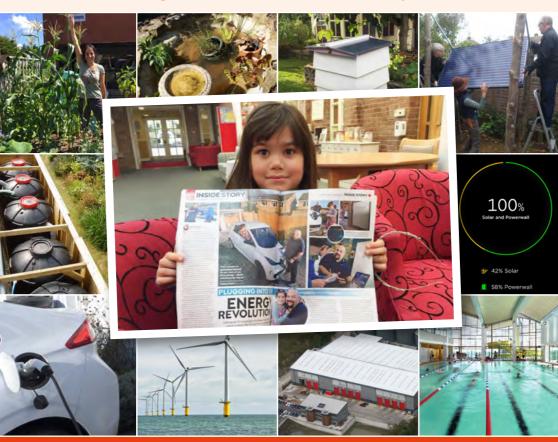
Eco Open Houses



Worthing & Adur · 9-26 April 2020



See our community in action – people and organisations using less fossil fuel, saving water, creating less waste and taking better care of our world!









BUZZ ECO ELECTRIC

Smart, Sustainable Energy.

ABOUT US

We are a local company, with a deciated team specialising in providing robust, environmentally sound solutions for modern electrical needs. We supply, fit and maintain forecourt electric vehicle charging points, solar power arrays and intergrated systems between.

We plant one tree for every installation In collaboration with @eforests

jove



07312 093 476



info@buzz-eco.co.uk



www.buzz-eco.co.uk



Welcome!



↑ **/** elcome to our fifth Eco V Open Houses event across Worthing and Adur spanning nearly three weeks in April from 9th to 26th. Transition Town Worthing is delighted to be supported by our sponsors – The Rampion Fund at Sussex Community Foundation and Worthing Homes, as well as our team of partners.

Everybody's talking about climate change

Do we feel overwhelmed by it all? As individuals, how can we make a difference? Will it help the bigger picture? How can we be the change we wish to see in our world?

This event is about ordinary people in Worthing and Adur just getting on with the job, often having fun (it can be!) and inspiring others to take small, achievable steps towards resilient, environmentally friendly lives. They don't have all the answers, but they have made a commitment to be a

small part of the solution, rather than be part of the problem.

Whether you think man-made climate change is a hoax or not, perhaps you care about pollution of our air, water, coastline, green and urban spaces, or that micro plastics have now entered our food chain. You might be concerned about local surface water flooding or the rising cost of water and fuel bills. This event looks at all these issues and more.

We hope you will find this event interesting, informative, inspiring, helpful and fun. From complex systems to simple changes anyone can make, there's something for everyone.

Fringe events this year include an electric vehicle show, talks, visits and a workshop – all in addition to the twelve eco open homes. For more details about the open homes see our website worthing.greenopenhomes.net or visit the houses!

Contact the Transition Town Worthing Eco Open Houses team at wg.eoh2020@gmail.com









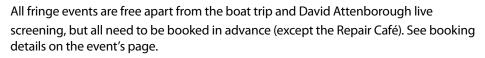




Whats On

Fringe events

Thursday 9 - Sunday 26 April



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	Site visit to Biffa Mechanical Biological Treatment Centre, Horsham SNUG draughtproofing workshop, Sidney Walter Centre Site visit to Viridor Recycling Plant at Ford Talk on sustainable tree planting by Tony Whitbread, retired Clof Sussex Wildlife Trust at Emmanuel Church Hall, Worthing David Attenborough live screening at Connaught Theatre, Worthing (book via Worthing Theatres) Site visit to EPIC wetlands project, Sompting and then on to Sustainable Sussex site, also in Sompting Boat trip to Rampion Wind Farm Site visit to Splashpoint Pool, Worthing Talk by Sarah Kemp from Eskay Architects at Shoreham Centre Talk by Francesca lliffe, Adur & Worthing Council Strategic Sustainability Manager, Worthing Town Hall Site visit to Splashpoint Pool, Worthing Meet the repairers at Worthing Repair Café Electric Vehicle Show with stalls from community groups



page

Eco open houses

Saturday 25 - Sunday 26 April

Open houses do not have to be booked in advance but some have tours that start on the hour. See the house page for details



Other information

Zero waste	O Open Houses team and Thanks 32–33
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Fringe events

Apart from the Repair Café, all fringe events need to be booked in advance.

See the Eventbrite link below for most of the event booking details. The EV show has its own Eventbrite page and the Connaught Live Screening needs to be booked via Worthing Theatres. See their pages for details.

Visiting

Please see details listed under each event for information about that event, the site, etc. We go into more detail on the booking page on Eventbrite, which you can read before making your booking. Please do read all information very carefully as some sites have specific rules about who can or cannot be part of that tour, for example.

For all booked events, you will not be admitted unless you have proof of your booking with you (phone or paper copy please). We need this for health and safety reasons.

Once you have made your booking, please take note of any requirements for visiting that site. Wheelchair friendly sites will be indicated by this symbol:

If you need to cancel your booking please give us as much notice as possible, as there may be people on a waiting list who can fill your place – some of these events have very limited places.

EVENTBRITE BOOKING www.eventbrite.co.uk/o/transition-town-worthing -29435819407



TOUR Biffa Mechanical and Biological Treatment Facility

Thur 9 April · 11am – 1pm Brookhurst Wood Warnham, near Horsham

Booking and details on Eventbrite

What really happens to all that black bag rubbish?

On this free tour of Biffa's waste treatment site at Brookhurst Wood you can find out where your waste goes. West Sussex has some of the most state-of-the-art waste and recycling plants and processes in the UK, which help to dramatically reduce the volume of waste going to landfill. Some of us took this tour two years ago and found it really interesting and informative. The tour can take up to 20 people and if demand is there, we can organise more than one visit later.

For information about the waste site, go to: www.biffa.co.uk/about-us/waste-journeys/mechanical-and-biological-treatment

WORKSHOP Snug Draughtproofing

Sat 11 April · 10am – 12noon Sidney Walter Centre, Worthing

Booking and details on Eventbrite

Transition Town Worthing will be delivering a free draughtproofing workshop in this Victorian building, teaching practical skills and using a range of different draughtproofing materials so you can select the best material for the job.

Draughtproofing your home is likely to save around £20 a year on energy bills. Safely blocking disused chimneys can save an additional £15 a year.

The workshop will be hands on, with the opportunity to practice installing draughtproofing on the community centre's draughty windows, helping them to lower their costs and carbon footprint. Spaces are limited, and this workshop will be most beneficial to homeowners with draughty timber framed windows and/ or doors.

TOUR Ford Materials Recycling Facility

Tue 14 April · 10am – 12noon Ford Road, Ford

Booking and details on Eventbrite

Once you've put your recycling in the bin, where does it really go?

West Sussex have some of the most stateof-the-art waste and recycling plants and processes in the whole of the UK. We are sure you will find a visit to Viridor's site at Ford really interesting. For information on what happens to residents' recycling, see the website www.recycleforwestsussex. org/ford-mrf/

The tour can take up to 14 people and if demand is there, we can organise more than one visit later. (Not suitable for asthma sufferers or disabled, due to dust particles and narrow walkways – sorry.)

TALK Trees: to plant or not to plant, that is the question

Wed 15 April · 7.30pm − 8.30pm Emmanuel Church Hall, Worthing હ

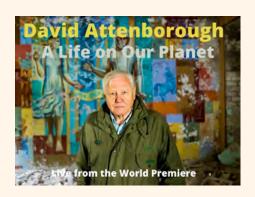
Booking and details on Eventbrite

A talk about sustainable tree planting by Tony Whitbread, retired CEO of Sussex Wildlife Trust. There will be 30 minutes for discussion afterwards.

Carbon offsetting with trees is something many people do these days, but it's not actually that simple and one can destroy precious existing eco systems by planting trees inappropriately.

Tony will give a bit more background to forest ecology before going into why, how and where it's good to plant trees, or not, to help mitigate climate change.

You can read more on Tony's views on the subject on his website: tonywhitbread.blogspot.com



LIVE SCREENING AND Q&A David Attenborough: A life on our planet

Book through Worthing Theatre box office:

Website: worthingtheatres.co.uk/ show/david-attenborough-a-life-onour-planet-12a/

Telephone: 01903 231227

This will be a poular event – book now to avoid disappointment.

We have included this in our fringe events as it just happened to be showing during our three week event and it ties in really beautifully with the themes that we are trying to raise awareness about – so much so, that some of the organising team booked our tickets as soon as we heard about it!

Facebook: www.facebook.com/events/217689259259800/

TOURS EPIC and Sustainable Sussex Projects

Saturday 18 April 10am –1pm (arrive 9.30am) Sompting

Booking and details on Eventbrite

These two very sustainable land-based, community projects sit very near to each other in the landscape at Sompting so this tour will cover both sites, as well as the work of Plastic Free Worthing, as EPIC are currently working on plastic pollution issues.

EPIC stands for 'Enhancing Places, Inspiring Communities'. This urban chalk stream restoration project is realigning the course of the Broadwater Brook to enhance its ecological potential. On completion the site will become accessible to the public for the first time, enabling people to connect with this natural heritage along a river trail with seating areas and a wildlife viewing hide. Plastic Free Worthing do monthly beach and greenspaces clean-ups that anyone can take part in.

Sustainable Sussex provides meaningful real-work experience in gardening, growing, DIY and other sustainable tasks. They provide education and employment to people who find access to the workplace difficult, including those with learning disabilities and other needs, reducing isolation and encouraging interaction with a varied section of society.

www.somptingestate.com/EPIC oart.org.uk/epic/ sustainablesussex.org/ www.facebook.com/plasticfreeworthing/



BOAT TRIP Rampion Wind Farm

Sunday 19 April 10am – 1pm *or* 2pm – 5pm Sets off from Brighton Marina

Booking and details on Eventbrite

For those of us who have always wanted to see the offshore wind farm up close, now's your opportunity! The skipper for our trip, Paul Jackman of Brighton Boat Company, is very knowledgeable about the wind farm, having watched it being constructed and commissioned.

Trips to the wind farm only run on calm days, for passengers' comfort, as we will be at least 8 miles out to sea. In consequence, a planned trip will only be confirmed 24 hours in advance of the departure. In the event of poor weather, the deposit can be used to reserve another trip, or it can be refunded. For your comfort, there is a cabin and toilet on the boat and refreshments are available.

For more information see: brightonboat. co.uk/rampion-windfarm-trip/



SITE VISIT Splashpoint Leisure Centre, Worthing

Mon 20 April · 7.30pm − 8.30pm or Fri 24 April · 11am − 12noon

Booking and details on Eventbrite

Site visit led by Duncan Anderson, CEO South Downs Leisure.

Many people in Worthing don't realise that their local swimming pool complex is a state-of-the-art eco-building. This tour includes a visit to the plant room (some people really love plant rooms!) and a talk about South Downs Leisure's existing operations and future plans. You will also have an opportunity to meet one of the directors of Worthing Honey Collective, who have beehives on the roof of this amazing building!

More info on the Eventbrite booking page.

EVENTBRITE BOOKING www.eventbrite.co.uk/o/transition-town-worthing -29435819407





TALK Domestic Energy Retrofit for a Climate Emergency Wed 22 April 2020 · 6pm – 8pm

Shoreham Centre 💍

Booking and details on Eventbrite

A whole-house, phased approach to reducing your home's carbon emissions.

Based in Shoreham-by-Sea, Sarah Kemp set up Eskay Architects in 2004 and works with homeowners and developers on extensions, renovations and conversions. Specialising in creating comfortable and energy efficient homes. She is currently training to become a Retrofit Coordinator under PAS 2035. (PAS is the New Publicly Available Specification that lays out all retrofit energy efficient enhancements to the UK's existing housing stock). http://eskayarchitects.co.uk/wp-content/uploads/2016/10/DSC_9322_crop_bw-768x544.jpg

EVENTBRITE BOOKING www.eventbrite.co.uk/o/transition-town-worthing -29435819407

TALK Adur & Worthing Councils: going carbon neutral by 2030

Thurs 23 April · 6pm – 8pm Worthing Town Hall 🕹

Booking and details on Eventbrite

Talk by Francesca Iliffe, Strategic Sustainability Manager, Adur & Worthing Councils.

In 2019, Adur & Worthing Councils declared a climate emergency. Work is underway across the council to go carbon neutral. What does this mean in practice and what challenges do the councils face to achieve this target? This talk is relevant for organisations and individuals who want to reduce their climate impact.

Francesca worked to co-create the Zero 2030 Climate Conference on 4 March in Worthing with Pauline Cory from TTW and Michelle Furtado from Worthing Climate Action Network (WCAN).

Sustainable Adur & Worthing Framework: www.adur-worthing.gov.uk/sustainable-aw



VIEWING Meet The Repairers at Worthing Repair Café

Sat 25 April · Drop-in 2pm – 4pm Quaker Meeting House, 34 Mill Road, Worthing

NO NEED TO BOOK

Transition Town Worthing set up a Repair Café in September 2017 and it has become incredibly popular, with our volunteer repairers often completing 40+ repairs in one session.

Do feel free to pop in and chat to one of our repairers during the afternoon session. There will be a few booked repairs going on, but we've mainly set aside this time to talk to Eco Open Houses visitors about what we do.

Please do not bring repairs along to this session – repairs can only be done with advance booking.

See worthingrepaircafe.org for more details about how this community resource normally operates on a monthly basis and how you can get involved.



ELECTRIC VEHICLE SHOW EVs By The Sea

Sun 26 April · 10am – 4pm Lancing Beach Green Organised by Sussex EVs

Book on eventbrite: www.eventbrite.co.uk/e/evsby-the-sea-2020-attendee-freetickets-95617635923.

2020 will be a big year for electric vehicles with over 20 battery electric vehicles and 10 new plug in hybrid vehicles launching in the UK. With tax breaks and wider availability now is the time to look at going electric.

Sussex EVs will be at the event to answer the many questions surrounding electric vehicles. Come along to this free event and talk to real owners who can tell you what life is like owning and living with these vehicles. There will be stalls from other local community groups and eco organisations as well. We'll have activities for the kids and maybe a prize or two!

This event is on the level but it takes place on grass. Much more info about the event and Sussex EVs on their Eventbrite booking page.

Need help getting on top of your energy bill?

Not to worry, we're here to empower you to take control

Come along to one of our drop-in advice surgeries. We can provide you with information, guidance and sign posting on:

- Switching energy tariff or supplier to get a better deal; even changing your payment method could help you save.
- Eligibility checking for Warm Homes Discount, Priority Service Register and/or the Energy Company Obligation.
- Low cost energy efficiency measures for your home, business or public space.

Attend our free, impartial consultation sessions:

St Paul's, 55b Chapel Rd, Worthing BN11 1EE every Wednesday between 10am and 3.30pm



Powered by Transition Town Worthing visit us at www.ttworthing.org







Eco Open Houses

Visiting

Visits to the venues are free thanks to the kindness and generosity of the property owners. Please be respectful at all times and observe some basic rules:

- Opening times are generally 10am–1pm and 2pm–5pm but not all houses are open both days or both sessions. See below. Please do not visit between 1pm-2pm as this is a lunchbreak.
- Some houses have informal tours that last up to one hour. See below or house pages for times. If you turn up late you may only be able to complete part of the tour, as the householder might like a break between tours.
- At some of the houses you may be asked to remove your shoes.
- Please take care if a house is in the process of having building work done.
- Children must be supervised by an adult at all times.
- Sorry no dogs (please ask the householder about guide/service dogs).
- We encourage everyone to travel by sustainable means. Suggestions are listed with each house, or plan with Traveline South East – www.travelinesoutheast.org.uk
- Wheelchair friendly venues will be indicated by this symbol &

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Opening times

All venues are closed 1pm-2pm for lunch. Tours are on the hour and last up to an hour. For details see the venue page in this brochure or the website:

worthing.greenopenhomes.net

			Sat 2	Sat 25 Apr		6 Apr	
Venue			AM	PM	AM	PM	page
1	46 Beechwood Avenue	tours				2–5	18
2	Maybridge Keystone Centre	open	10–1	2–5			19
3	30 Pevensey Road	open	10–1	2–5	10–1	2–5	20
4	Henry House	open	10–1	2–5	10–1	2–5	21
5	51 Northcourt Road	open			10–1	2–5	22
6	62 Northcourt Road	open			10–1		23
7	39 Downlands Ave	open		2–5		2–5	24
8	18 Archibald Road	open		2–5			25
9	62 Sompting Road	tours		2–5	10–1		26
10	Rena, The Street	tours	10–1	2–5			27
11	325 Upper Shoreham Road	tours	10–1	2–5			28
12	14 Juniper Walk	talks	10–1	2–5			29

Water and energy saving features

Water saving

Green roof

A roof that absorbs water, influences variation and biodiversity and is created from a waterproof membrane covered with a growing medium and vegetation.

Grey water recycling

Collecting waste water from sinks, showers and baths and reusing it for toilet flushing or watering the garden. Grey water is waste water that has not been mixed with sewage.

Low water goods

Taps, showers or toilets that are designed to use less water than typical plumbing fittings, typically by aerating the water.

Rain garden

Creating a 'rain chain' with as many opportunities as possible to catch, store and use rainwater – preventing it from becoming runoff into storm drains. This relieves potential flooding whilst enhancing one's garden.

Rainwater harvesting

Collecting water that falls on a roof and using it at home for washing clothes, flushing a toilet or watering the garden.

Energy saving

Air source heat pump

Air Source heat pumps are a great sustainable energy alternative for heating your home. Working like a refrigerator but in reverse, they

For more detail of the work done on each venue see the case studies on our website www.greenopenhomes.net

energy tures	Gras	Green roof	Low.	Rain Water goods	Rain.	inwater harvesting	Air co	Biom Surce heat pump	Caui*	Draw wall insulation	Elect	Fond Fond	Growing Growing	Heat:	Lifest Controls	Low.	Low.	Loft :	Nat	Polare	Reng.	Solar	Va har	SW.	SW in a	Zero
VENUE PAGE	WAT	TER SA	VING	FEAT	URES		ENERGY SAVING FEATURES																			
18 46 Beechwood Avenue									*	*		*		*	*	*	*	*			*	*				
2 Maybridge Keystone Centre 19												*		*			*					*				
3 30 Pevensey Road 20																			*							*
4 Henry House 21											*	*		*	*	*	*					*	*			
5 51 Northcourt Road 22										*		*		*	*	*	*	*	*		*					*
6 62 Northcourt Road 23											*			*	*	*	*		*			*				
7 39 Downlands Ave 24									*			*		*	*	*	*	*	*		*	*	*	*	*	*
8 18 Archibald Road 25								*				*			*		*	*			*		*			*
9 62 Sompting Road 26												**	*	*	**	*	**	*		*		*		*	*	
Rena, The Street 27		•							*				***	***	**	***	*	**	*		*					*
11 325 Upper Shoreham Road 28							**				*	*		***	*	*					*					***
12 14 Juniper Walk 29			•											*	*	*	*	*		*	*	*				

allow you to generate heat energy from the surrounding air. The pump needs electricity to run, but it should use less electrical energy than the heat it produces.

Biomass boiler

Wood-fuelled heating systems, also called biomass systems, burn wood pellets, chips or logs to provide warmth in a single room or to power central heating and hot water boilers.

Draughtproofing

Lots of heat is lost through draughts so this is a priority for saving money. Typical draughty areas of a house include chimneys, loft hatches, windows and doors, around skirting boards and floors.

Energy controls

Heating systems with simple controls in an accessible place can be more efficient as people are

more likely to use them. Typical controls include thermostatic radiator valves for each radiator, room thermostats – and programmers, which enable more control.

Ground floor insulation

For suspended floors, mineral wool or rigid insulation boards are installed between beams. For solid floors, rigid insulation board is placed on top of the solid floor and under a finishing layer. Installing thicker carpets and/or insulated carpet underlay may also help reduce draughts.

LED lighting

A very low energy form of lighting (light-emitting diode) which uses significantly less energy, is long-lasting and cheap to run. LEDs are now available for most light fittings.

Low energy appliances

All appliances are rated from A to G, with appliances rated A to A+++ for refrigeration using the least energy. Washing machines and dishwashers are also rated for the amount of water they use per cycle.

Natural materials

Products that come from plants or animals – including sheep's wool insulation, sweet chestnut cladding, sustainably sourced timber paints and clay plaster.

Natural materials tend to be more sustainable than artificial materials and allow breathability and movement of moisture.

Powerwall battery

Powerwall, with built-in battery inverter, is a rechargeable home battery system that stores energy

from solar or from the grid and makes it available on demand.

Renewables

Switching to a company that sources its energy from renewable sources is easy these days. Transition Town Worthing provides an energy switching service – see page 12.

Solar PV

Panels usually mounted on a south-facing roof that convert sunlight into electricity. Electricity generated using PV panels used to attract a payment known as the Feed in Tariff (FIT).

Solar thermal panels

Using the sun's energy to directly heat water. Can be a flat plate system or evacuated tube system. This system allows you to have heated instant water directly from

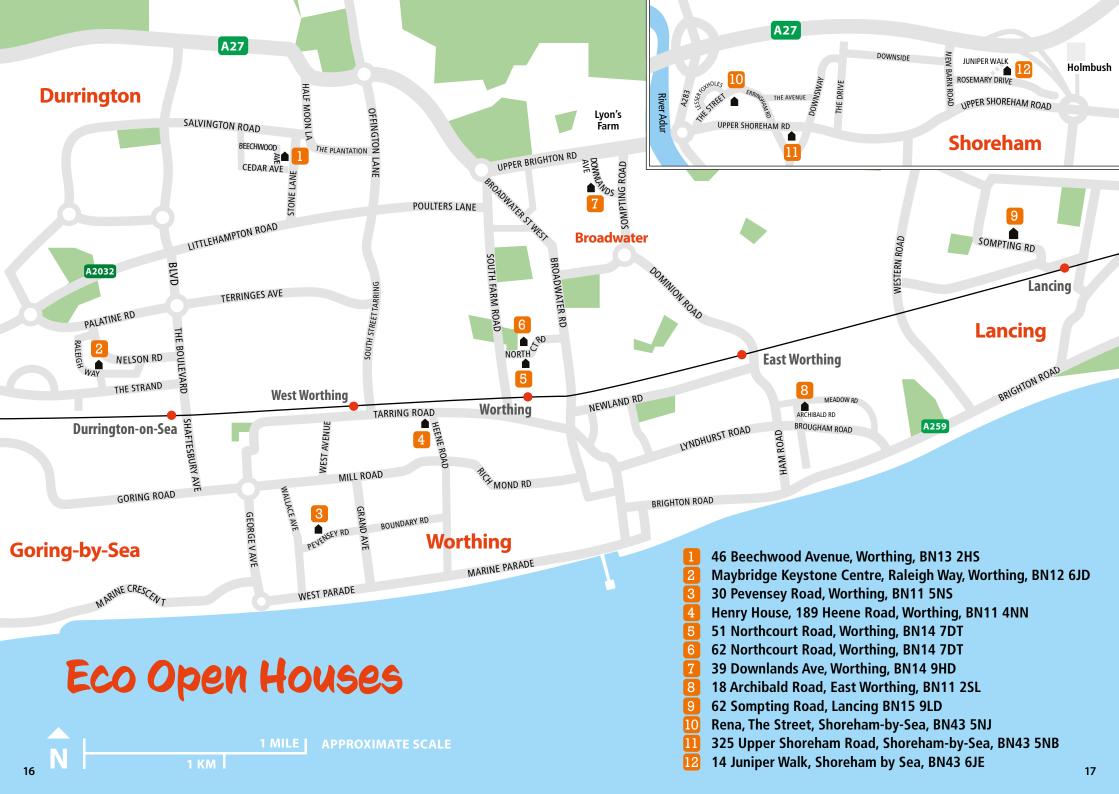
the sun helping to minimise your water bills over the long term.

Solid wall insulation (SWI)

Solid walls can be insulated externally or internally. Walls are usually insulated externally by fixing insulation boards to the wall and then finished with rendering or cladding. Walls are internally insulated by fixing rigid insulation boards to existing walls or by building a stud wall filled with mineral wool or equivalent which is then dry lined with plasterboard.

Zero waste

Addressing the issues of single use plastics, fast fashion, food waste (including composting) and recycling.







E













KEY FEATURES

Water efficiency

Solar PV

Innovative waste practices

OPENING HOURS

Sunday 26 April 2–5

Informal tours on the hour: 2, 3, 4

TRANSPORT

Bus: Stagecoach 5 (stops in next road – Stone Lane)

Train: West Worthing (1.5 miles)

As a director of Transition Town Worthing, Pauline spends a lot of her time at home organising projects and events (like this one) all aimed at reducing impact on the environment. Pauline and Alan's home is a living example of small achievable steps.

Their approach to water and energy conservation is impressive. It is a 2-bedroom bungalow with both Pauline and Alan at home most days, but their water consumption is equivalent to less than one person in a one-bedroom property, so how do they do it?

Go along and see just how simple it is to achieve, through eco appliances and settings, water butts and a conscious choice to use mains water at a minimum. And let's not forget their zero-cost built shed, and their home-made pond, created from recycled materials.

Their solar PV panels will be paid back after 7 years, allowing them the luxury of being guilt and carbon free as they enjoy a cosy, comfortable and environmentally positive home, exuding efficiency, yet has come together from a make do and mend philosophy using and reusing everything.

Come and talk to Pauline and Alan – be wowed by simplistic efficiency that's actually very easy to achieve.

KEY FEATURES

Automatic sensory lighting and taps, natural light flume, sedum roof

Demonstration: using solar power for light and watering in the garden

Visit Breathing Spaces flower farm and rain garden

Come and plant some trees!

Tarring Flood Action Group display

OPENING HOURS

Saturday 25 April 10-1, 2-5

TRANSPORT

Bus: Stagecoach 9,10 (stops on The Strand)

Train: Durrington on Sea (5 minutes walk)

Directions: The Centre is at the junction of Grenville Avenue/ Raleigh Crescent and Way ere in the Welcome Woodland Garden, there will be regular demonstrations of how Breathing Spaces' solar-powered features provide lighting in the yurt and floodlighting for the garden. Also the solar powered offgrid watering system reduces water going to the drains. Follow the signs from the main entrance driveway to the right.

If you are wondering how to prevent water that lands on your property from contributing to surface water flooding, look at the community flower farm's 3-stage rain garden, being developed by Breathing Spaces. As well as the water resilience and biodiversity being created, see how cut-flowers can be grown locally and sustainably, cutting air-miles, unnecessary heating, packaging and water usage.

Why not also join in some tree planting to add to the native trees around the playing field? This will happen in the field to the left of the Centre building.

Inside the Centre, Tarring Flood Action Group's display and video shows how they've helped local residents protect their homes from surface water flooding.



30 Pevensey Road (garden only) Worthing BN11 5NS















KEY FEATURES

Rain garden

Surface water management

Rainwater harvesting

Re-purposed materials

OPENING HOURS garden only

Saturday 25 April 10-1, 2-5 Sunday 26 April 10-1, 2-5

TRANSPORT

Bus: 700 & Pulse (both days)
Saturday only – 8, 8A & 9
Train: West Worthing

When Francoise moved to Worthing in the summer of 2017, she soon discovered that her new home was vulnerable to the effect of surface water, given the type of clay soil the house stands in, and that the dampness problems the house was suffering from had been hidden. In the autumn, when returning from a few days away, Francoise discovered black mould spreading throughout the back of the house, and a foul atmosphere. Contributing factors had been a very wet summer, and mains water pipes leaking outside the property.

Immediate remedial action was taken by repairing water pipes, replacing the central heating with a condensing boiler, clearing out and adding air bricks to improve ventilation within the property.

Francoise studied local maps, soil conditions and surface water tendencies. A flood map obtained from the Environment Agency showed a tendency for surface water to flow down the driveway and accumulate in the back garden.

Francoise visited our 2018 Eco Open Houses event where surface water management was a key theme and saw ideas in action (including rain gardens, swales, deep guttering and rainwater harvesting). Major groundworks for the garden have now led to a resolution of the problem.

KEY FEATURES

Beehives

Deep flow guttering

Digital water monitoring systems

Rainwater harvesting and grey water recycling

Solar PV & thermal

Buzzing performances of the 'waggle dance'.

OPENING HOURS

Saturday 25 April 10-1, 2-5 Sunday 26 April 10-1, 2-5

TRANSPORT

Bus: Stagecoach 10, Compass 7 (Sat), 7A (Sun)

Cycle: bike rack available at the front of the property.

Train: West Worthing

Whether it be water or energy efficiency, or urban beehive management, Henry House Hydrotherapy Centre have it nailed! A great synergy has been created by Karen's long-term passion for ecology and her engineering background.

Karen and Rolf have resolved the high demand for water and energy in their home and business by very creatively reducing consumption, saving money, recycling water, not using mains water, plus generating income and energy from rooftop solar. Find out how!

From their first wild swarm, which began producing honey within 6 weeks, they now have two operational beehives. From these peaceful and productive bees in the first swarm, a second queen was raised to establish another colony. So far, the two hives have produced over 50 kg of prize-winning honey. Bees need water, so the hive is right next to the pond populated by dragonfly, damsel flies, frogs and toads.

Rosa, Karen's 9-year-old granddaughter will be on site on Saturday to answer your questions and help you have fun with queen-bee dress up. Re-Gen Builders and Buzz Eco Electric (see advert on page2) will also be there to discuss retro insulation, sustainable building and EV hook-ups.

20 problem: 21















KEY FEATURES

DIY solar powered toilet Rainwater garden

Water & energy saving measures

Forest garden

OPENING HOURS

Sunday 26 April 10-1, 2-5

TRANSPORT

Bus: Stagecoach 1, 5, 7, Compass 16, 23

Train: Worthing (5 mins walk)

lave you ever really wondered how much money I you can save off your water bill with every flush you make? Claire and Ryan save approximately 10 pints of water every time they flush their DIY solar powered toilet! They can save a whopping 60 pints of water a day, or 21,900 pints of water saved a year... Imagine that reduction on your water bill.

Both their front and rear gardens showcase effortless ways to collect rainwater, ensuring it doesn't add to surface water flooding. Instead it flushes their loo and waters their plants too.

They are passionate about reducing their part in climate emergency threats and have all manner of low tech, low spend solutions in their home, saving resources and saving themselves money at the same time. They are part of a growing number of people who have switched to a 100% renewable supplier that is cheaper than larger energy companies.

Claire and Ryan's small back garden is packed with useful, edible and pollinator plants. If you want to be more energy and water conscious and see how natural gardens can store both carbon and water, be a haven for wildlife and produce fresh food this home is well worth a visit!

KEY FEATURES

Electric car

Electric car charging post

External solid wall insulation Solar PV

OPENING HOURS

Sunday 26 April 10-1

TRANSPORT

Bus: Connect 7A, Stagecoach 1, 5 (Broadwater Rd)

Train: Worthing

Dy 2040 no more petrol and diesel cars will be Dproduced or sold, which means potentially, anyone born in the next few years may only ever drive a carbon free powered car.

If you are interested, have questions, or are just intrigued to see or sit inside an electric vehicle, come to No 62 and see their Hyundai Iconiq, one of the latest models to be released. It drives like a dream, its nippy, powerful, smooth, and so quiet, 'I'll never go back to a petrol car', says Alesia. It also has plenty of technology inside, including Apple Car Play.

It's been on plenty of short journeys to Guildford and back on one charge and even had a visit to York and back. It also only takes 4 hours for a full charge on their overnight (freely installed) charging point.

However, if cars are not your thing, but solar, wall insulation or other household energy efficiency is, this property features external solid wall insulation something you don't get a chance to see very often. It is useful where insulation in the loft and cavity wall is not an option. Come and chat to Alesia and Duncan and find out the difference it has made to their lives.

39 Downlands AvenueWorthing BN14 9HD













KEY FEATURES

Rainwater garden/harvesting
Grey water recycling

Cavity and solid wall insulation
Triple glazing

Wildlife garden and woodland

OPENING HOURS

Saturday 25 April 2-5 Sunday 26 April 2-5

TRANSPORT

Bus: 7 (hourly), 16 (hourly) to bottom of road. (Not Sun), 1, 5, 23 to Broadwater Green (10 min walk)

Train: Worthing/East Worthing (1 mile)

Merry and Richard are a great example of living lightly on the earth, practising what they preach. If you want to know how to do this, visit their home and see how they live at one with nature – taking care of wildlife and letting things grow how they evolve. Through a mix of simple, straightforward, age-old solutions combined with modern technology, they have reduced CO2 and water use.

They have a small, but efficient rainwater garden at the front, fed via an old beer keg and an extensive rainwater harvesting system in the back that feeds three of the small ponds that are dotted around. Grey water recycling is a key feature here.

Their latest energy feature is an Apollo Gem Solar Power management system to direct surplus generated solar electricity to various uses in a sequence of priorities, enabling the hot water tank to take advantage of free solar electricity when available.

This very well insulated, triple glazed house employs natural materials wherever possible. Barely any heating is needed, they can have the thermostat at 16 degrees and effectively their home is carbon neutral.

KEY FEATURES

Biomass boiler

Solar thermal

OPENING HOURS

Saturday 25 April 2-5

TRANSPORT

Bus: Pulse stops at end of road or 700 stops on seafront opposite Ham Road

Train: East Worthing (7 mins walk)

A rchibald Road used to cost a lot to heat and was still unbearably cold. Inefficient storage heaters, logs for the living room, a fan heater in the bathroom and no heating in the bedrooms meant that it was time to update this Victorian house!

Nicky investigated the different renewable technologies available (biomass, air source heat pump and ground source heat pump) as well as Fischer electric heating and decided to choose Biomass, which has provided heat in every room as well as incorporating the open fire that she loves.

In addition to the pellet boiler, DH Solar Engineering recommended solar thermal for heating hot water in the sunnier months. In spring the boiler is barely needed for hot water, and in summer there is a continuous supply of hot water from the solar panels, so Nicky can now add hot water to the paddling pool knowing that it costs no more!

Nicky likes to save money where she can, whilst investing in the environment. Her current energy supplier is People's Energy, who provide 100% renewable electricity and share some of their profit with their customers.

Nicky now wants to sort out the draughty double glazing to make the house even cosier.

















KEY FEATURES

Rain garden

Powerwall, solar energy storage battery

Exterior solid wall insulation

OPENING HOURS

Saturday 25 April 2-5 Sunday 26 April 10-1 Hourly tours on the hour

TRANSPORT

Bus: Stagecoach Pulse, stops less than 1-minute walk from house. Stagecoach 9 to Tower Rd, stop about 4-minute walk from house

Train: Lancing (6-minute walk)

If you want to see attainable, innovative and practical family living all under one roof, you would like visiting Lydia and David's home. Through embracing opportunities, technology and being a bit brave, they have managed to combine being planet-friendly with the comfort and practicality of a busy, modern family lifestyle.

The rainwater garden has been designed to be an aesthetically pleasing water feature as well as a functional cistern, providing a home for fish and irrigation water for the plants in the front garden. No rainwater falling on their roof and hardstanding goes to highway drains and makes best use of their front garden.

The pebbledash walls had several damp spots internally and were poorly insulated, so they took advantage of a government grant to install external solid wall insulation, significantly mitigating the problems.

A solar energy battery was installed three years ago to store unused energy from nine solar panels – a real game changer. This feeds back into the house when the panels aren't generating, saving money, allowing them full control of their energy generation and use, while reducing their carbon footprint.

KEY FEATURES

Biophilic design

Lifestyle

Energy and water saving

OPENING HOURS

Saturday 25 April 10-1, 2-5 Hourly tours on the hour

TRANSPORT

Bus: 19 Compass Bus

Train: Shoreham-by-Sea (15 mins walk)

Car: park in Lesser Foxholes, the road opposite the house Directions: Past the flint walled Manor House, down the hill on the left side by the first lamp post, *Rena* is opposite the upper entrance to Lesser Foxholes. There are no street numbers

Anna and Jack's ground floor extension has that real 'wow!' factor when you walk into it. Anna's native Swedish influences inform this home – 'it's the natural way of life for a Swede – we don't even think about it, and we try to live what we preach' – light, stylish design, strong connection to nature indoors and out, using natural materials. Anna runs Chalk and Moss (www.chalkandmoss.com), a sustainable, nature connected online shop and blog for wellbeing – chosen by Elle Decoration as one the UK's best online shops in 2018.

Inspired by Biophilic Design (our need to connect with nature for our wellbeing), with air purifying plants throughout for wellbeing and health, even the new ceilings in this house have been designed to have natural curves as there are no corners and straight lines in nature. This home is energy and waste efficient, beautiful and calming.

As Anna can demonstrate, we can all make simple, achievable lifestyle changes to fit our budget. Their home is a fantastic example of the small things we can all do that collectively make a real difference.

















KEY FEATURES

Air source heat pump Electric vehicle

Lifestyle choices

OPENING HOURS

Saturday 25 April 10-1, 2-5 Tours on the hour

TRANSPORT

Bus: 2 (Brighton and Hove), 9 & 700 (Worthing)

Train: Shoreham-by-Sea (10-15 minute walk)

VISITOR INFORMATION

Due to the whole house having relatively new carpets, please can visitors remove their shoes on entering the hall.

Anne and lan's home is a thoughtful, well considered work in progress. Their goal is to become a carbon neutral household. To achieve that, they decided to have an air source heat pump installed to provide central heating and hot water to basins/bath (shower is electric). As a recent installation, they are still on their initial journey with this. Utilising smart metering they are much more conscious of their fuel use. By adding an electric awning on the south face of their house, it has enabled them to dispense with air conditioning in summer.

They very wisely chose to take advantage of the Renewable Heat Incentive to help them save money and make their project more achievable. Planning the order in which to get things done, they've gained maximum advantage of this, so that's why insulation is next on the list (not first). Before starting their journey, their energy rating was F and after the impressive heat pump installation, it has already gone to B. The insulation will then take it to A!

KEY FEATURES

Large solar PV Array
Tesla Powerwall 2 battery

2 Electric cars

2 32A charging points

OPENING HOURS

Saturday 25 April 10–1, 2–5 Talks (30 mins) at 10, 11, 12, 2, 3, 4

TRANSPORT

Bus: 2 (Brighton and Hove), 9 & 700 (Worthing)

Train: Shoreham-by-Sea – about 25 minute walk

Cars: please park on the junction of Tarragon Way and Rosemary Drive. Juniper Walk is the grassed/paved area off Rosemary Drive and No 14 is at the far end

If you haven't already visited this property and want to get your head around solar PV, home batteries, electric cars, and how they can work with each other, visit this house!

Warren attended our 2016 event and his enthusiasm for technology was so infectious that two of our home owners installed solar panels, and another bought an electric car!

Warren and his wife Bairbre want to make their daughter's future as self-sufficient as possible, so a 14kW Tesla Powerwall 2 battery was installed, storing energy produced by solar PV to power the house when there's no sun. This, coupled with an energy efficient home, means that Warren's aim to be 100% energy self-sufficient in summer is achievable.

Warren has joined the leadership team of award-winning Sussex EVs, a community for people who are interested in Electric Vehicles and Renewable Technologies, and will be hosting the first EVs By The Sea event in Lancing on 26 April.

Zero waste

Zero waste: ditching single use plastics and avoiding unnecessary waste



Along with climate change and carbon reduction, 'zero waste' is a key theme of this year's Eco Open Houses event.

More and more, people are beginning to think about the waste they produce, the environmental impact, and what can be done to minimise it. This is a really positive development and marks a significant shift in attitude, driven largely by documentaries and journalism about the volume of plastic waste in our oceans, and the harm it causes. Many people have been moved by distressing images of wildlife harmed or killed by plastic, and people have been driven to take action, at home and at the shops, demanding manufacturers and retailers do the same.

During this event, we will showcase and highlight some of the many ways people in our community are reducing the amount of waste they produce, and helping others to also do the same.

Supporting zero waste locally

Plastic Free Worthing (PFW) – an organisation we work in partnership with – have been doing a great job of raising awareness, attracting people to its ever-busier meetings and beach cleans. Under Plastic Free Towns, the Surfer's Against Sewage campaign, PFW are seeking accreditation for Worthing by pursuing its aim of persuading local businesses and schools to eliminate single use plastic.

At present eight businesses in Worthing have ditched single use plastic – another 27 businesses and 50% of Worthing's Schools are needed to join the movement so Worthing can be granted 'Plastic Free' status. This accreditation is a widely recognised benchmark, which can serve as a source of pride for all communities and businesses and will also be important in the development of sustainable industries and eco-friendly tourism in our fown

Larder (157 Montague Street) is Worthing's refill shop, where one can find an extensive range of loose dry goods like grains, pulses, fruit and nuts, herbs and spices – even locally made chocolate. Local produce includes eggs, honey and fruit juices plus more exotic products without the carbon footprint, such as olive oil and balsamic vinegar, both shipped to Sussex by sail. Bulk liquids for cosmetics and domestic cleaning are also available (bring a bottle and buy what you need) and a range of plastic free and re-usable alternative products to help you reduce the plastic in your life.

Jean Raleigh, owner and proprietor, is working hard to reduce the plastic consumption of our town. As the founder member of Plastic Free Worthing, she has also been wonderfully supportive of Transition Town Worthing, allowing us to use space in her shop as an office when we had to leave our previous offices in Chapel Road.

Conscious Cow

Vegan food and household store 137 South Farm Road, Worthing, BN14 7AX www.consciouscow.co.uk

South-by-West

Coffee shop: 10 South St, Worthing BN14 7LH www.facebook.com/ southbywestworthing

Best Health Food Shop

Worthing:

27 Broadwater Street West, BN14 9BT Shoreham-by-Sea: 33 East Street, BN43 5ZD www.besthealthfoodshop.com

Refill (app) Out and about and you've drunk all your water? There's an app for that. The *Refill* app can be found on the Apple App or Google Play store and downloaded to your smart phone or tablet. The app will display a map of places where they will happily refill your bottle with tap water, with no charge or obligation to buy anything.

Repair Café Transition Town Worthing's Repair Café has been immensely successful and demand just keeps on growing. As a member of the international Repair Café movement, our team of skilled volunteers repair broken or damaged electronics and electricals, furniture, bicycles, tools, toys, clothes, furnishings – you name it, we try to fix it. Beyond a contribution to any specialist parts needed, repairs are not charged for – a valuable service for people on a low income. Donations always welcomed though to cover our core running costs. Held on the last Saturday of every month, including 25 April, at The Friends Meeting House on Mill Road. Book your repair via worthingrepaircafe.org – time slots fill up fast!

Eco Open Houses

As you visit the properties and read their case studies, you will learn about a variety of ways our householders have adapted their lifestyles, to reduce the amount of waste produced. You will see a range of alternative and reusable products, as well as a set of principles and practices people are putting in place to reduce their consumption of stuff.

Fashion

The fashion industry is notoriously wasteful, the demand for fast fashion sees millions of tonnes of cheap mass produced garments manufactured, sold, and binned every year. Labour conditions are often very poor, and the environmental impact of producing natural and synthetic textiles, as well as dyes, can often be badly managed. In addition, machine washing synthetic textiles releases billions of micro plastics into the sea through the loose fibres washed down the drain. Conscious choices can be made to choose high quality yet affordable garments in timeless styles and natural materials, that will last and not go out of fashion. Buying second hand is a great way to find garments that have stood the test of time. Look for clothing brands that carry both WRAP (Worldwide **Responsible Accredited Production) certification** for labour conditions, and Oeko-Tex Standard 100 environmental certification for the textiles industry.

Food waste

Food waste is a big problem, with an unnecessarily large proportion of the food sold in the UK going to waste. It can end up in landfill creating toxic leachate which gets into the water, and emitting landfill gas rich in methane – which has a very high global warming potential. Many of our householders minimise food waste through composting, and by the choices they make on what they buy and eat. Buying less, buying local or growing at home to reduce waste in the supply chain, and making good use of leftovers makes perfect sense.

Water recycling

Grey water recycling in many of the gardens reduces waste water, and you will also see many creative examples of repurposed materials – all very inspiring stuff!

Eco Open Houses team

This event has been co-ordinated by Pauline Cory, Sam Bailey and Sarah Slight from Transition Town Worthing (TTW)

Transition Town Worthing

Ten Julyan

www.ttworthing.org

TTW began in 2009 and became a CIC (Community Interest Company) in Sept. 2017. As part of the International Transition Movement founded in 2006, we are one of over a thousand grassroots, world-wide, community initiatives that help to build resilience in the face of climate change and uncertainty.

Our gratitude goes to all those who give up their time to support our many events and projects throughout the year, particularly when helping to run big events like this – there's no way any of it would happen without you.

Check out our website for more details and follow us on Facebook www.facebook.com/TTWorthing/ or Twitter @TTWorthing

We could not create the event without our partners:

Low Carbon Trust



www.lowcarbon.co.uk

Low Carbon Trust is an independent, not-for-profit organisation formed in 2001 to set up, manage and promote environmental projects. Their main objective is tackling climate change through highlighting the connection between buildings, energy and carbon. They do this by running innovative low carbon construction projects, such as the award winning Earthship Brighton community centre, and an education program, including Eco Open Houses events, green building training courses and Eco Education Days for local schools. We are very grateful, once again, to Mischa Hewitt for his support with using LCT's branding, website and materials.

Green Open Homes



GREEN OPEN HOMES

www.greenopenhomes.net

The Green Open Homes Network aims to support low-carbon open homes events across the country through free resources and advice. We've always used their website to house our full case studies, so do check it out for all the technical stuff for each of our venues, as well as details of our fringe events.

Adur & Worthing Councils



www.adur-worthing.gov.uk

TTW is very grateful for ongoing support from Adur and Worthing Council and for letting us use the Town Hall as the official brochure pick up point for Worthing. Their Strategic Sustainability Manager, Francesca lliffe, is one of our Eco Open Houses speakers and helped us co-organise the Zero 2030 Climate

Conference with Michelle Furtado from Worthing Climate Action Network. It's wonderful to see the Council declaring climate emergency and coming up with the Sustainable AW Framework to help us move towards Zero Carbon.

Lancing Parish Council

www.lancingparishcouncil.gov.uk

In May 2019, Lancing Parish Council were the first Parish Council in West Sussex to

declare climate emergency, making a commitment to reduce the carbon emissions of their activities to net zero by 2030. They are committed to working in partnership with other organisations who share their ambition and have been amazingly generous and helpful to Sussex EVs, who wouldn't have been able to organise the 'EVs by the Sea' electric vehicle show in Lancing without this support.

Thanks

Huge thanks to the organisations and individuals who support us throughout the year:

- TTW directors, members, staff and volunteers

 particularly those who helped with the
 organisation of this event.
- Frances Wetherilt and Here and Now Magazine for ongoing editorial space and some great ideas!
- Lisa Leach and Claire Hunt from Breathing Spaces for their ongoing support and inspiration.
- Keith Colin and Liane Webb at Sustainable Sussex – for their support for TTW and the disadvantaged in our town.
- Worthing Climate Action Network/Refill for their work on divestment and climate emergency.
- Plastic Free Worthing and the Zero Waste gang, raising awareness about single use plastics.
- Worthing Quakers for their extremely generous, ongoing support of the Repair Café and, of course, our very talented, committed and versatile repair team who come along month after month.
- Worthing Mayor Hazel Thorpe and Cllr Bob Smytherman for their help in so many ways.
- Community Works and Community Chest for their support and for acting as sounding boards for our ideas.
- South East Climate Alliance (SECA) for their back-up, expertise and being a great team to work with.

Our gratitude to those who enabled us to make this event diverse and very special:

- Our wonderful householders who have committed to lead sustainable lives.
- Our designers Julian Howell and David O'Connor you are always so straightforward to work with.
- Warren Philips and Neil Roberts from Sussex EVs for all their hard work in organising EVs by the Sea.
- Debs Butler and Lou Breinholt from Worthing Honey Collective for their creative and inspiring projects.
- Jon Trigg at Freedom Works for allowing us to use their lovely community space for our gatherings.
- Duncan Anderson and Chris Bladen at South Downs Leisure for being willing to go the extra mile.
- Nev Galvin from A Greener Alternative for supporting us in various ways with this event.
- Paul Jackman for sharing his knowledge about Rampion Wind Farm and for the boat trip.
- Biffa and Viridor for very interesting site tours.
- Pete King and the team at the awesome EPIC project, making such a difference to our environment.
- Our speakers Tony Whitbread and Sarah Kemp for giving up their time for free and sharing their expertise.
- Maybridge Keystone Centre (MKC) committee for hosting various events for us over the years.
- Jez at the Shoreham Centre for being willing to be our pick-up point in Adur.
- Ant and the team at Coast Café for providing an ambient venue and great food for our post event gathering.

Sponsors

This event would not have been possible without the collaboration of Transition Town Worthing members, Worthing Homes and our major funder for this year – The Rampion Fund at Sussex Community Foundation, without whose support this event would not be happening. We can all make such a difference when we work together as a supportive team.

The Rampion Fund at Sussex Community Foundation

This is a community benefit fund set up by Rampion Offshore Wind Ltd and managed by Sussex Community Foundation. The Fund supports organisations working for the benefit



of the people of Sussex, from Littlehampton Harbour in the west to Beachy Head in the east and up to the A272 near Twineham in the north, close to the wind farm's onshore substation. The Rampion Fund at Sussex Community Foundation seeks to support projects that benefit the local community, in particular those with links to environment and ecology, climate change and energy and improving the sustainability of community facilities

Worthing Homes

Worthing Homes have continued to supported Eco Open Houses since 2015 as it is a valuable local event which helps with learning from each other and promoting fantastic initiatives which are already happening.



As an organisation Worthing Homes has nearly

4000 properties housing 10,000 customers in the Sussex coastal area. They provide affordable rented homes, key worker accommodation, low-cost shared ownership, sheltered housing and new homes for local people. They not only focus on providing great homes but also promoting initiatives that bring people together and create thriving, sustainable communities.

These wider activities include a training and resource centre, The Community House, and strong work on sustainability to tackle fuel poverty.

More information in the case study for Worthing Homes: drive.google.com/open?id=1zv_Oph_uP8bjZ7wGl8WR9RGYtxZCOx84



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The Renewable Heat Incentive (RHI) is a government backed financial incentive scheme designed to encourage UK homes to swap to renewable heating systems. Under the RHI, heat pump system owners are rewarded for the renewable heat they generate over a seven-year period.

CONTACT US TO FIND OUT MORE

A Greener Alternative Ltd, Hangar 4, Shoreham Airport, Shoreham-by-Sea, West Sussex, BN43 5FF