



GREENPOWER



GREENPOWER EDUCATIONAL TRUST

NEWSLETTER

Summer 2024



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National supporter



Regional supporters



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Chief's Chat

by Barnabas Shelbourne, CEO



Since March Greenpower has been full steam ahead!

We have had old team members move onto to new horizons, and new team members join us to help us grow and develop. We have delivered 18 events around the country, and thousands of young people have taken part in heats. That's not including the race seasons that have happened in the USA, Benelux, and Iberia. We are already thinking about how we can do things next season to ensure that everyone has an opportunity to take part in the Greenpower programme, and it remains as engaging as possible.

I've been travelling around the country visiting our Centres of Excellence based in schools, youth clubs, and businesses, where I have been able to meet some of the really dedicated Ambassadors. These individuals go the extra mile to raise awareness about the Greenpower programme, and enable more young people to take part in the amazing initiative.

I've also been meeting with our supporters, and potential new supporters and partners who can help us do more to create more opportunities and reach even more young people. Like many of you, to say the last 6 months has been busy is an understatement, but we wouldn't have it any other way would way!

It's been great to get along to the events too, going to the race heats really brings it home about why we do what we do. At times when we are in the thick of it, with getting all aspects coordinated, and working hard to make sure Greenpower is becoming the best version of itself, it is sometimes challenging, however, when I meet teams of young people, (and their teachers, leaders, and parents), and find out about all the great activities they've been taking part in, and potentially life changing things that have been going on for them, and see their enthusiasm and passion, all the difficulties fade away, and makes all the hard work worth it.

I've enjoyed being able to get to know teams better, and also hear their feedback. It's good getting feedback from our teams, and hearing suggestions about how we can do better. One observation since we've started this season, and being still very new in role, is the number of people that really care about the programme, and Greenpower's future. Thank you to all of you who are so very supportive and encouraging, and being part of something that is both life changing and extremely exciting too. We all really do appreciate the level of commitment that everyone puts in to making Greenpower what it is, and without everyone doing their bit, the programme wouldn't be the life changing challenge that it has become.

We hope you have a great Summer and look forward to seeing you soon.



GREENPOWER



Fundraising and Support

This year we have been really fortunate to have support from Ford, who are trail blazing in regard to their support, which has grown each year. We have also been supported by TAQA, Lockheed Martin, Mirus, Dudgeon Wind Farm, James Dyson Foundation, Perkins, KMF, Renishaw, and Cummins.

We are extremely grateful for their support which helps us to run the events all around the UK and without it, we wouldn't be able to do so.

If you know anyone who you think would like to find out more about supporting Greenpower, please do let us know, we would love to meet them.

As always, if anyone wishes to make a donation, they can do so through our website through the "Donate" button. Everyone donation however big or small helps us to do what we do.

National supporter



Regional supporters

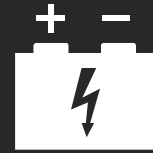




Greenpower Tech Clinic

For a free educational website all about batteries see

batteryuniversity.com



Batteries, Batteries, Batteries!!!!

At Greenpower, teams often report to us that their batteries have died & won't hold a charge or ask how to get the best from their batteries. The key, with the Absorbed Glass Mat (AGM) batteries that Greenpower Teams are required to use, is to ensure they are properly maintained. This is because as with all lead acid batteries, of which AGM is one

type, they will self-discharge over time and suffer from sulphation, even if not connected.

Treated with care, your batteries can give reliable performance for many seasons. Batteries do not just die, lack of care and maintenance kills them. As an expensive component of any Greenpower car, this can result in unnecessary costs for your team.

+ DO

- Recharge as soon as possible after use.
- Remember, to get best performance AGM batteries must be charged in a particular way. Follow manufacturer's instructions and use a smart battery charger, such as listed on our website, with an AGM setting. The charging process if done incorrectly may adversely affect battery life and capacity.
- Cycle (discharge/recharge) new batteries a couple of times before a race to bring them up to full capacity.
- Protect them from vibration during transportation and in use. Adding some thin strips of closed cell foam under the batteries when mounted in your race car can help reduce vibration.
- When not in use, store batteries indoors at room temperature. Storing them in hot or cold temperatures will at best reduce capacity and at worst kill them.

— DO NOT

- Discharge a 12V battery below 10.2V as the risk of irreparable damage increases.
- Heat batteries as it shortens their life. Optimum 20°C. Remember at Greenpower events, battery temperatures may be checked to ensure compliance with regulations.
- Drop batteries as unseen internal damage can result and they may cause injury.
- Leave discharged.
- If you wish to learn more about batteries then you may find the recently launched GS Yuasa Academy helpful. Whilst aimed at distributors and retailers this offers a series of online training modules which you may find helpful.



Greenpower Tech Clinic



We have had a number of new teams taking part this season which is great, and old teams returning. For all those who are not already aware, we do have a big community of individuals who are happy and willing to share tips and advice.

We have different places where information can be sought, one is through our Facebook group which is aimed at Teachers, Youth Workers, and Team leaders. Another is through our Youtube channel, there are a number of films that are relevant to the F24 and Goblin series. There is also our website that holds some useful information for teams too.

GRANTS

For more information about the funding on offer and how to apply, please visit:

greenpower.co.uk/project-areas

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Team member update

We have a new Events Manager that has joined the team, David Pennell. He has hit the ground running since he joined us in May. He's also a bit of a whizz when it comes to creating short films, so if you've seen our Instagram posts lately, that's thanks to David!!

We also have said goodbye to a few Trustees over the past months, Lisa Russell, Luke Horsfall, and Ajai Ahluwalia. We acknowledge their commitment and support for Greenpower spanning a significant number of years. We have also had a new Trustee, Simon Smith join the Board as our Treasurer, Simon has a background in financial services, but also in motorsport, and was a keen rally driver.



Training and Recruitment

We are building up the number of people we have who can take on key roles such as Clerking, Chief Scrutineering, also we are keen to identify anyone who would like to join our Timing team, learn about Race Admin, and also Secretary.

We would like to run some training sessions for these roles in the winter time, so if you'd be interested in one or more of the roles, please do let us know.

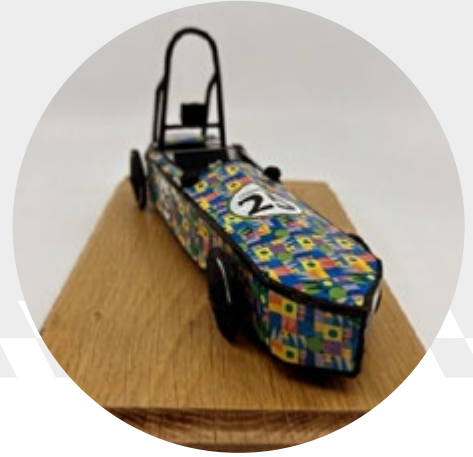
CALLING ALL TEAMS!

If you have any news or would like to share a good story about the impact of Greenpower, please do send it over and we can incorporate it into the next newsletter.

Please send your stories and pictures to info@greenpower.co.uk

YOUR STORY

A Greenpower Story



My reason for applying for the FHS Greenpower team was that I thought it would be interesting and an amazing opportunity. Also, I wanted to learn more about engineering, and have a bit more responsibility. Partway through the racing season, I decided to make a scale model of the FHS Greenpower car because I really enjoy making scale models and I wanted a bit of a challenge.

In the team, I was an engineer. During race days, I would help out with pitstops and maintaining the car, but this would depend on the race, and it would vary. As well as being an engineer, I was also given the role of health and safety officer (It was very much a joke to start with, but I stuck with it anyway).

The biggest challenges for me were assembling the steering on the car and running successful pitstops. The steering was challenging because it involved getting a lot of washers in a very tight space on the car and getting the steering wheel lined up with the steering column.

My best moments of Greenpower include coming 1st at Castle Coombe and coming 3rd at the Lotus Test Track. Seeing the car run for the first time was also very rewarding to see that all of your hard work that you have put in works and that you don't have to do that much else to it when racing.

My scale model is an exact replica of the FHS Greenpower car in 1/12 scale, this means that you can stack up 12 of the models on top of each other to get the height of the real thing, this is the same for length and width.

During the project I learnt how to use CAD at school and made a scratch build model without using instructions as well as converting measurements into the scale it needs to be.

The model is made up of plastic, card, plastic rod, 3D printed parts and brass brazing rod. My Dad showed me how to make decals for the livery by converting the pattern to the right size and printing them onto decal paper and transferring them onto the model. The wheels were 3D printed from my CAD file and I fixed them onto the car with copper brazing rod. The steering wheel was made of plastic rod, and it can turn, although the front wheels can't. The steering wheel includes a brake, horn, radio communications button and hand grips, while the dashboard has a voltage meter and key. At the back there is a battery tray and motor and the wiring at the back of the seat is visible.

I left the FHS Greenpower team at the end of last season and I now come along with some of the other ex-Greenpower members to help the new teams. I decided to come along and help because I really enjoyed participating in Greenpower and I didn't want to stop doing it, it's great working with the new teams. We came third at the first race of the season at Goodwood, first at Mallory Park, third at Castle Coombe and I am very proud of the success.

Frankie Milam, Year 8 student at Frensham Heights School



The season so far

Photography thanks to:





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