

ECO GRAND PRIX SCHAUINSLAND - GERMANY

RULES AND REGULATIONS

// HOW TO WIN //

The aim is to show to the world that electric cars can drive a lot of km even through the mountains. Second it is not really known how much km can drive a VW eGolf in comparison with a BMW i3 at the same conditions. So, the question is how to drive the maximum number of laps having only CEE 32A sockets like I found them all around the word at the hotels I added to www.chargehotels.com. Every car category will set its own record, so BMW i3 will compete vs BMW i3, eGolf vs eGolf and Kia Soul E vs Kia Soul E.

The easiest way to win is to check the participant list, take a car no one other is taking and come to the start. If you are the only one you will win in your category but you should take care to make as many laps as possible because you wouldn't like your record to be beaten easily next year.

In case there is another car starting in your category you should take care that you can charge 22kW. If you don't have the appropriate adaptor with you, you should rent or buy one. And then the thrill begins ... perfect team strategy, flexible

charge stop strategy adapting to weather conditions, heating, cooling, a lot of factors which can make some laps more.

As you could see on TV at several channels like ZDF, NTV or MDR <https://www.youtube.com/watch?v=6sGw8W-wtjg> the ones driving faster than 80km/h lost the competition so a very energy efficient foot will make the winner. The average driven speed was about 60 to 80 km/h but this time it is another story, it's normal traffic and it's 1000m level difference.

Traffic rules have to be respected, traffic light times have to be calculated and be careful, you will be tracked the whole time more precisely than the police can do.

Cars start with 50% of their battery capacity and every half lap is counting as one stage. One lap consists on one uphill and one downhill stage. Deviations from the road book are leading to stop times at the pit lane.

// PARKING //

During the event gas cars have to park at the outer park spaces not blocking the poles where EV's could plug in their cars to 16A one phase Schuko sockets. Eco GP staff will indicate, where to park.



// ACCESS //

Participants:

Drive to Messe Freiburg and follow the signs to the eco Grand Prix main reception desk to get registered as driver. Tell there your name and one of our eco Grand Prix members will give you the stickers and all things to get access to the paddock. The registration of the teams is done on Friday 7.6. please check the schedule for details. After the registration you have to run through the technical inspection where you possibly will get some technical staff mounted. You will be able to leave it there plugged in to charge overnight but take care not to overcharge it, you will not be allowed to start with more than 50% of charge. The hotel Bierhäusle is a nice walk of 45 minutes passing the Seepark and Flückinger lake.

Please take care to be in time to the briefing session at the mountain "Energieberg". If you are coming late you risk to be disqualified. Only teams who joined the briefing will be allowed to start. You'll be welcome to join the dinner after the briefing at about 8PM.

Guests:

Guests follow on 8.6. the signs to Messe Freiburg and park at the indicated parking spaces not blocking the poles for electric cars. The first lap starts at 8 AM, official start 10 AM.

Everyone who is intending to sit in a car is obliged to put the seat belt.

In case you are one of the following groups you should follow the instructions:

- **EV GUESTS:** In case you are a guest coming with an 100% EV, the eco GP staff at the gate will indicate where to park or charge if needed.
- **PARTICIPANT:** Participating drivers have to show the driving license at the reception desk where they will get the bracelet allowing to drive as eco Grand Prix participant.
- **TEAM GUESTS:** Team members, VIPs or guests wanting to sit in the car for one or more laps have to get the accreditation at the eco Grand Prix registration desk at Messe Freiburg.
- **MEDIA:** Media will get the Media accreditation bracelet. They have to join afterwards the briefing to get the instructions and safety jackets before getting the permit to film or get photos, same rule applies to You-tubers.
- **ORGA:** The core members of the organization team will meet at hotel Bierhäusle to join the eco Grand Prix crew briefing on 6.6. in the evening. The rest of the crew will meet on 7.6. in the morning at Messe Freiburg to be briefed there 9 AM.

It is strictly forbidden for anyone but the marshals to enter the pit lane or paddock beside of the participating cars even in the pauses or after the competition. During the competition no guest is having the right to cross the indicated barriers. During the competition the maximum amount of people sitting in a competing car is four.

// CHARGING //

Participant cars will get access to 32A CEE sockets at the pit lane looking like this:



Modern cars need an adaptor to be able to charge there. Some cars like Tesla have a 16A CEE charger on board. 16A CEE are available too but be informed that this is charging half speed in comparison to 32A. Please take care to bring your own chargers and adaptors to be able to charge.

The mobile Charger NRG kick www.nrgkick.com is supporting to be plugged in to 32A sockets and having a Type 2 plug for electric cars. Teams are allowed to take their own charging equipment. For one phase charging cars it is recommended to bring AC/DC converters available at <http://lade-techniknord.de/> or other producers to be able to charge at maximum 22kW speed. Battery buffer-

ing or swapping is not allowed. This would not reflect real life charging situation.

Tesla cars are recommended to charge at the Superchargers near Freiburg before coming to the event.

IMPORTANT: CARS WILL START WITH A BATTERY CHARGED max. 50% so please don't arrive fully charged. The team cars can be charged before the competition but shall not be over 50%. For participants there will be these CEE 32A sockets at the pit lane being the only allowed charge point for them during the competition.

// TECHNICAL INSPECTION //

Only 100% not modified standard electric cars are allowed to start.

The inspection will be done by the “eco Grand Prix Pit Bulls” the members of the organization team paying attention to compliance with the rules.

If required the owner of the car has to give access to a Pit Bull to mount lights or cameras to the car and test the charging. The cars have to be at the paddock on 7.6.19 till 3PM latest. Cars failing to be there in time will be disqualified.

Car owners have to allow the Pit Bulls to stick the car of the participant with stickers from sponsors. After the event the owners can keep them or take them off himself.

Owners not allowing access to the Pit Bulls to check or mount needed equipment won't get the clearance to start. **Cars arriving with more than 50% charge have to leave the paddock and come back with a charge less than 50% or exactly 50%.**

// DRIVING //

Only accredited pilots are allowed to drive the cars. You will get the accreditation bracelet after the briefing. A team is allowed to have as many drivers as they want and also allowed to change as often as they want. Drivers have to show their driving license to the eco GP crew to get accredited.

At 7AM the pilots will be aligned to the starting sequence following their sequence of registration. The **Pit Bulls** will take photos from the odometers and the charge status of every car at the starting place and post it online so that the live streaming followers will be included into the information flow.

Cars having more than 50% at the line up have to leave the paddock and come back with a charge less than 50% or exactly 50%. If you are coming back late for start you will be allowed to make a late start.

At 8AM sharp the first car will be signaled by the eco GP flag to start followed by the second car one minute later to make the warm up lap. All cars have to drive the whole lap, cars failing to drive the whole correct part will get penalty waiting time at the official start at 10 AM depending on the amount of km skipped. Wrong turns won't generate penalties, just loss of battery range and time to get back on track, so you can correct any error in the time frame of about two hours.

At 10AM the official start sign will be given, if you are there or not. Coming late does not lead to disqualification, you will be simply later than the starting field.

Guests can subscribe to a list to be guest in your car. In case the list is this full that it is reaching the amount of cars in the field all cars will be stopped at the pit lane for one minute to let a guest jump in into your car to drive one lap so every team will get one guest. This procedure could be repeated during the day and in cases of extreme interest it could be also two guests joining.

Charging will be allowed till 7AM, from 10 AM till 4PM and after the competition. Between 7 and 10AM charging is not permitted. One and only charge place during the competition are the 32A sockets at the pit lane. After 10AM charging over 50% battery capacity is allowed.

You will get a road book from our partner ADAC where the route will be described but not the speed limits. Please be informed that there are several radar controls on the way and a lot of 30 km/h zones.

Entering the Messe Freiburg zone you will see the maximum allowed speed limit signs of 20km/h, it will be controlled by eco Grand Prix Pit Bulls and is leading to penalties in case of even driving 1km/m more than allowed. At the pit lane walking speed (5km/h) is allowed. Driving 100% over the speed limit leads to immediate disqualification of the team.

In case a car runs out of battery at the street with no chance to drive back recuperating the battery the driver has to call the race control and do all measures you have to do following the traffic rules.

As soon a car is identified by the marshals not to drive, they will try to reach the team by mobile phone. In case they are not answering the safety car of ADAC will drive to the last position sent by the GPS device to support. A defined mobile phone has to be in every team car and plugged in to the cigarette lightener or USB slot if available. The car will be towed to the charge place at Messe Freiburg and will get a penalty defined by the marshals which will be normally a stand punishment of several minutes after he is ready to start again where he has to stay and wait without charging. Running out of battery at the end of the race will mean one lap subtraction.

Any kind of rule breaking will be investigated by the stewards and will lead to penalties in extreme cases to disqualifications.

Cars having an accident are not allowed to continue driving, if the car is able to drive the driver has to enter the pit lane so that it can be inspected by the technical team. Restart is only allowed in case the technical expert team is giving the green light. Drivers having an accident are not allowed to continue driving till the doctor is giving his ok.

// SCHEDULE OVERVIEW //

07.06

- 07:50 Opening of the gate to access the exhibition area
- 08:00 Ramp up for eco GP and exhibitors
- 10:00 Eco GP registration open
- 10:00 Exhibition opens - Test drives for guests
- 11:00 Kids eco GP ramp up
- 12:00 Eco GP crew briefing during lunch
- 13:00 Crew photo shooting
- 14:00 Technical acceptance of the participant vehicles
- 15:00 End of team registrations. Team group photo
- 15:00 Drive to the energy mountain Eichelbuck
- 16:00 Press conference on the Energieberg
- 17:00 Presentation of the energy mountain Eichelbuck
- 18:00 Team briefing on the Energieberg
- 19:00 Drive to the hotels.
- 20:30 Come together dinner at the ecoGP partner hotel Bierhäusle
Overnight stays in the two ecoGP partner hotels 2019

08.06

- 07:30** Entrance of the exhibitors and line up to starting grid of the teams in a row
- 08:00** Warm up lap, about 53 km: start the teams in 30-second intervals
- 08:00** First one hour slot for test rides at exhibiting car dealers
- 09:15** Return of the first teams to line up to the starting position
Teams are NOT allowed to charge between 8:00 and 10:00
- 10:00** Start of the ecoGP Schauinsland (Le Mans start).
- 10:30** Second one hour slot for test drives at exhibiting car dealers
- 11:00** Kids ecoGP Challenge – 2 hours slot for several 5 minute qualification races
- 11:00** Third one hour slot for test drives at exhibiting car dealers
- 12:00** Individually organized lunch breaks at surrounding restaurants (Mistral, XXXL, ...)
- 14:00** Kids ecoGP Challenge - final
- 14:00** One hour slot 4 for test drives at exhibiting car dealers
- 16:00** ecoGP Schauinsland - finish - Lap counting will be stopped at 16:00 sharp.
Teams arrive at the finish line in the following 45 minutes.
- 17:00** Award ceremony, press, media
- 18:00** Exhibition ramp down (till 20:00)
- 18:45** Departure of the teams, partners, sponsors, press etc. to the ecoGP partner hotel Vauban
- 19:00** Dinner celebration at the ecoGP partner hotel Vauban:
participants, partners, sponsors, press, media ...

// GENERAL //

In the briefing session the participants will be trained by the eco GP initiator Rafael de Mestre, will be able to ask questions and will get a presentation where the rules will be presented again in detail. Some rules may change depending on the weather and other conditions so the final rules written and hand over the day 7.6.2019 at the briefing will be the agreed ones for all participants.

THESE RULES ARE DEPENDING ON THE AGREEMENT OF THE AUTOMOBILE SPORTS FEDERATION AND AUTHORITIES AND MAY BE CHANGED.