Green Wheels

Operation, Repair and Service of Hybrid and Electric Cars

JULY 2018 | 3. NEWSLETTER

DEVELOPMENT AND TRAINING

GREEN WHEELS NEWSLETTER

DEVELOPMENT OF TRAINING MODULES

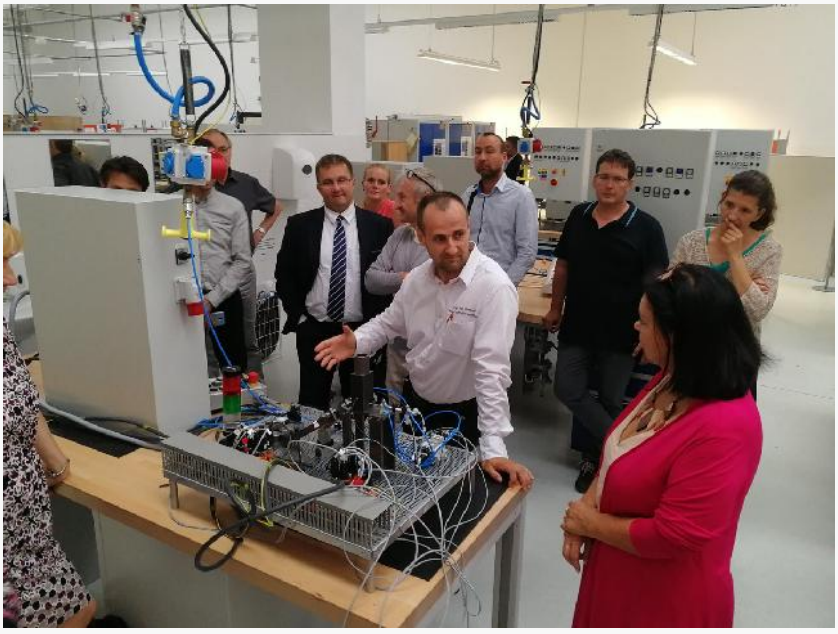
ALL PROJECT PARTNERS

During the past months, GreenWheels project partners successfully developed all modules. Each project country (Czech Republic, Slovakia and Hungary) has translated and adapted to national laws and specific country conditions. UK as a provider of knowledge in GW project was creating videos with content related to each part of the training modules. Pilot training in high schools is still in progress and will continue after the summer holidays.

4TH INTERNATIONAL MEETING IN BRATISLAVA

13.6.-15.6. 2018

In June had GreenWheels consortium 4th international meeting which held in Bratislava organised by Duálna Akadémia. We were mostly talking about the development of materials and project management. In parallel with project meeting was organised also teachers training for non project school.

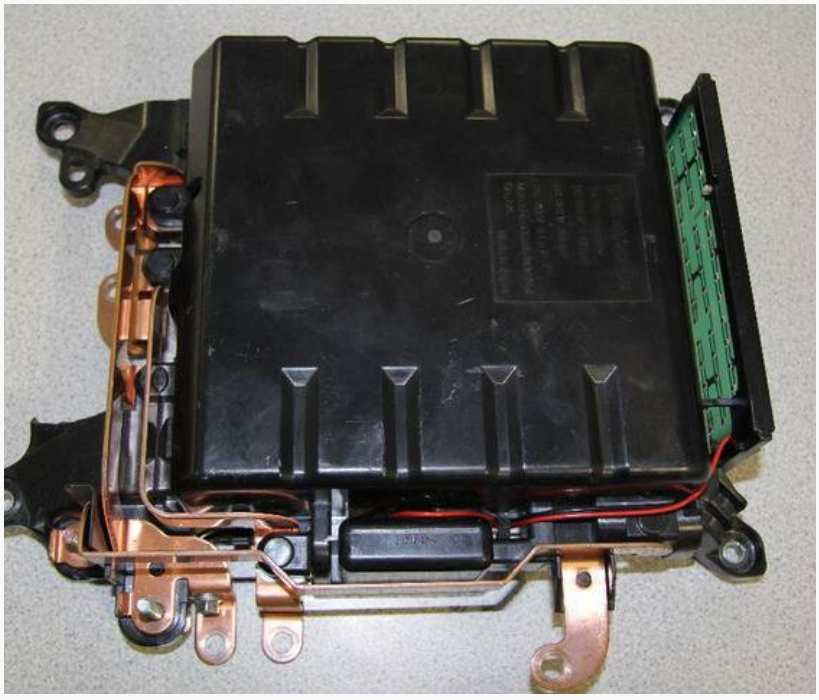


The GreenWheels Project successfully passed through the first interim report. We are on the right way. Last day we had study visit in FEI STU BA and had an amazing presentation about future mobility with the aim of hydrogen fuel cell.

QUIZ FROM LAST NEWSLETTER

RESULTS AND DESCRIPTION OF PICTURES ARE PRIVIDED BELOW

During a recent training course attended by the Green Wheels (GW) technical author, Tom Denton, we took lots of pictures and films that are now being used to create the amazing videos and learning materials that will be available to everybody when the GW project is complete. The three components shown in these pictures are from a Toyota Prius but, in slightly different forms, they are used on all electric and hybrid vehicles.



1. Can you name them? 2. Can you say what dangers they pose if not handled correctly? 3. What do they actually do?

1. Capacitor.

2. It can still hold a very high voltage even when the battery is disconnected!

3. It acts as a short term fast release or fast storage device for electrical power. This protects the battery from surges and makes the operation of the motor/generator smoother.

QUIZ FROM LAST NEWSLETTER

RESULTS AND DESCRIPTION OF PICTURES ARE PRIVIDED BELOW

1. Resolver or motor speed and position sensor

2. Not dangerous (low voltage) but if not fitted correctly the motor would run badly or not at all.

3. Accurately senses the position of the motor so the control unit 'knows' which windings in the motor to energise next.

1. Rotor from an EV motor/generator (twin rotors shown)

2. Very heavy and the strength of the magnets can cause fingers to be trapped and severed! The magnetism can also stop heart pacemakers, and intravenous insulin pumps from working

3. Causes powerful turning force as the coils of wire around it are energised.

All components are from Toyota Prius (first generation). We hope that GreenWheels project will help students to know what are these components using for.

Co-funded by the Erasmus+ Programme of the European Union

GREEN WHEELS