

The power of solar on schools

Solar for Schools CBS Ltd

Decarbonisation and education funded by the sun

22 November 2022

Solar for Schools supports the UN Sustainable Development Goals

4 QUALITY EDUCATION



7 AFFORDABLE AND CLEAN ENERGY



11 SUSTAINABLE CITIES AND COMMUNITIES

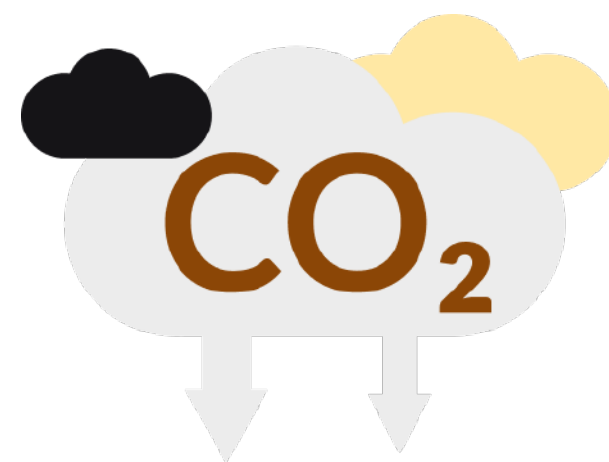


13 CLIMATE ACTION



Schools can:

Act



On climate change

Reducing CO₂ emissions each year by installing panels on your roofs.

Inspire



Your staff and students

with energy learning opportunities linked to the solar panels, that link campus and curriculum with school students and visitors to the site

Save



££££££

over the lifetime of the systems by using either free solar power where investments cover the total capital required or by paying for the solar power at a lower than mains rate.

Join

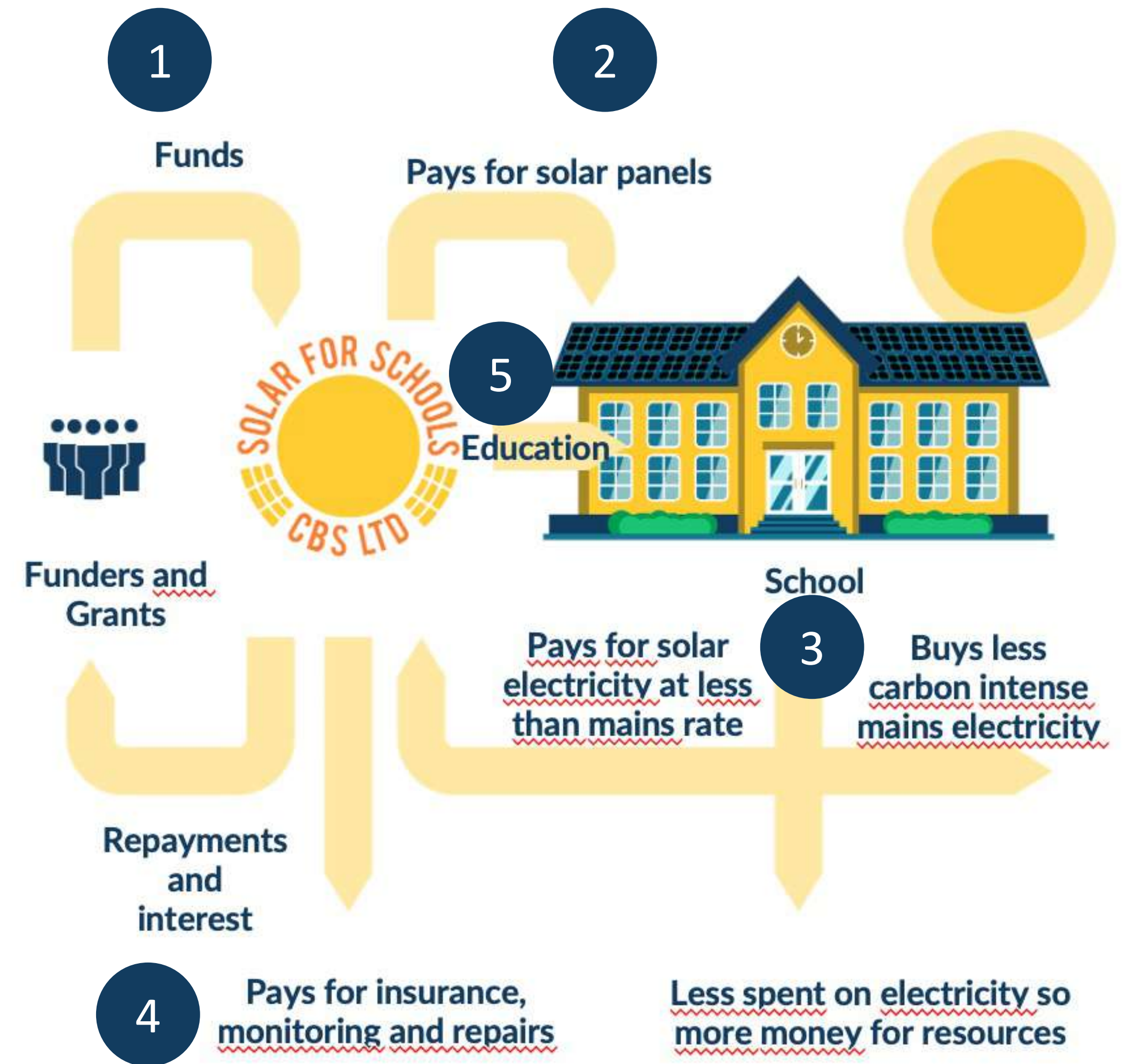


150+ sites of learning

and become part of a growing international community of learning working towards being carbon neutral

Funding using the Solar for Schools CBS

- 1 The CBS raises the money to pay for the solar panels from ethical investors via crowdfunding.
- 2 Solar for Schools works with the school to develop and install the best system size to meet school's ambitions. CBS pays. No money no worries
- 3 School has access to renewable electricity, at a rate below current mains prices, agreed with school. Rate linked to inflation only.
- 4 Solar electricity income to the CBS is used to repay funders and operating costs; all profits go back to the school
- 5 Solar for Schools looks after the solar panels and provides learning opportunities with no liabilities or costs to schools or Landlord. No on-going maintenance costs for the school



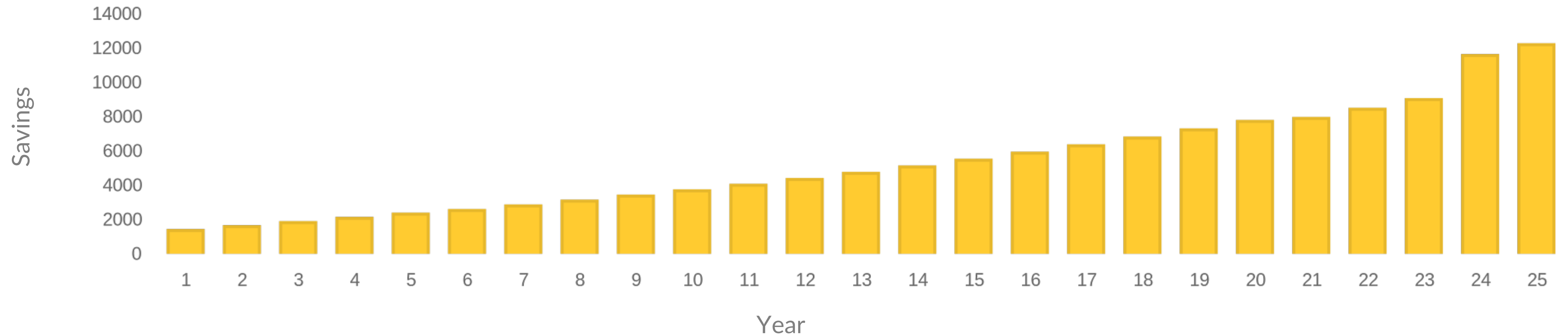
Energy education



We learn from our buildings not just in them

- Students learn about energy and carbon
- Staff learn about electricity generation and use on site
- Schools gain energy security saving money
- Schools cut their carbon footprint

Gain long term energy security and savings



Energy savings as solar replaces some of the mains electricity



Any profits from running the system would return to school members of the Solar for Schools Community Benefit Society

Solar power will account for X% of the school's electricity needs: the larger the system the more it meets

- Schools can pay for their systems and cover their maintenance with a low solar price
- Development, capital, installation cost covered by the Solar for Schools CBS whenever possible
- Commercial Electricity rates rise faster than solar rate bringing savings.
- Commercial mains electricity prices increase at **7%** per year based on historic averages from BEIS.
- Solar electricity price increases by RPI at **2.9%** per year, based on historic RPI increases ONS.

Why Solar for Schools

Solar for Schools supports the UN Sustainable Development Goals

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EDUCATION



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AND COMMUNITIES



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ACTION





solar for schools

Energy management and education, funded by the sun,
eliciting changes in the way we perceive energy +
alter the way we generate and use electricity

Why Solar for Schools?



Leader in developing, fundraising and managing solar projects on schools. Only work with schools.



No maintenance costs for School, trust, diocese, council for 25 years. Insurance, parts, servicing included.



Community Benefit Society funding model means that any profits go back to the schools.



Project-based solar and energy learning opportunities linked to curriculum included at no cost.



Making the impossible possible

- Schools look to install what they need not what they can afford
- Agreements designed for schools and meet the needs of the Council
 - Systems looked after at no cost no school management time needed
- Solar power delivered for years to come to give peace of mind
 - Schools have long-term governance

Solar: a keystone to decarbonisation

Development and long-term learning opportunities

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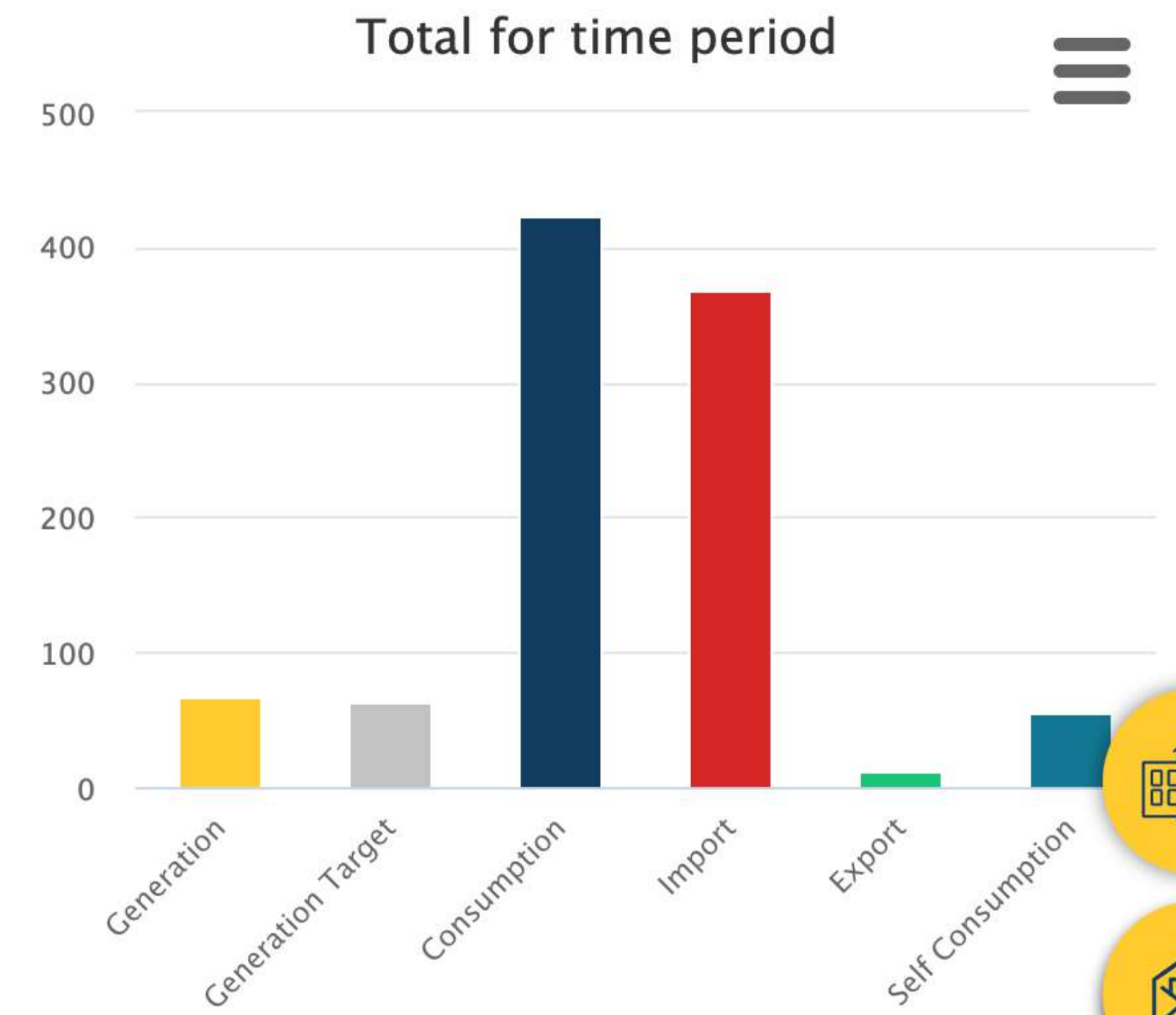
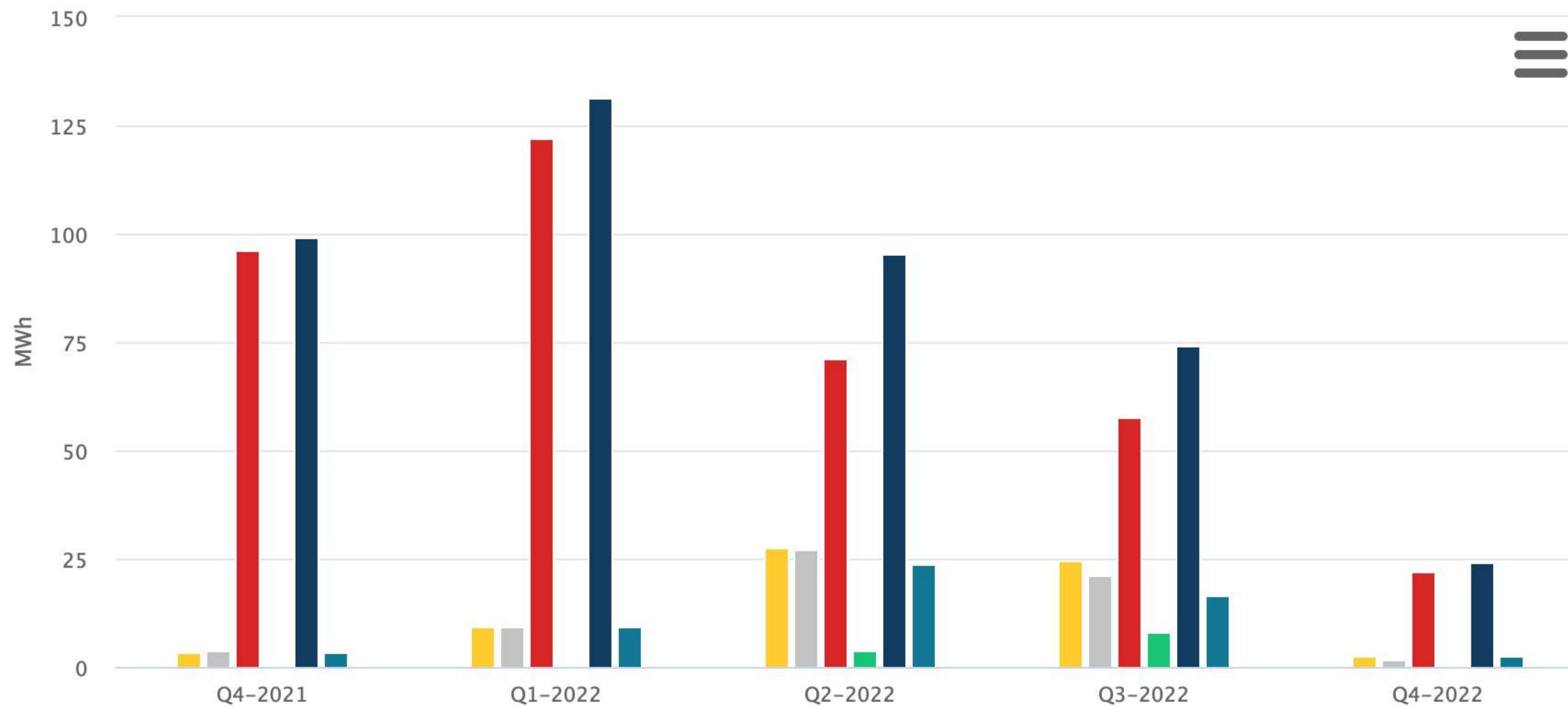
A dashboard to review electricity generation and use

Showing data for 2021-Oct-18 to 2022-Oct-18

[Less Graph Options](#)

Generation  Consumption  Import  Export  Self Consumption  Generation Target  Self Consumption Target  Line Column

Show data for of group by Sites



± 200 schools are part of our network



School

Lincolnshire

Size
121 kWp

live since Sep 15, 2022



Roundhay Pavillion School

Leeds

Size
101 kWp

live since Aug 04, 2022



Roundhay School Primary Campus

Leeds

Size
78 kWp

live since Aug 04, 2022



Education funded by the sun



Buckinghamshire

Size
50 kWp

live since Jul 26, 2022



Mackie Primary School

Leeds

Size
82 kWp

live since Jun 01, 2022



Sir Charles Parsons School

Newcastle upon Tyne

Size
38 kWp

live since May 27, 2022

Leeds

Size
64 kWp

live since Jun 06, 2022



**When did you learn something
that changed what you do?**

Tell me and I forget

Teach me and I may remember

Involve me and I learn

Benjamin Franklin

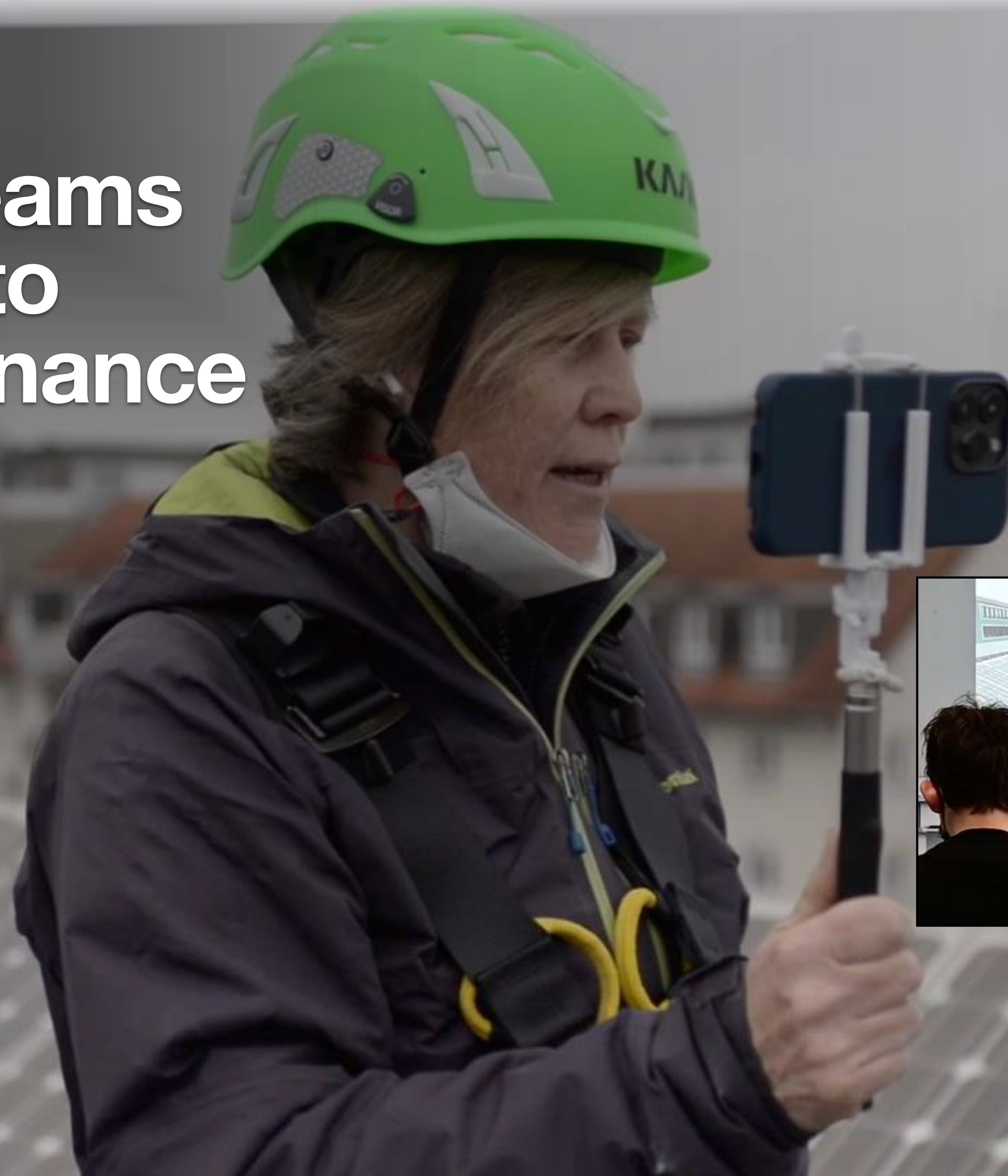


solar for schools

Engagement:

Our mission is to engage to ensure that data elicits changes in attitudes

From livestreams linked to maintenance visits



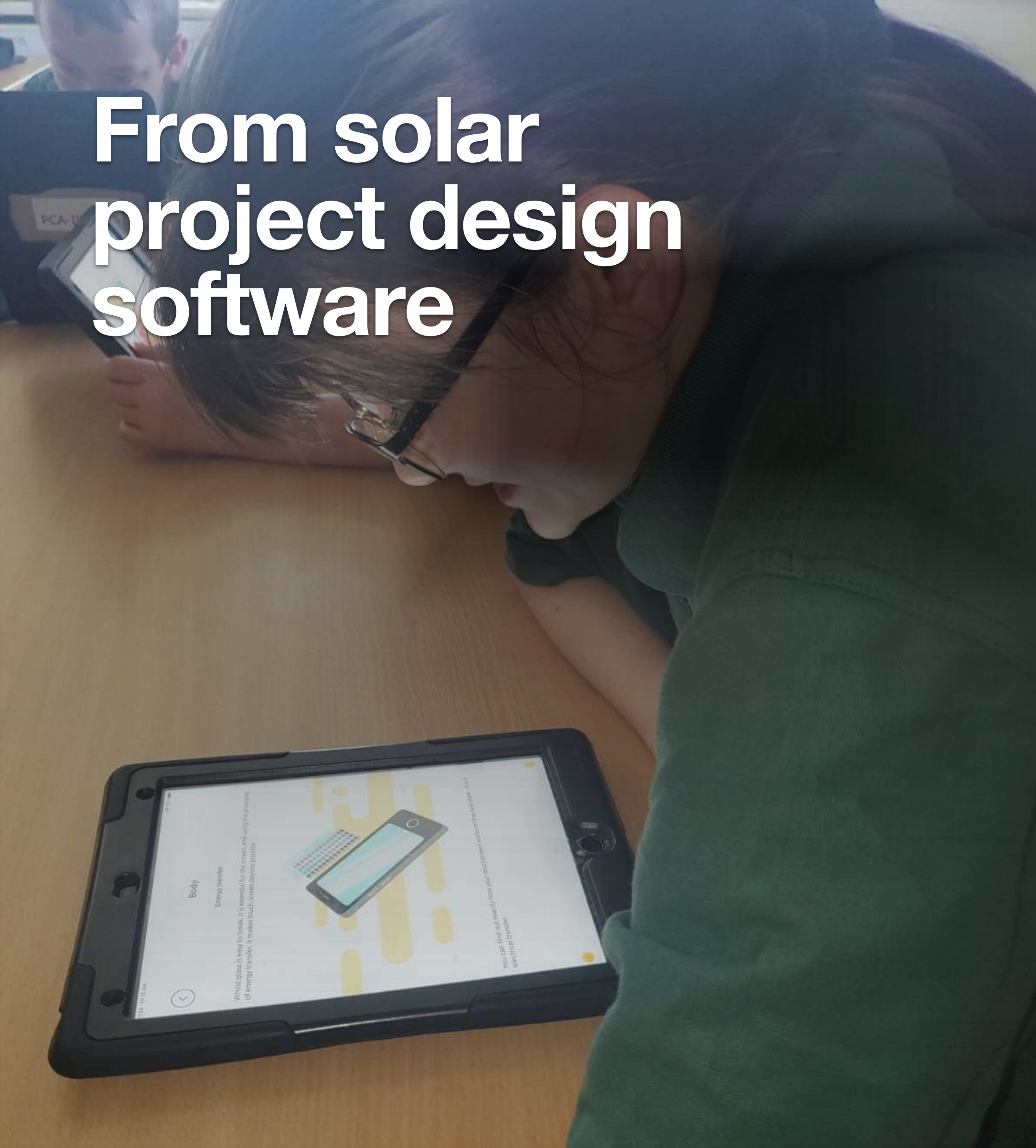


to assemblies
and workshops



**The solar panels
provide the basis for
our education delivery**

From solar project design software





to our gamified app for students

and a solar
experimental kit



**We provide
dedicated
school pages
with live
energy data
and lesson
ideas that
make
learning real**



Results

	Total	Field specific	Target yield
Generation	581.49 kWh		
Total site consumption	355.89 kWh		

PV consumption

	PV consumption	PV consumption

Solar for Schools installation



Our mission: to enhance teaching and learning:

Students / Staff

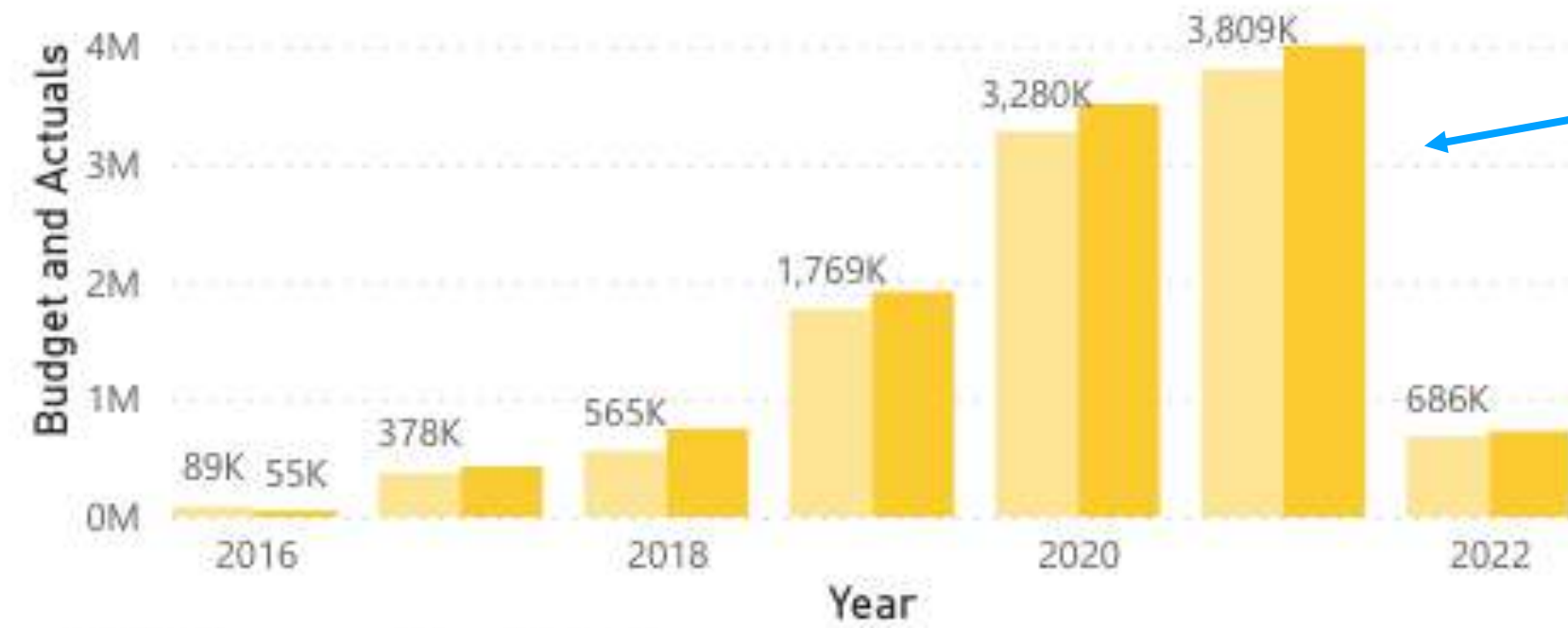
- Learn: 4 Es
energy
electricity
efficiency
environment
- Enhancing education for
sustainable development



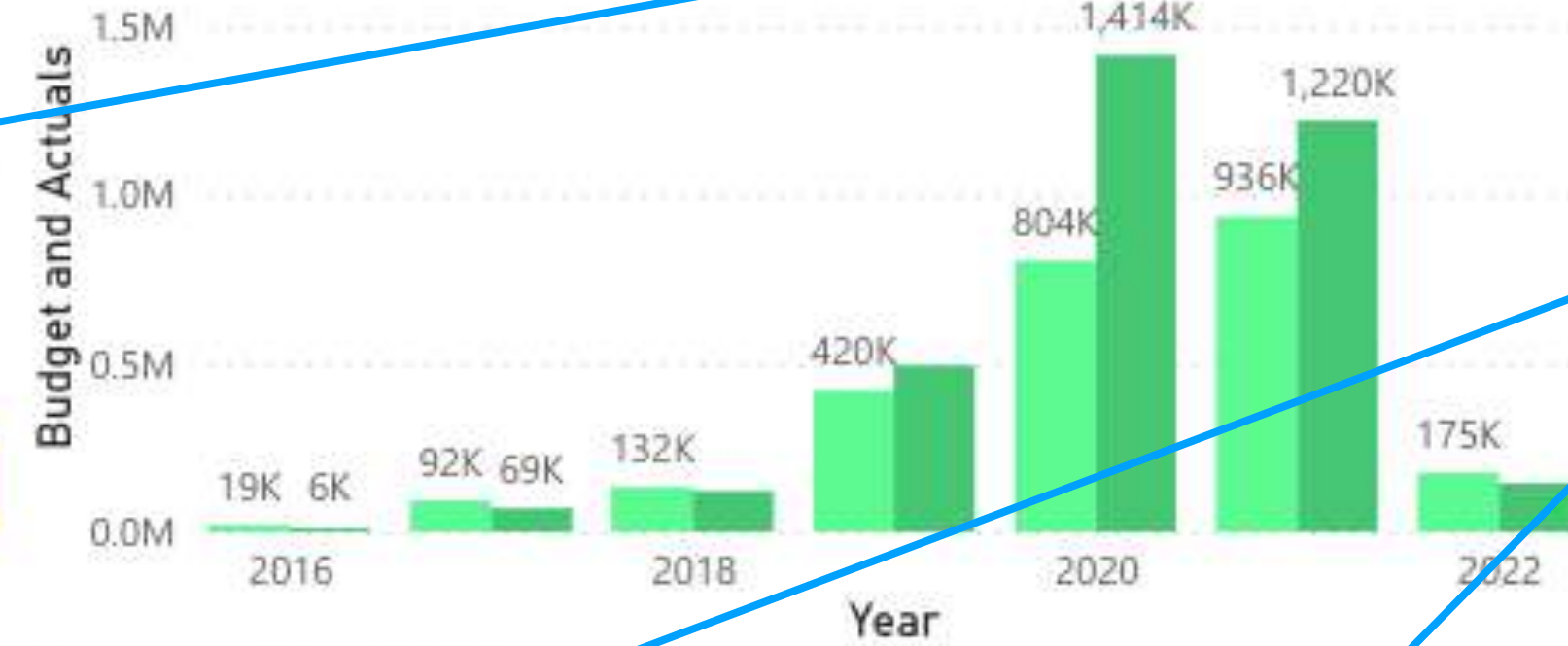
Self consumption : use of electricity fallen across portfolio



Generation [kWh]
● Budget ● Actuals



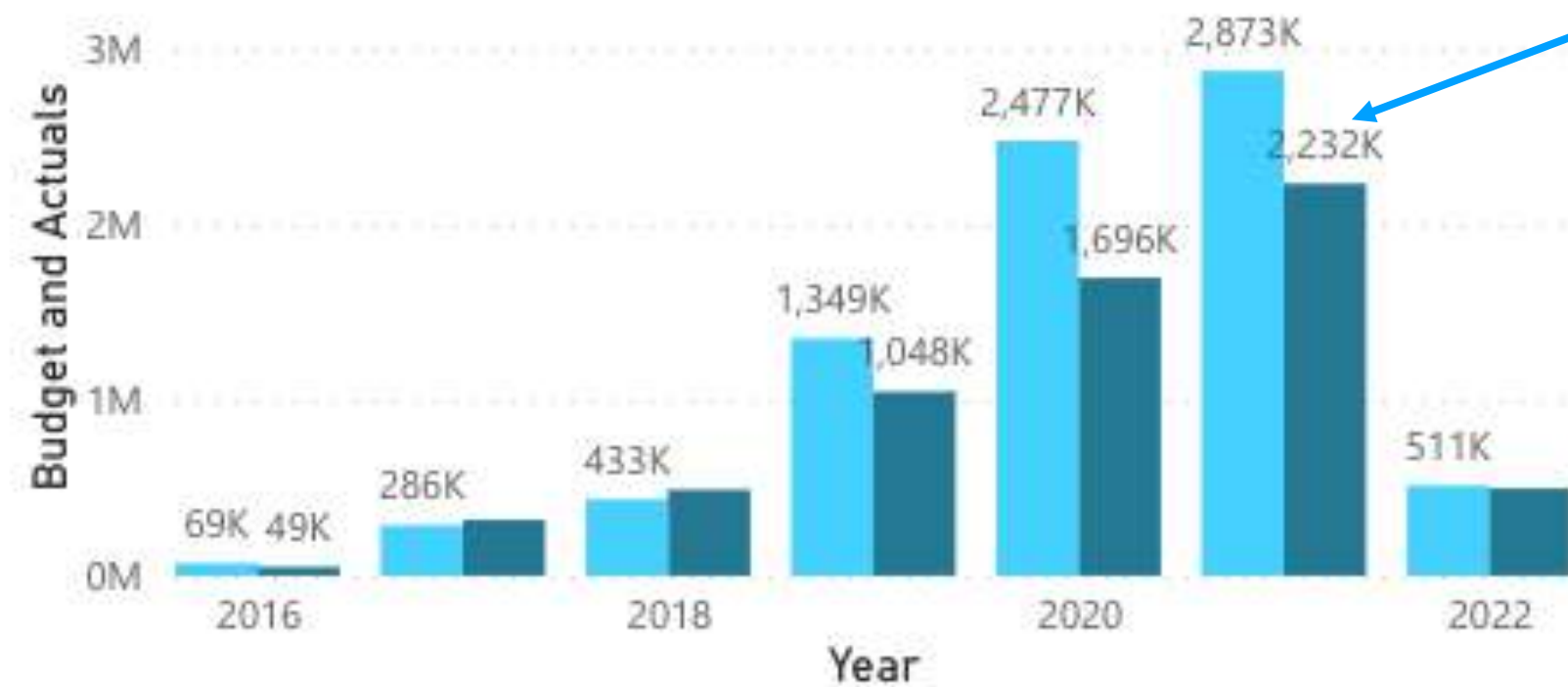
Export [kWh]
● Budget ● Actuals



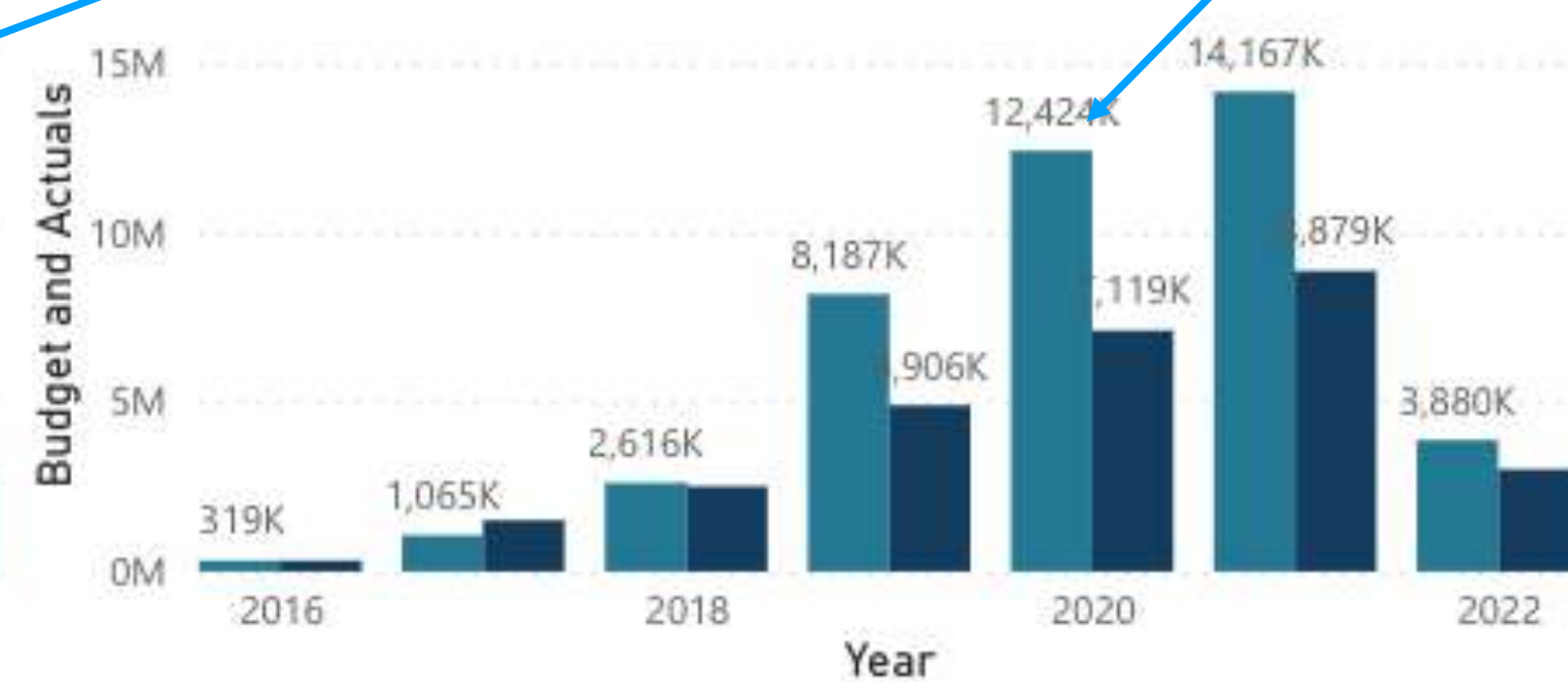
Generation ahead of targets on our schools

Consumption has fallen since installation.

Self Consumption [kWh]
● Budget ● Actuals



Consumption [kWh]
● Budget ● Actuals



2020: Covid year but electricity use has stayed low following installation

Energy in school



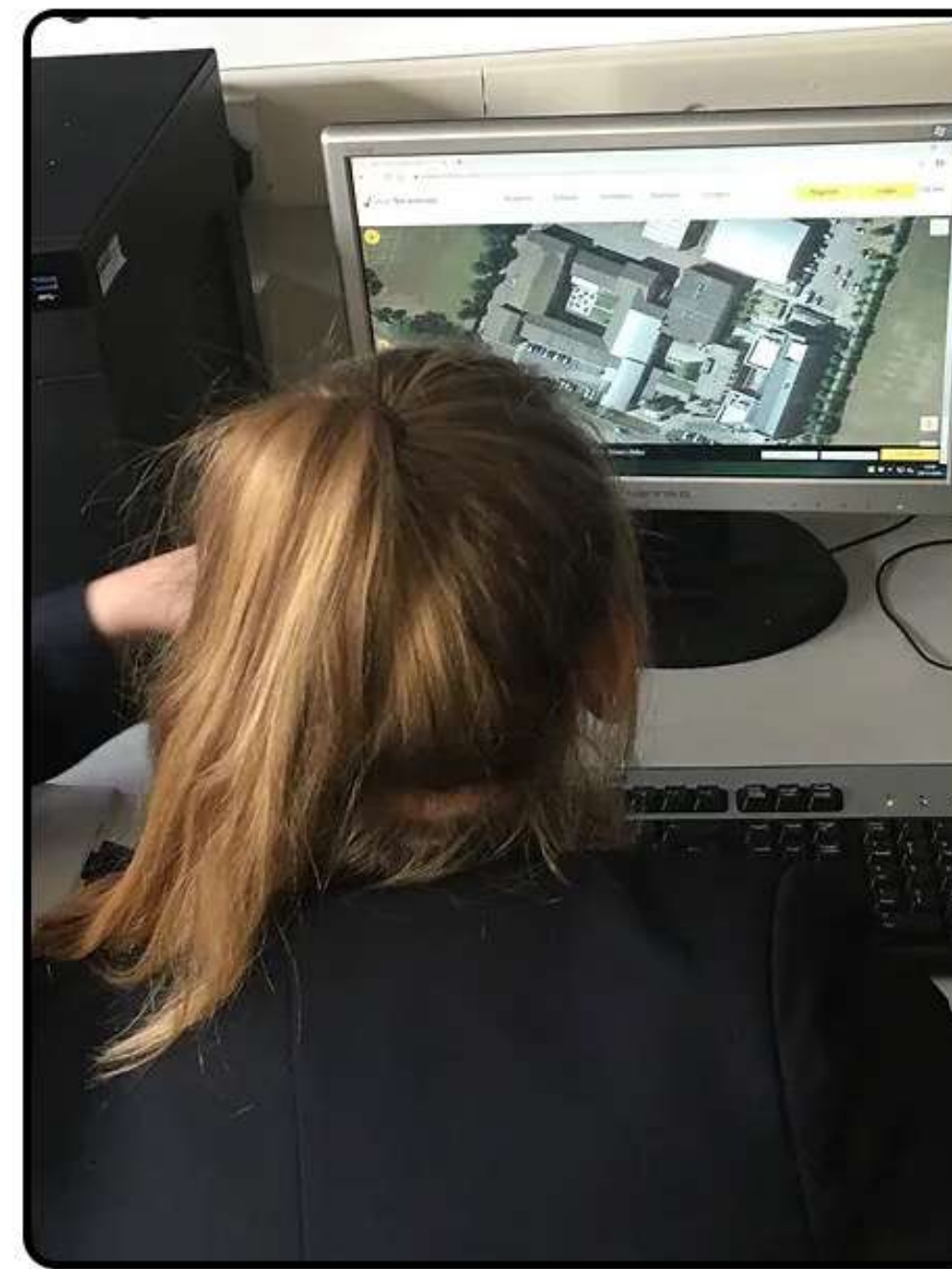
Exciting teaching content

We have teaching units for each subject and for each grade that meet the requirements of the respective curricula.



Innovative workshops + app

The program is supplemented by an app and innovative workshops and lectures



Dedicated software tools

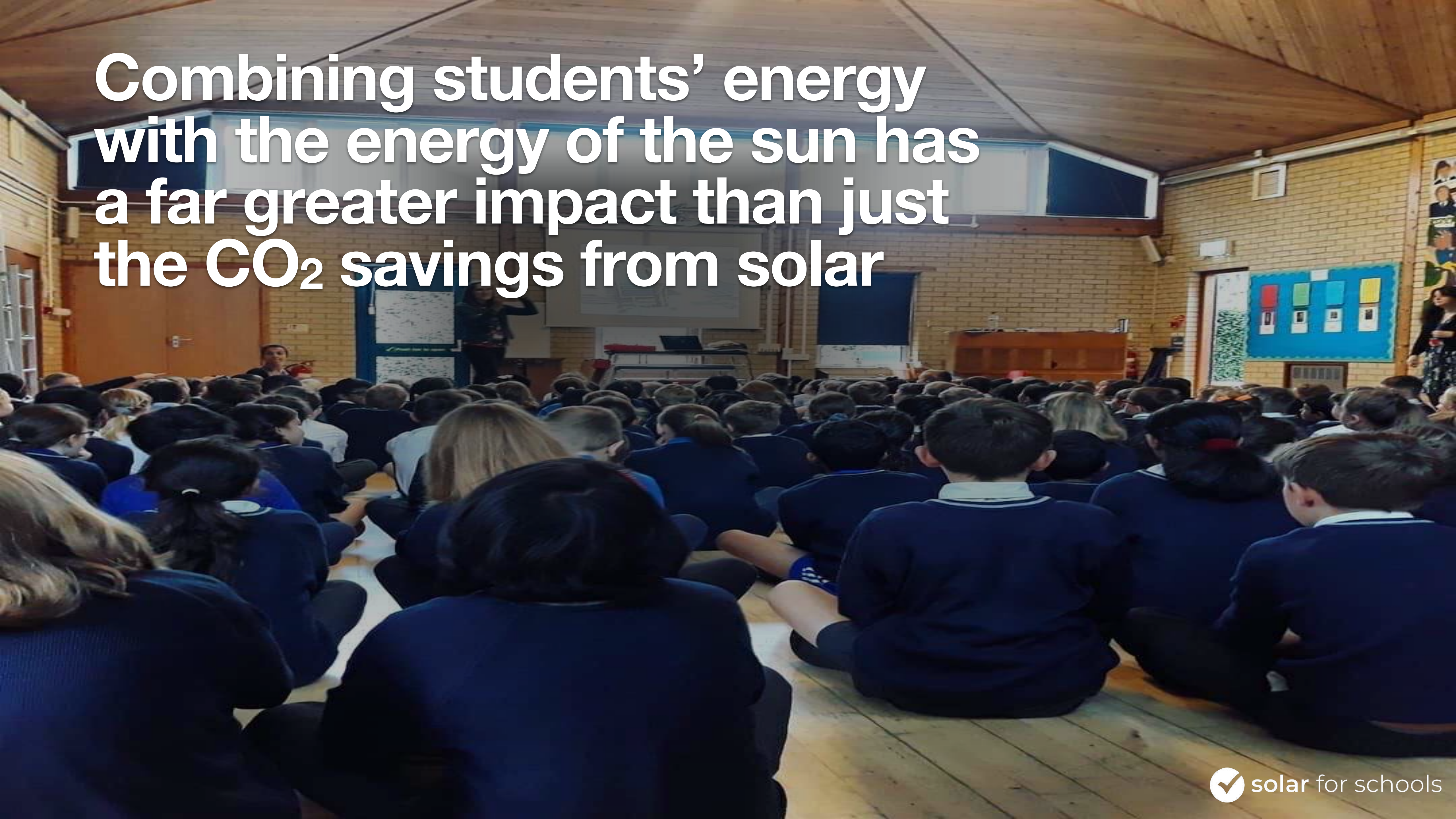
We provide a dedicated school website with live PV system data: generation, feed-in, etc. plus project design SW for students



Experimental kit

Model for the laboratory to work in pairs or threesome. The pupils learn how photovoltaics work.

**Combining students' energy
with the energy of the sun has
a far greater impact than just
the CO₂ savings from solar**





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