

IMPULSE PRESENTATION

Renewable energy solutions for battery- and fuel cell electric vehicles

International Mobility Days, 13th of December 2021

Session: GREEN MOBILITY: ENERGY, CHARGING, BATTERIES, POWERTRAINS, ...

Fronius International GmbH, DI Thomas Rührlinger



FACTS & FIGURES

1.321

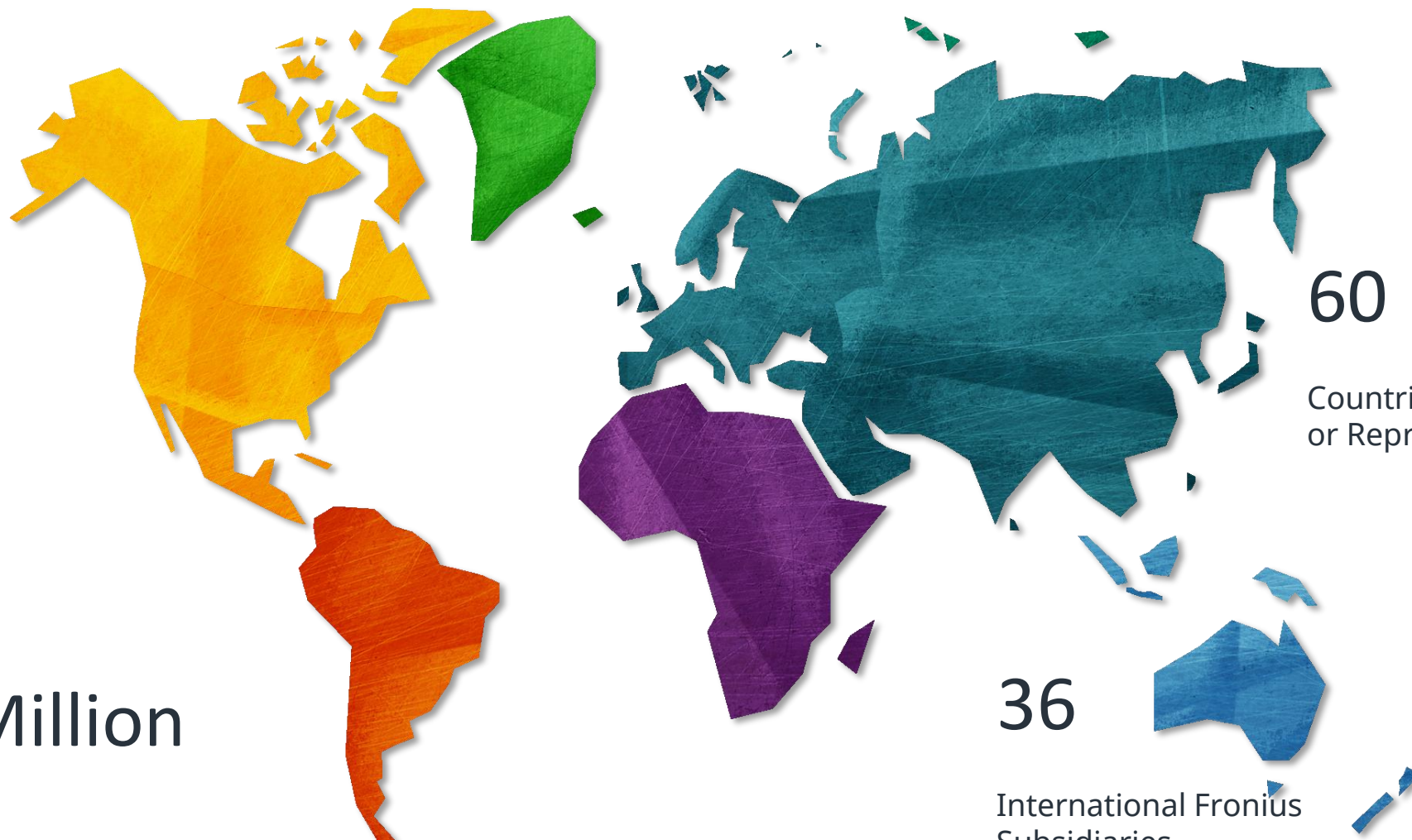
Patents

5.660

Employees

849 Million

Turnover



92%

Export Rate

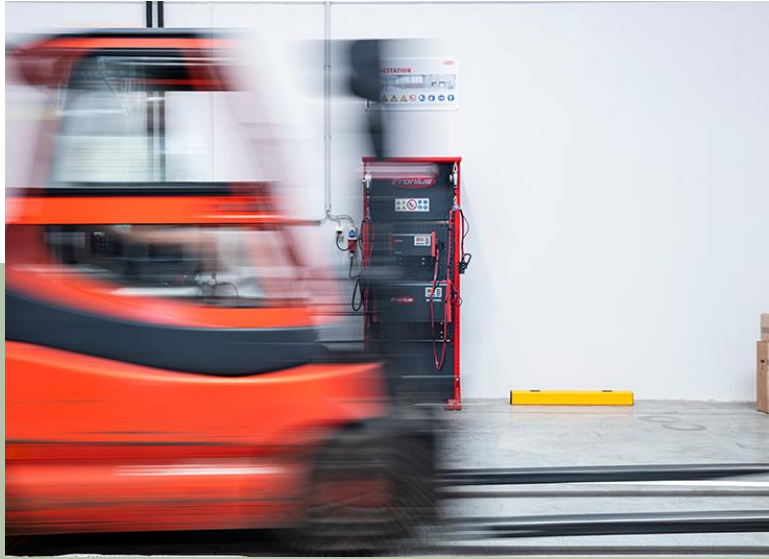
60

Countries with Sales Partners
or Representatives

36

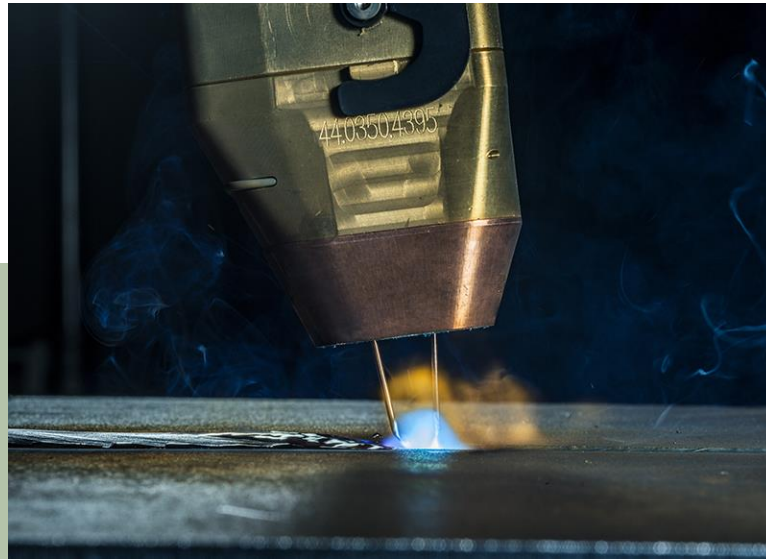
International Fronius
Subsidiaries

Business Units



Perfect Charging

Balancing sustainability
and efficiency



Perfect Welding

A pioneer in
welding technology



Solar Energy

Providing solutions for a
sustainable future

Business Unit Solar Energy

> 1.500

PV installations with Fronius
inverters per day

> 2,6 Mio.

inverters installed

> 30,1 TWh

annually generated
renewable energy

> 22 GW

installed power

95 %

export quota

60

exporting
countries

FOR THE ENERGY TRANSITION



Solutions for BEVs

FRONIUS WATTPILOT

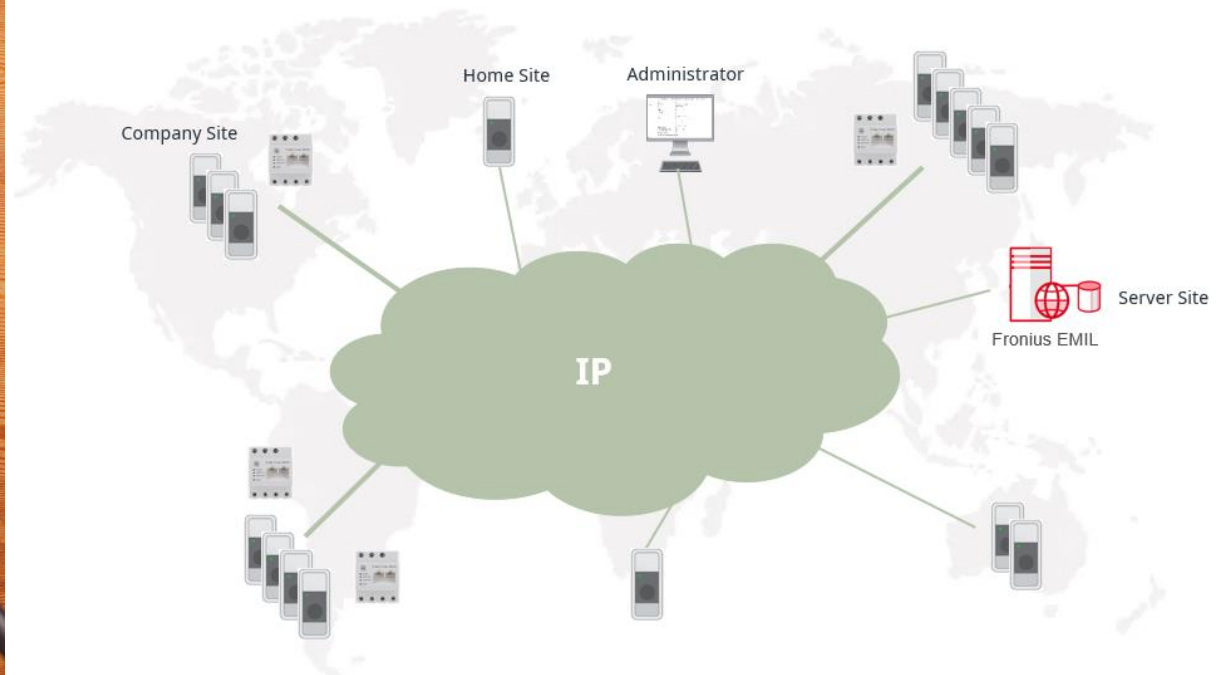
THE INTELLIGENT ELECTRIC CAR
CHARGING SOLUTIONS

- "WATTPILOT HOME"
- "WATTPILOT GO"
- PV OPTIMIZED

FRONIUS EMIL

THE CLOUD OR SERVER SOLUTION FOR C&I
CLIENTS WITH MULTIPLE CHARGING POINTS

- LOAD MANAGEMENT
- USER-BASED-PRIORITIZATION CHARGING
- REPORTING



Solutions for FCEVs

Turnkey solutions for local / regional production of green hydrogen

On-site use for refueling FCEV

Optional: Storage of renewable energy with stationary reconversion

Operation & Maintenance, financing solutions



DECENTRALIZED USE CASES



ON-SITE AND/OR VIA PUBLIC POWER GRID



MUNICIPALITIES

COMPANIES

EMERGENCY SERVICES

GREEN HYDROGEN FOR ENERGY STORAGE & GRID SERVICES



GREEN HYDROGEN FOR MOBILITY



MUNICIPAL VEHICLES (garbage trucks,...)



GOODS TRANSPORT VEHICLES (trucks, vans,...)



PASSENGER TRANSPORT VEHICLES (buses,...)



SPECIAL VEHICLES (snow groomers,...)



CONSTRUCTION MACHINERY (dumper trucks,...)



EMERGENCY VEHICLES (fire trucks,...)



AGRICULTURAL VEHICLES (tractors,...)

Solhub for public transport



Solhub in Steinhaus



- Currently begin of operation, Steinhaus – Upper Austria
- Local production of green hydrogen
- Step 1: 700 bar refueling
- prepared: 350 bar refueling
- Modular & expandable to 192 kg / Tag

Solhub in Herzogenburg

- First green hydrogen production & refueling in Lower Austria
- SAN Group will produce up to 100 kg H₂ per day starting 2022
- 1,5 MW rooftop photovoltaic system
- 700 bar precooled refueling
- Filling point for transport container
- Initial operation spring 2022





