



GREENPOWER 2020 SPRING NEWSLETTER

Greenpower Educational Trust Newsletter

2020



IN THIS EDITION:

- Goblins in curriculum
- Enhance your Goblin
- Innovations in sustainability
- Staff Feature
- Greenpower track records
- Funding advice from Chipping Sodbury School
- Twitter confusion?
- Joke corner



Follow us on Facebook



Follow us on Twitter



Follow us on Instagram

For the latest updates on how Greenpower events are affected by Coronavirus Disease (COVID-19), please visit our website:

<https://www.greenpower.co.uk/news/coronavirus-disease-covid-19-outbreak>

Global partner

SIEMENS

National partner



National partner



National partner

IET
The Institution of
Engineering and Technology

Global technology
partner

SOLID EDGE

Legal partner

Hogan
Lovells

Communications
partner

SQN



2020 RS CLUBMAN LICENCE

By applying for a 2020 clubman licence, you may be entitled to the below benefits – it's free to sign up for so see if you are eligible!

RS Clubman Member Benefits

You could save hundreds of pounds a year on your motorsport costs with our member benefits scheme. The discounts include reduced cost fuel, reduced cost tyres, free eye tests, discounts at Halfords, and reduced insurance premiums among many others. These benefits and more will become available in January 2020 – once you have received your membership pack.

Your personal accident insurance cover is significant as an RS Clubman member, to offer you peace of mind as you will be covered by a £100m public liability provision.



GREENPOWER GOBLINS - KELLANDS SCHOOL

At Kellands, we have taken part in the Greenpower Goblin Challenge four times. Each time we've built the cars from scratch and raced them as part of an interdisciplinary project with our Primary 7s. We have also been very fortunate that our Parent Council has supported us by helping to fund our two cars.

The project is a great way to encourage collaboration and teamwork. The pupils always look forward to building the car and consider it one of the highlights of their final year at Kellands. Teachers have different approaches to running the project depending on the needs of their class.

Each year we have had parents and volunteers from industry to help with building the car. The pupils help to dismantle the previous year's car before building it again. Different aspects of the project appeal to different pupils, with opportunities to share many different skills from across the curriculum. Apart from the actual building of the car, the other important area is designing the bodywork. We like to embrace the environmental theme of Greenpower and put a lot of effort into creating original 'green' bodywork. This has been rewarded by achieving two 'Greenest Bodywork' awards and two 'Best Bodywork'. We are very proud to have come away with an award each time we have entered the challenge.



GREENPOWER GOBLINS - KELLANDS SCHOOL

All pupils get a chance to drive and test the cars once they are built. They have fun doing time trials and perfecting their techniques in the slalom. We then choose a team made up of drivers and pit crew for the actual race day. Maybe driving the cars is the area of the project to concentrate on in 2020; we have not won any awards for the actual races – yet!

We have been taking part in the Greenpower Goblin Challenge three times. We build and race the cars as part of a Primary 7 project in Term 3 or 4. There is a lot of potential for using Greenpower Goblin within the Scottish Curriculum for Excellence, for example:



Maths: Problem solving, measure, time trials. We also link the project to Maths in Motion <https://mathsinmotion.com/> an online maths challenge to virtually build and race F1 cars.



Literacy: Formal letter writing for sponsorship, putting together the portfolio.



Technologies: Design & construction (TCH2-09a), exploring materials (TCH2-10a), application of engineering (TCH2-12a), in both design of bodywork and in being involved in the construction of the car.



Expressive Arts: Art and design (EXA 2-06a) developing ideas for a design solution – bodywork, logos.



Social Studies: Can run as a business with collaborating, making choices and having different roles and responsibilities (SOC2-22a).



Science: Investigating friction, air resistance, efficiency in moving objects (SCN2-07a). Understanding of electric power and batteries (SCN2-10a).



Health and Wellbeing: Representing the school (HWB 2-12a), developing skills for the future (HWB2-19a, 20a), social skills – teamworking, collaboration.



Developing the Young Workforce: Understanding the relevance of skills to the wider world and make connections between skills and the world of work. Recognise skills they have and need for work.

This gives an idea of the areas of the curriculum we have covered through the Greenpower Goblin project. Different teachers will focus on different areas to suit the needs of the class. Pupils usually work in teams, with everyone getting a chance to be involved with building the car, designing bodywork, driving and testing the car.

We usually have volunteer engineers/project managers/parents who help the class teachers. In the past we've also had Mechanical Engineering Masters students from the local university supporting the pupils. There are lots of opportunities for links within the community and local business.



ENHANCE YOUR GOBLIN

SELBY ABBEY PRIMARY SCHOOL

“After taking part in the Hull Race Day 2019, we quickly decided that we had to continue this exciting project. Not only had the children all been enthused, excited and incredibly engaged, but each and every one of them had been given the opportunity to learn new skills and flourish. Moving forwards, we have chosen to base a full unit of work around the Greenpower project. It is something which provides awe and wonder whilst also encouraging them to be inquisitive and resilient – all areas that are of huge value and importance.”

“We will teach the unit for a term and plan to use it in Design Technology (design and make a model car, then the real thing), Maths (speed, time trials, distance), English (diary entries, writing to Drax Power to thank them for funding, applying for race day jobs), History (history of vehicles as a significant turning point, inventors and famous drivers, comparing it to what was happening across the world at a similar time), Geography (improving locational knowledge through where parts may be obtained from or where uses electric cars etc) Science (forces and electricity), PSHCE (sustainability) and Art (bodywork). We have looked carefully at the National Curriculum to ensure that explicit links are made and that we get the most out of this fantastic project.”

- Mrs Stacey Cannon





ELECTRIC PLANES

This fully electric aircraft has had its inaugural test flight in Vancouver and stayed airborne for 15 minutes - a long way to go until a commercial flight but promising none the less!



THE GREAT BUBBLE BARRIER

An innovation recently implemented into Canals in Amsterdam – the concept is simple; a tube along the bottom of the canal which filters rubbish into a 'collector' at the canal side. It has no impact on wildlife or boats passing over. Worth a watch!



DRONE RE-FORESTATION

A fantastic innovation to help with the drastic loss of forest, these custom-built drones help to survey landscapes and plot the best planting spots for the given landscape – a very forward-thinking idea and worthy of a watch!



SOLAR SUNFLOWERS

This fantastic innovation seeks to solve the problem of the limited usability of solar panels. By 'tracking' the sunlight, effectiveness is increased by up to 400%.





STEVE NEWMAN

STORES AND TECHNICAL MANAGER

Q1 What do you consider to be your final goal in life?

Survival

Q2 What invention would you go on Dragons Den with?

A garden portal that gives me access to my own private race track with no noise sensitive neighbours.

Q3 Who are your sporting icons?

None - I do not idolise people!

Q4 Three wishes for next season?

1. Good Weather
2. More volunteers for scrutineering!
3. Digital log books

Q5 What's your other passion in life? (besides Greenpower of course)

I really enjoy walking, there's nothing better than taking my collie to the beach.

Q6 Favourite line from a film?

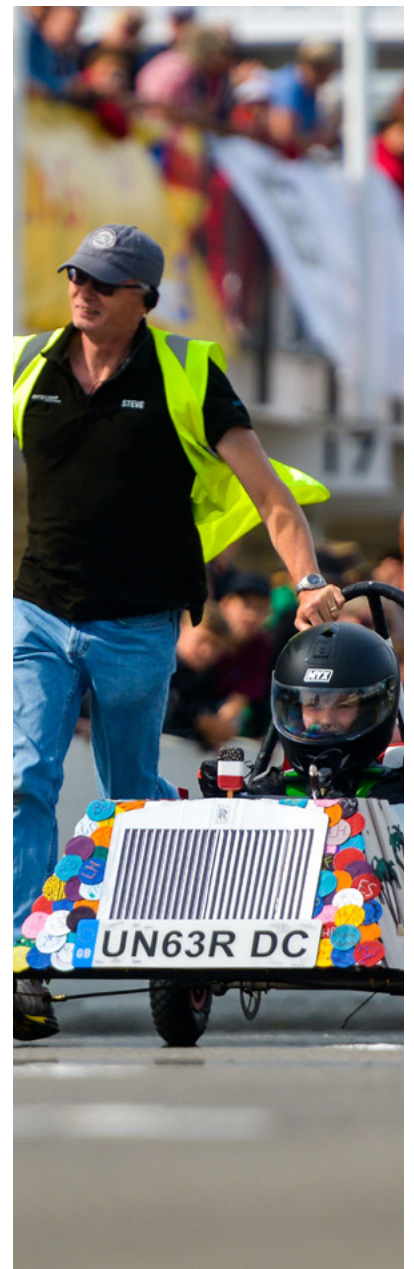
Marvin the paranoid android: "And then of course I've got this terrible pain in all the diodes down my left side."

Q7 Favourite thing you've learnt about yourself since joining Greenpower?

I can deal with children - knowing I can hand them back!

Q8 What does the future hold for Greenpower?

Global domination...





GREENPOWER TRACK RECORDS

Goodwood

F24: 4'8.219 (34.8mph) Rotary Racer Chipping Sodbury School 8 Jun 2014
48m RLR 3 Richard Lander School 10 Jun 2018

F24+: 3'24.675 (42.2mph) Jet Cullimore Racing 8 Jun 2014
40.8m Jet II Cullimore Racing 19 Jun 2016

Castle Combe

F24: 3'1.207 (36.8mph) Kernow Kittz Truro High School 16 Sep 2018
46.3m RLR 3 Richard Lander School 16 Sep 2018

F24+: 2'41.991 (41.1mph) Jet II Cullimore Racing 25 Sep 2016
40.7m Jet II Cullimore Racing 25 Sep 2016

Dunstable

F24: 1'28.668 (31.7mph) Blaze St George's Academy Ruskington 9 Sep 2018
41.3m Rotary Racer Chipping Sodbury School 21 Sep 2014

F24+: 1'19.057 (35.5mph) Jet Cullimore Racing 21 Sep 2014
35.1m Jet Cullimore Racing 21 Sep 2014

Aintree

F24: 2'46.212 (33.4mph) Q] Dylan Lafert Sandbach High School & Sixth Form 21 Sep 2016
41.6m Q] Mr Basil Slicker Sandbach High School & Sixth Form 20 Sep 2017

F24+: 2'25.089 (38.2mph) Jet II Cullimore Racing 21 Sep 2016
37m Jet II Cullimore Racing 21 Sep 2016



FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

At the Greenpower's 2019 20th anniversary final, Chipping Sodbury School won the prize for the most built cars in Greenpower's history. 26 cars and all but the first two (Eagle kits) have been scratch built. To achieve this, we have needed a constant flow of funding so as part of our ongoing contribution to the Greenpower community this article shares some of the learning we have gained in raising the necessary funds.

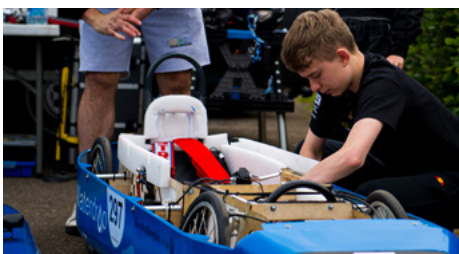
The first stage in the process of raising funds is to decide how much you need. It may seem an obvious question but unless you know how much you need you won't be able to decide how best raise it. We see so many people just ask for money with hope of getting some. Most people who donate want to know how much and why you need it. "we are building and electric car to race" is just too generic and slightly lazy.

But first let's tell you a little bit about ourselves and why we have to raise so much money.

We first competed at the end of the 2004 season with two Eagle kits cars but from 2005 we started building scratch cars. Though kit cars are an excellent way of starting the Greenpower experience over time we believe the scratch-built approach gives our students a better and longer-term learning process. In 2019, we raced the most cars ever in one year, five in F24, two of which also raced in F24+. If you look closely at the cars you will also note that they are all different in design. This because we have four individual parent led teams; Sodbury Charges, Rotary Racer, Chain Reaction and POD Movement all competing against each other. However, running five cars costs quite a bit, the event costs alone in 2019 were £2,230 +VAT (24 events entries, 2 test events entries and 2 F24+ entries). In addition to this, 4 of the cars had upgrades and one new car, RRX, was completed at a further approximate cost of £1,500.

It's also worth noting that each team will try to build a new car every 3 years. This means that every student in the club will get a chance to build a car from scratch whilst they are at the school. The typical cost of a new build is £2,000 and it'll take about 18 months to build. So, where do we get all the money from?

Over the years we have learned who to ask and how best to ask.





FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

Look for funding from School

School funds?

As Chipping Sodbury School is a local authority funded school, all school funds are dedicated to curriculum activities. As our Greenpower club is very much extra-curricular all funding comes from other sources.

Though many singular state schools (like us) will have issues with funding Greenpower out of school funds, pooling academy resources and using the external relationships nurtured by independent schools and colleges are always the first places to look.

Parent Commitments

Though Chipping Sodbury School hosts the club and provides access to the workshops and experienced teaching staff, our teams are parent led. Every student who attends must have an accompanying adult who will help the students design, build and race the cars. To join the club, students must give up 3 hours on a Monday evening but the 'accompanying' adult needs to commit to the same amount of time, also joining in with the activities and financially getting their child to each of the events. This means the costs at the events and getting to the events is funded directly by parents. Those parents who find this financially difficult will get support from others in the team as long as they are seen as being active supporters in the sessions.

A team recently mentioned to us that they couldn't get to events because they didn't have a mini-bus. You don't need a mini-bus! You just need a parent with a van to take the Greenpower car and parents who have cars. We are incredibly lucky to have parents who are engaged and work together to easily get us to events.

We also spoke to an independent school at one of the events last year who couldn't believe our level of parental engagement. They mentioned that most of their parents expected the school to pay and support the activity from what they pay in fees. I find this so sad, as a huge part of Greenpower for our adults is the ability to pay-back to our kids what we have learned through our own experiences. Even some parents paying hefty school fees will wish to help pay-back some of their knowledge to these activities.



FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

PTA

Most schools have a parent and teachers association (strangely we don't) who actively raise money for additional school funds. Depending on location and type of school the funds raised can be from a few thousand to hundreds of thousands of pounds. The main benefit of the PTA is that most are charities and many sources of external funds can only make payments into a registered charity. "If you don't ask you don't get"

Local councils

There are many youth or community grants available from your local councils. Our local councils give us between £250 - £400 per year. Additionally, community and parish councils also have budgets for groups. Our local Parish regularly gives us £250 per year.

Be prepared to present to local councilors. Most will give you 15 minutes of their meeting for you to showcase what you do, what you want the money for, how much you want and, most importantly, what the benefit is to the students and to the community. We recently presented a case for £2,500 for a new build and was given £1,500. However, never over present your costs as there is always someone in the audience that will catch you out. Be honest and humble.





FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

Businesses

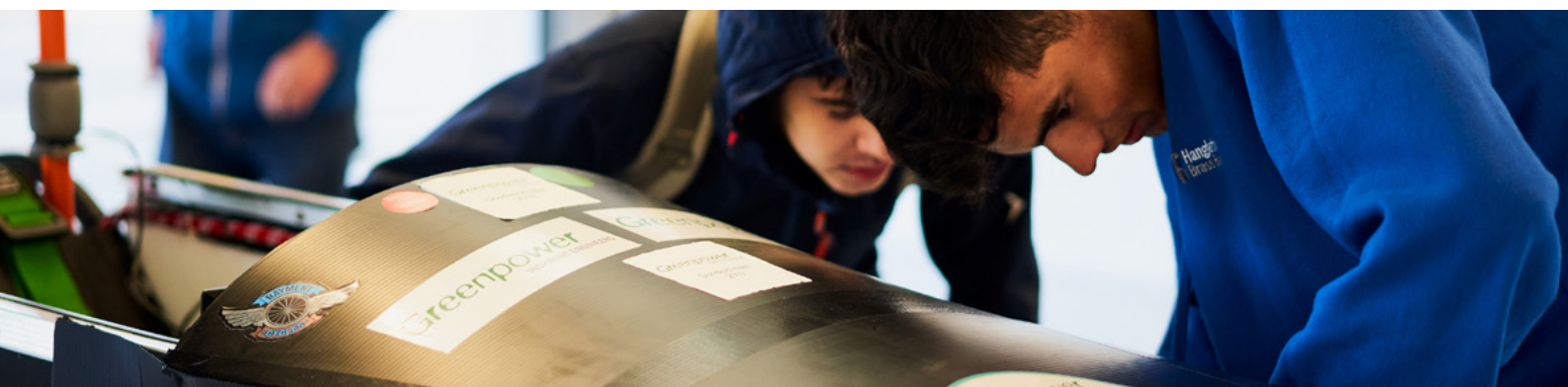
Large companies are always looking for community and charity projects to invest in, as charitable donations look good to investors, employees and other community stakeholders. They are generally happy to provide up to £350 without much evidence of what you want it for, and show great interest in using you for local news stories and articles in their internal newsletters. Write to their media and/or sustainability contacts. Don't waste your time writing to the chief executive or to general contacts.

Employees at large companies also sometimes have the ability to do match funding for charitable activities. For example, the employee raises £300 and their employer will match it. Reach out to all of your parents, grandparents etc. who work for these types of companies. We have had several parent employer contributions of typically £250.

Small companies usually wish to promote themselves and will give you sponsorship in exchange for their name on the side of your car. They can also be really useful to the team, providing additional support depending on the business.

When writing to companies remember to give them a story with photos (try and get a few parents who are happy for their kids to be photographed looking proud of what they do). Images of happy, smiling kids benefiting from a businesses' sponsorship is 'gold' to a company's media team. Remember again to tell them what you do, what you want the money for, how much you want and, most importantly, what the benefit is to them. Don't pretend to be a F1 team and charge excessive amounts for giving them advertising space on the car. The number of people who will see your car and the advertising is very small.

Don't bother approaching a company that provides components to all other Greenpower teams as they are likely to be swamped by requests. If you are looking for cheap or free components, then only ask those companies where you are likely to be the only requester, such as local suppliers.





FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

Promote yourself

Newspapers

Write to the local newspapers with news stories. Local, free newspapers are still widely read, particularly by older people who are more likely to be involved with local grant applications and councils. In general, newspapers are desperately looking for interesting stories to slot amongst their adverts. They usually only have one reporter, so help them out and write the story. It's much easier for them to edit the story and print a picture than to come out to interview you. Though this won't generate funds, it does help you promote yourself to people who have money.

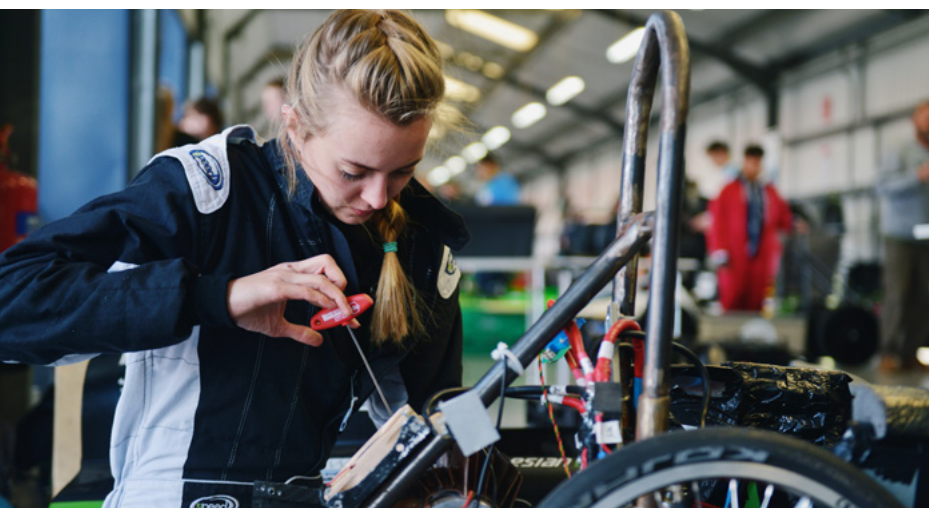
Be careful promoting yourself on social media

Asking for money on Twitter or Facebook general just gets you a load of sympathetic 'likes' but no money, especially as you are asking a community who is also looking to raise money. However, it will get your message out there!

'Just Giving' is great for sponsored bike rides and likes but tend to be small amounts unless you are raising money for health or animal charities.

Invite community groups to see you in action!

Invite community groups to come and see you building your cars or make presentations at their regular meetings. These groups (U3A, WI, Towns Women's Guild, Preservation Societies), are generally full of like-minded people who are naturally raising money for charity. The last event we held for one of the groups, 40 people attended, and contributions of the night raised £100 (without even asking for it). Most of these attendees are also members of other groups so this is a great opportunity to share to more about what you do.





FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

Other sources of funds

Supermarkets

Most supermarkets offer shoppers the chance to drop a token into a box to provide a share of typically £1000+ between several charities. Some supermarkets will require you to have a charity number and some don't. It took us 9 months from application before we were chosen as one of the three 'good causes' and though we were pitched against a nursery and a general prize fund for local charities, we received 45% of the pot.

Be thoughtful on how you write the note for the token bin. A technique we used was to write it as if we were writing to our grandparents. Don't write it as a formal statement but as an informal story.

If there are about 10 of you in the team then you can also do 'bag filling' at the end of the super-market checkouts. Each of you can have a bucket for the shoppers to make donations.

Fetes, fairs and Carnivals

Most towns and schools have some kind of event each year, with stalls holding raffles and tombolas to raise money. Most stalls cost about £20 and if you run a raffle or a competition based on electrical power (e.g. running a loop along a copper wire without the buzzer going off) you can typically raise £300 on the day. Most of these events are run through the summer so plenty of time to investigate where they are and plan what will be on your stall.





FUNDING ADVICE FROM CHIPPING SODBURY SCHOOL

And finally...

The suggestions above aren't conclusive and if anyone has any other ideas, we would love to hear about them! Over the years, we have built up relationships with regular donators which makes it a lot easier.

They say charity starts at home and most donators will wish to see you are raising your own money through other 'closer' donators/events.

In asking for funds you must be humble and honest. Also, make sure you keep your donors up to date with your performance and how you are using the money.

The more you communicate with them the more likely they are to give more funding next year.

Remember, unlike professional motorsport (where donations are in exchange for advertising and market awareness), our donations help kids gain a wider understanding of the STEM subjects. It is more about asking people to support STEM learning and giving back to education and not about promoting themselves.

Good luck! There are lots of people out there who wish to help you fund your Greenpower activities.





TWITTER CONFUSION?

You may have seen a new Greenpower Twitter page appearing on your feeds, but don't worry, we now have two accounts!

The first one, the one you all know and love, has had a slight name change. What was **@Greenpowertrust** is now **@Greenpower_team**, the perfect place for you to all chat, see each other's progress and interact directly with us.

The old username, **@Greenpowertrust**, has become our business account, where we will be sharing our activities to a more current affairs and business-oriented audience. You are very welcome to follow us there, but don't be too disappointed by the lack of GIFs!

Please keep tagging us in your progress via the **@Greenpower_team** account; we love seeing what you are all getting up to!



JOKE CORNER

Why did the electric car finish the race early?

It had a short circuit.

How do electric cars go into battle?

They charge.

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

Artwork/drawings that are Greenpower based

How Greenpower has benefited your school

Additions to newsletter you would like to see

Any Greenpower themed jokes

Other interesting stories



CONTACT US

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



The Greenpower Centre
Arundel Road
Fontwell
West Sussex
BN18 OSD



01243 552305



info@greenpower.co.uk



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!

