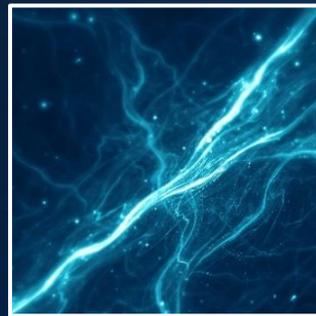
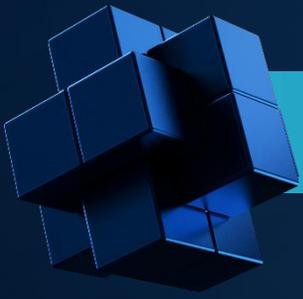


WEG Transmission & Distribution



Carlos Diether Prinz
Chief Operating Officer
WEG T&D





WEG T&D



13
Manufacturing sites

5 in Brazil
8 abroad

+5,200
Employees

62% in Brazil
38% abroad

Largest

Latin American transformers manufacturer

Complete Portfolio
of transformers

Certifications

on the main energy utilities in our markets

+500

turnkey substations delivered and energized at all voltage levels up to 550 kV

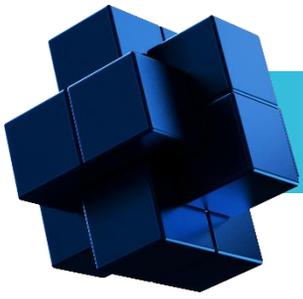
Leader

in the Brazilian market for mobile solutions

Wide Service Network

technical representatives and assistants





WEG History



1981
Beginning

2006



Mexico
Voltran

2007



Gravataí/RS

2008



Itajaí/SC

2009



Mexico

2015



Colombia



South Africa

2013



South Africa

2017



USA

2020



Betim/MG

2021



USA

2022



Itajubá/MG
Balteau



Product Portfolio

TRANSFORMERS

Distribution



15 to 300 kVA
15, 24 and 36 kV

Compact Industrial



500 to 3,000 kVA
15, 24 and 36 kV

Dry-Type



112.5 to 30,000 kVA
15, 24 and 36 kV

Dry-Type – VPI



300 to 6,000 kVA
15 kV

Underground and Submersible



300 to 2,000 kVA
15 and 24 kV

Pedestal



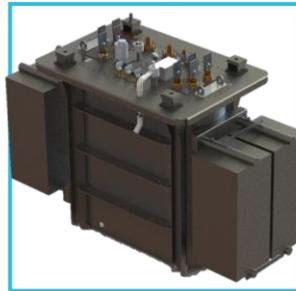
45 to 3,000 kVA
15 and 24 kV

Renewable Energies Solar



5 to 15,000 kVA
15, 24 and 36 kV

Renewable Energies Wind



4 to 10,000 kVA
15, 24 and 36 kV

Medium Power



3,001 a 50,000 kVA
Up to 145 kV

Power



Above 50,000 kVA
Up to 800 kV

Product Portfolio

Special Transformers



3,000 to 150,000 kVA
Up to 36 kV / 150 kA

Shunt Reactors



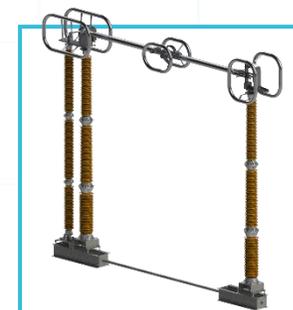
Up to 500 kV

Renovation Services and Repowering



Up to 550 kV

Disconnectors



Up to 550 kV

High Voltage Current Transformers and Inductive and Capacitive Potential



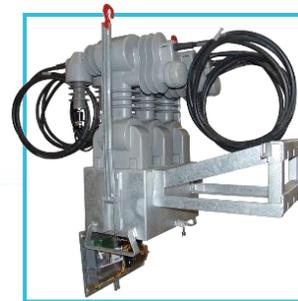
72 to 550 kV

Current and Potential Transformers, Low and Medium Voltage, Indoor and Outdoor



0.6 a 36.5 kV

Measuring Sets



15 kV

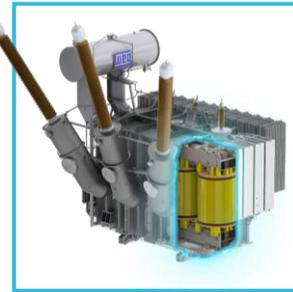
Product Portfolio

WEG Transformer Fleet Management



Online, remote and intelligent management

WEG Power Transformer Specialist



Accuracy Monitoring

WEG SmartGrid Transformer Specialist



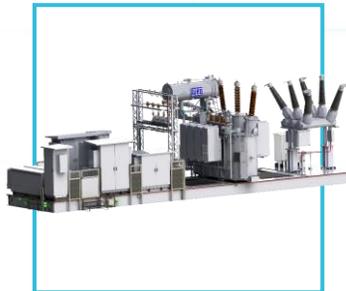
Monitors and detects nontechnical losses

Conventional Substations



Up to 550 kV

Mobile Solutions



Up to 145 kV

Mobile Substations

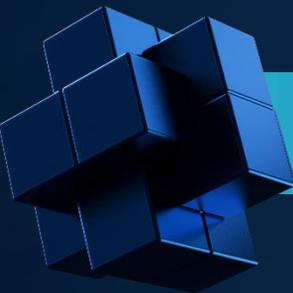


Up to 245 kV

Protection and Control Systems for Substations (PCSS)



Up to 550 kV



New Products Development

ASSET MANAGEMENT

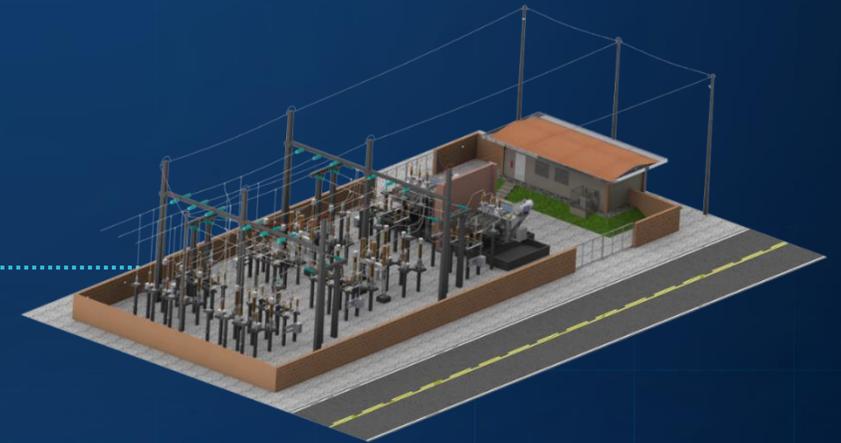
WEG Substation Fleet Management

- Intelligent and integrated monitoring
- Failure detection and prevention and remote control
- Integration with other solutions



Merging Unit

- Vertical integration of the solution with PCSS
- Digitization and centralization of substation devices



Green Hydrogen

- Rectifier transformer and turn-key substation
- Power supply for the electrolyser rectification system up to 150 kA

Circular Economy

TRANSFORMER OVERHAULING

Scope of Supply

- Power Range 5 to 400 MVA
- Voltage classes up to 550 kV
- Special transformers for furnaces and for rectifier
- Complete assessment of equipment condition
- Transformers from any manufacturer
- Repowering
- Reuse of materials



Renovation capacity
50 transformers/year

Industrial Footprint

MANUFACTURING UNITS STRATEGICALLY LOCATED
TO SUPPORT OUR MAIN MARKETS



USA

3 manufacturing plants

Transformers up to
60 MVA, 161 kV



Mexico

2 manufacturing plants

Transformers up to
400 MVA, 550 kV
and substations



Colombia

1 manufacturing plant

Transformers up to
30 MVA, 72 kV and
substations



Brazil

5 manufacturing plants

Transformers up to
1.000 MVA, 800 kV,
CTs, PTs and substations

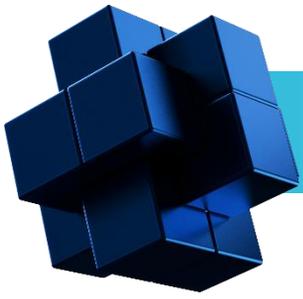


South Africa

2 manufacturing plants

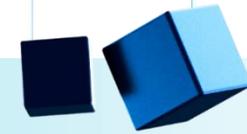
Transformers up to
45 MVA, 145 kV and substations



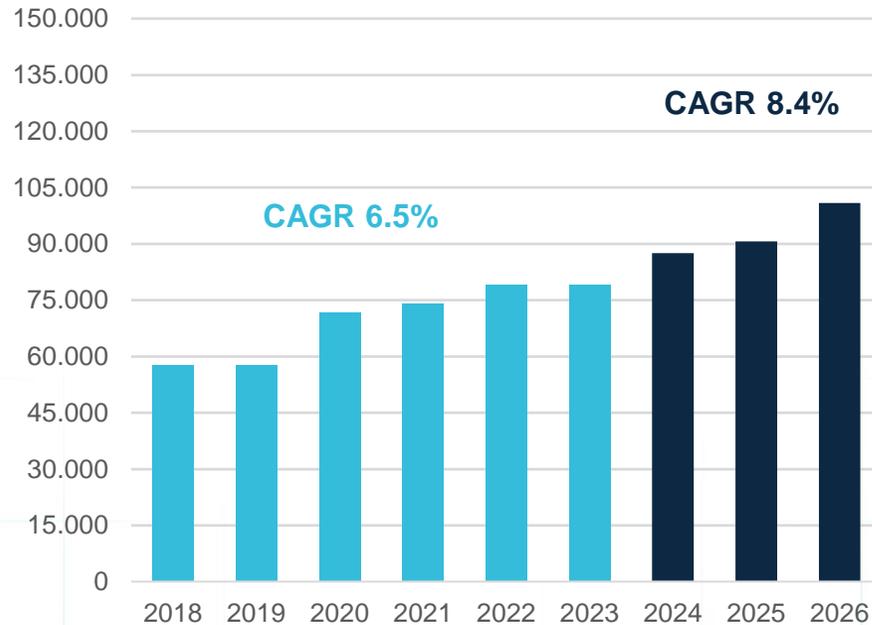


T&D Operations Evolution

IN BRASIL AND ABROAD

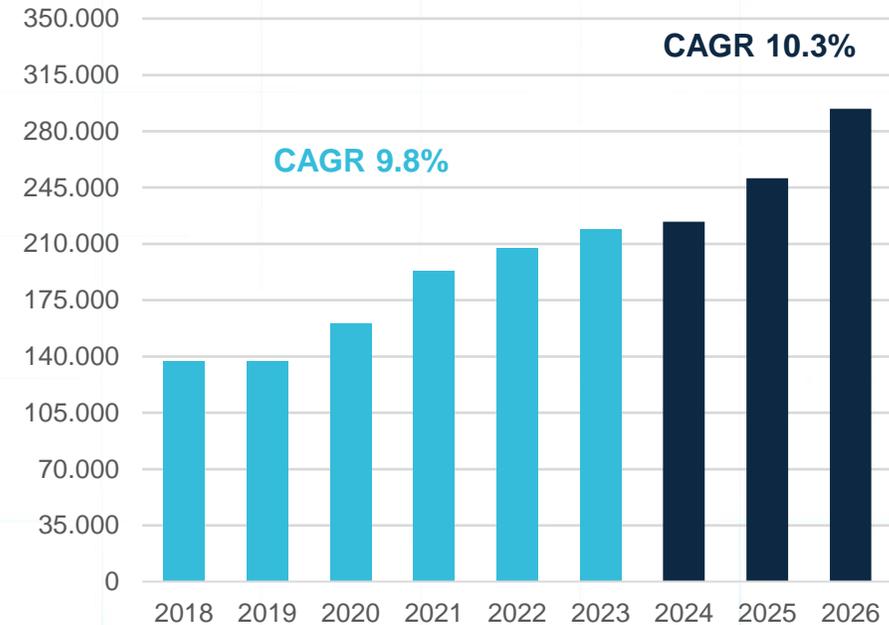


Production Capacity (MVA/year)



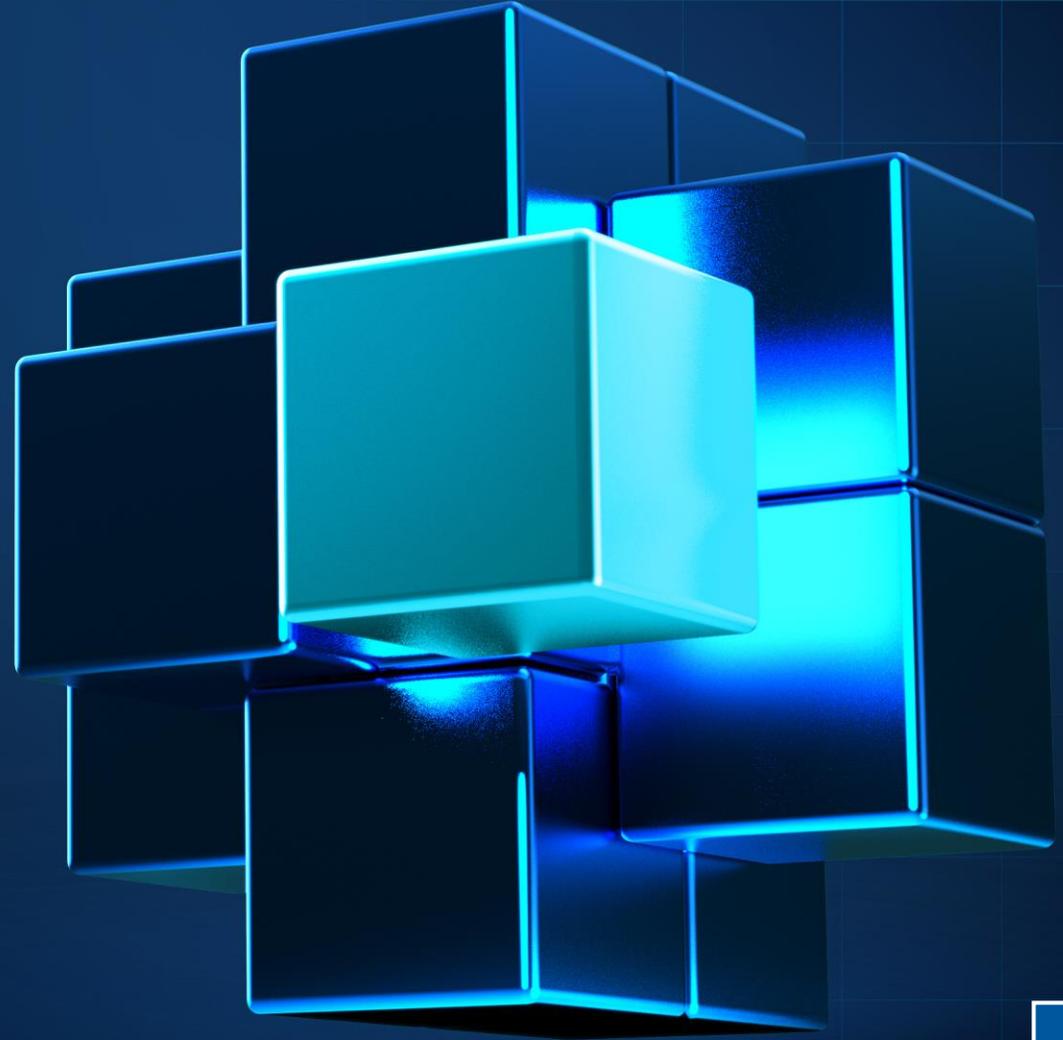
79 GVAs/year
of capacity in 2023

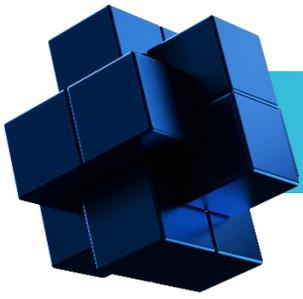
Built area (m²)



220 thousand m²
(2,370,000 ft²)
of built area in 2023

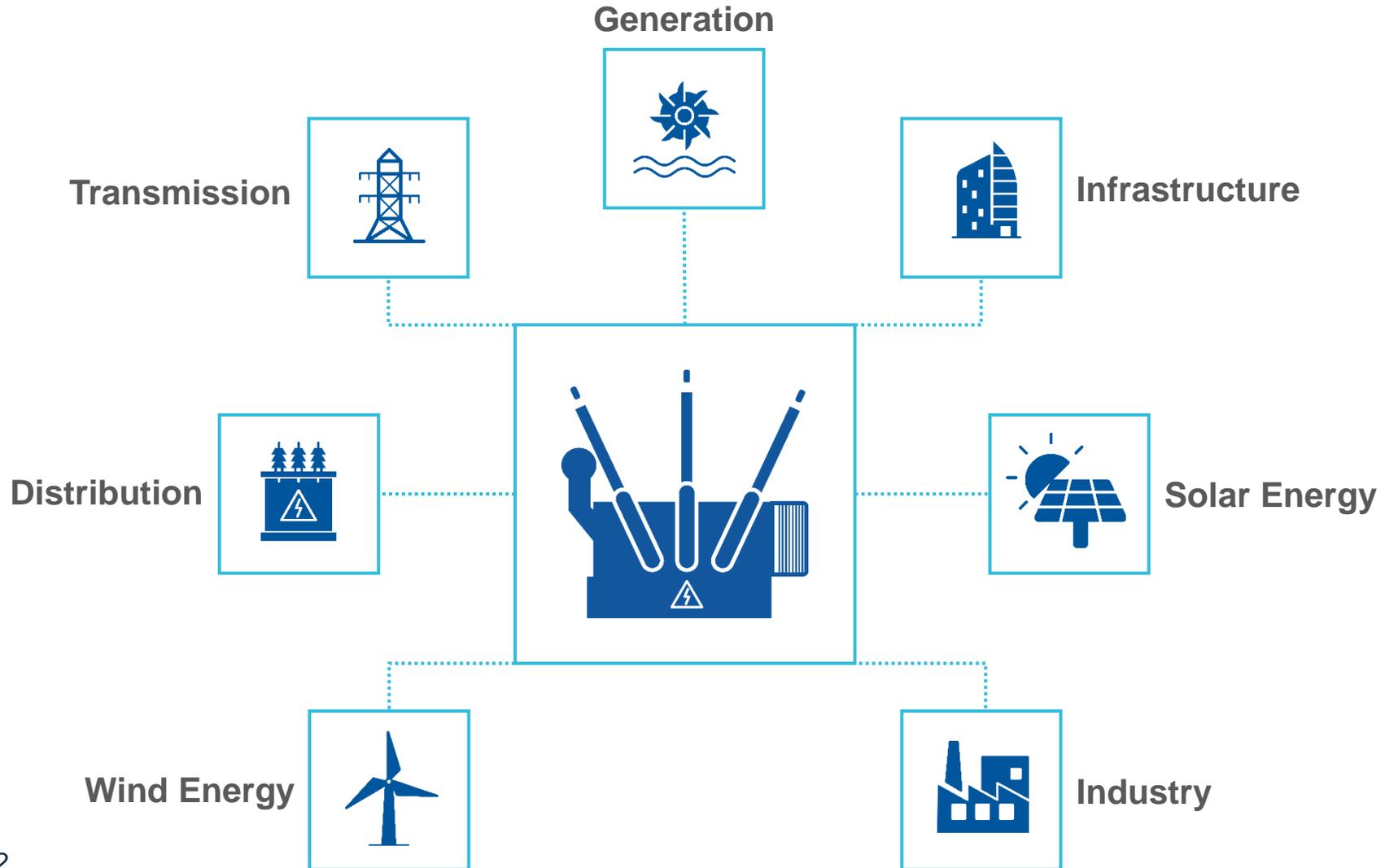
Transmission & Distribution Opportunities





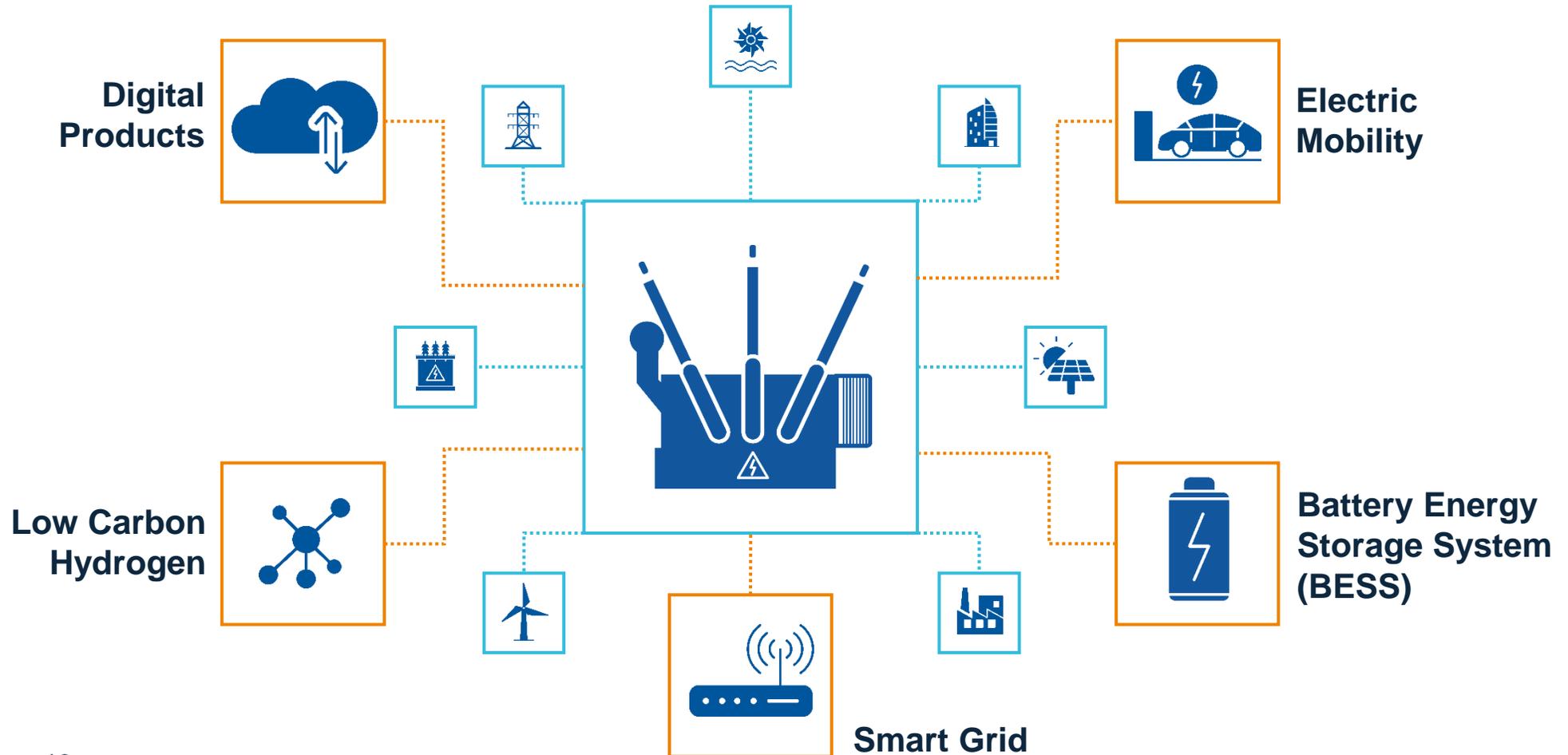
WEG T&D Solutions

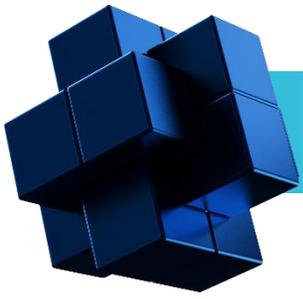
EXCELLENCE IN POWER SUPPLY TECHNOLOGIES



New Solutions

FOR NEW MARKETS AND WITH NEW PRODUCTS





Brazil

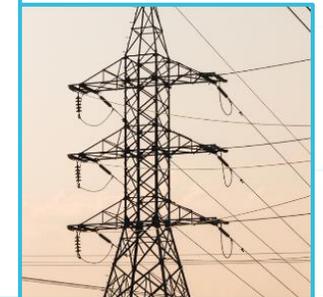
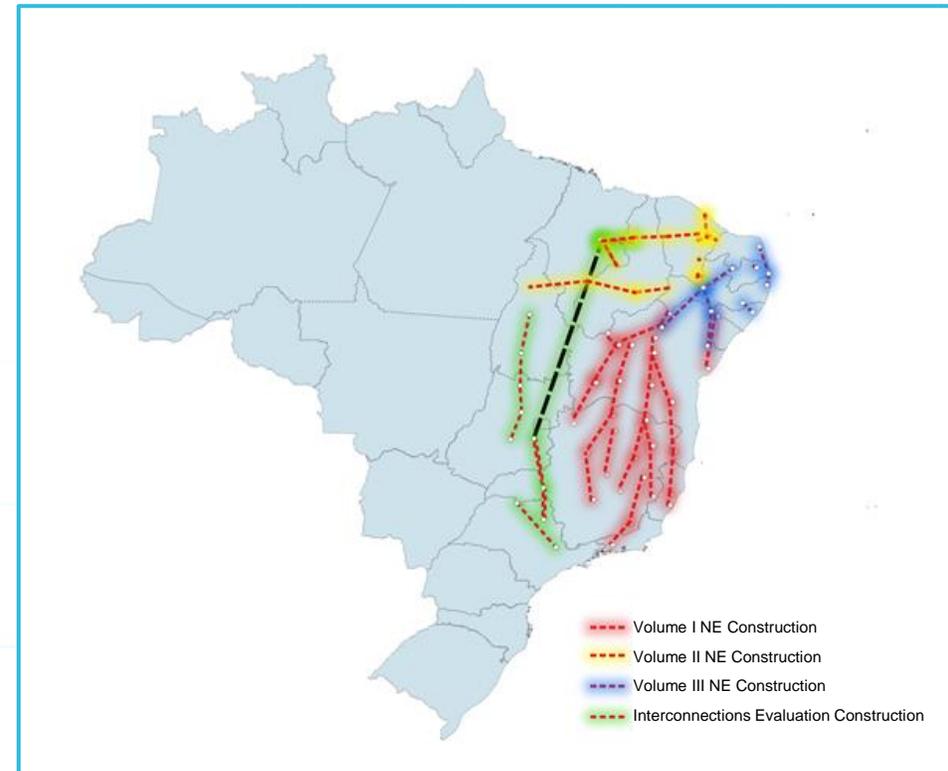
INVESTMENTS IN ENERGY TRANSMISSION

+R\$ 158 billions

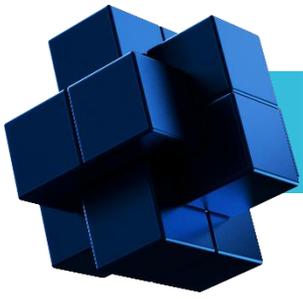
according to the Ten-Year Energy Expansion Plan (PDE 2032)

“Crucial factor for the success of the integration of renewable generation and the energy transition, with competitiveness and reliability.”

Ministry of Mines and Energy

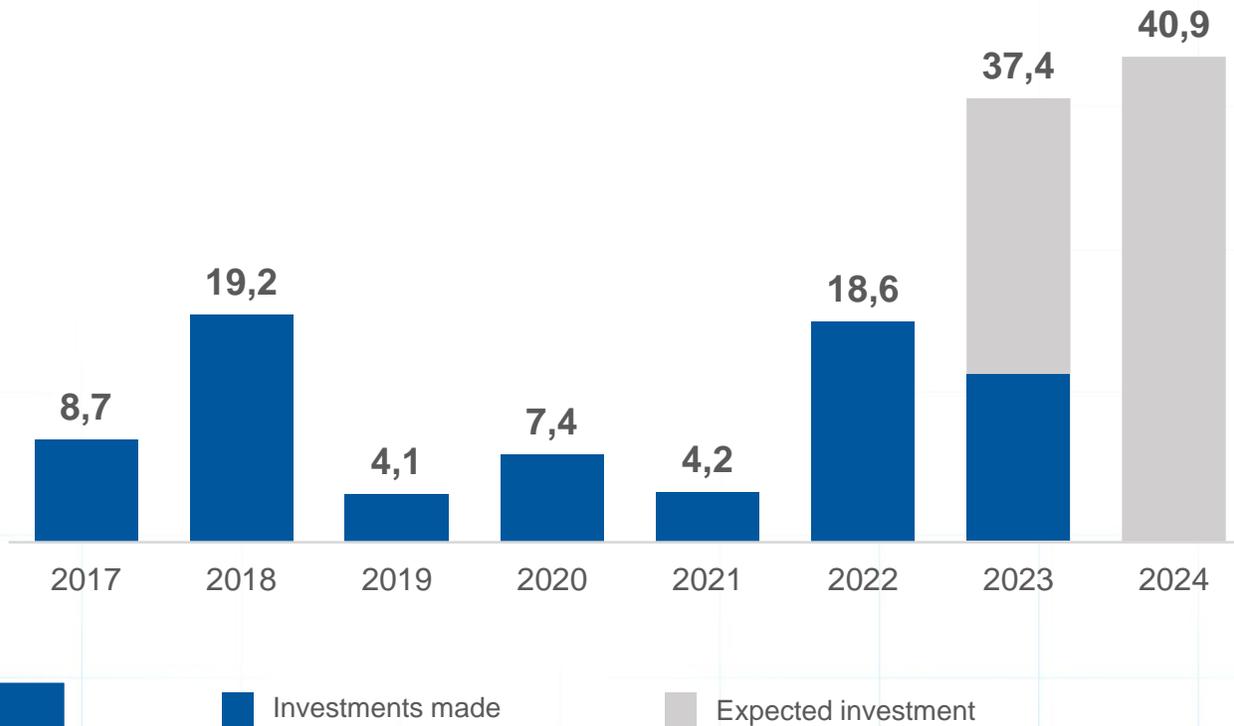


Source: Empresa de Pesquisa Energética (EPE)



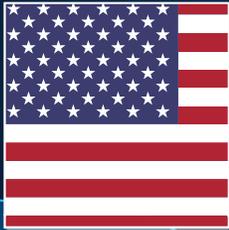
Brazil

POWER TRANSMISSION AUCTIONS (R\$ BILLION)



External Markets

USA



- ITC (Investment Tax Credit) from IRA (Inflationary Reduction Act), along with the Paris Agreement to reduce polluting emissions, **forecasts a 400 GVA annual deficit in transformers**, according to the US Department of Energy
- Replace 120 GW of conventional generation with **clean energy**
- Transformers market **should grow 5 to 7% each year** during the period from 2022 to 2031
- WEG has its own design and production technology for **transformers up to 550 kV**, as well as market access

External Markets

MEXICO



- Large number of companies with investment plans in the country due to nearshore
- Clean energy generation is still concentrated in state-owned companies
- The energy supply pace may not keep up with demand in the coming years
- Expectation of incentives to accelerate the capacity increase, both in generation and transmission

External Markets

COLOMBIA



- Changes in the energy matrix, with renewable energy **increasing from 5% to 15% share by 2030**
- Updating old substations with the need to replace assets in energy utilities
- Energy sector with consistent growth projection for the coming years

Growth Strategies



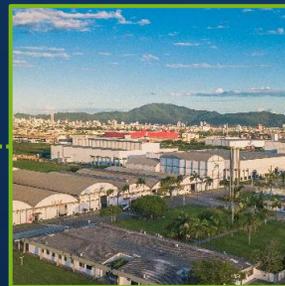
Investments in Brasil

INCREASE IN MANUFACTURING CAPACITY



Blumenau

- Expansion of the production line for transformers for application in renewable energy
- Robotization of the radiator factory
- Robotization of the tank factory



Itajaí

- New line of compact VPI transformers

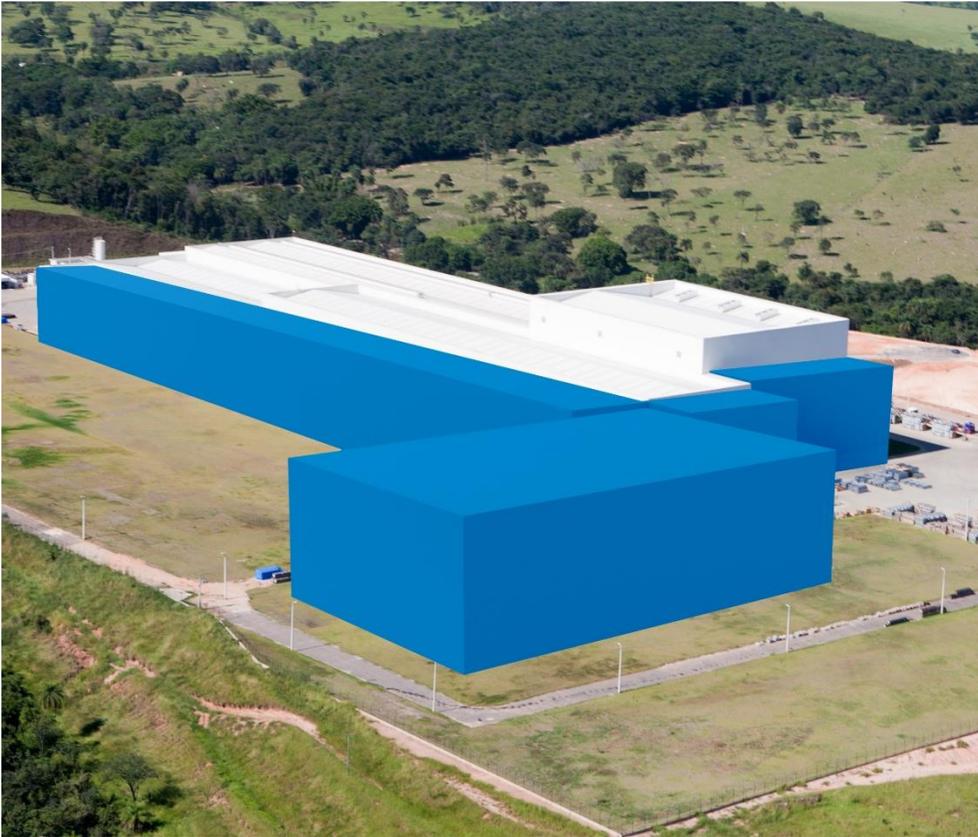


Gravataí

- Expansion of the line of medium power transformers
- Expansion of the tank shop
- Expansion of the laboratory

Betim

EXPANSION AND NEW RADIATOR FACTORY



- Investment of R\$ 200 million
- 47,000 m² (506,000 ft²) of total built area
- Begins operation in 2024
- Transformers up to 800 kV
- Mobile Substations and Skids
- Equipment renovations

Itajubá

EXPANSION OF THE BALTEAU FACTORY



- Investment of R\$ 83 million
- 6,000 m² (65,000 ft²) of built area
- Begins operation in 2025
- Transformers for measuring equipment
- Measurement Sets

Investments Abroad

INCREASE IN MANUFACTURING CAPACITY



USA

- Expansion of transformer factory capacity for renewable energy applications



Mexico

- Expansion of capacity to manufacture transformers and components



South Africa

- Expansion of the capacity of power transformer assembly

Growth Strategy Abroad

MEXICO – NEW TRANSFORMER FACTORY



- Investment of R\$ 765 million
- 33,000 m² (355,000 ft²) of built area
- Begins operation in 2025
- Transformers up to 500 MVA
- Voltage class from 245 to 550 kV

Growth Strategy Abroad

COLOMBIA – NEW TRANSFORMER FACTORY



- Investment of R\$ 190 million
- 23,000 m² (248,000 ft²) of built area
- Begins operation in in 2025
- Transformers up to 60 MVA
- 145 kV voltage class

Key Messages

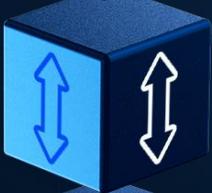
EXTERNAL MARKET



Maintain focus on markets in the Americas and Sub-Saharan Africa



Expand the capacity of our factories



Intensify synergy between North America plants with focus on the vertical integration strategy



Increase participation in the renewable energy and energy transmission markets



Internationalization of Balteau



Key Messages

DOMESTIC MARKET



Increase participation in future energy transmission auctions

Increase participation in the renewable energy market

Expand the capacity of our factories

