

Greenpower

INSPIRING ENGINEERS

August Newsletter



Greenpower Educational Trust Newsletter

August 2019

'As these children now move onto their respective senior schools, it leaves a very high benchmark for the new 'apprentices'.

Thank you to you and your colleagues for the most awesome start to Motorsport on offer!'

- From a leader of The Downs School F24 Team



2019 events

Click the map to see which events we held in 2019.

If you wish to find out more about the events please visit our events page [here](#).

In this Issue

- Greenpower events
- Competition time
- Meet the team
- Exhibition information
- Be your best battery
- Ambassadors
- Case study
- Keep it touch

Global partner

SIEMENS

National partner



National partner



National partner



Global technology partner



Legal partner



Competition time

Win yourself this lovely set of Greenpower merchandise including; sunglasses, mugs and pens.

What we are looking for;

- A short video (around 30 seconds to a minute).
- A recreation of a famous movie that includes your Greenpower car/s.
- For more information please contact: dominic@greenpower.co.uk

‘Hang on a minute lads, I’ve got a great idea! ‘



Joke corner

What was wrong with the wooden F24?

It wooden' go!

My sister bet me I couldn't make a car out of spaghetti. You should have seen her face as I drove pasta.

Feel free to e-mail your jokes into newsletter@greenpower.co.uk



Humberston
Cloverfields
Hull Street
race display



Follow us on Facebook



Follow us on Twitter



Follow us on Instagram



Meet the team



Nicollette Lane, Executive assistant

Q1. What three words would you use to describe your role?

Support, promote, grow.

Q2. What is your motto or personal mantra?

Treat others as you expect to be treated.

Q3. What's your favourite line from a film?

Right turn Clyde

Q4. Do you have any strange phobias?

Bananas

Q5. What would you name your very own Goblin or F24?

Herbie

Q6. If you were a crayon, what colour would you be and why?

Yellow, because then I could colour in the sun.

Q7. If you could be any animal, which would you be?

A penguin because they are loyal.

Q8. What are some of your pet peeves?

Repetition, unfairness and animal cruelty.

Q9. At which shop would you like to max-out your card?

John Lewis as I could get something from every section.

Q10. Who would play you in the story of your life.

Meryl Streep

Q11. Three people dead or alive you would like to have a dinner party with.

Dawn French

Robin Williams

Julie Walters

Q12. What does the future hold for Greenpower?

Touching more young lives with the project.





Exhibitions

Lots of you get to meet us (The Greenpower Team) at event days, but if you're lucky enough then you may spot us at a number of exhibitions around the UK.

This year we have attended / will be attending:

- A wide range of Goodwood events, including: Breakfast Clubs, The Festival Of Speed and the Revival.
- Siemens Fun Day.
- Norfolk Science Festival.
- Northern Powerhouse Conference.
- Engfest.

We attend these exhibitions to talk to the public about who we are, what we do and about how to get involved.

As staff we love attending these exhibitions as it allows us to talk about something we all love—Greenpower.

It also gives the public a chance to partake in activities such as having a go in one of our Goblines, or completing a wheel change on one of our F24 cars.

To find out more about Greenpower and our exhibitions please contact:
info@greenpower.co.uk



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:

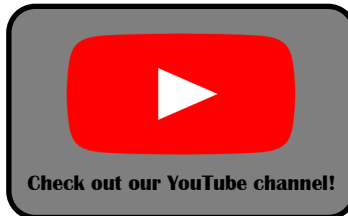
- Recharge as soon as possible after use.
- Remember, to get best performance AGM batteries must be charged in a particular way. Follow manufacturer's instructions and use a smart battery charger, such as listed on our website, with an AGM setting. The charging process if done incorrectly may adversely 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.

For a free educational website all about batteries see Battery University.



Ambassadors

Do you need help with your Greenpower project?

Batteries depleting your power?

Grubscrews got you in a twist?

We have a wide range of ambassadors and volunteers who very kindly are willing to spare their time to help you with your Greenpower projects.

See a list of our ambassadors [here](#).



Jon Martin, our West Sussex ambassador, receiving an award for his hard work with Greenpower.

Ambassadors are crucial to the service we provide to young people, helping us to reach more schools each year. Your level of involvement is entirely up to you and the time you are able to give. Joining our team as an ambassador will enhance your own career as well open up opportunities for young people.

To apply to become a Greenpower STEM Ambassador please email: info@greenpower.co.uk

Ambassadors / volunteers available to help

Robert Mitchell - available to help

- Schools within an hour's drive of Crawley.
- Happy to help secondary schools with their F24's

Ambassador in the Derby region

- Looking to help schools over the Winter.

If you are interested in help from our network of volunteers and ambassadors please contact: olivia@greenpower.co.uk.

Alan Slade, one of our Scottish ambassadors, helping a team with their Greenpower car.



Case study — Beachborough School

The team's story

Our Goblin project started in April 2016 with a group of about 10 boys and girls from Year 5 and the help of a grandad at school and a dad, Paul, engineer.

The very first time the car took the track – our hockey astro, from which we were banned shortly afterwards! – was in the presence of Rob Smedley, who had delivered the stickers from Williams. Not sure the children totally seized the moment, but the staff definitely did! Rob was great with us and it remains one of the best time of our journey.

We purchased our 2nd chassis in November 2016 so we could get more children involved.

3 years down the road, the club is still run by myself (French MFL teacher) and Paul who really helps the children with everything on the cars. Every child gets a chance to work on the cars. The chassis are (re)built under Paul's guidance but the children are involved in every stage of the process. Paul is an excellent (non-)teacher(!) and the children learn and experience so much in engineering through his expertise

We change half the group every year so we start from a half blank canvas and this is the exciting thing both for us and the children. They help each other and it's a great opportunity to develop team spirit.



Events

We took part to our first event at Goodwood without any practice at all, having finished the bodywork literally... the day before! The car was launched at Prize Giving and it was the highlight of the ceremony. We had chosen to base our livery on Nigel Mansell's 1988 FW12 and we had managed to get Williams involved.

We attend 2 events a year. We won at Luton in 2017-18 and at Renishaw in May this year. We came in the top third at Goodwood in 2016 and 2017, 3rd at Dunsfold park (including a victory in the teacher's race!) and we eventually won at Goodwood this year!

The club

We run the club every Thursday 5.30 – 6.45pm with children from Year 5 and Year 6. From April to October, we make the most of the light and weather and train the children on drag, slalom and sprint races. From November to March, we are based in our new technology suit where we do maintenance and work on the design and various other things.

The curriculum

We would love to have the Goblin project fully included into the curriculum however, it extremely difficult to find time in a school as busy as ours. But this is our ultimate goal.

Instead, we try to offer the children an insight in the world of engineering and motor racing. Last January and March, we were respectively invited by Williams F1 and Mercedes F1 Brixworth. We had the opportunity to discover the incredible collection of Sir Frank's and at Brixworth, the children were shown the power unit of Mercedes Formula E.

The future

We would to give children involved in Year 7 and Year 8 and purchase the next chassis up. However, we don't have the facilities, yet.

One of our big dream, the school being located so close to Silverstone, would be to help to hold a Goblin event at Silverstone... We have already approached Greenpower a few times regarding this! However, we truly realized how much Goodwood means to you and we fully appreciate your preference for the site.

The Goblin project is an enormous part of our school, it is hugely popular amongst children and some younger ones cannot wait to be old enough to get into the car.

This is a superb opportunity to discover competition and engineering in wonderful spirit.



What's in store?

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

This could include:

- Any Greenpower themed activities your team is doing.
- A report of a race day.
- How Greenpower has affected you school.
- Greenpower themed jokes
- Any artwork / drawings that are Greenpower based.
- Any additions you think would benefit the newsletter.
- Any other interesting stories!



See a video of the day by clicking the picture above.

Creativity is the secret sauce to science, technology, engineering and math (STEM) - Ainsaa

Ramirez,

Science Evangelist.



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

Greenpower

INSPIRING ENGINEERS



ENERGY and **CLEAN GROWTH**

**IN THE NORTHERN
POWERHOUSE**

CONFERENCE & EXHIBITION

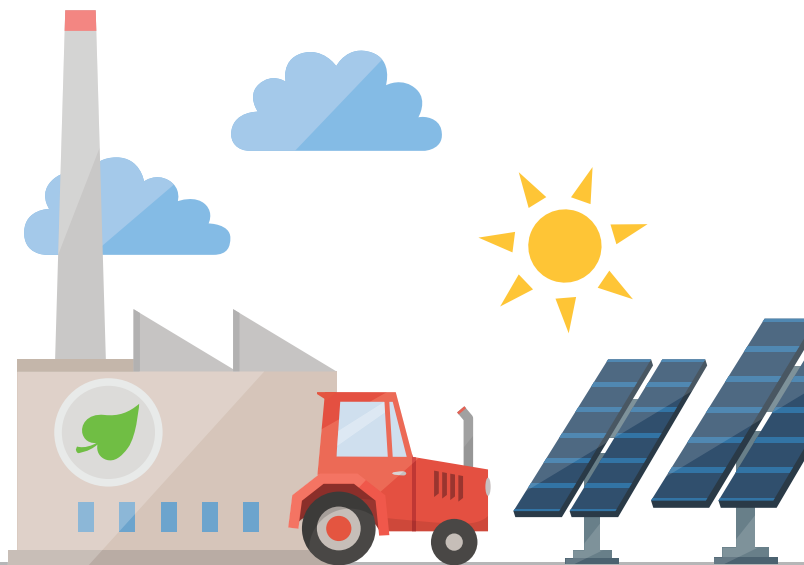
 **5 - 7 November 2019**

 **Bonus Arena, Hull**

BOOK YOUR PLACE NOW!

- ▶ Keynote political, business & academic speakers
- ▶ Panel discussions, seminars & workshops
- ▶ Attendees from across the sector
- ▶ Major exhibitors from across the North of England & beyond
- ▶ Investors, B2B networking & showcasing innovative technologies

Major event focusing on all forms of **energy**, **decarbonisation**, **transition** and **clean growth** in the North of England.



Day 1: Energy Innovation in the Northern Powerhouse

Including launch of new Northern Energy & Clean Growth strategy; Innovation Zone; Hydrogen in heat & transport; Decarbonising maritime & aviation; Smart energy systems; Decarbonising heat; Energy storage; Biomass & biofuels; University & Industry partnerships; New short film on tackling the challenges of climate change; rooftop drinks reception

Day 2: Energy Economics in the Northern Powerhouse

Including Skills Zone; Breaking into key sectors; Department for International Trade panel; Diversity & Inclusion; Confederation of British Industry presentation; Circular economy seminar; Future skills; Growth Hub workshops; Gala dinner

Day 3: Energy Strategy in the Northern Powerhouse

Including keynote policy announcements; political analysis; CCUS; Low carbon transport; sector policy scrutiny & debate; Nuclear & Wind Sector Deals; Industrial & Energy strategies; Climate emergencies; Cross-region collaboration

Find out more & book your place -
www.npenergyconference.com

Also featuring a large exhibition area, fringe meetings and social events. If you are interested in our sponsorship and exhibition opportunities, please contact r.royal@humberlep.org

