

Global partner

National partner

National partner

Global technology partner

SOLID EDGE

Legal partner

Hogan Lovells Communications partner



1









Whether it's taking action to address climate change, ensuring the responsible use of resources, or fostering safe and sustainable communities, Siemens plc uses the UN's Sustainable Development Goals to guide their drive towards a sustainable future.

In this challenge, you will be asked to use the UN's Sustainable Development Goals to inspire the ways in which you can make your Greenpower Project more sustainable.

To find more information about Siemens commitment to sustainability please visit: https://new. siemens.com/uk/en/company/sustainability.html

We will be awarding the Siemens Sustainability award at every Greenpower Heat and the International Finals.

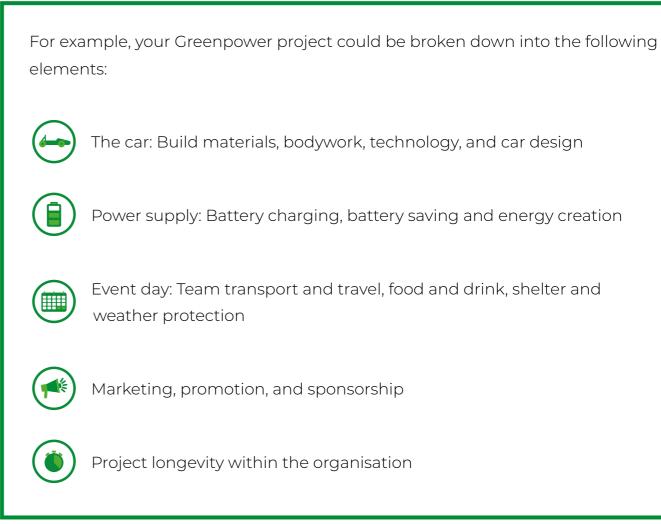


💔 CRITERIA: CREATING A MORE SUSTAINABLE GREENPOWER PROJECT

Practicing sustainability - in the interest of future generations

Siemens has prioritised their commitment to climate action through stepping up efforts to reduce their greenhouse gas emissions, in line with Science Based Targets 1.5° ambitions, to strengthen resilience and adapt to climate induced impacts. Siemens has prioritised their commitment to climate action through stepping up efforts to reduce their greenhouse gas emissions, strengthen resilience and adapt to climate-induced impacts. In order to drive these goals Siemens have incorporated the UN's Sustainable Development Goals (SDG) within their organisation. This challenge is to choose **ONE** SDG to inspire more sustainable practices within your Greenpower project.

You can choose any element of your Greenpower project or use the project as a whole.





SELECTED SUSTAINABLE DEVELOP GOALS (SDGS)

To find more out about the UN's Sustainable Development Goals please visit https://www.un.org/ sustainabledevelopment/student-resources/



GOAL 7: AFFORDABLE AND CLEAN ENERGY

'Ensure access to affordable, reliable, sustainable and modern energy for all'

This goal is focused around clean energy- how can your Greenpower project encapsulate this goal?



GOAL 9: INNOVATION, INDUSTRY AND INFRASTRUCTURE

'Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation'

Fostering innovation to drive sustainability is a key aspect of this goal that can be aligned with your Greenpower project. How has your team encouraged new ideas and how do you continue to ensure that your team are improving every season?



GOAL 11: SUSTAINABLE CITIES AND COMMUNITIES

'Make cities and human settlements inclusive, safe, resilient and sustainable'

How can your Greenpower Team impact the world around them and how can you create an environment for change?

For example:

- Is there sustainable transport to and from school?
- Are their electric charging points in the local area?
- Can your team help to improve air quality in the local area or around the school?
- Is access to green spaces available to the whole community?

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

GOAL 12: RESPONSIBLE PRODUCTION AND CONSUMPTION

'Ensure sustainable consumption and production patterns'

Urgent action is needed to decrease our reliance on raw materials and increase recycling and "circular economy" approaches to reduce environmental pressure and impact. How can your Greenpower team embed these into how you operate?



GOAL 13: CLIMATE ACTION

'Take urgent action to combat climate change and its impacts'

The year 2019 was the second warmest on record and the end of the warmest decade (2010–2019) and global temperatures are on track to rise as much as 3.2°C by the end of the century. What can your team do to reduce its CO2 emissions?

For more information on what is included within each SDG and the associated targets, as well as the other UN SGDs, can be found on the UN SDG webpage: https://sdgs.un.org/goals

For more Siemens education resources to support you and explore sustainability in other technologies, please go to https://new.siemens.com/uk/en/company/education.html



💔 JUDGING CRITERIA

All entries must include the following sections:

	Example
Concept: Showing good understanding of the chosen SDG and how to make it relevant within their Greenpower setting	SDG 7: AFFORDABLE AND CLEAN ENERGY SDG 7 promotes the use of clean and renewable energy sources, for this reason we have chosen to use solar panels to charge our car's battery. The school Science block has a small number of solar panels which are used to power the Chemistry Lab. We plan to invest in additional solar panels to also charge our Greenpower batteries.
Planning: Route to actualisation outline	Approach sponsor with "good" Green credentials to help raise the funds. Create digital marketing campaign to highlight the benefits of solar energy usage to inform other students. The school Science block has a small number of solar panels which are used to power the Chemistry Lab. We plan to invest in additional solar panels to also charge our Greenpower batteries.
Problem Solving: Showing how the concept evolves and highlighting the challenges faced and how they were overcome	It would take an estimated 12 months to go from raising funds to installation, which is too long for our project. Instead, we used that 12 months to research green electricity providers and moved our Greenpower after school club to the Chemistry Lab to utilise the power generated sustainably rather than using the grid mains power.
Evidence: Showing through photos, videos or data tables, the concept working within the Greenpower Team scenario	Copies of digital marketing campaign, statistics from energy provider credentials. Smart meter reading from Chemistry Lab.

Winning entries:

A single entry will be awarded the Siemens Sustainability Trophy at each Heat. We reserve the right not to award the trophy. At the International Finals a single entry will be awarded the trophy.

Submissions:

We require submissions in a digital format which can be shown on a laptop or tablet. To ensure that the submission can be viewed on event days, please save the file locally on your device or provide a USB stick at Race admin. We cannot accept responsibility if Internet connection is not sufficient.

dges criteria for aximum points

e they understood the SDG?

*v*e they shown a correct example of the SDG in relation to npower

is realistic within their setting. Evidence given to support

e plan is correctly resourced. evidence given to support this.

e time frame is suitable to meet the aims. evidence given to prt this.

milestones have been identified.

portance of key milestones has been explained in relation to uccess of the project.

blem/s have identified.

e cause of the problem/s has been identified.

understanding of how the problem could have been ed (or not) through additional planning.

utions have been identified.

e best solution has been identified with reasoning

y have demonstrated 3 different examples of evidence ing the SDG being actioned within the Greenpower setting with any explanatory comments.







f	/GreenpowerTrust
y	/Greenpowertrust
0	/greenpowertrust
in	/greenpower-education-trust

Greenpower Education Trust is a charity registered in England and Wales no. 1133536 and in Scotland no. SC046969

© All Rights Reserved - Greenpower Education Trust