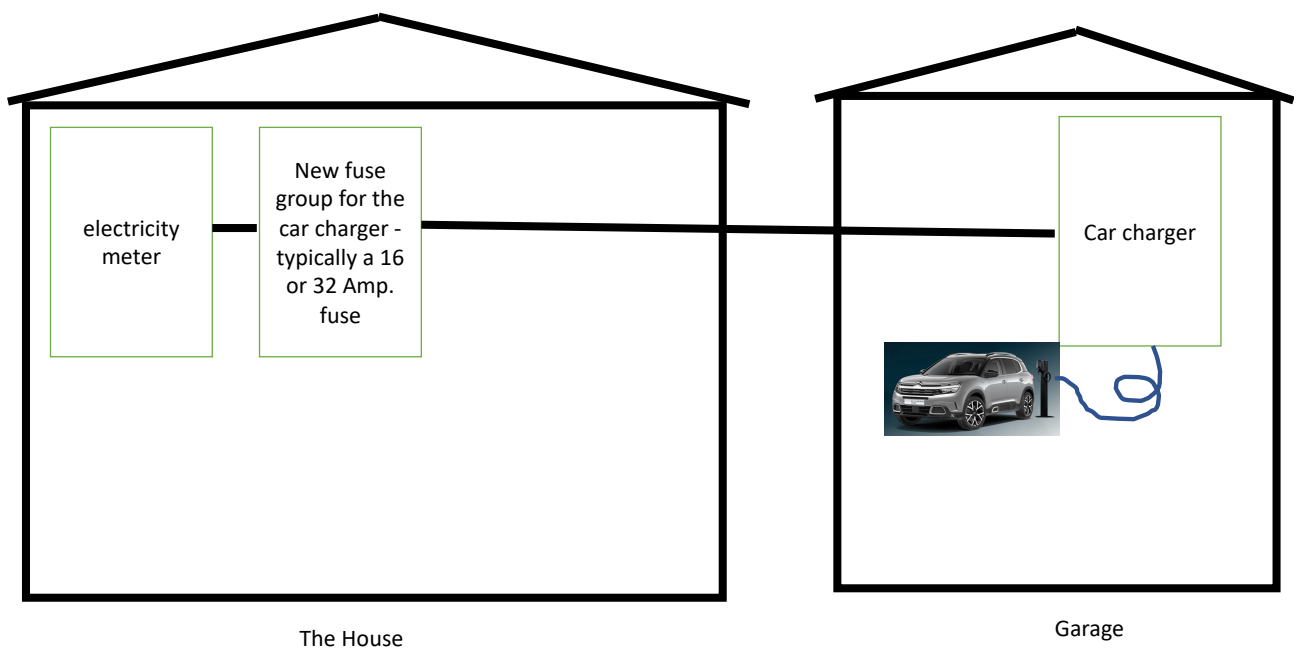


How to connect your charging station to IntelliGrid

Many private households have in recent years acquired a charging station to be able to charge an electric car or hybrid car. Often the charger is turned on when you get home from work in the afternoon, and it then charges until the car in question is charged. This is a problem for the electricity grid, because all these cars are being charged at the same time as the grid is otherwise under heavy pressure (in the afternoon and early evening). Therefore, it will be very appropriate to be able to postpone charging to a more appropriate time for the load on the Grid, the cost of charging the car and the environmental consequences of charging.

All these conditions can be solved by connecting the car's charging to IntelliGrid's flexible connection of electricity-consuming units. It requires an electrician to install the solution! - We are talking about very strong current here.

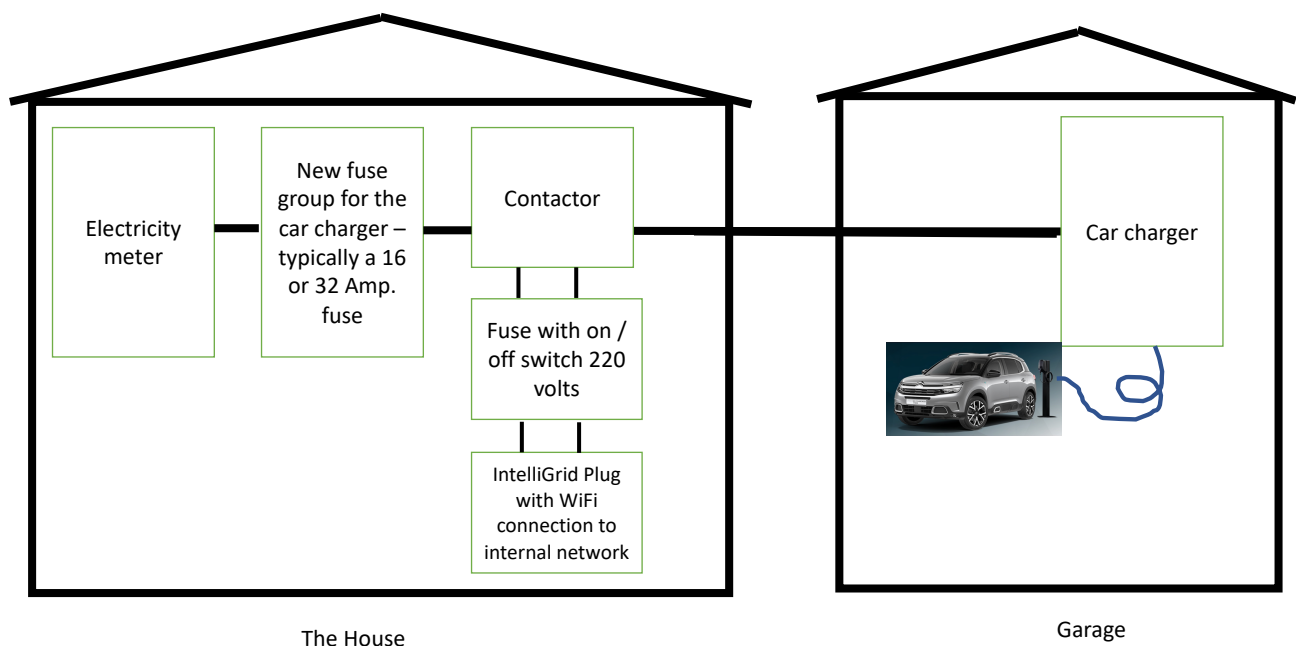
Normally the installation of the charging stand looks like this:



A new safety group is typically established for the car charger and it goes directly into the car charger. There is usually no possibility to control the charge, neither remote control nor automatic control - you have to go out manually and plug in or take it out!

With IntelliGrid, it looks somewhat different. You have an option to set the car to charge and then switch off, and let IntelliGrid automatically control when it is most appropriate to start charging.

The new installation looks like this:



Here, a "Contactor" (which is an electrical relay that can be controlled with 230 volts either directly or with IntelliGrid Smart plug in the socket that is connected to the contactor - Schütz in Deutsch) is placed between the fuse group and the car charger, and the power to the car charger can be switched on and off automatically via an IntelliGrid smart plug. All you have to do is having WiFi coverage at the fuse, then IntelliGrid will automatically take care of the most appropriate charging of the car.