



We electrify **mobility** for a **better tomorrow**

Siemens eMobility

**A focused
technology company**

As a **focused technology** company, we **empower our customers** to **transform** their industries and markets, helping them to **transform the everyday**.

311,000

employees¹

€72.0 bn

in revenue²

€4.4 bn

in net income³

15.1%

adjusted EBITA margin
for the Industrial
Businesses²

¹ As of September 30, 2022 | ² In fiscal 2022 | ³ Continuing and discontinued operations

We electrify mobility for a better tomorrow.



A better tomorrow starts with how we transform the today. That's why we are committed to making eMobility a part of our everyday by creating an ecosystem that connects the real and the digital worlds. Our products and solutions are smart, innovative, and efficient – thus making mobility more sustainable. To make a long story short: We electrify mobility for a better tomorrow.

eMobility Portfolio

Energizing through products, solutions and services

Siemens eMobility Portfolio Overview

VersiCharge

- Up to 22 kW
- One AC charge point
- E.g., for home, company or car park charging with longer duration



Sicharge D

- Up to 300 kW
- Two integrated DC charge points
- Optional 1 AC charge point 22 kW
- Coming soon: Dispenser with + two charge points
- E.g., for highway charging, logistics with short charging times



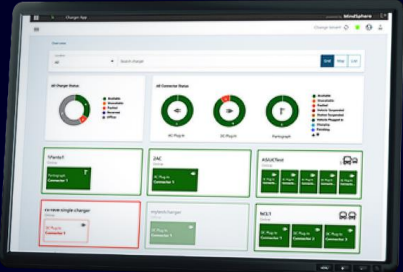
Sicharge UC

- Up to 600 kW
- One connected DC cable (UC150)
- Up to 4 dispensers per charger
- One pantograph/hood connection
- Esp. for buses and trucks in depots and en route



DepotFinity

- Digital charging management solution for bus, truck and logistic depots
- Considers chargers, vehicles, routes, electrical tariffs and more
- Reduces CAPEX and OPEX



Charging of tomorrow

A glimpse into the future

MEGAWATT CHARGING



Utilization of new Megawatt Charging Standard (MCS) with charging speeds up to 4.5 MW

BIDIRECTIONAL CHARGING



Charging solutions with bidirectional power electronics

AUTONOMOUS FAST CHARGING



Robust automatic charging solution with up to megawatt charging speeds

WIRELESS CHARGING



Automatic charging solutions based on resonant magnetic induction

USE CASES

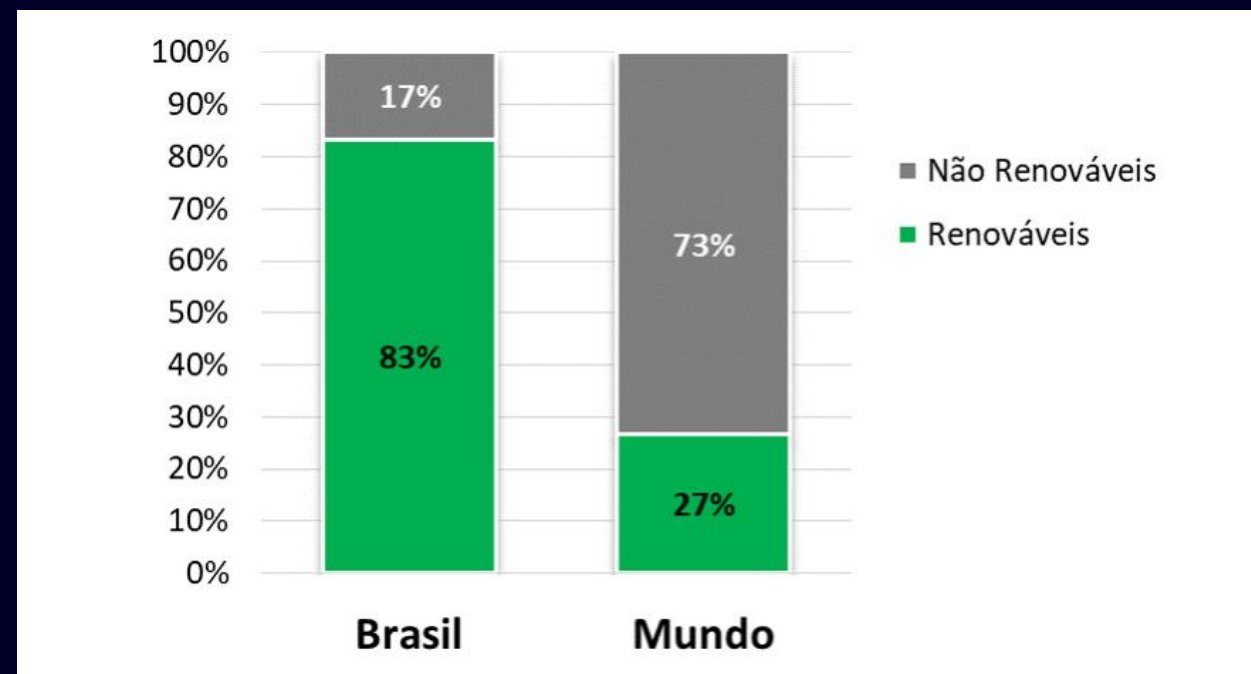
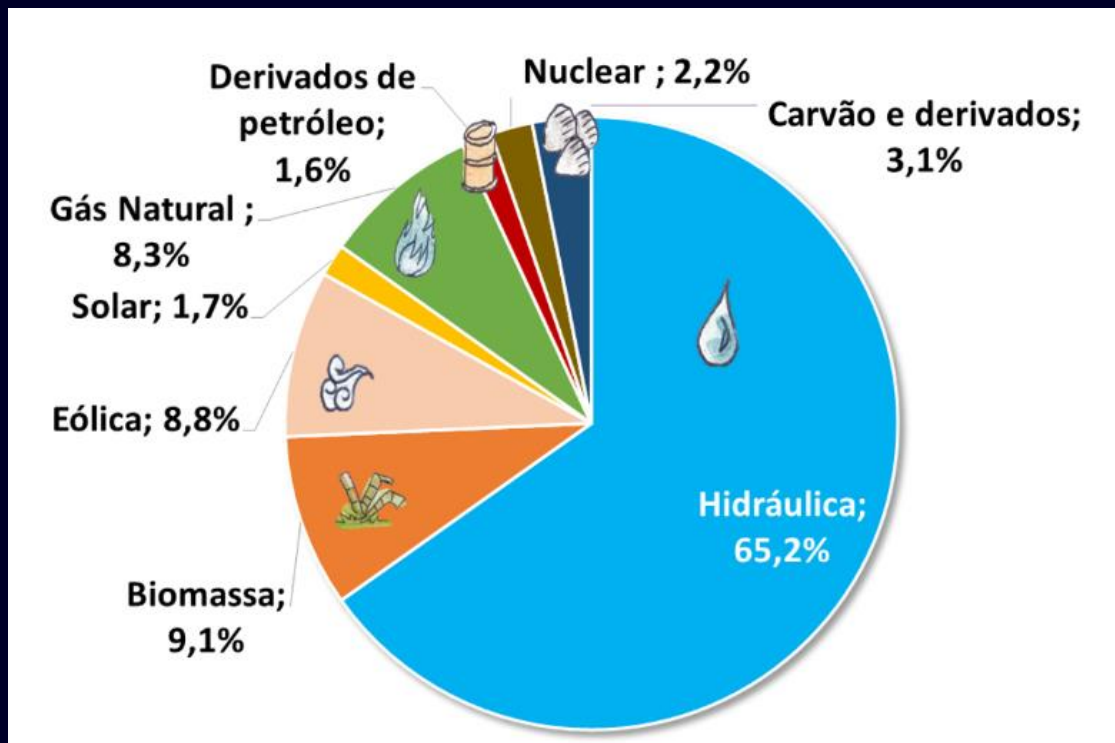
Charging of heavy-duty vehicles, e-ferris, utility vehicles, etc.

- Enablement of Vehicle-to-Home (V2H) and Vehicle-to-Grid (V2G)
- Allows for cost-reduction (PV self consumption optimization) and additional revenue streams

- Ease for megawatt charging stations (heavy cables/plug)
- Charging of autonomous vehicles

- Charging convenience
- Enables Vehicle-to-Grid use cases (constant connection to grid)
- Charging of autonomous vehicles

Is Brazil the right place for e-Mobility?

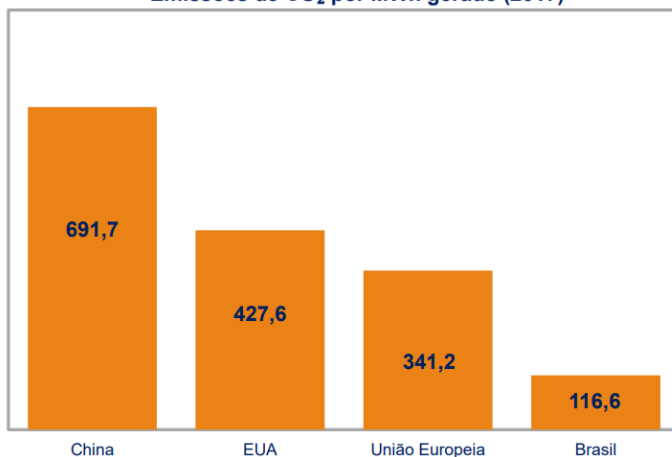


Fonte: <https://www.epe.gov.br/pt/abcdenergia/matriz-energetica-e-eletrica>

Is Brazil the right place for e-Mobility?

Para produzir 1 MWh, o setor elétrico brasileiro emite cerca de 1/3 do valor da União Europeia, 1/4 do setor elétrico americano e 1/6 do chinês.

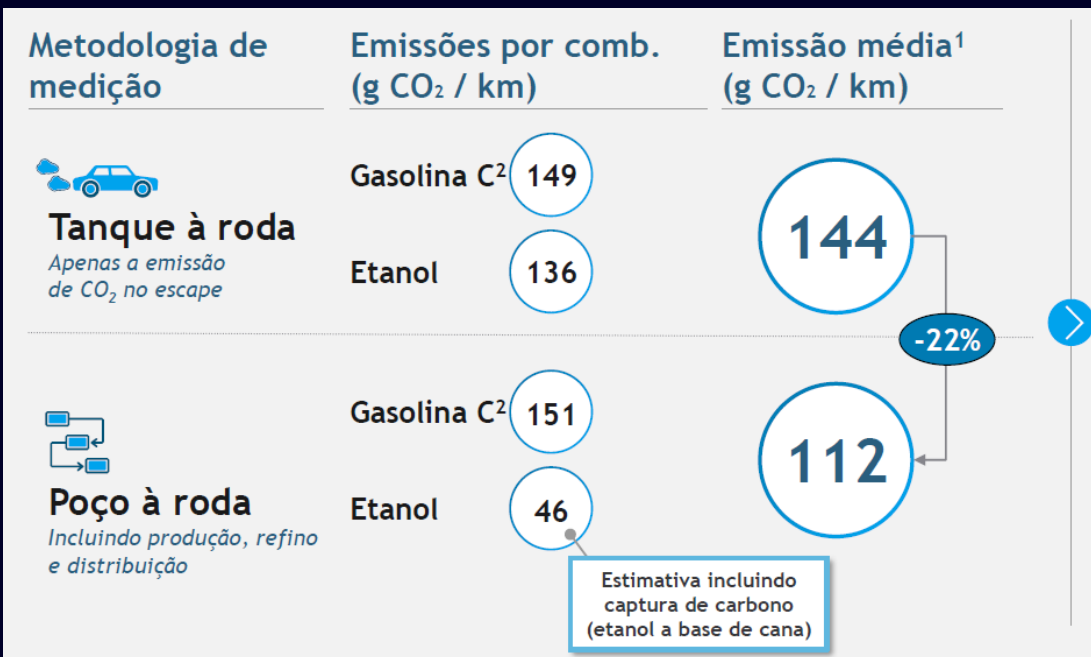
Emissões de CO₂ por MWh gerado (2017)



Emissões de carbono na geração elétrica brasileira em 2019: 90,0 kg CO₂-eq/MWh

Fonte: EPE

Fonte: https://www.epe.gov.br/sites-pt/publicacoes-dados-abertos/publicacoes/PublicacoesArquivos/publicacao-479/topico-521/Relato%CC%81rio%20Si%CC%81ntese%20BEN%202020-ab%202019_Final.pdf



Fonte: https://anfavea.com.br/docs/APRESENTA%C3%87%C3%83O_ANFAVEA_E_BCG.pdf

Mobilidade Elétrica faz sentido no Brasil para veículos leves?

Type of energy	g CO2 / km	Observation
Gasolina	151	Well-to-wheel
Etanol	46	Well-to-wheel
Elétrico	18	Considers an efficiency of 6 km / kWh

Contact

Published by Siemens Ltda

Paulo R Antunes S Jr

Business Developer Manager

Jundiaí

Brazil

Mobile +55 11 97460-4615

E-mail paulo.antunes@siemens.com