

/ Perfect Welding / Solar Energy / Perfect Charging



Fronius International GmbH  
Froniusplatz 1, 4600 Wels, Austria

**FRONIUS WATTPILOT**



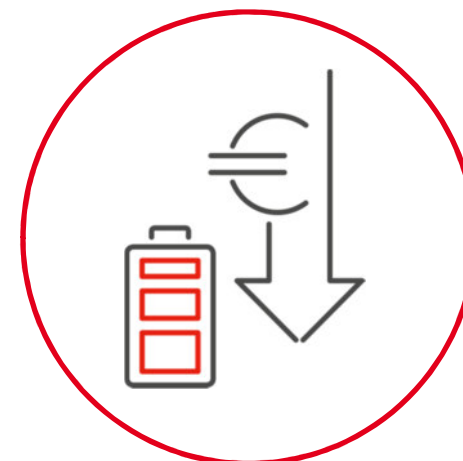
# REQUIREMENTS OF **ELECTRIC CAR OWNERS**

*Quick charging*



*Intelligent charging*

*Cost-efficient charging*



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Fronius Wattpilot

# CHARGING ON MY TERMS





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# WATTPILOT

## CHARGING ON MY TERMS

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### CHARGING POWER

**/ 11 kW or 22 kW**

### A HOST OF FEATURES AND FUNCTIONS

- / PV surplus charge**
- / Compatible with variable electricity tariffs**
- / Intelligent charging modes**
- / RFID authentication**

### STANDALONE APP

**/ Commissioning, operation and visualisation**



**The intelligent charging solution  
for all electric car drivers.  
Even without PV system**



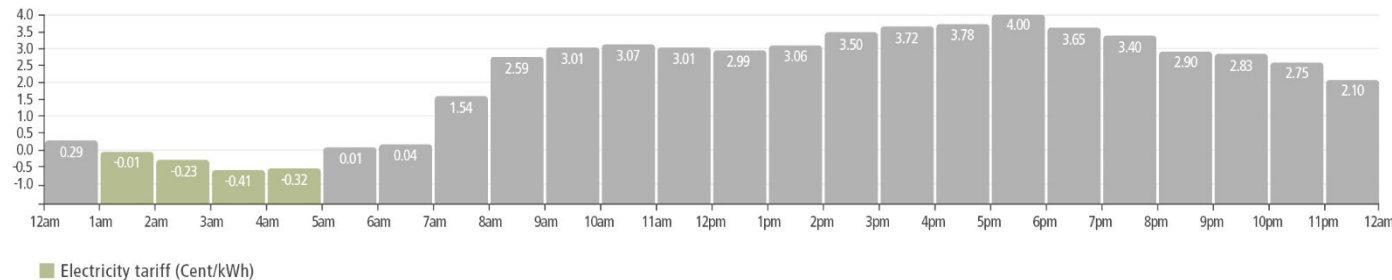
Functions of the Fronius Wattpilot

# Charging with variable electricity tariffs

# ECONOMICAL AND ENVIRONMENTALLY FRIENDLY CHARGING WITH VARIABLE ELECTRICITY TARIFFS\*

VARIABLE ELECTRICITY TARIFFS MEAN ELECTRIC VEHICLES CAN BE CHARGED  
ECONOMICALLY EVEN AT NIGHT, WHEN NO PV ENERGY IS AVAILABLE

- / You can use the app to set the electricity price threshold from which charging should take place
- / For example, charging when the electricity price is negative
- / Electricity tariffs available from market launch: Lumina.Strom (DE) or aWattar Hourly (AT)







Functions of the Fronius Wattpilot

# RFID authentication

# AUTHENTICATION VIA RFID



## PERSONALISED ACCESS USING AN RFID CARD OR CHIP

- / The energy charging level can be assigned to the registered RFID card by an integrated electricity meter
- / Up to 10 RFID cards can be created for each Wattpilot Go

*Option of issuing charging  
authorisations  
(e.g., in public areas)*

*Option of simple  
personalised billing*

*Monitor and analyse charging  
using CSV file*



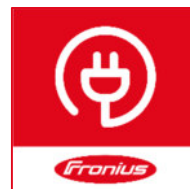
Functions of the Fronius Wattpilot

# Standalone app: Solar.wattpilot

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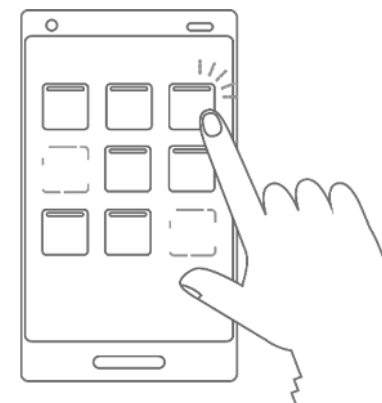
# STANDALONE APP: SOLAR.WATTPILOT



THE SOLAR.WATTPILOT APP FOR SIMPLE COMMISSIONING,  
VISUALISATION AND OPERATION OF THE WATTPILOT

/ Connect the app with the Wattpilot via the charging box access point  
or via the Internet

/ Numerous setting options: amperage, charging modes and electricity price thresholds



*Simple overview and  
visualisation of all data*

*Change charging modes  
from anywhere*



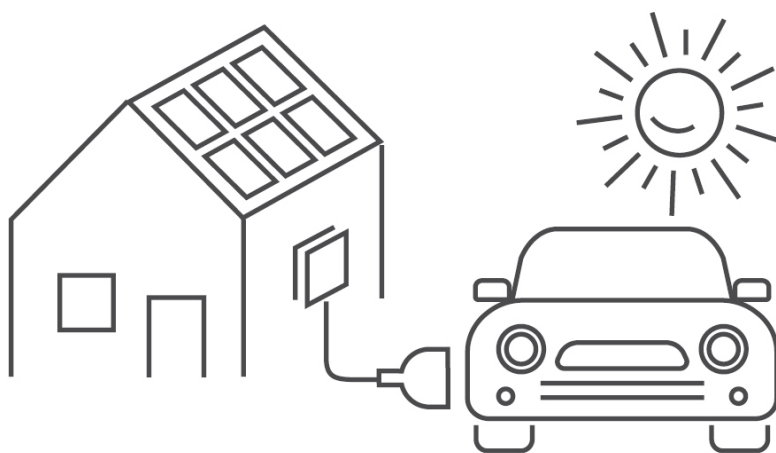
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# E-Mobility and PV - a perfect match

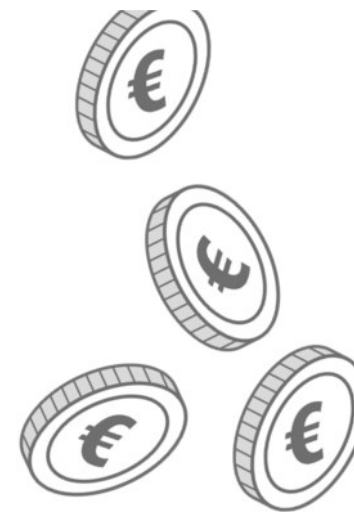
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# E-MOBILITY AND PV

## A PERFECT MATCH



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**Fronius**

COST-EFFICIENT ELECTRIC VEHICLE CHARGING  
USING YOUR OWN PV ENERGY

***Increased PV self-consumption rates***

***Faster ROI for photovoltaic system***

***Lower-cost electricity for electric vehicles***

Fronius International GmbH / Product presentation Fronius Wattpilot / 2020

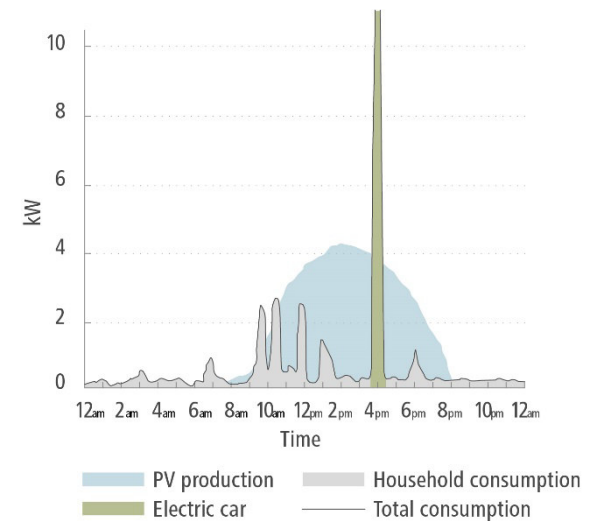
# WHY DO I NEED AN INTELLIGENT CHARGING SOLUTION?

## TYPICAL MISTAKES WHEN CHARGING WITH PV ENERGY WITHOUT AN INTELLIGENT CHARGING SOLUTION

- / Socket outlets not suitable for charging an electric car
- / Simple charging solutions without PV surplus charging cause short-term peak loads
- / As a result, expensive energy is drawn from the grid, despite a PV surplus being available

*Poor use of PV energy*

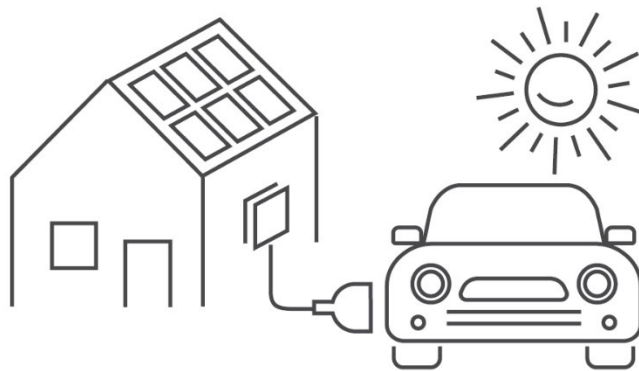
*Higher energy costs due to high use of the grid*



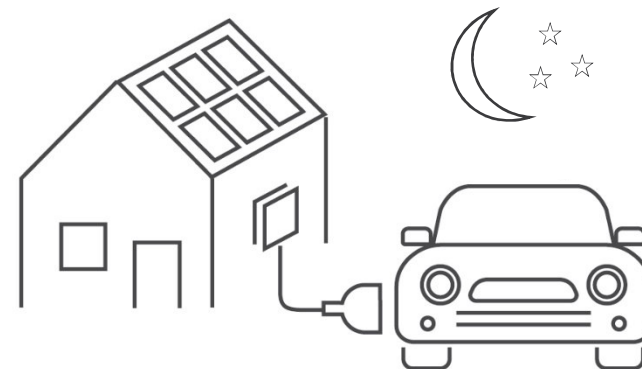


# WHAT DO **CUSTOMERS WITH PV SYSTEMS** EXPECT FROM A **CHARGING SOLUTION?**

*To use PV surplus to charge  
their electric car*



*To charge economically,  
including overnight*





Functions of the Fronius Wattpilot

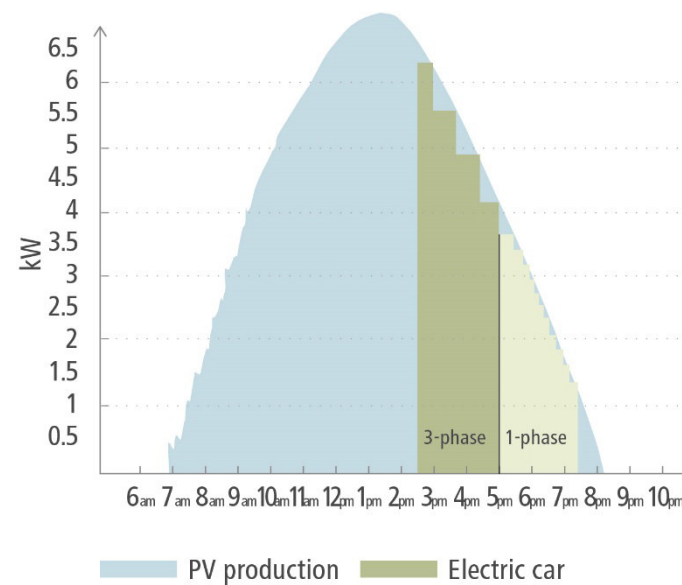
# PV surplus charging

# REFUEL WITH YOUR OWN SOLAR POWER

## PV SURPLUS CHARGING

INTELLIGENT USE OF ENERGY SURPLUSES  
INSTEAD OF FEEDING IT INTO THE GRID

- / Blocks of amperes of PV surplus can be used to charge the electric car
- / Use PV surplus from 1.38 kW - 22 kW
- / Fully automatic 1/3-phase switching





Functions of the Fronius Wattpilot

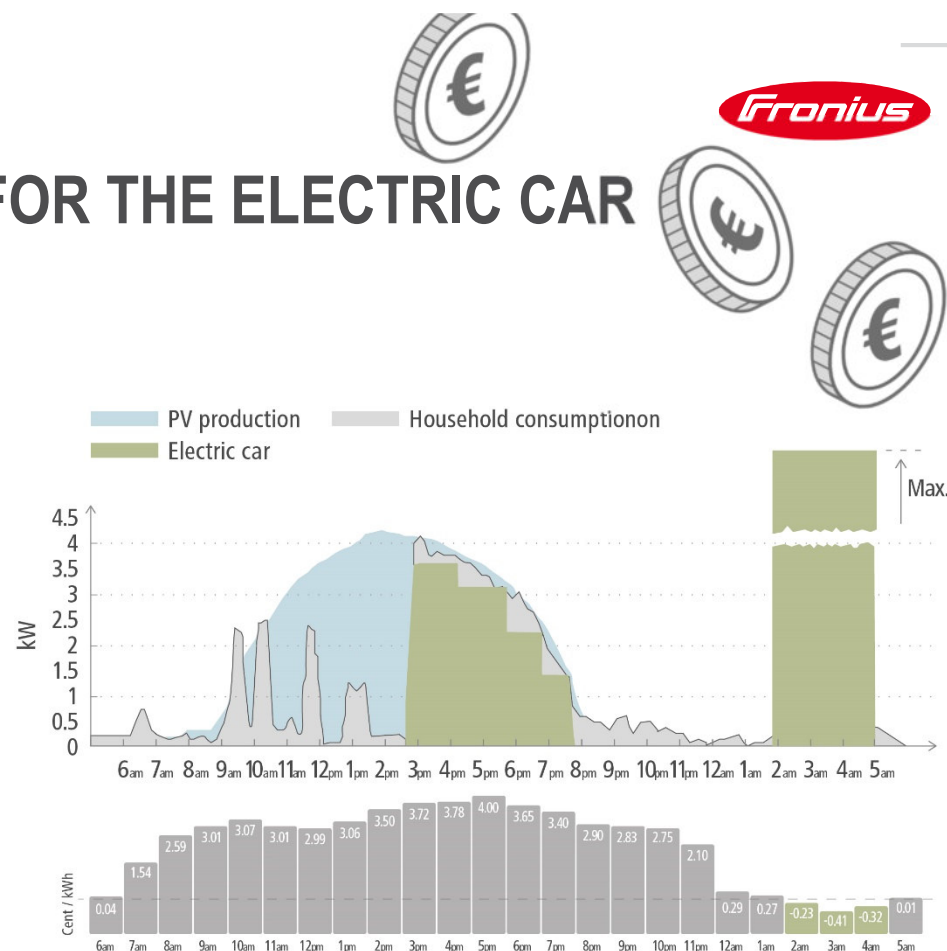
# Intelligent charging modes

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# LOWEST-COST CHARGING FOR THE ELECTRIC CAR ECO MODE

COMBINATION OF PV SURPLUS CHARGING  
AND CHARGING WITH VARIABLE ELECTRICITY  
TARIFFS\*

*High PV self-consumption rates,  
faster ROI and lowest-cost  
electricity  
for the electric car*

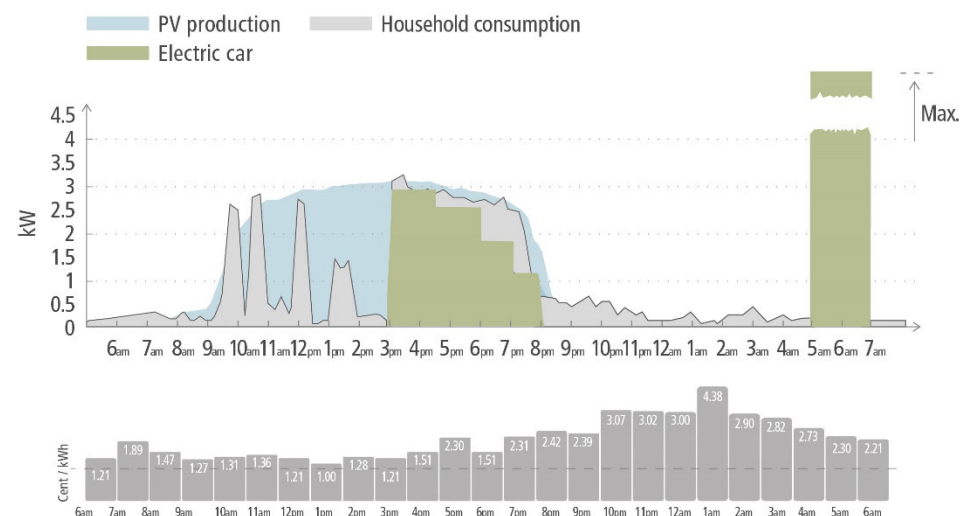


# ALWAYS ARRIVE AT YOUR DESTINATION – AS ECONOMICALLY AS POSSIBLE: **NEXT TRIP MODE**

- / The Wattoilot charges the electric car for a defined distance (converted into kWh)
- / The system primarily uses PV surplus energy or the variable electricity tariff\*
- / To make sure the charge is sufficient, the electric car is always charged with the required amount of energy, even if no low-cost electricity is available

*Always the required state of charge  
at the right time and at the lowest cost*

*Preservation of the electric car battery,  
because it does not always have to be fully charged*





Functions of the Fronius Wattpilot

# Additional highlights



## ADDITIONAL FEATURES OF THE **WATTPILOT**

### ANTI-THEFT DEVICE (CABLE LOCK FUNCTION)

/ Connected type 2 cable cannot be unplugged (depending on setting), making it theft-proof

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### ADDITIONAL THEFT PROTECTION FOR CHARGING BOX

/ The Wattpilot can be secured with an optional padlock to prevent theft of the Wattpilot Go

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### RESIDUAL CURRENT DEVICE WITH DIRECT CURRENT DETECTION

/ Integrated 30 mA AC (Go), 6 mA DC → no upstream RCD type B required

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# ADDITIONAL FEATURES OF THE **WATTPILOT**

## PHASE AND VOLTAGE TESTING

/ Accurate phase testing of the input voltage → no damage to the electric car if a phase is missing

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## TEMPERATURE MONITORING

/ If the temperature is too high, the current is reduced to protect the Wattpilot

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## VARIANTS OF THE **WATTPILOT**

	Wattpilot Go 11 J	Wattpilot Go 22 J	Wattpilot Home 11 J
Max. charging power	11 kW	22 kW	11 kW
Mains connection	CEE16 plug red 5-pin including neutral conductor	CEE 32 plug red 5-pin including neutral conductor	3~NPE 400 V / 230 V
Nominal current	6-16 A Single-phase or three-phase	6-32 A Single-phase or three-phase	6-16 A Single-phase or three-phase

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Fronius Wattpilot

# CHARGING ON MY TERMS



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