

CERF Energy Report 2018-2020

Overview

The Energy Education Plan was developed to meet the needs of the Energy reduction fund (CERF).

In September 2017 the pupil experience 'Using Energy was launched. This was a subsidised programme. It was made available to schools during 2017-2018 and 2018-2019. This engaged 9 schools in the first year and 6 schools in the second year, supporting a total of 667 Pupils. Even with significant publicity and the subsidised travel these were still low numbers of engaged schools.

The programme was amended at the beginning of 2019-2020 with a focus on increasing the engagement with schools and provide some more long term sustainability of the programme. The on school site sessions were delivered as well as developing more resources for teachers to use to engage their young people in activities that related to energy conservation. The development of resources that schools can use to run sessions in their own schools ensuring sustainability of the impact of the CERF funding. This has already increased the engagement to a further 16 schools and 1117 pupils with more schools enabled to engage with the professional development programmes from September 2020.

Programme 1 2017-2019

- Upper KS2 & 3 'Using Energy' Kinesis Centre (£26.00 per pupil) PP LAC Free and other pupils 75% Subsidy from the CERF fund
- Website
- · Mathematics teaching Resources



Programme 2 2019-2020

Key Stage 2 - 'Using Energy'- Holt Hall or In School (75% of original per pupil cost - £19.50 pp) Advertised at 100% subsidy from CERF fund - Ran from September 2019 - Pupils learn about how energy is made and used before taking part in an activity. Follow up classroom resource included.

Development of teacher resource for in-school deliver of 'Using Energy' - A programme that provides resources for schools to use to deliver a half day curriculum activity as a single or groups of sessions by school staff. - Available from June 2020.

Development of Teacher resources for - English and Mathematics - Teaching resources for English and Mathematics that have the focus of sustainable energy - https://www.educatorsolutions.org.uk/media/ck-editor/2019/08/28/workbook-2-renewable-and-non-renewable-energy-using-ratio-and-proportion.pdf

Teacher training for delivery of teaching resources - Subsidised Professional development sessions for teachers June 2020 and September 2020 - (Moved to September 2020 and January 2021) to support the use of the teaching materials and enable sustainability of the programme within schools.

Teacher training for delivery of 'Using Energy': Subsidised Professional development sessions for teachers June 2020 and September 2020 - (Moved to September 2020 and January 2021) to support the use of the teaching materials and enable sustainability of the programme within schools.



Pupil Outcomes

Pupil Learning outcomes

The aim of this pupil experience is to increase pupil's knowledge of different sources of energy, why non-renewable energy sources are bad for the environment and how to save energy. As well as having a focus of the mathematic curriculum, by the pupils working out how much energy they could save Norwich City Football Club with their changes.

To assess the impact of the experience on the pupils, a test was given before the experience and repeated at the end and these result where compared.

The data this year showed on average the knowledge of different fossil fuel increase from 1 before the session to 2 after the session (rounded averages see figure 1a.).

Before the pupil experience 37% of the pupils knew why non-renewable energy sources were bad for the environment and after the session 62% of the pupils were able to explain why. Only 20% of the pupils before the session knew the difference between non-renewable and renewable energy compared to 59% after the session (see figurelb and lc).

In terms of knowledge of different sources of renewable energy source, 77% pupils correctly circled 3 to 4 correctly after the experience compared to 50% before the session. To add, before the experience 21% of pupils scored 0 where as after the experience 6% of pupils did not score any marks (see figure 1d).

In terms of pupil's knowledge of ways to save energy, before the session 30% of pupils listed one or more ways to save energy. After the session 70% of pupil listed one or more (see figure 1e).

Engagement

	2017-2018	2018-2019	2019-2020 (to
			date)
Total Number of	9	6	16
schools			
Total Number of	315	352	1117
pupils			



Expenditure

<u>Overall</u>

			Expenditure on resource		
Year	Starting Balance	Expenditure on Pupil Experiences	development	Total Expendicture	Closing Balance
2018-2019	£88,736.00	£11,007.50	£6,050.00	£17,057.50	£71,678.50
2019-2020	£71,678.50	£37,545.75	£34,133.00	£71,678.75	-£0.25

Pupil Experiences Expenditure

2018-2019

		Using Energy! 2018 - 2019		
Date	School	TotalNum berofPupis	SchoolCost	NCC Cost
		January		
23/01/2019	Terrington St		37 £208£	£754
	C lem ents			
31/01/2019	Te <i>m</i> ington St		25 £136.5	£513
	C lem ents			
	Coach Travel			£600
Total			£344.5	£1,867
		Feb rua ry		
04/02/2019	Fainstead		30 £ 117 £	£663
05/02/2019	Terrington St		27 £136.5	£539
03/02/202	C lem ents		2202	2555
14/02/2019	Fa instead		30 £ 117 £	£663
	Coach Travel		£0£	00 £970
Total			£370 5	£2,835
		M a rch		•
05/03/2019	Fainstead		31 £1365	£669
14/03/2019	Fa instead		29 £ 110 5	£643
27/03/2019	Bure Valley		20 £65£	00 £455
28/03/2019	Wym ondham High		33 £130£	£728
29/03/2019	Wym ondham High		33 £65£	£793
	Coach Travel			£1,500
Total			£507£	£4,789
	•	June		•
17/06/2019	Holly Meadow		33 £175.5	£682
24/06/2019	Freethrope		24 £91£	£533
Travel		100% cost		£300
Total			£2665	£1,515
		Other		
			352	
				£11,00



2019-2020

		Using E	nergy!	2019-20	
Date	School	TotalNum ber		1 1 1	Cost
		of Pur	018	(100% at 90% cost)	
09/01/2020	Brisley Prim ary		60	£24.75	£1,485 DO
27/02/2020	North W ootton		92	£24.75	£2,277,00
06/03/2020	Mundford Primary		88	£24.75	£2,178.00
16/03/2020	Gooderstone Prim ary		90	£24.75	£2,227.50
Mon 24 th	Beeston Primary	21			
Feb rua ry	School	19	40	£24.75	£990.00
W ed 26 th	W oodlands Academ y	30			
Feb rua ry	w ood and s Academ y	30	60	£24.75	£1,485.00
Monday 2nd	Norwich Road	24			,
March	Academ y	27			
Maich	Academ y	26	77	£24.75	£1,905.75
		26			,
Tuesday 3^{rd}	Norwich Road	24			
March	Academ y	27			
		28	105	£24.75	£2,598.75
W ed 4 th		26			
March (all	Catton Grove	27			
day)		27	80	£24.75	£1,980.00
		27			
		30			
Monday 9 th March	Southtown Prim ary	28			
		29	114	£24.75	£2,821.50
Tues 17 th	Ludham Primary	29	117	124.73	12,021.30
March	School	30	59	£24.75	£1,460.25
Wood 10th	Astby Primary	20			,
W ed 18 th March	Astley Prim ary School	20			
ri a ICII	3011001	22	62	£24.75	£1,534.50
Friday 20 th	St Augustine 5	30			, 22
March	Catholic Primary	30			
ri a ICII	Caurone rim ary	30	90	£24.75	£2,227.50
		25			,
Tues 24^{th}	Trinity Federation of	30			
March	Church Schools	19			
		26	100	£24.75	£2,475.00
					·
			1117		£27,645.75
TBC	4 Days (100 pupils				
	perday)		400	£24.75	£9,900.00
					£37,545.75

Samantha Penn: Head of Professional Development and Learning March 2020



Resource Development Expenditure

	Using Energy! 2018 - 2020	
	Other	
Date	Details of work	Expenditure
Nov-18	Maths Lesson plan/Resource (4 days of maths advisors	
Nov-18	Maths Lesson Plan development - Adviser time (6 days)	£2,400.00
Dec-18	Pupil experience and STEM Manager (10 days) (Maths pupil booklets, review Maths review and 2 science plan)	£2,500.00
2018 - 2019	Website Development	£1,150.00
Total 20182019		£6,050.00
	Teacher Resource, guide pack for Delivering 'Using Energy' 8 Adviser Days	£5,333.00
	Teacher Training (half day X 6 - Delivering CERF 'Using Energy' 60 Spaces) - June 2020 September 2020	£13,000
	Teacher Training (Half day X4) - Teacher resource training 60 Spaces June 2020 and September 2020	£13,000
	Teacher Resource Development - English (8 Adviser days)	£2,800.00
2019/2020	TOTAL	£34,133.00



