



GREENPOWER 2019 CHRISTMAS NEWSLETTER



Greenpower Educational Trust Newsletter

2019



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- Optimising a kit car
- Goblins in curriculum
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SIEMENS



IET The Institution of Engineering and Technology

SOLID EDGE

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SQN



There are many ways in which teams fund their Greenpower project, one of which is through fundraising.

On hand to offer some expert advice is our communications partner, SQN.



What's the key to promoting a project?

You need to get people onboard from an early stage and make them feel involved in your project. Using social platforms to share your progress will help keep people involved your cause, but you need to do this in an engaging, interesting way. What is going to get their attention?



Where are the best opportunities to fundraise?

Once you've engaged with the audiences mentioned above, they are more likely to understand your story and are therefore more likely to support the project through sponsorship. Consider the positive impact and value that you can bring to your sponsors. How is being part of this project going to benefit them and what additional assets can you offer to them beyond having their name on the side of your car?



If you were a Greenpower team how would you go about raising funds?

Start local. There are many contacts and connections within an academic environment to local business who want to support and help educational initiatives. Begin by making a list of the local companies that you would like to target and consider for each of them how your project could benefit them, and the value it can bring to them as a business. Following this, try to arrange a face-to-face meeting and utilise the assets that you've got. Bring your car along with you and showcase what you've already achieved. Demonstrate what your aspirations are and how you're going to achieve them with their support.





Resident experts Eyemouth High School are skilled in raising funds and securing sponsorship for their project and they've been kind enough to let us know a few of their trade secrets.

“In 2018, the Greenpower project was born in Eyemouth High School after a visit from Borders College with their cars. After seeing the potential, Paul Watson, our school technician, wanted to replicate this. In order to make the dream a reality, our team had to find a way to raise funds to purchase their first car.

“We applied for the Tesco ‘Bag for Life’ scheme and were successful in our bid, resulting in a great start to our funds. To further enhance the bank balance, our team looked for sponsorship in the local community as well as in school partners. In return for sponsorship, our partners were given an exclusive package.

“This gave sponsors options for how much they were willing to give in exchange for advertising space on the car. They are regularly kept up to date via our Facebook page, ‘Eyemouth High School Greenpower Racecars.’ Other benefits include a framed photo of the car and invitations to functions at the school, including ‘Developing Young Workforce’ showcases and public events. Our car is always available for them to borrow for any promotional events and we are currently supported by over twenty sponsors.”

The Greenpower challenge has gained lots of media coverage in local publications because of both Eyemouth High School’s success on the circuit, as well as the community work to develop their profile.

“Our success have been down to the enthusiasm of the team principal of the project, Paul Watson. He has put in countless hours approaching local businesses and partners, along with promoting the team on social media, in the community and within the school. We have a team of young people working alongside Paul and Borders College, helping with engineering, maintaining and racing the cars. The success of the project is down to the hard work and dedication of the team.”

Laura Feeny, Greenpower media for Eyemouth High School.





SCRATCHING YOUR HEAD ABOUT HOW TO PROGRESS YOUR PROJECT?



Have your team progressed to a high-level and you or your team are confident with mechanical skills? Are you looking to progress your project – utilising the skills you gained from your kit car build?

This following blog from Gary Coulden-Smith (a friend of Greenpower) includes a guide on how to create a scratch-build car within the capabilities of any school team.

The build does not require the use of composites, chemicals, lathes, milling machines, welders, grinders or anything else not available in school.

It will walk you through the build process, with step-by-step instructions and accompanying pictures.



www.greenpowereasybuild.blogspot.com



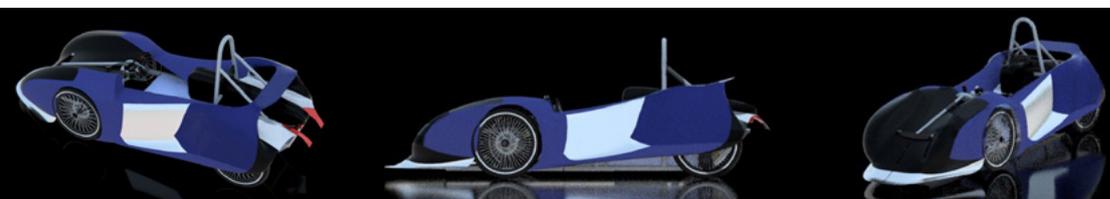
WELCOMING BRAND-NEW TEAM EAGLETRIC TO THE GREENPOWER CHALLENGE

New team on the block, Eagletric, are excited to start their Greenpower journey and have been in touch to let us know a bit more about themselves. Welcome to the club!

“We are a group of teenagers from Lawrence Sheriff School in Rugby, and we have just started preparing for Formula 24. Depending on our funding and availability, we plan to start competing either next year or the one after. Most of our team are studying for Engineering GCSEs, so this will be a great opportunity to put the skills we have learnt in the classroom to use!

“Our car is a cross between our Managing Director’s three favourite cars. The rear is a replica of the Glickenhaus SCG, the front a Jaguar XJR-14, and the cockpit is similar to a Jaguar D-type.

“Our Chief Designer was also Head of Design for Alpha Phoenix, a Jaguar Land Rover 4x4 in the school’s competition team, winning last year’s regional finals. The competition was to build a fully functioning 4x4 RC car. We believe that the Greenpower F24 project is a step up from that, along with being an engineering challenge to further push ourselves.”





FULLY KITTED?

HERE'S HOW TO OPTIMISE YOUR KIT CAR



Not confident enough to create a scratch-built car? Fear not, we've spoken to one of our teams who have made their kit cars more competitive through just a few adjustments.



School: Whitgift School



Team: Whitgift Racing



Car: WR01



Alterations:



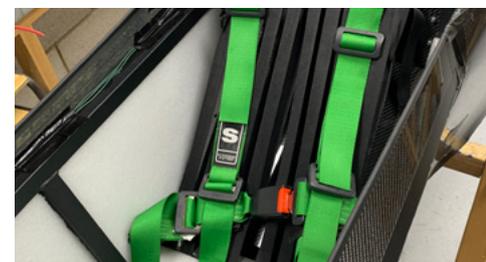
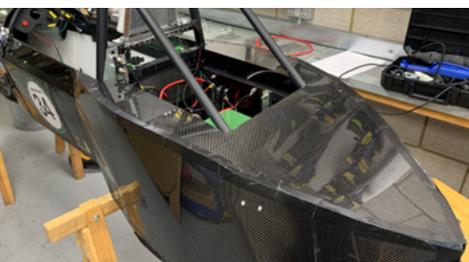
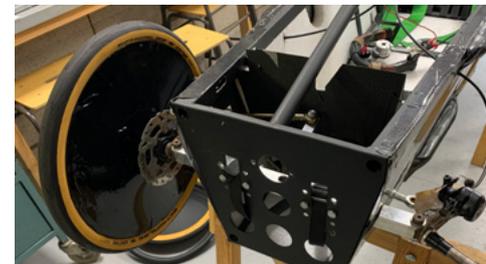
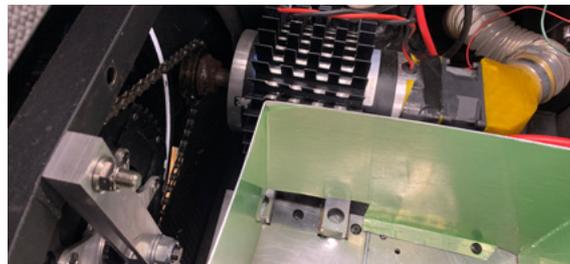
Front Axle: We have removed the front wishbones and made a new solid front axle that is bolted to the front bulkhead of the car. The stub axles are simply fitted to the axle with shoulder bolts so there are no bearings required.

Rear Axle: We removed the solid rear axle and uprights, replacing them with two aluminium uprights with shoulder bolts as axles. This allows the rear wheels to be closer to the car, allowing us to drive a sprocket mounted directly onto the wheel.

Drivetrain and cooling: Following the redesign of the rear axle, we moved the position of the motor and batteries. This also makes cooling simpler as air can be easily ducted up from under the car. We have two air intakes, one that is directed through the motor using 3D printed adaptors, including a fan that is controlled by the driver. A second intake is directed across the motor heatsink.

Seat: We have removed the metal seat and replaced it with fabric webbing to reduce weight and improve comfort for our driver.

Bodywork: Moving the rear wheels closer to the car allowed us to encase them within the bodywork - improving aerodynamics.





IMPLEMENTING GOBLINS INTO THE CURRICULUM



We love seeing how Greenpower cars are creatively implemented within schools, and both The Federation of Boskenwyn & Germoe Community Primary Schools have impressed us with the way they have achieved this in their first year in the project.

“From the start of the project we decided to schedule building the Goblin into the timetabled school day, opposed to starting an after-school club. We wanted to make sure the project was accessible to all Y5&6 pupils. The benefits of doing this became clear as the build progressed as many children who would not have thought of joining an extracurricular club became highly engaged. They realised the range of activities on offer and quickly found their niche within the team.

“Our curriculum is delivered through an enquiry-based learning model and the Goblin project is ideally suited to this. It can be planned around the needs of the children in the group to promote curiosity, has clear outcomes and provides an applied context for the skills they have learnt. Aspects of the project are applicable across the KS2 curriculum, including maths, science, English, design, art and even history if you have time! The project has brought key parts of the curriculum to children in new ways (for example, children who claim they didn't like maths were remarkably keen to be measuring and calculating dimensions for their Goblin bodywork).

“2019 was the first year of participation for both Boskenwyn & Germoe schools in The Greenpower Challenge. The very generous Motorola grant reduced our initial contribution to a manageable figure to allow us to include it in our curriculum budget.

“Once we received our kits we had a fairly tight timescale of 6 weeks to get ready for our first event which certainly focussed our minds, so we set about breaking down the build into group activities.

“We had hands-on groups working on the main chassis, front & rear axles, and the electrics whilst design groups investigated materials and graphics for the scratch-built bodywork. As work on the different stages of the build were completed, children moved onto the aspects which interested them. New groups formed to write-up the build portfolio and working out how to test our car when it had been completed.





IMPLEMENTING GOBLINS INTO THE CURRICULUM



“Problems encountered or improvements to the design were discussed at length. As the car began to develop, our thoughts turned to the first test day and anyone wanting to take a turn driving put their names down and we created a rota.

“The initial runs created opportunities for problem solving - issues with brakes, drive belts and batteries had to be ironed out before the race day at Predannack, which was quickly approaching.

“Finally, all that was left to do was deciding roles on the day - who would be driving and pushing for each event? After making the all-important decisions, race day finally arrived! The teams were delighted to finish the day with two first places and two third places in the sprint & lap of champion events.

“We had planned to only enter our local event at Predannack in our first year, but the children (& adults!) enjoyed the event so much that we decided to attend Goodwood for the ‘Gathering of Goblins’ a couple of weeks later. This last-minute decision meant we could only take a small team this time, but we were blown away by the scale and organisation of the day as well as the venue itself. Winning the fastest time in the lap of champions & second in the drag event capped a great first year for the teams, who can’t wait for the 2020 build to get started. Feedback we have received on the project has been amazing, with many children identifying the Goblin as their highlight of the year.”





DOMINIC SIBUN EVENTS OFFICER

Q1 Which three words would you use to describe your role?

Communications, logistics and analysis.

Q2 What is your motto or personal mantra?

You miss 100% of the shots you don't take.

Q3 What's your favourite line from a film?

Life is like a box of chocolates – you never know what you're going to get.

Q4 Do you know any weird or interesting facts?

Your stomach turns red(der) when you blush.

Q5 Dream destination to visit?

New Zealand and Australia or America!

Q6 What's your favourite event in the Greenpower calendar?

I really like Grampian Transport Museum and Predannack – both have a fantastic atmosphere on the day, are very unique in their layouts and involve fantastic participation from outside agencies.

Q7 What are some of your pet peeves?

Hypocrisy and ignorance.

Q8 If you could design a Greenpower kit car what would it look like?

Probably similar to The Homer!

Q9 What's one thing that surprised you about working at Greenpower?

How involved with the project that some teams are – it's fantastic to see the level of commitment that teams provide.

Q10 What does the future hold for Greenpower?

An inclusive multinational network which engages, supports and grows within schools.





HOW TO CONNECT WITH LOCAL INDUSTRIES



Gavin Woodruff (all-round nice guy in the office) offers some advice about how to connect with local industries.

Is there a best way to connect with local companies?

The simple answer is no, you have to communicate with a local employer in every way possible. Companies respond to different formats in contrasting ways; emails, direct social media, phone calls and letters to name a few. Importantly, you need to involve the participants as businesses understand the weight of the project more when they are speaking to those directly involved.

How to know which company to approach?

Never be afraid to approach anyone, for example, your local food shop may be able to help supply event day packed lunches, for example. Always be on the lookout for those who are already engaged with the local community as these organisations are most likely to have a team established to help with your enquiries.

What can a team give a sponsor?

Whatever you can imagine – just make sure you are asking what the sponsor would value. A brief overview would include: engagement on social media, treating the sponsor as part of the team; keeping them informed and making them feel valued. Secondly, think of your car as one giant advertisement banner – organisations highly value inspiring pictures of young adults working side by side and engaging with their brand.

What to ask for from the sponsors?

As a team leader you are looking for support on the project, everyone concerns themselves with the financial aspects but often overlook asking for holistic support, such as mentors, project planning, logistics and basic equipment. A local garage with a welding shop and expertise can be more valuable to the team than just looking for financial support.





HOW TO CONNECT WITH LOCAL INDUSTRIES



Slindon College created a partnership with local Company GTR. They have been kind enough to tell us about how this came about.

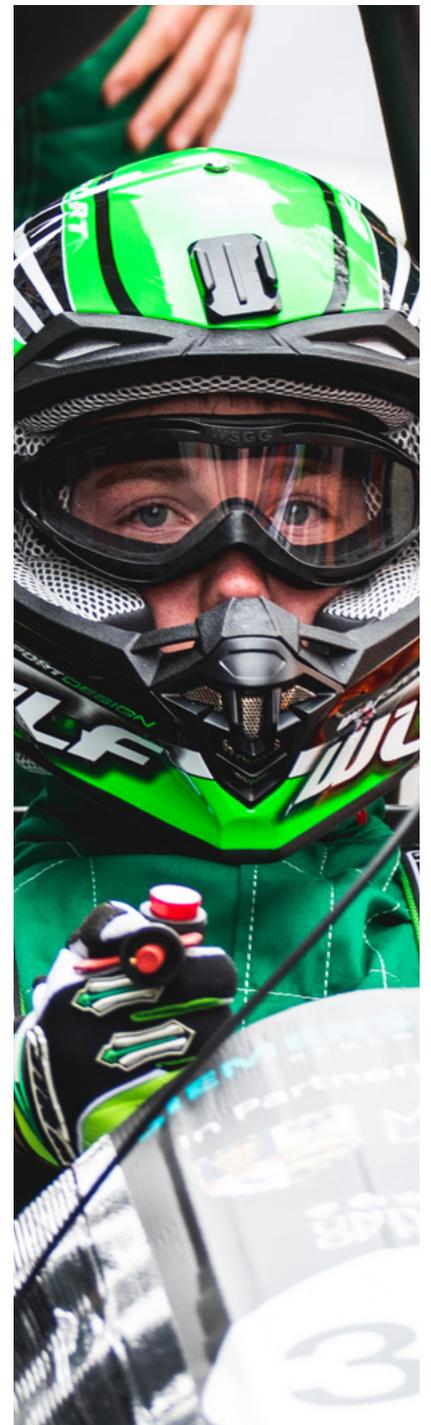
“Three years ago, we made contact with a local composite company called URT Group Ltd and planned to work with them on making a new carbon fibre body for one of our Greenpower cars. They produced the moulds needed for us to store, ready for using at a suitable date.

“Unfortunately, the company closed down and were unable to make our new body work. A few months ago, one of our College receptionists informed me that her son was working for a local company called GTR and suggested I contact them regarding helping our Greenpower team.



Can you spare a day to inspire young people to excel in Science, Technology, Engineering and Maths? Greenpower Education Trust needs volunteers across the UK to run our motorsport events. From Marshalling, Scrutineering and Safety checking there is a role for everyone. You don't need experience or expertise as you will be fully briefed!

For more information contact poppy@greenpower.co.uk



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HOW TO CONNECT WITH LOCAL INDUSTRIES



GREENPOWER EDUCATION TRUST

Hull Street Race 2020

Date: 03 May

Outside regional teams apply now:

entries@greenpower.co.uk

Spaces limited

Applications close midnight 26 January



*Kit cars only

"I rang and spoke to the GTR Motorsport Business Manager and explained our situation. They proposed that I measure and photograph the moulds and send over the information. After talking to the directors, GTR got back to me with the exciting news that they could help us to produce new bodywork for our Greenpower car. We took the moulds down to GTR and our partnership began."

GTR have said "We are always keen to help with projects like these." This exciting partnership shows that sponsorship and assistance can arise from the most unlikely of sources, so don't give up!



JOKE CORNER

Who hides in the bakery at Christmas?

A mince spy!

What did the Christmas card say to the stamp?

Stick with me and we'll go places!

Feel free to e-mail your jokes into

newsletter@greenpower.co.uk



WHAT'S YOUR STORY?



Send your stories and pictures to: newsletter@greenpower.co.uk to feature in the next issue! This could include:

Any Greenpower activities your team is doing

A report of a race day

How Greenpower has benefited your school

Any Greenpower themed jokes

Artwork/drawings that are Greenpower based

Additions to newsletter you would like to see

Other interesting stories



CONTACT US

Give us a call for more information or drop us an email at:



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Visit us on the web at:
www.greenpower.co.uk



If you could use some media support, have a story which might be of media interest, or any sponsorship success stories of your own, please contact our communications partner SQN at greenpower@sqn.agency. They will be more than happy to hear from you!

Could you use your Greenpower team to help Sport Relief 2020? Let us know if you have any plans or need some inspiration by contacting harriet@greenpower.co.uk.

