

# Fronius E-Mobility Solution

With Fronius inverter<sup>1</sup>, Fronius e-charging box<sup>2</sup>  
and Fronius Smart Meter<sup>3</sup>



1



2

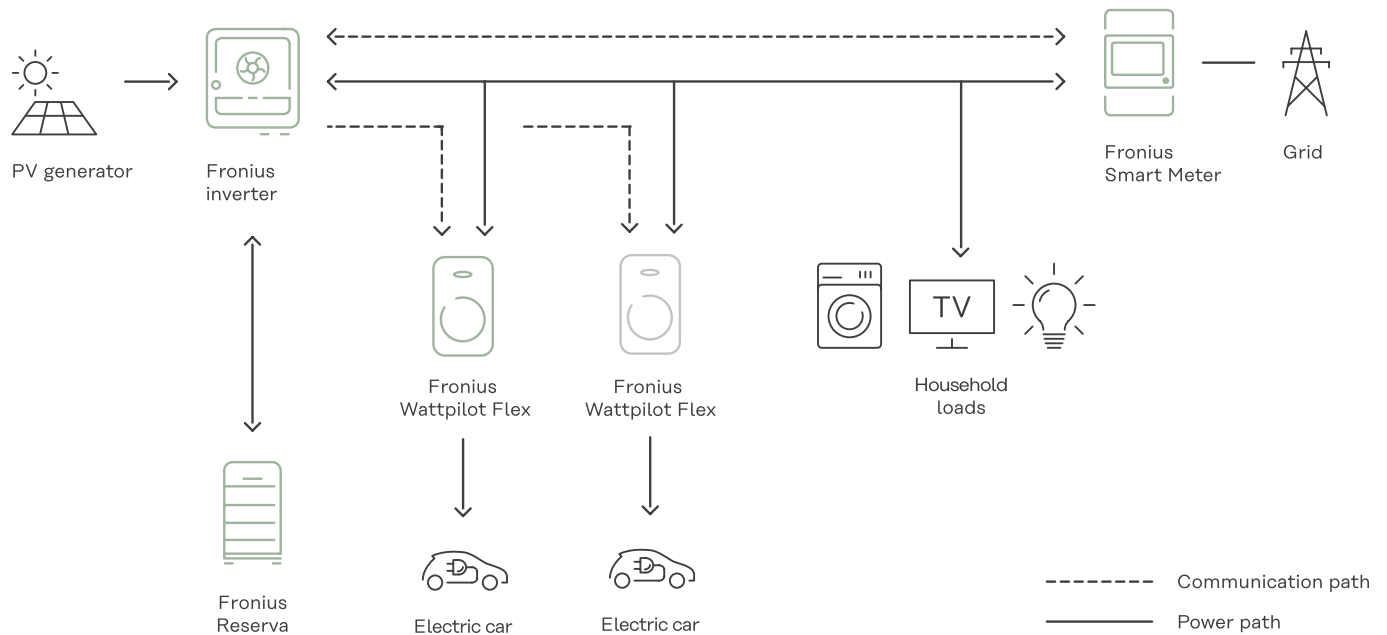


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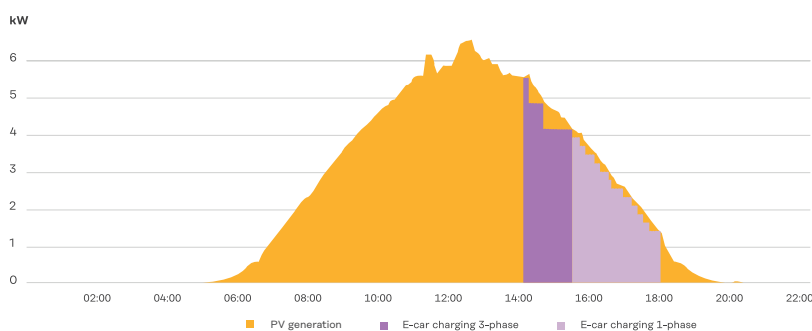
## All benefits at a glance

- 01 PV-optimized charging including automatic, integrated 1-/3-phase switching
- 02 Faster amortization of the PV system and cheapest electricity for the electric car
- 03 Intelligent charging modes for economical and environmentally friendly charging
- 04 Use of flexible electricity tariffs
- 05 Optimized use of the available energy through Dynamic Load Balancing
- 06 Holistic visualization of all components in Fronius Solar.web

## Configuration scheme:



## Charge with maximum solar power – thanks to intelligent charging solutions



### Dynamic PV surplus charging:

Dynamic PV surplus charging can be used to charge the electric car with surplus solar energy in ampere increments. This leads in higher self-consumption rates and helps the PV system pay for itself more quickly.

### Cost-efficient charging with variable electricity tariffs:

Variable electricity tariffs allow the electric car to be charged at a very low cost with green electricity from the grid, particularly at night when rates are lower.

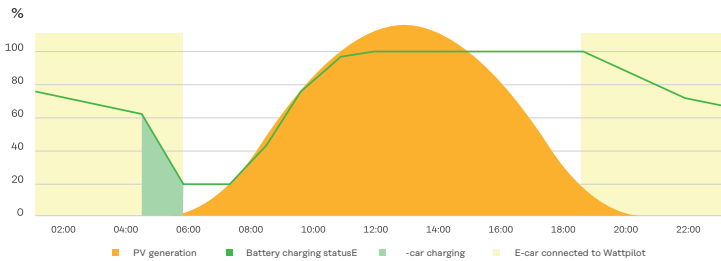
# What is needed to implement the solution?

Device	Type	Note
Fronius inverter	Fronius Primo/Symo GEN24	
	Fronius Primo/Symo GEN24 Plus	
	Fronius Verto/Verto Plus	
	Fronius Tauro	
	Fronius SnapINverter	with a Datamanager 2.0
	Fronius IG/IG Plus	with a Datamanager 2.0
	Third party inverter	PV optimization with third-party inverters is only possible with a Fronius Smart Meter IP at the grid feed-in point. Third-party batteries or other consumption controllers are not compatible!
Wallbox	Wattpilot Go 11 J	The mobile Wattpilot Go for on the go.
	Wattpilot Go 22 J	
	Wattpilot Home 11 J	The permanently installed Wattpilot Home for the home.
	Wattpilot Home 22 J	
	Wattpilot Flex Home 11 C6	The permanently installed Wattpilot Flex Home for the home, incl. type 2 charging cable.
	Wattpilot Flex Home 22 C6	
	Wattpilot Flex Pro 11 C6E	The permanently installed Wattpilot Flex Pro, incl. type 2 charging cable. It features an integrated MID meter that allows for precise billing of the charged kilowatt-hours. The metering and calibration law conformity ensures the transparent billing required in countries such as Germany.
	Wattpilot Flex Pro 22 C6E	
Protection	Residual current Protective device 20 mA AC, 6 mA DC integrated in the device	An additional residual current circuit breaker as well as an automatic circuit breaker must be connected upstream in accordance with the applicable installation standard of the respective country.
Energy meter	Fronius Smart Meter 63A-1, 63A-3, 50kA-3	Current transformers with an output current of 5 A must be used for the Fronius Smart Meter 50kA-3.
	Fronius Smart Meter TS 100A-1, TS 65A-3, TS 5kA-3	Current transformers with an output current of 5 A must be used for the Fronius Smart Meter TS 5kA-3.
	Fronius Smart Meter IP	Current transformers with an output voltage of 333 mV must be used for the Fronius Smart Meter IP.
Accessories (optional)	Pedestal	Only for Wattpilot Flex, up to 2 charging boxes
	Various adapter sets	Only for Wattpilot Go
	Type 2 cable	2,5 / 5 / 7,5 m (Only for Wattpilot Home and Wattpilot Go)
	RFID Tags	
	Type 2 wall bracket	

# More PV power for your e-car

By integrating a battery storage system such as the Fronius Reserva, maximum PV power can be charged into the car and the battery is utilized more efficiently. This increases the overall cost-effectiveness of the system.

## Discharge limit & time limit with battery storage:



In the example on the left, the remaining energy in the battery is used to charge the electric car before departure in the morning. Additionally, manually activating the boost function allows the car to be charged using the stored energy.

# Monitoring & Digital tools.

## Everything under control

With our Fronius Solarweb monitoring tool, you can oversee your PV system any time, anywhere, keeping your energy transition on track – simply by using it via our app or on the web.



## Easy operation via the app

Control your Fronius Wattpilot effortlessly via your smartphone with the Solar.wattpilot app. Enjoy quick setup, a clear overview of all charging data, and full flexibility to select charging modes or adjust settings anytime, anywhere.

