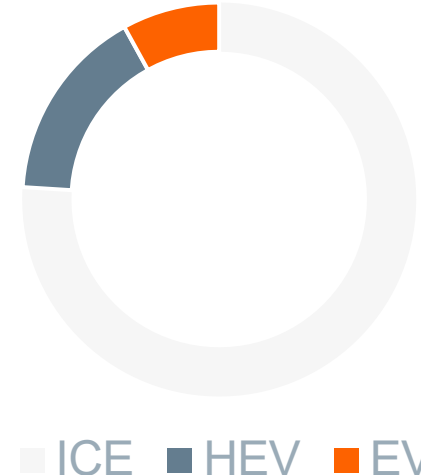
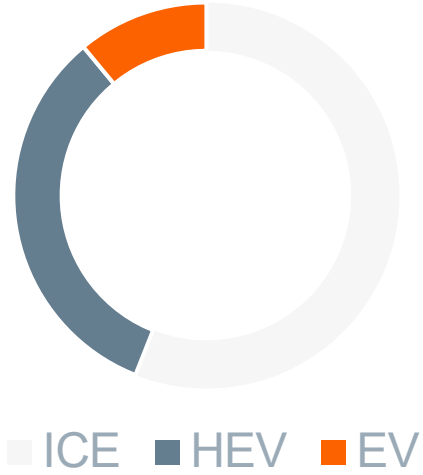


USA



LATAM

2025



2030



HEAVY-DUTY TECHNOLOGY



EUROPE



CHINA



USA



LATAM

2025



ICE HEV/H2 EV



ICE HEV/H2 EV

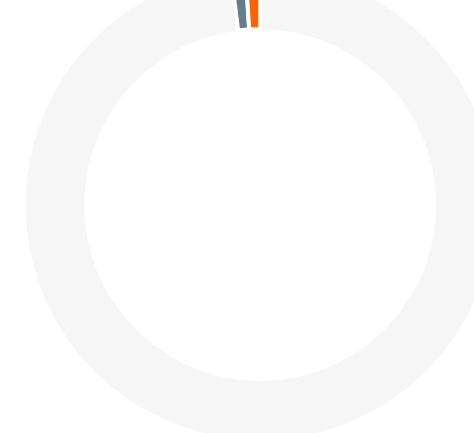
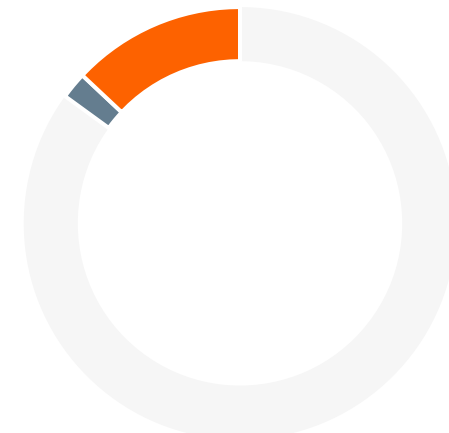


ICE HEV/H2 EV



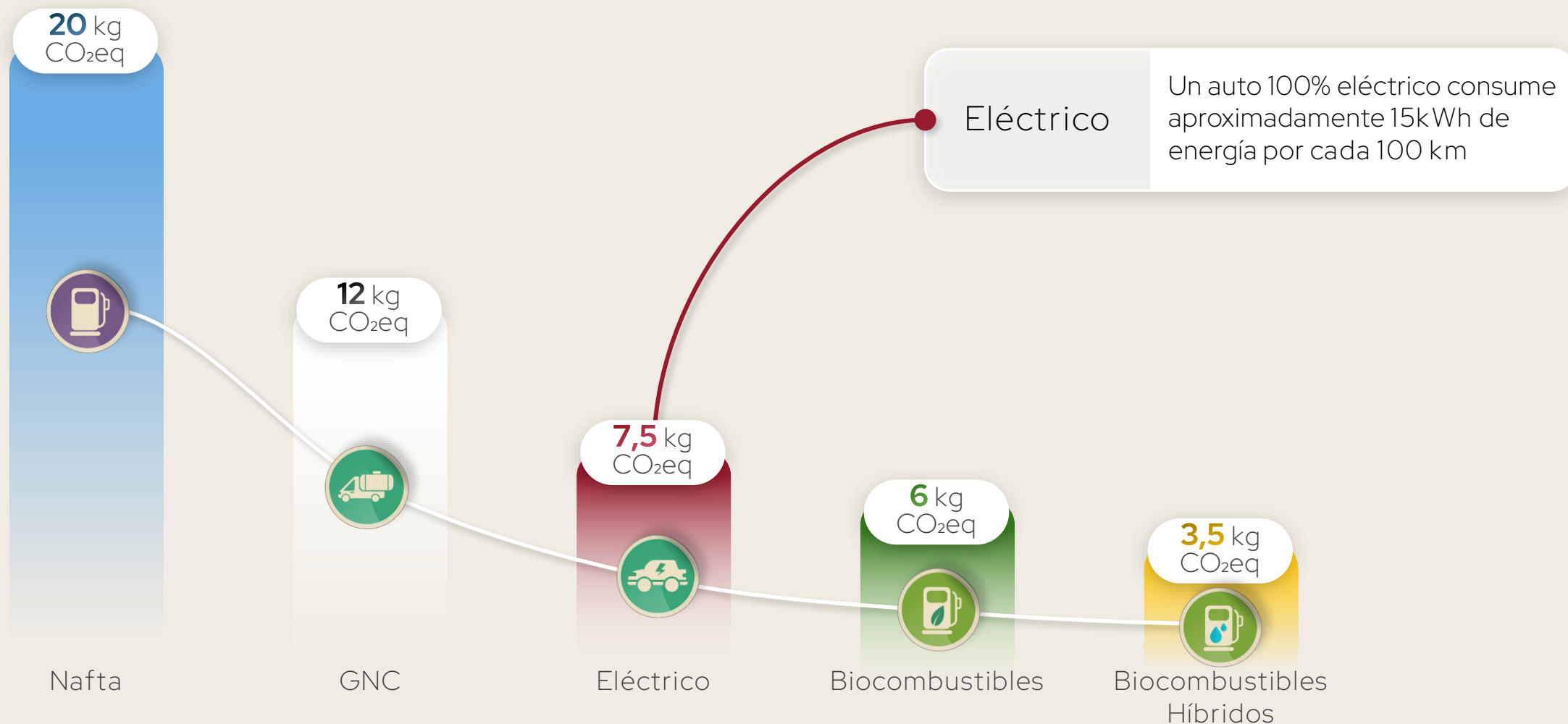
ICE HEV/H2 EV

2030

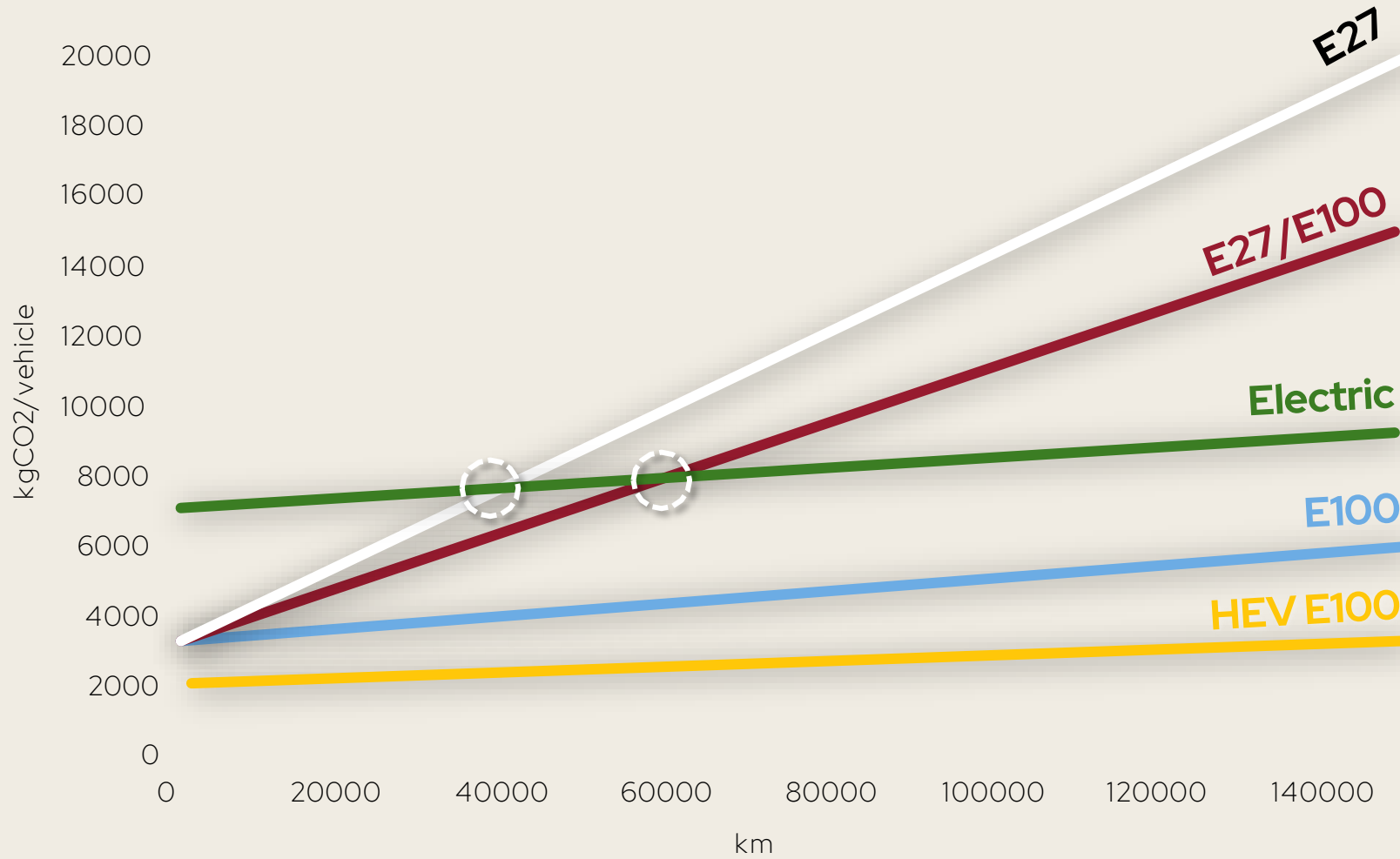


Alternativas de Plataformas para Movilidad en Argentina

CADA 100 KM



EMISIONES BIOCOMBUSTIBLE (ETANOL) VS ELECTRIC



Acelerar La
descarbonización

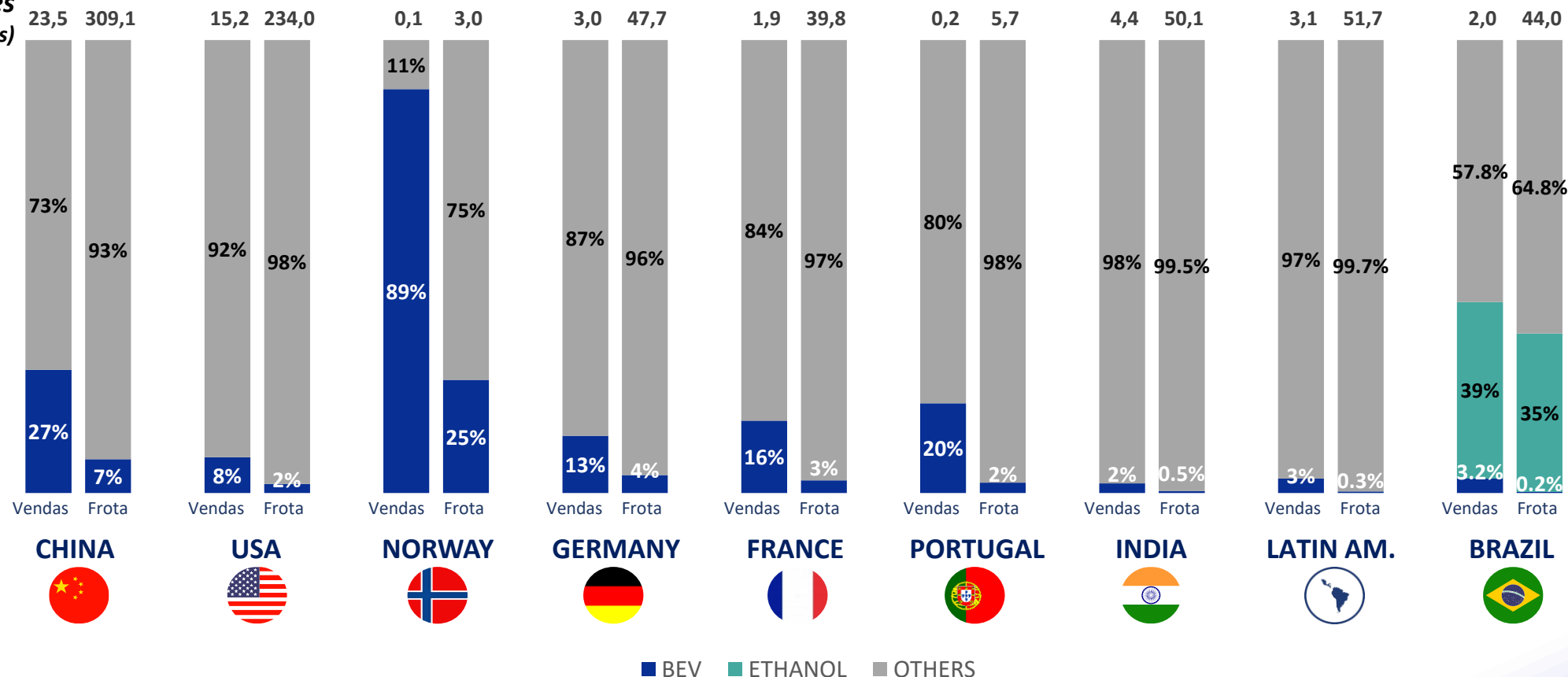


Alineado para obtener
niveles de CO2 competitivos
con optimización en la
producción y en el ciclo de
vida / uso del vehículo.

LOW CARBON VEHICLES FLEET

SALES / CAR FLEET - PASSENGER VEHICLES EM 2024

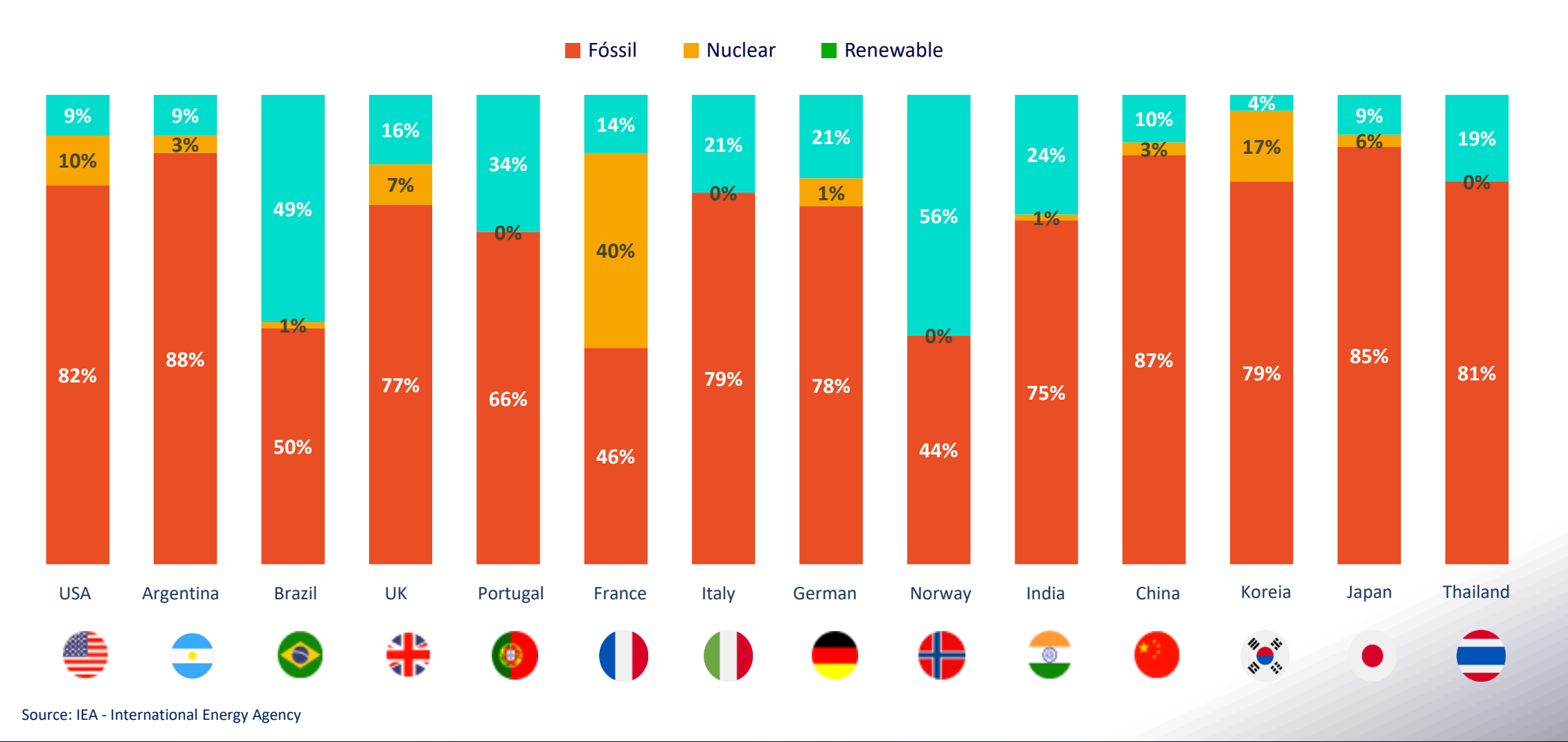
Volumes
(MM units)



ENERGY MATRIX PROFILE - GLOBAL



COMPARISON BY COUNTRY – FOSSIL, NUCLEAR AND RENEWABLE



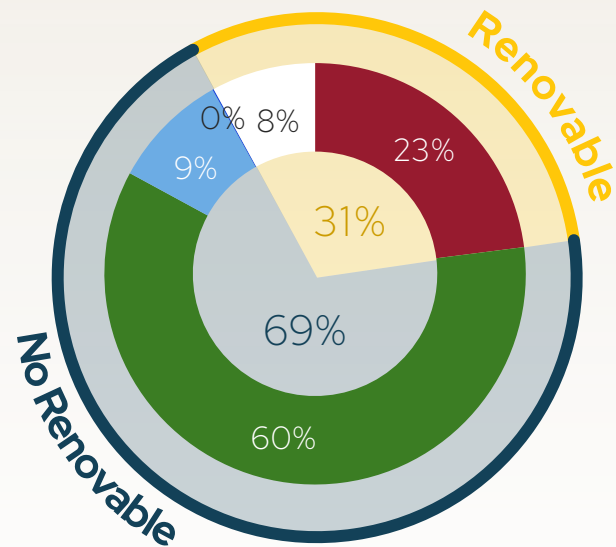
Oferta Eléctrica Nacional Argentina (21:30hs del

04/04/2024)

17.913 MW

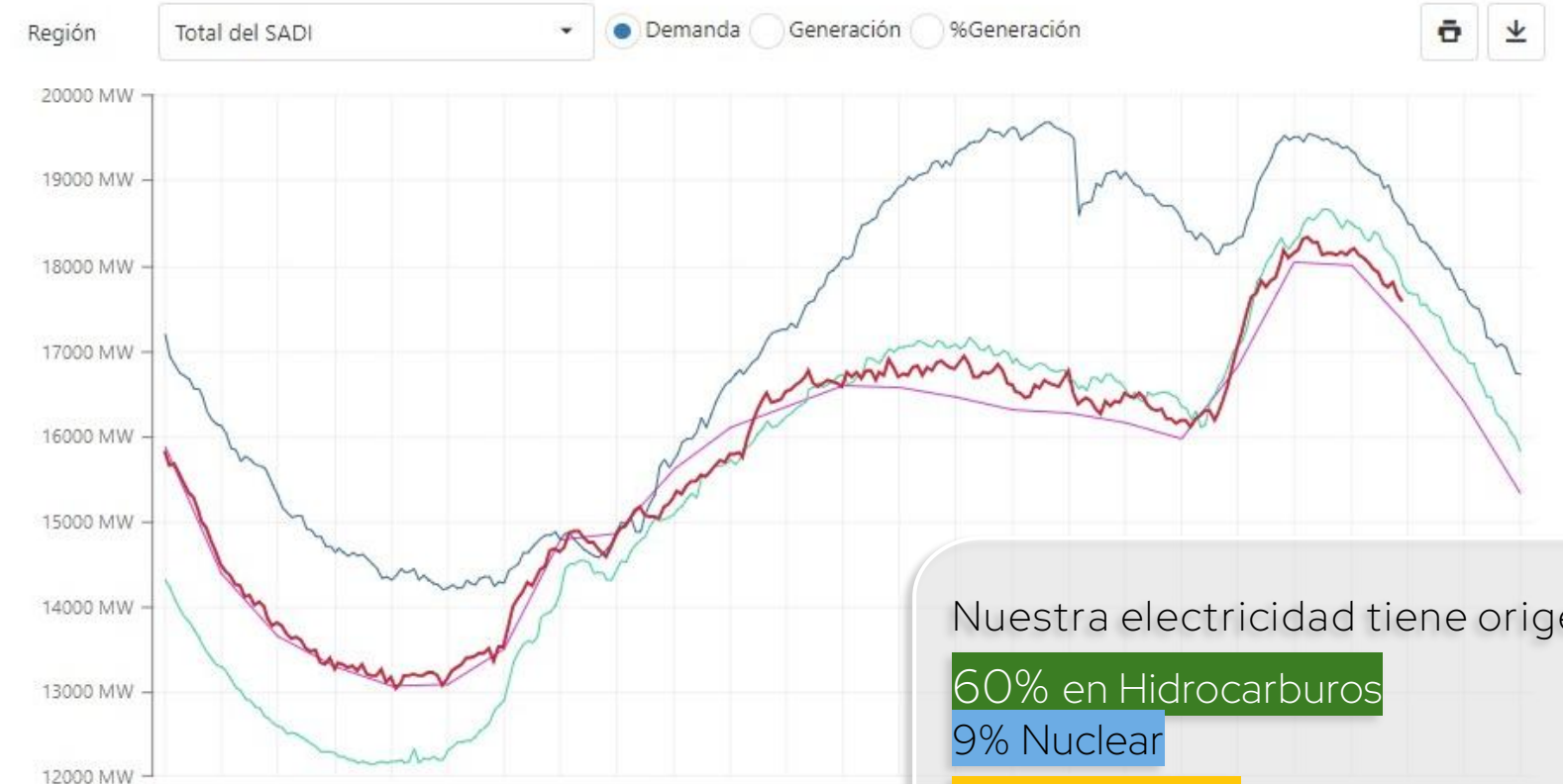
Actualizado a las 21:30hs

Matriz de Generación Eléctrica
% de participación



- Renovable Ley 26.190
- Nuclear
- Térmico
- Renovable Hidro>50MW
- Importación

Demanda Real (MW) - Temp. Promedio de GBA y Litoral °C



Nuestra electricidad tiene origen

60% en Hidrocarburos

9% Nuclear

31% Renovable

ALTERNATIVE POWER

IVECO

IVECO - PE Alternative Traction

Fabio Nicora – Chief Engineer Alternative Traction

Cordoba, Argentina, August, 08 2025

IVECO • GROUP

EM TODOS OS CAMINHOS DA SUSTENTABILIDADE



EFICIÊNCIA
ENERGÉTICA



GÁS NATURAL



BIOMETANO



ELÉTRICOS



HIDROGÊNIO

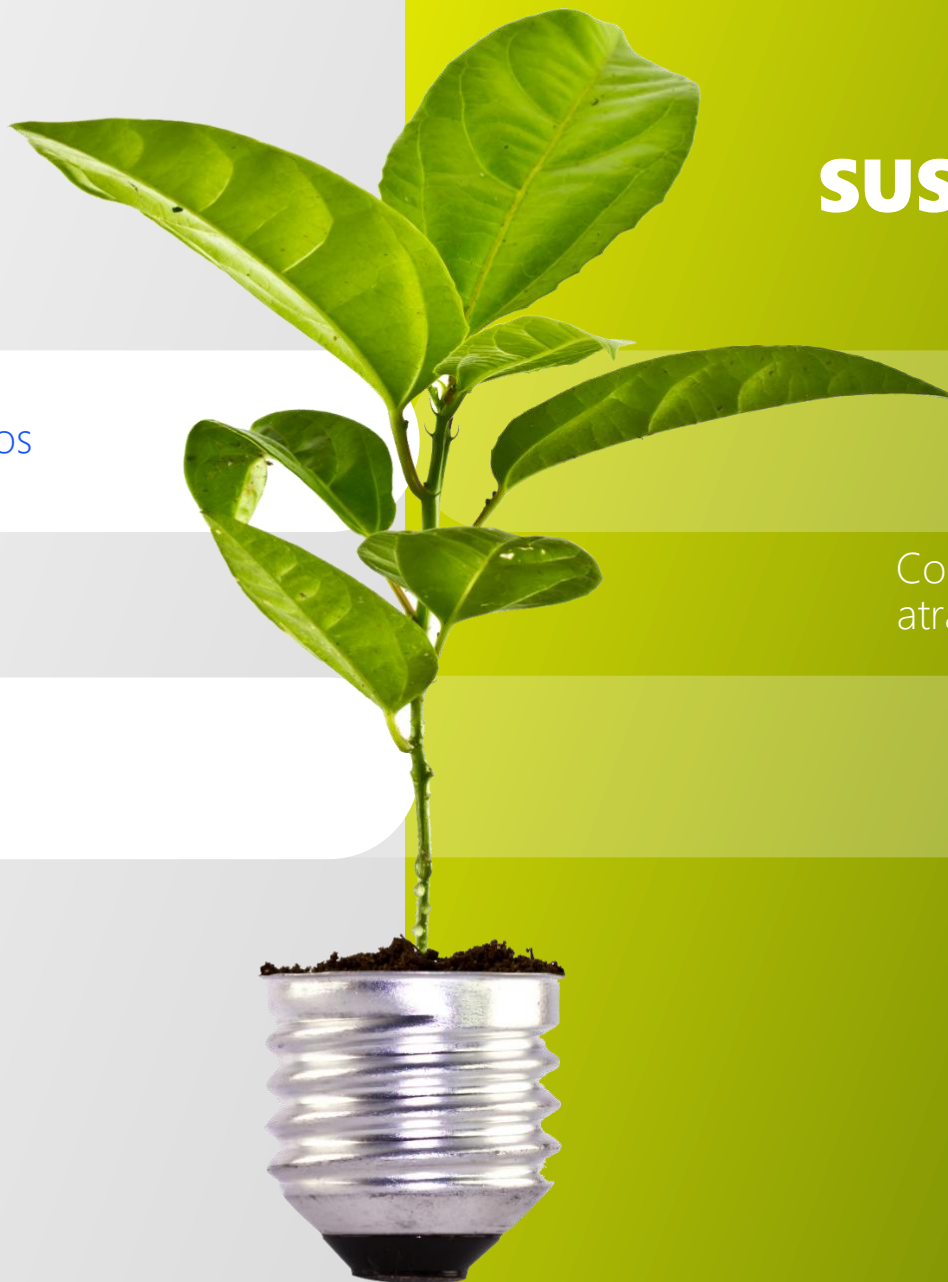
SUSTENTABILIDADE AMBIENTAL

Menor emissão de CO₂, nox e particulados

Energias alternativas para diferentes missões

Normas mais exigentes para diesel

Menor descarte de insumos nas manutenções



SUSTENTABILIDADE ECONÔMICA

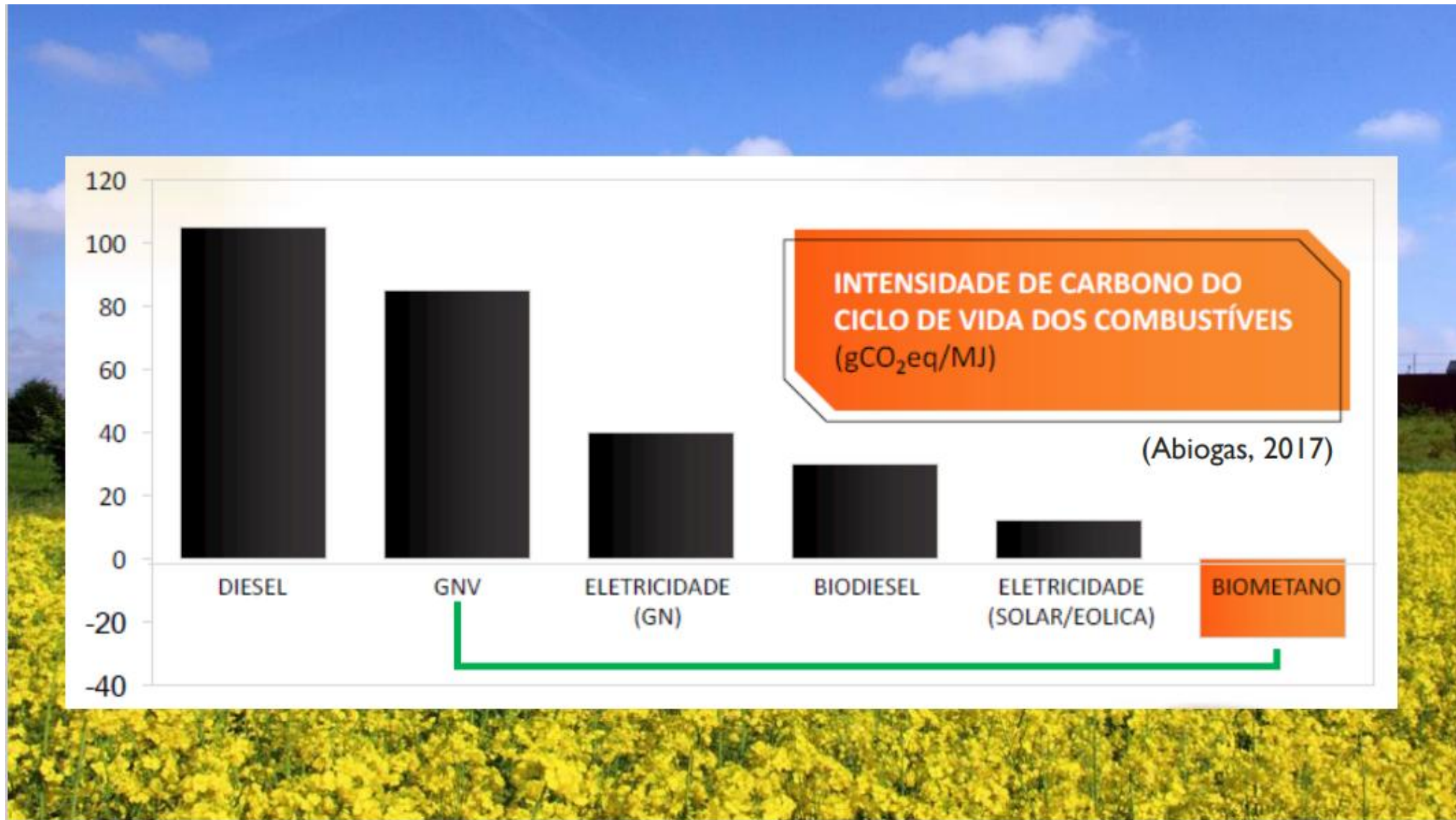
Rentabilidade nos negócios

Combustíveis alternativos com preço atraente (biometano como destaque)

Menor consumo de combustível
Maior economia operacional

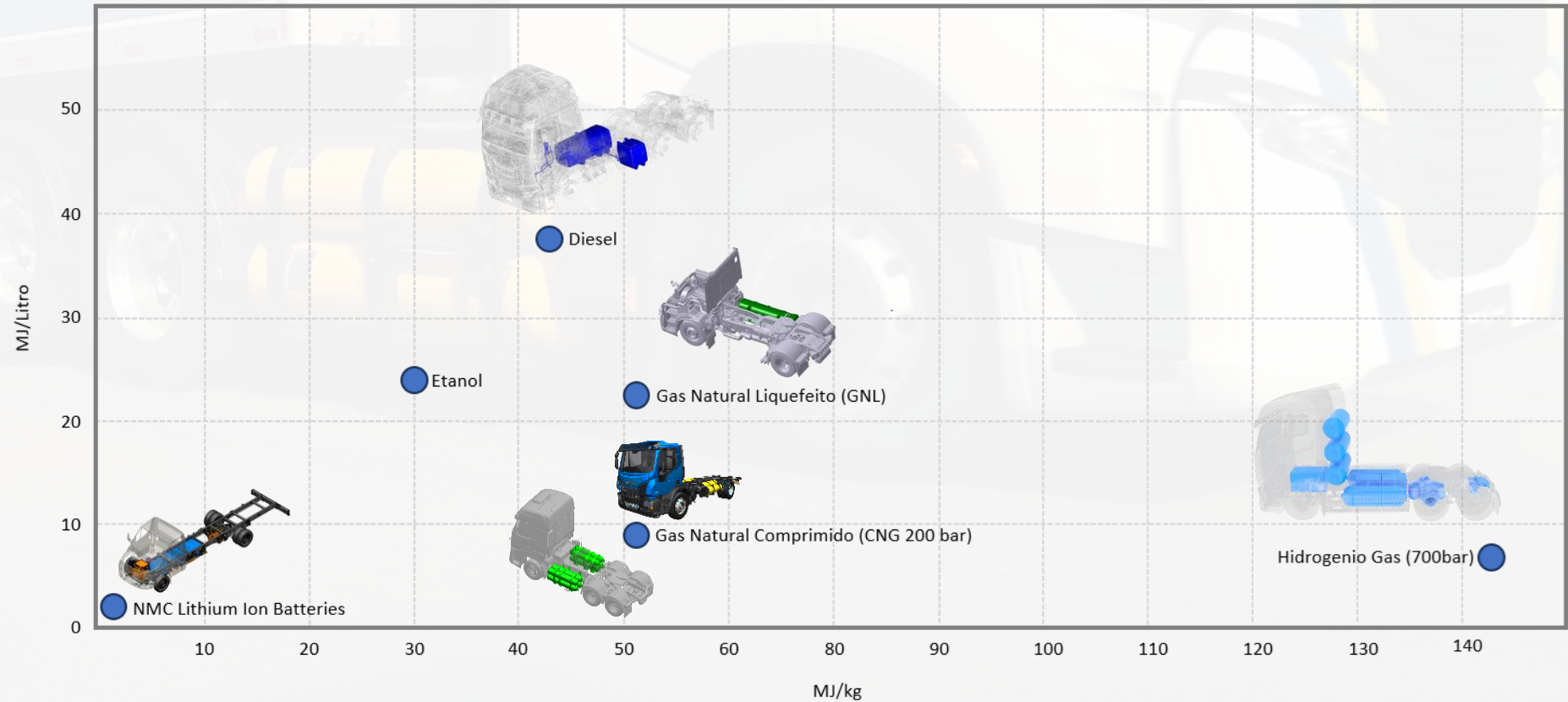
Soluções confiáveis com simples manutenção e custo reduzido

INTENSIDADE DE CARBONO DO CICLO DE VIDA DOS COMBUSTÍVEIS



DENSIDADE DE ENERGIA

COMPARATIVO DENSIDADE DE ENERGIA ESPECIFICA E VOLUMETRICA



E-DAILY

Battery on frame – From 3,5t to 7,2t



Front Electrification Module / base battery pack

- **Base battery pack**
1 batt 37kWh
- On Board Charging:
11kW AC – 22kW AC
(1 battery 2h)
- Off Board charging:
80 kW DC Fast charge (1h)

One fit for all versions



Modular layout

- Total vehicle energy: **up to 3 battery packs**
- **1 or 2 additional batteries** depending on wheelbase
- **Smart wiring concept** for weight/complexity reduction
- **Fuel Cell** protected

Modularity



Electric Powertrain

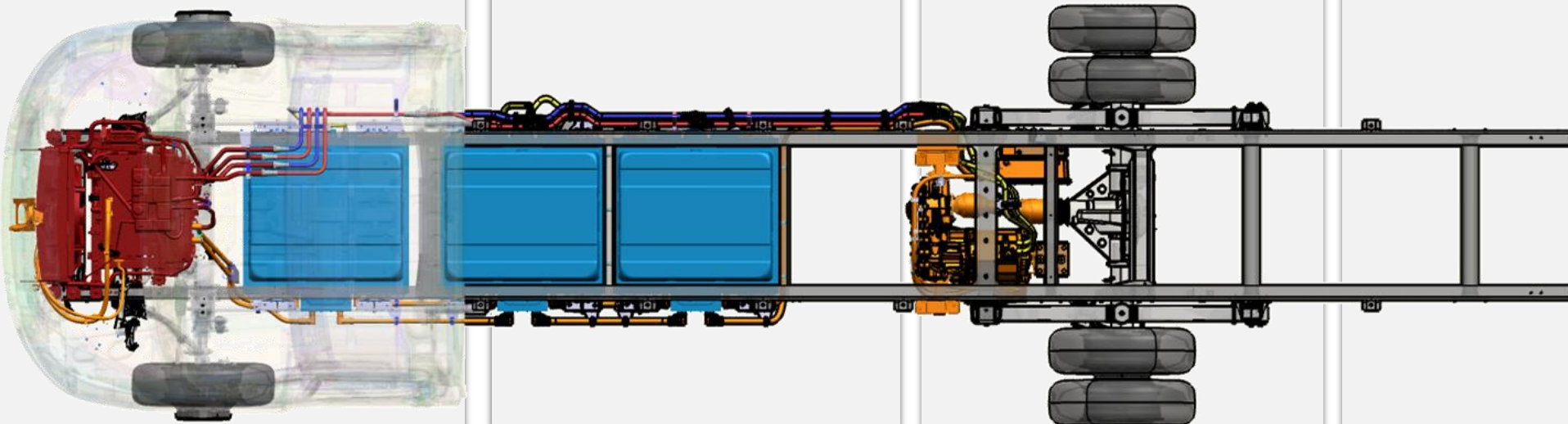
- **Compact rear central drive concept**
- **High efficiency electric motor**
- **140kW** peak power (limited to 100kW for 3,5t version)
- **One transfer box with park pawl**, single reduction

One fit for all versions

Chassis frame

- **Free rear** overhang for bodybuilder
- **Same chassis provisions as diesel**
- No components installation **outside frame**

Bodyability





BIOMETANO: ATÉ -120% * DE REDUÇÃO DE CO₂ DO POÇO À RODA DEPENDENDO DA MATÉRIA PRIMA. EM MÉDIA REDUÇÃO DE ATÉ -95%

BIOMETANO:
- 90% NOX

BIOMETANO:
- 85% PM

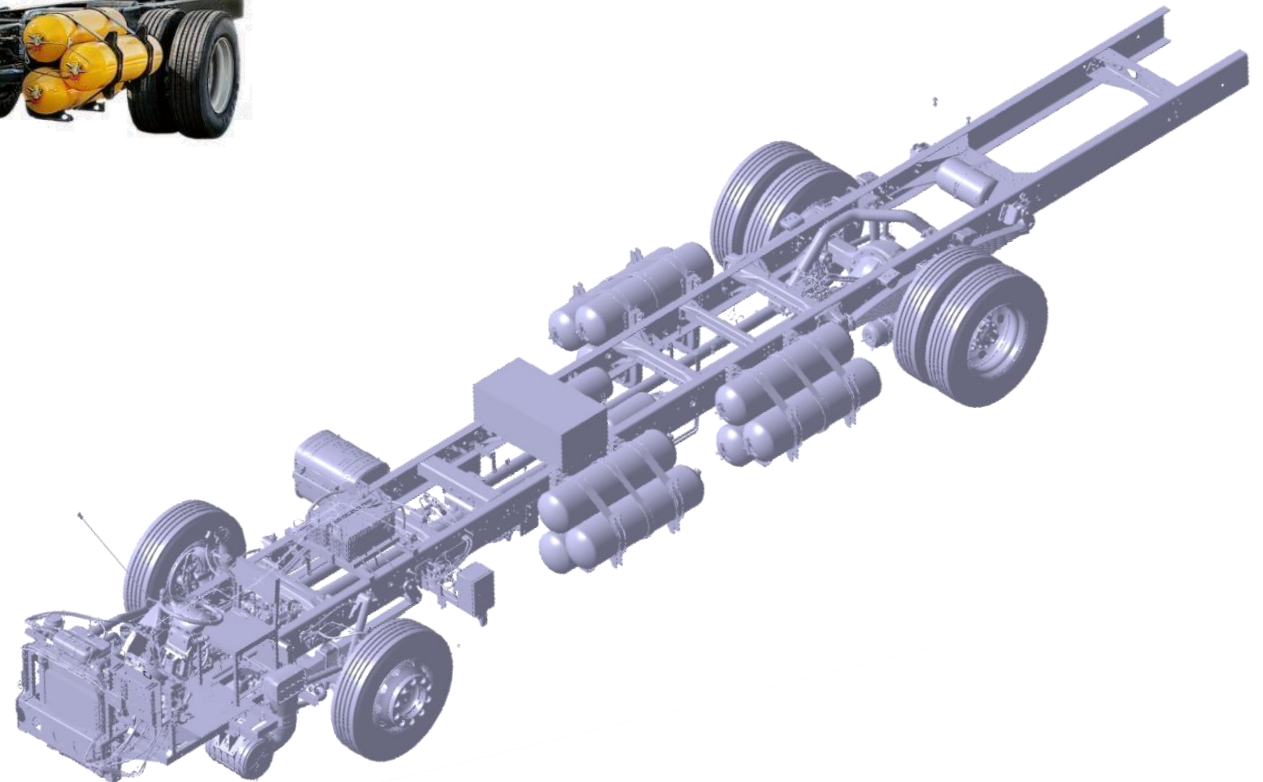


(*) Dados da EBA (European Biomethane Association)

BUS I7-210 CNG

CHASSIS CNG/BIOMETANO

IVECO
BUS



ESTRATÉGIA DE ESG PARA O IVECO GROUP

Nossas prioridades em Sustentabilidade

PEGADA DE CARBONO

Reduzir as **emissões de CO₂** em nossos processos de produção, em toda a cadeia de valor (suprimentos e logística) e em nossa linha de produtos, visando atingir **carbono zero até 2040**



SEGURANÇA DE PRODUTO E NO LOCAL DE TRABALHO

Minimizar o risco de lesões no local de trabalho por meio de medidas preventivas e de proteção eficazes e assegurar que os produtos da empresa tenham **os mais elevados padrões de segurança**



INCLUSÃO E ENGAJAMENTO

Desenvolver **relacionamentos cada vez mais sólidos** com as partes interessadas, continuando a trabalhar de forma proativa e competente para criar um ambiente de trabalho inclusivo



PERSPECTIVA DE CICLO DE VIDA

Implementar soluções que minimizem eficientemente o impacto dos **produtos e processos** por meio de uma **abordagem circular de ciclo de vida do produto**



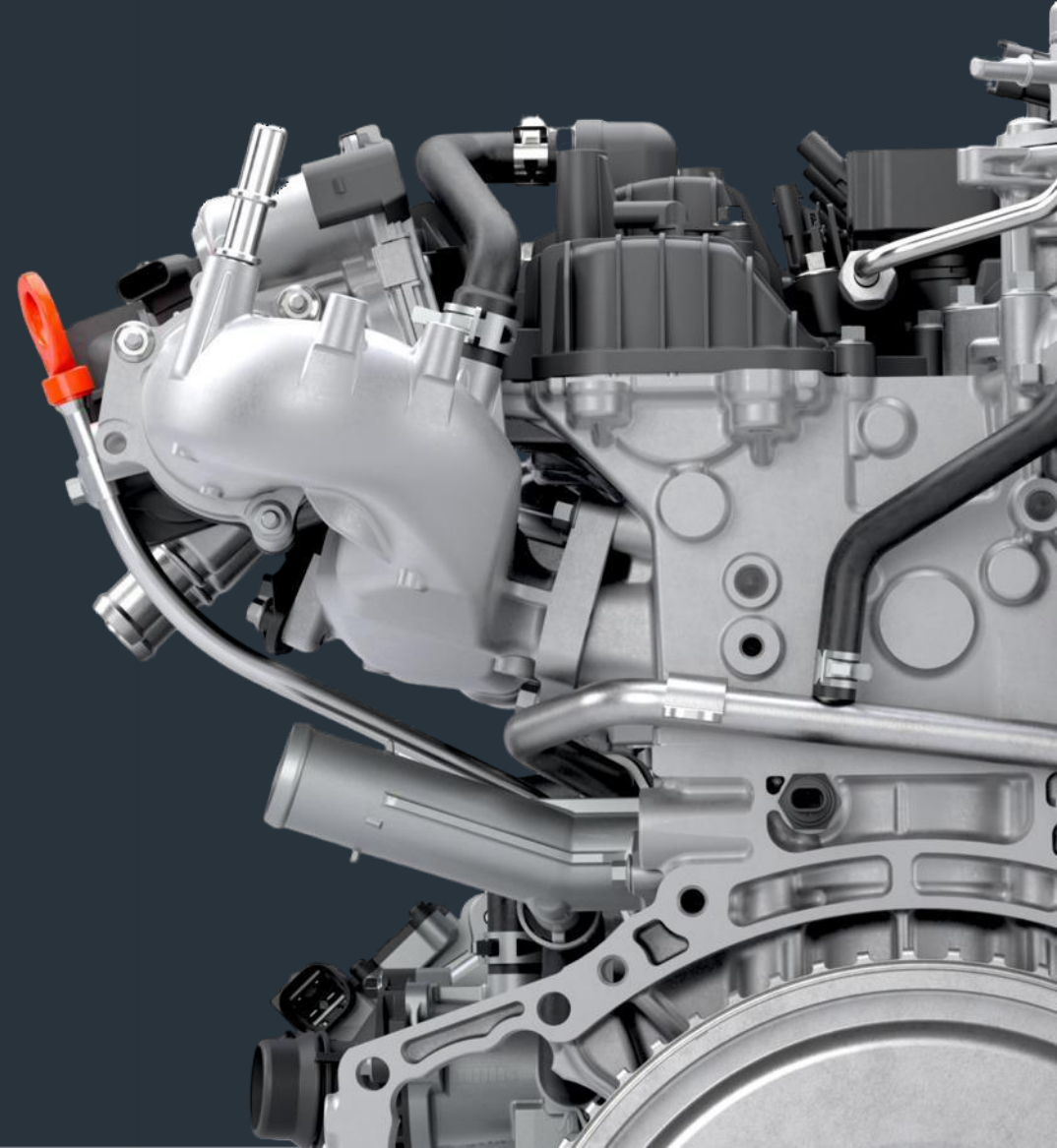


RANGE EXTENDER : A NEW ALTERNATIVE FOR DECARBONIZATION

About Horse Technologies

A Horse Powertrain division, a new business for powertrain solutions, with more than 125 Years Renault and Geely experience

We develop ways for decarbonizing the Mobility for all. We have the experience, scale and innovation to reach all



EV TOUGH POINTS



~US\$ 115/kwh



China ~1,7M
EUR ~0,5M
US ~0,1M
BR ~5k

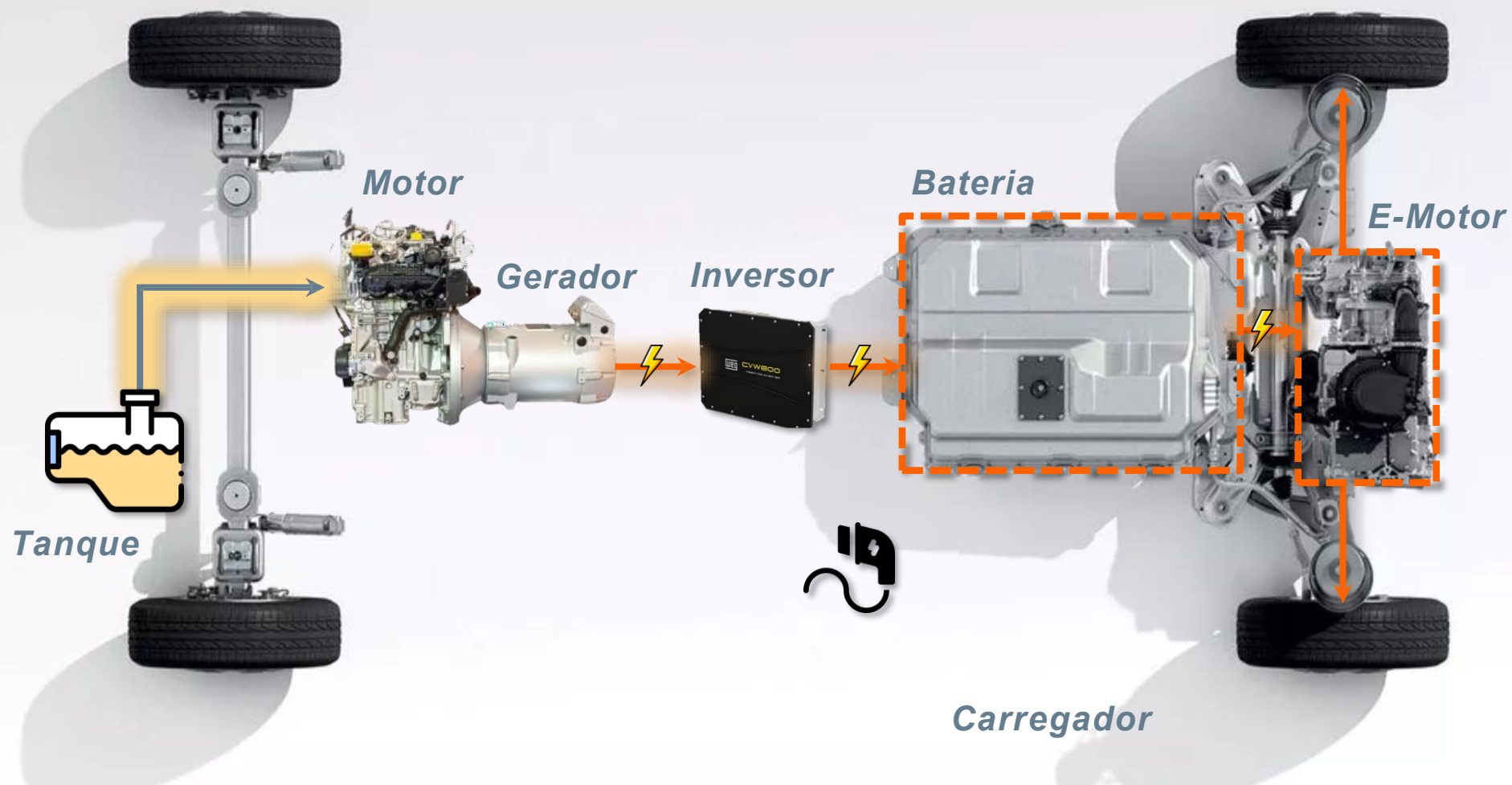


From 200 to 500km

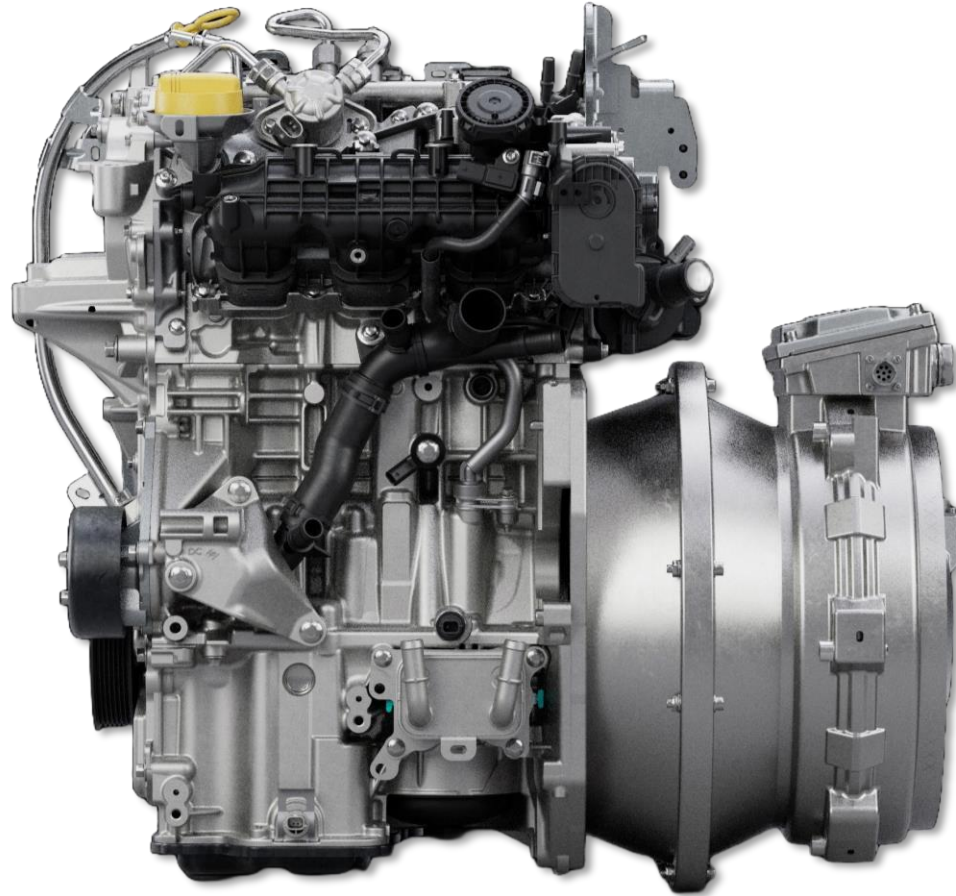


From ~40min to
~8h

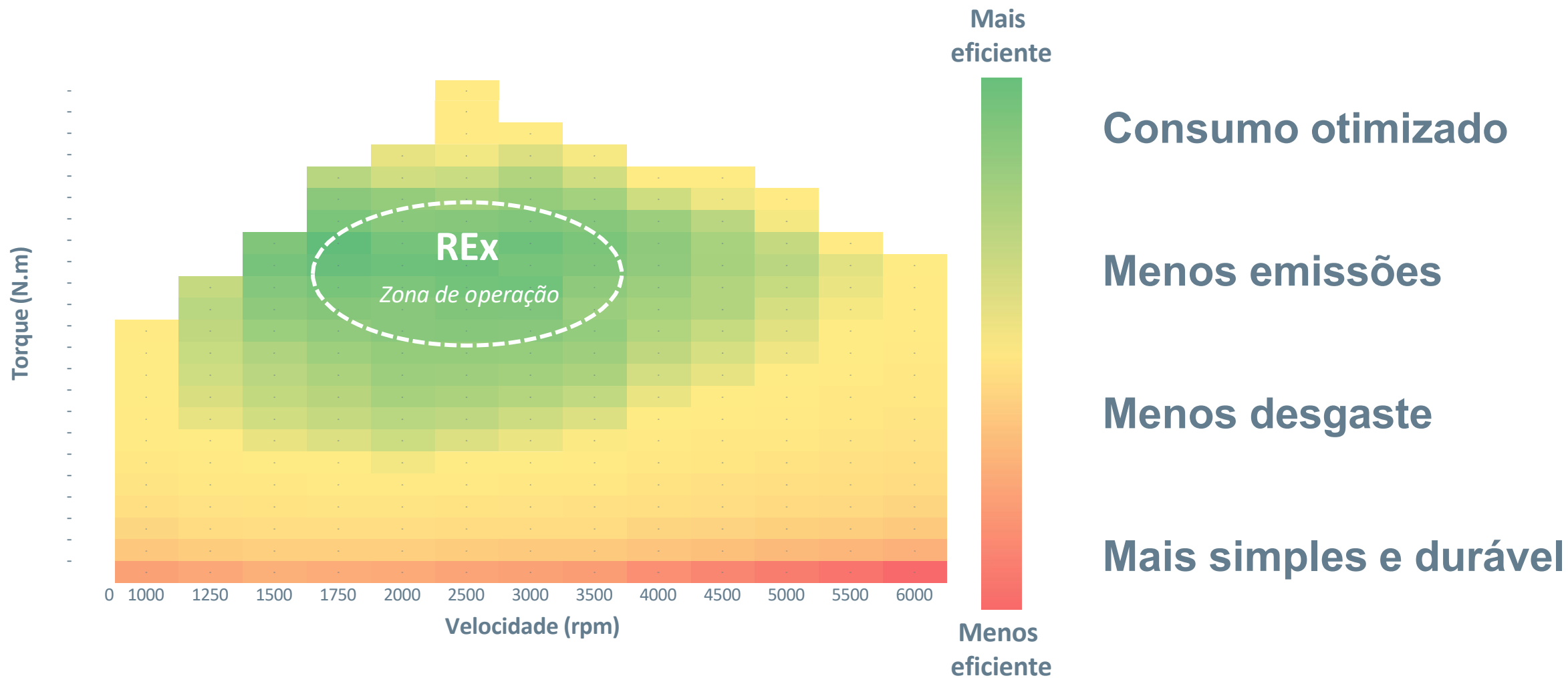
REX = RANGE EXTENDER



MODULAR SOLUTION



REX : High





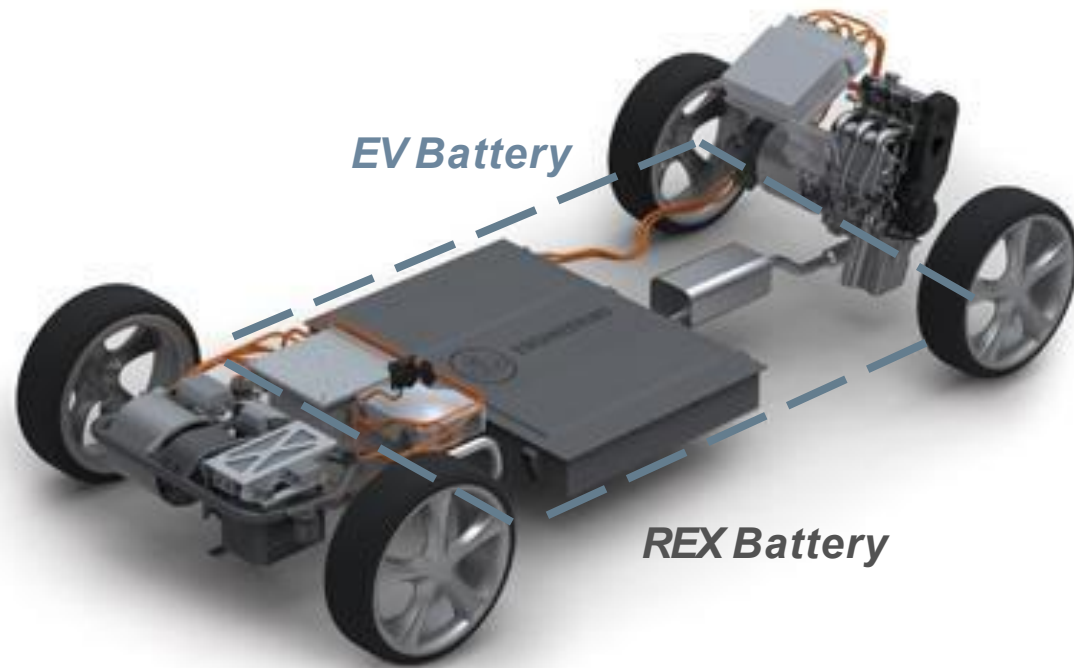
+100kW



25kW



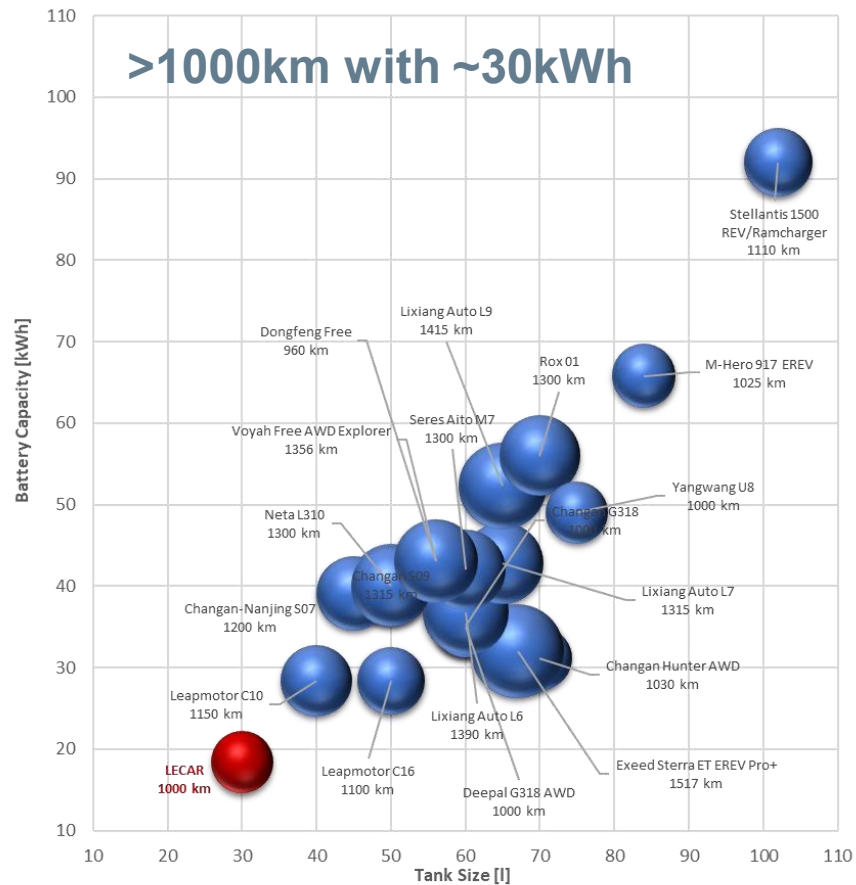
REX : Cost competitive compared to EV



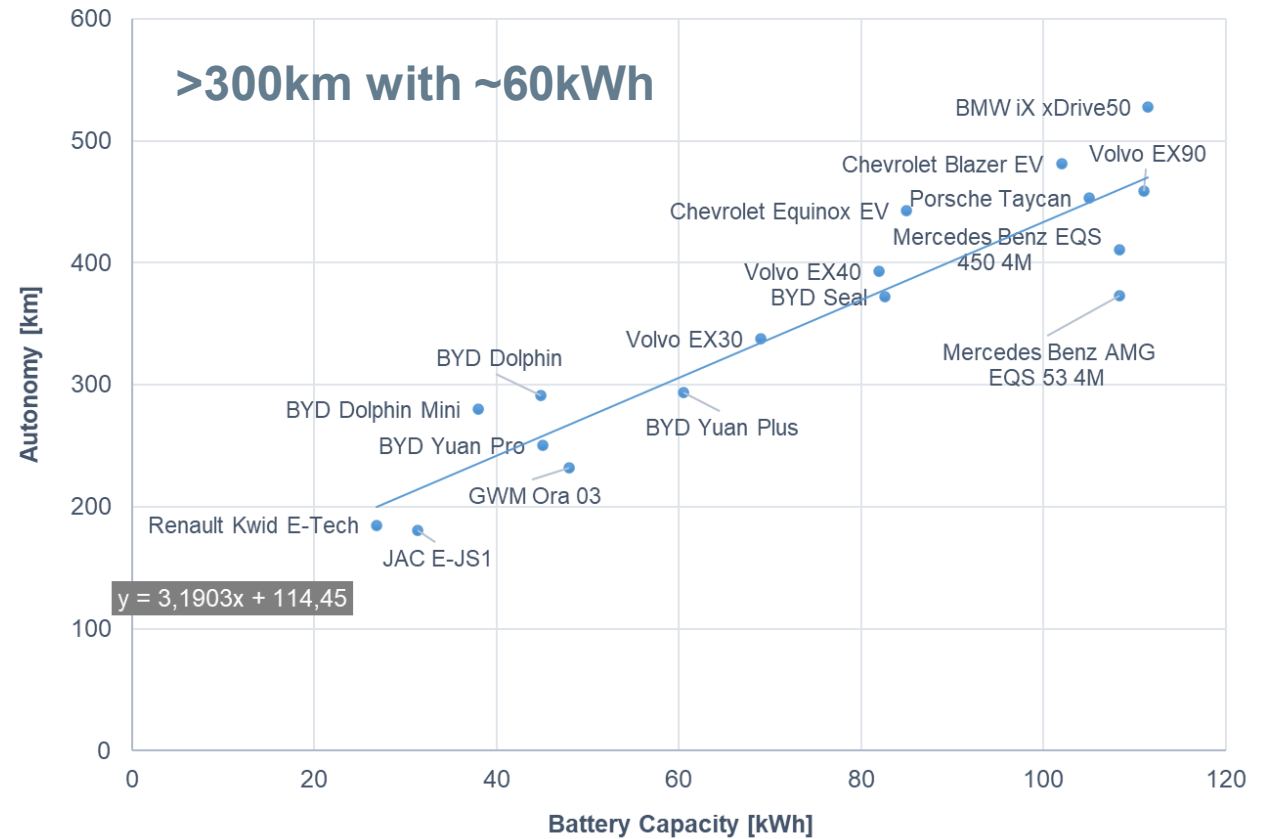
>50% Battery removal

**Battery sizing for
economical
convergence**

REX : Autonomy compared to EV



BEV (Autonomy from INMETRO)



REX : Competitive clean tech as EV



EV Drive –
Zero Emissions



Charging



INTELLIGENT ENERGY MANAGEMENT

Smart energy
management

Avoiding emissions in
cities

Prioritize electric
charging OR high
power request

ELECTRIC MATRIX

AUTONOMY

INFRA

BIOFUELS

INCENTIVES

RESTRICTIONS





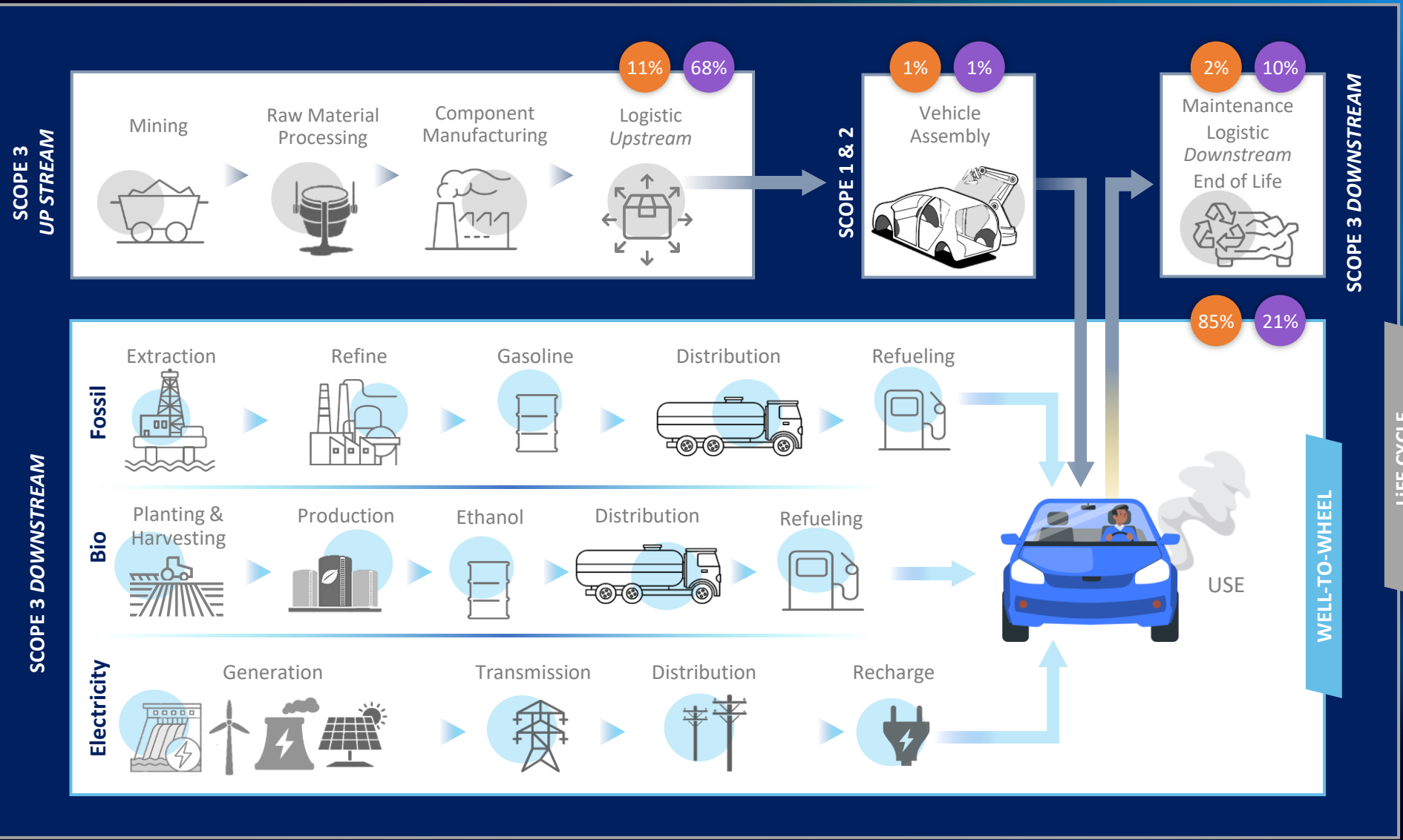
DECARBONIZATION AND LOCAL DEVELOPMENT STRATEGY

JOÃO IRINEU MEDEIROS

VICE PRESIDENT OF REGULATORY AFFAIRS AT
STELLANTIS SOUTH AMERICA



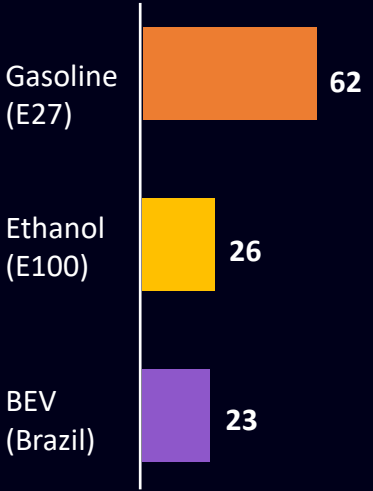
LIFE CYCLE ASSESSMENT IN BRAZIL



LEGENDA

- Gasoline
- BEV

(tonCO2e/veh)
"Segment C" Vehicle



CARBON NET ZERO PROGRAM



GREEN MATERIALS



TECHNOLOGICAL ROADMAP



GREEN ENERGY



LOGISTIC PROCESS OPTIMIZATION



EFFICIENT PROCESS



SUSTAINABLE CUSTOMER JORNEY

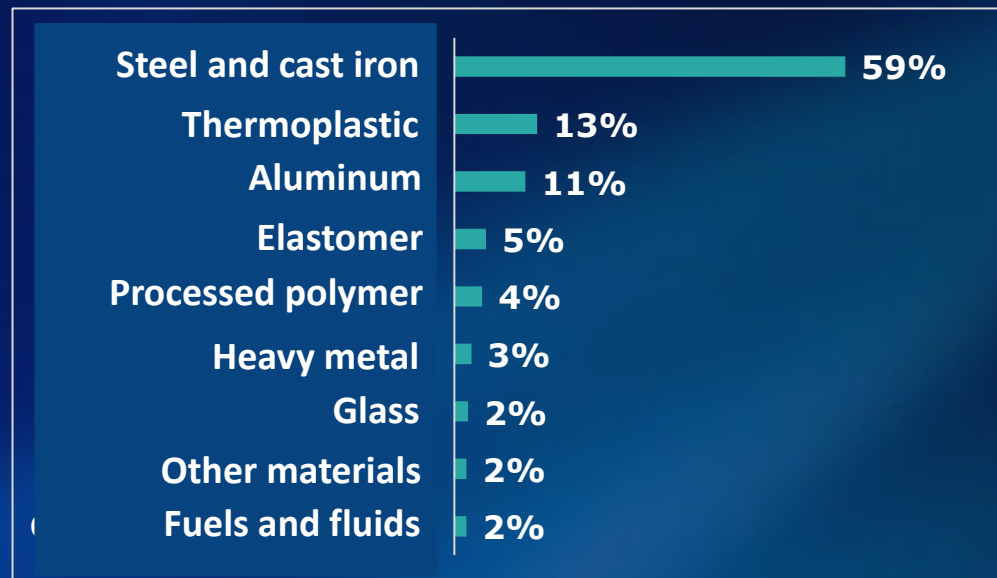


CIRCULAR ECONOMY

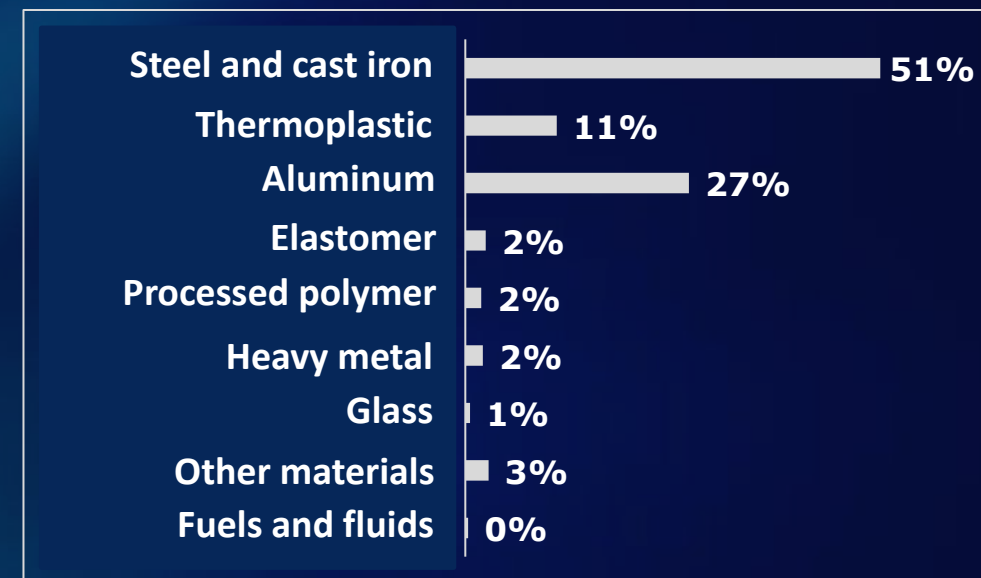


TO PRODUCE A VEHICLE (GaBi Databases, EUROPEAN EMISSION FACTOR)

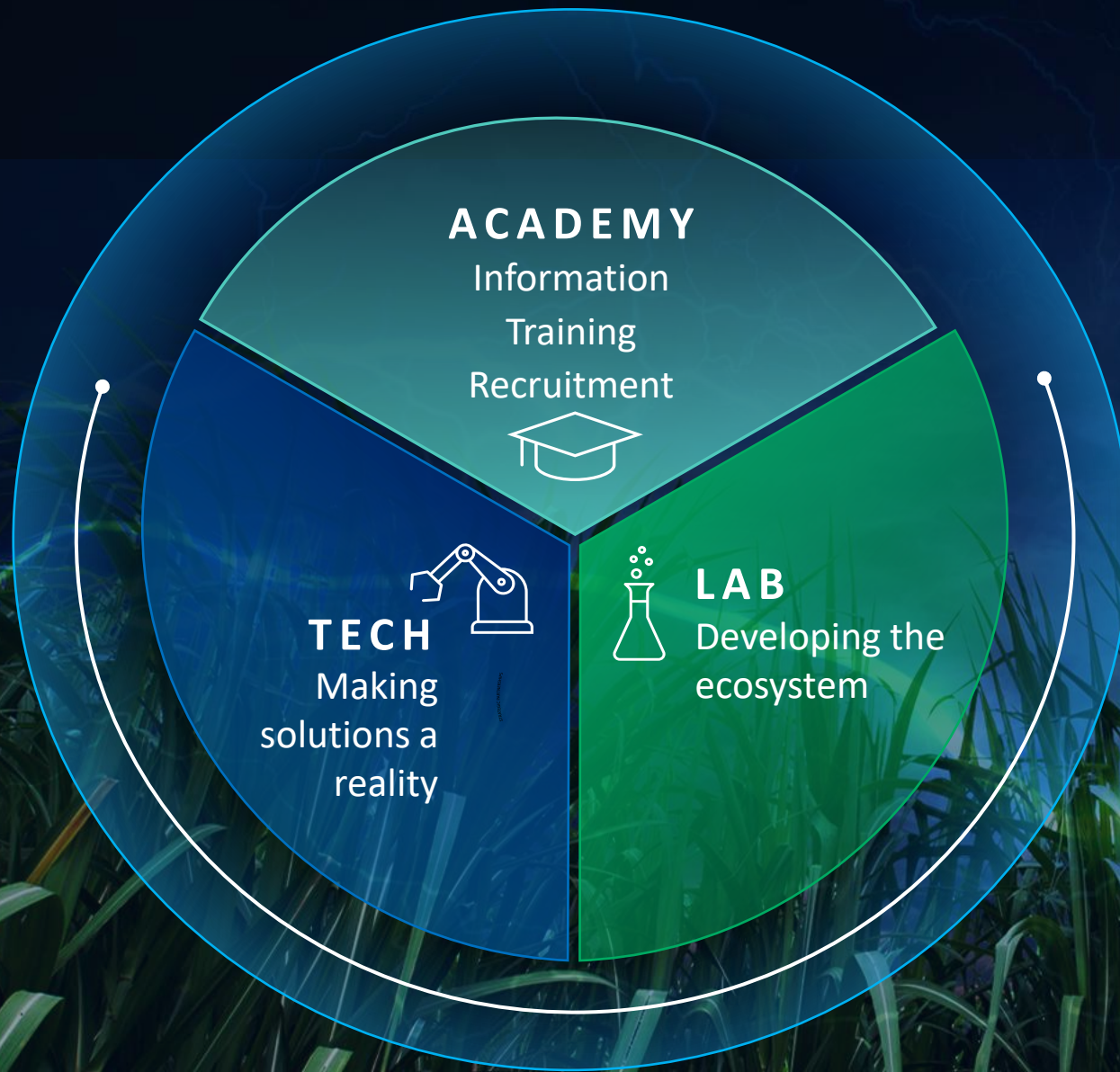
% MASS OF RAW MATERIAL



% CO2 EMISSION /



STEEL, CAST IRON, THERMOPLASTICS, AND ALUMINUM ALLOYS ACCOUNT FOR 90% OF TOTAL CO2 EMISSIONS



BIOELECTRO
STELLANTIS

TECHNOLOGICAL ROUTE

SUSTAINABLE & AFFORDABLE



MOBILITY ARCHITECTURES

ETHANOL / FLEX

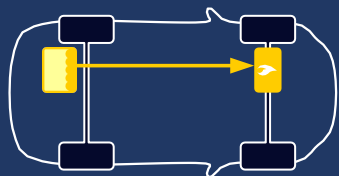
BIO-HYBRID

BIO-HYBRID
e-DCT

BIO-HYBRID
HEV

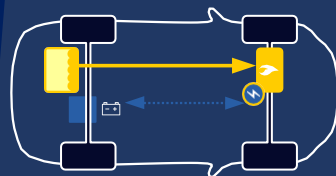
BIO-HYBRID
PLUG-IN

BEV
(100%)



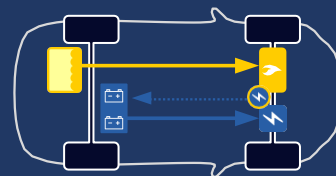
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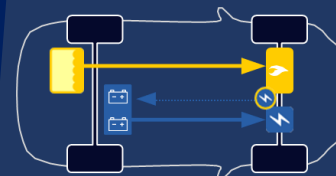
~ 3 kW

<1kWh



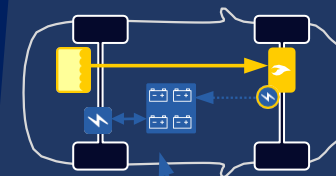
~ 3 kW + 16 kW

~ 1 kWh



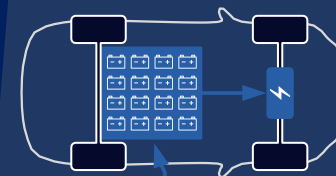
~ 40 kW

~ 1 kWh



~ 44 kW

~ 12 kWh



> 90 kW

> 60 kWh

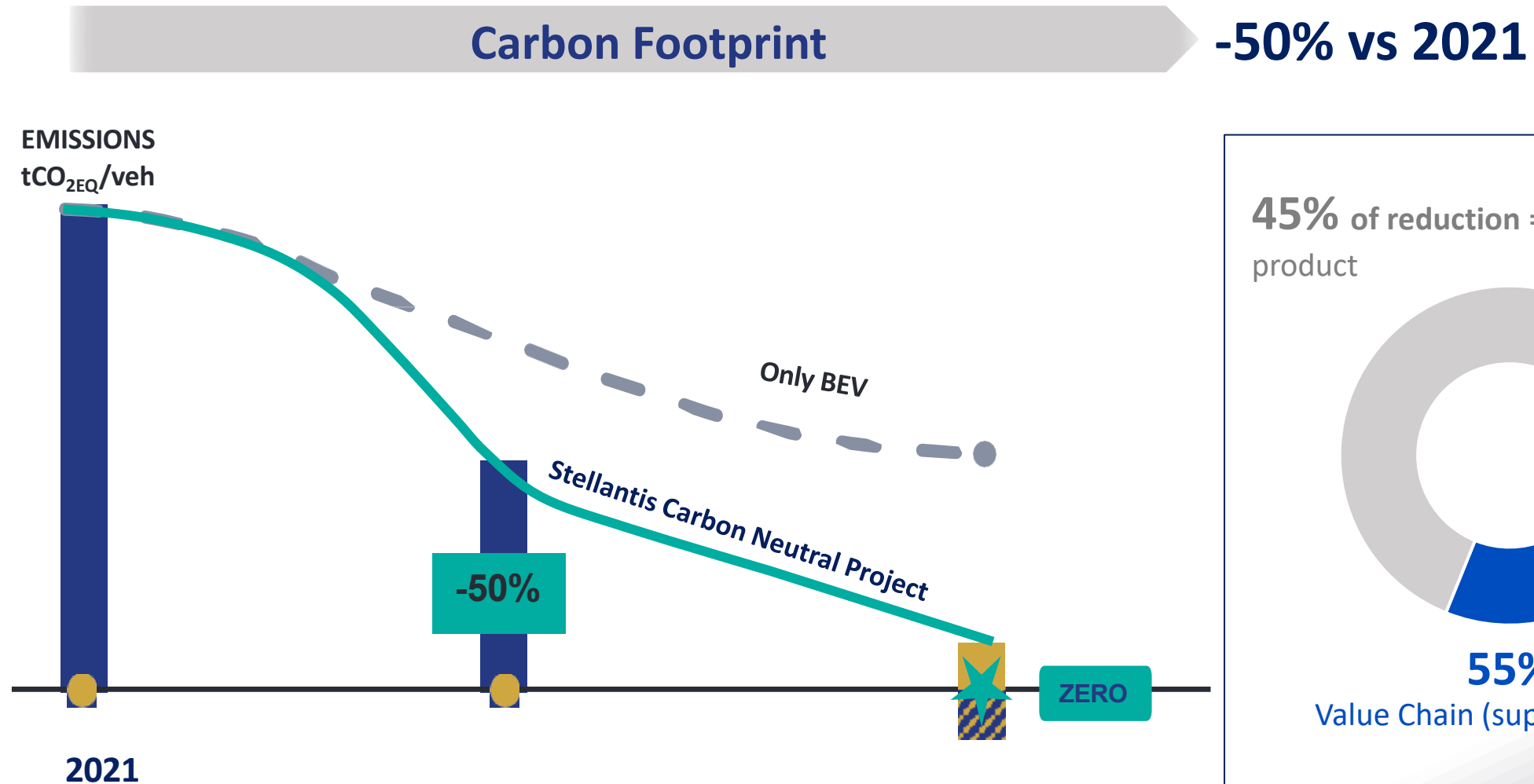
⚡ ELECTRIFICATION ⚡

■ ELECTRIC ENGINE POWER

■ BATTERY CAPACITY

CARBON NET ZERO

CHAMPION FOR CLIMATE CHANGE MITIGATION



45% of reduction =
product



55% of reduction =
Value Chain (suppliers, logistic...)

Hoja de Ruta Plataformas por Fuente de Energía en Argentina



	HOY	MAÑANA	FUTURO	IDEAL
NAFTA	NAFTA E12	NAFTA E27	NAFTA E100	
DIESEL	DIESEL B7,5	DIESEL B20	DIESEL B100	
GNV	AUTOS TRANSFORMADOS	+ TRANSPORTE PÚBLICO / CARGA	100% VHS GNV DE FÁBRICA + GARANTÍA	
ELÉCTRICO REGLA 1/ 5/ 60	HÍBRIDO ENCHUFABLE FLEX	HÍBRIDO NO ENCHUFABLE FLEX	HÍBRIDO ENCHUFABLE 100% BIO	HÍBRIDO ENCHUFABLE ZERO CO2
GENERACION ELÉCTRICA	70% TERMO-ELÉCTRICA (77% GAS / 20% FUELOIL / 3% CARBÓN)	?	100% BIOCOMBUSTIBLE RENOVABLE	

CO2 COMPENSATION

