

Energy Ideathon resulting ideas

The Innovation Network has been working with the States of Guernsey Energy Team to design and carry out a couple of innovative workshops as part of the engagement project for the future energy policy. Using design thinking and creative problem solving techniques, we developed a mini ideathon format to get the groups to work collaboratively to generate ideas and gather feedback that can be used to help develop and define future energy policy.

We held two sessions using the same format:

- one with States of Guernsey Graduate Officers and Trainees Executive Officers at the Digital Greenhouse;
- and the other with post-16 students studying Geography and Environmental Science at the Grammar School.

Below is the schedule for the workshop and overleaf are the resulting ideas and suggestions collated from each session.

WORKSHOP SCHEDULE:

4 steps to focus on hydrocarbons and how we can reduce our use of them

Asking you to think deeply about hydrocarbon uses, we are going to explore the roles and the responsibilities we have as energy consumers.

1	Intoduction to hydrocarbons & the energy 'trilemma'
2	Identifying uses of hydrocarbons in daily lives
3	100 ideas to reduce reliance on hydrocarbons
4	Refine ideas
+	Workshop round-up

This workshop has be co-created by the States of Guernsey Energy & Infrastructure team and the Innovation Network. Exercises have been put together and adpted from the following sources: [Digital Greenhouse Innovation Toolkit](#), a [Design Thinking Toolkit](#) and the book [Edupreneur: Unleashing teacher-led innovation in schools](#) by Aaron Tait & Dave Faulkner.

Energy Ideathon resulting ideas

+ Monday 25th February		+ Graduate Officers & Trainee Executive Officers The future of the States of Guernsey.	
+ at the Digital Greenhouse			
1	Cycle buses for schoolchildren	26	Increase pedestrianisation and increase cycling lanes
2	Tax breaks/incentives for solar panels on domestic properties	27	Ban non-LED lighting
3	Abolish private ownership of cars	28	Eco-friendly legislation for all new businesses coming to Guernsey
4	Paid parking	29	Pay as you pollute
5	Improved compulsory building standards for energy savings	30	Follow/adopt French fire laws – pay for environmentally friendly fires
6	Investigate why public transport is under used/unpopular	31	Ban single use plastics
7	Subsidise double glazing in domestic properties	32	Subsidise heat pumps
8	Subsidise wall/loft insulation or free loft insulation	33	Invest in battery storage
9	Everybody should have a SMART meter to analyse electricity usage	34	Subsidised appliance efficiency testing – domestic and business
10	Implement car sharing app – good for mental health and wellbeing to be sociable, good for the ageing population/young parents who could feel more isolated/vulnerable	35	Vertical farming
11	Shop local – to reduce carbon emissions	36	Macro renewable energy
12	Active travel – walk, bike, sail to work	37	Get more people to cycle
13	Green business policies – e.g. skype into a meeting instead of flying them	38	Solar thermal energy plant
14	'Green Finance' policies – finance firms that operate in Guernsey adopt environmentally friendly policies/initiatives	39	Automated lights – mandatory/legislation for business
15	Carbon Capture – plant more trees	40	Electric trams
16	Pedestrianize St Peter Port	41	Reduce car parking spaces in town
17	Ban ICE cars	42	Increase/improve direct flights – reduce the need to travel from Gsy to Gatwick, Gatwick onwards
18	Invest in renewable energy – tidal, wind, solar and subsidise renewable energy companies	43	Increase the number of farms on the island and subsidise local growers
19	Build the direct cable link from Guernsey to France (GF1)	44	Passenger tax
20	Solar/wind powered street lamps	45	Mini wind farms in windy areas of the island
21	Running tracks that generate kinetic energy – case 1 / case 2	46	Increase the number of windows in buildings to let more light in and negate the need for artificial lighting
22	Electric car legislation – see idea no.3	45	Hydro energy reservoir
23	Free from plastic shop	46	Collect rain to power water mills
24	Upcycle instead of buying new	47	Reduce or limit the number of cars per household
25	Roof gardens	48	Use licence plate registration to set what days people can drive their cars – case 1
		49	Electric bikes

Energy Ideathon resulting ideas continued.

+ Monday 25th February		+ Graduate Officers & Trainee Executive Officers The future of the States of Guernsey.	
+ at the Digital Greenhouse			
50	Tuk tuks in St Peter Port/along the West coast	76	Build the tunnel to Alderney and close Alderney airport
51	Boris Bikes - free public bicycles to hire	77	Link all of the Channel Islands to France via tunnels - shared resources (airport)
52	Improve public transport	78	Limit/restrict population growth
53	Reduce imports - more home production	79	Buy local second-hand clothes
54	Pollution tax for car journey's with only one passenger	80	Alderney becomes a utility island
55	Get postmen back on bicycles	81	Tax on imported foods
56	Waste to energy plant on island	82	Hydrocarbons from CO ₂
57	Only sell local grown veg - reduce importing vegetables (eating seasonally could improve health and wellbeing)	83	Harvest the gas (methane) from cows
58	Congestion charges	84	Power domestic properties with kinetic, self-generated energy
59	Car free roads	85	Using waste (human/animal) as source of energy
60	Build a coastal cycle path (all the way around Guernsey) for eco tourism/improve local health, encourage more people to cycle	86	Invest in hydrogen energy
61	Pollution tax for all cruise ship passengers who disembark	87	Use bamboo instead of plastic - grow bamboo on-island
62	Communal living farms/growing/simple living	88	Solar powered e-books
63	Paperless island - no paper money	89	Encourage better critical thinking skills in the community (at schools)
64	Ban parking on piers in town	90	Build an incinerator - on island energy generation from rubbish
65	Ban using cars for small journey's	91	Increase Fuel Duty
66	Tax relief for owners of electric cars	92	Build sea wind farms
67	Pay as you pollute tax - cars a microchipped to measure mileage and passenger numbers	93	Build a wind farm by Alderney
68	Under desk cycle generators	94	Encourage more people to walk to work
69	Set up community energy hubs for solar/wind/tidal - Clos/Estate Power, Parish Power etc.	95	Kinetic street lights
70	Incentives for businesses/individuals to reduce energy usage	96	Electric trams from the parishes into St Peter Port (e.g. The Forest Road Tram)
71	Set up local/community food growing co-operatives - community greenhouses	97	Electric railways/trams using a sustainable energy source
72	Ban single-use plastics	98	Put a tram from The Aquarium to The Bridge
73	Harness energy from the gym	99	Harness energy from cyclists
74	Invest in tidal power/Build a tidal power plant	100	Solar powered public phone charging points.
75	Build the tunnel to Jersey and close Guernsey airport		

Energy Ideathon resulting ideas continued.

Great idea

AvGas

Air travel

Bus

Helicopter

Critical thinking

Integrator (energy from rubbish)

Adjustable lights

Solar PV

Subsidize renewable energy companies

GF1

Cable Link

Carbon capture (optional more trees)

Rough Insulation

Fuel duty #

Solar Thermal

Ban ICE cars

EV's

Renewable energy

Walters tax

Green finance laws

GFSC

Landfill

Sea and farms

Wind farm just off air density

Electric cars

Pay as you pollute

All new roads have to be eco friendly

Active travel - walking, bike saving

Walk to work

Tidal

Solar/land fill (street use)

St. Peter Park

Combinize

Car sharing scheme

Dash glassed

Walk To work

French law on fires & pay for extra fireproofing fires

Upcycling instead of buying new

Roof gardens

Only allowed road for in heavy rain - tax of eco friendly

Increase cycle paths

Skype instead of fly to meetings in the UK

Car sharing

Paid Parking

Transport

Tidal

French law on fires & pay for extra fireproofing fires

Free-from plastic shop

Pedestrian & increased cycle usage

Shop Local

Change

harness energy from the gym

Ban single use plastics

Free-from plastic shop

Bar plastics

Set up Local/Community fund for operators - community orientated

Reduce car use

Needs investigation

feasible

Great idea

Build a mini nuclear power plant in Tereval

Nuclear Batteries (can)

DS Light Saving

Anna Adams Agency becomes a utility island

How many family members can you get on a scooter?

more windows for light

Passenger Tox

Vehicle farming

Integrator (energy from rubbish)

Adjustable lights

Solar PV

Subsidize renewable energy companies

EVERYONE needs to REMOVED (Laptops, Tablets, Smartphones, energy boards)

Shut down "University flight lease your Sky"

tax on imported fuel

Abolish private ownership of cars

No cars needed

non cross nuclear fusion on earth

Mini Wind Farms in windy areas of the island

More green

Apply for Tox

Fuel duty #

Solar Thermal

Ban ICE cars

EV's

Walters tax

Pay as you pollute

Force every school to conduct assembly at school (call the way to A level)

Everyone means Virgin

No one is allowed to leave the island (unless on walk)

hanging the gas from coast

Solar powered e-bikes

Bamboo instead of plastic

Build a hydrogen plant

Macro Renewables

Sea and farms

Wind farm just off air density

Electric cars

St. Peter Park

Reduce Long haul travel

USE heat from granite to power heat lamps

Payback from excess solar use

Hydrocarbon from CO₂

Collect and reuse all rain

Hydro energy reservoir

Less people

Buy local second hand clothes

Free Jumpers

astronauts reuse everything

Communal Storage

Paperless island no money

Hire bikes

Buy Bike (for public bike hire)

Uber on bikes

Electric Bike

Public transport

Reduce car use

Set up Local/Community fund for operators - community orientated

Read more books

Bathing pools not showers

Horse & cart

ADDITIONAL CARS

Ban motor cars between 8pm + 9pm

Get motor back on pathways

Interact in hydrogen powered shops

Build a bridge to Alderney - close Alderney Airport

Pollution tax for all Cruise Ship Passengers

Improving Public transport

Reduce impacts on wildlife

Pollution tax for car journey with only use passenger

Set up community Energy hubs

Set up community Energy hubs

Energy Ideathon resulting ideas

+ Tuesday 5th March		+ Geography & Environmental Science Students	
+ at the Grammar School		Sixth Form - Years 12 and 13	
1	Automatic lights in schools and offices	27	Rewards for cycling / green modes of transport
2	Automatic windows linked to air conditioning system	28	Working from home instead of driving to work
3	Solar panels on schools and offices	29	Subsidise local growing
4	Small wind turbines on schools and offices	30	Tax on imported food
5	More efficient heating systems - ie. underfloor heating in homes	31	Wear thicker jumpers/warmer clothes to reduce heating usage
6	Not heating swimming pools - privately owned/outdoor	32	Use/heat less rooms
7	Harness energy from weather (lightning power)	33	Encourage students to stay at school at lunch rather than driving to the shops
8	Increase taxation of fuel (petrol and diesel)	34	Use more grey water - you don't need to treat all water to make it drinkable
9	Larger port for boats and cruise ships - no need for tender transport to get passengers on and off - can take larger ferries for importing goods and therefore less journeys made	35	Regulations on conditions of boats - prevent them falling into disrepair and sinking in harbours
10	Investigate tidal power	36	Increase the price of plastic bags / ban them
11	Fix and re-use items - a place that offer repair services	37	Data limits - encouraging people to use internet/laptops/ devices less
12	Introduce a plastics tax on supermarkets	38	Offshore wind turbines
13	Educate/persuade people to buy loose vegetables	39	Use eco-friendly alternative to generate power
14	More options to buy loose foods - reduce packaging	40	Give workers free trainers to jog to work
15	Sell less disposable products	41	Showers at work reduce the need to heat water individually at home
16	Reduce online ordering habits as there is often more packaging associated with it	42	Dedicated running tracks/routes in busy areas
17	Reduce heat loss in homes - e.g. installing double glazing	43	Schemes to encourage active travel - walking/cycling
18	Heat efficient design in new housing developments	44	Car sharing/pooling scheme
19	Use less lighting	45	Increased bus services - more accessible with varied routes, avoid coming into town and then going back out again to get from A to B
20	More energy efficient appliances	46	Inter-island zorbes/pedalos - make travel fun
21	Recycle water in public buildings	45	Increase fuel prices as a deterrent to using them
22	Where you can fit raised pavements introduce whitelines for pedestrians/bicycles	46	Make green lanes/paths more accessible to cycle on
23	Allow cyclists on pavements	47	Remove cars from certain routes
24	Reduce plastic	48	Give bikes dedicated roads / routes
25	Solar panels on new housing developments	49	One way road system to end congestion
26	Mandatory building rules on new housing developments - must be energy efficient	50	Encourage people to buy electric cars - subsidises
27	Recycling schemes in schools and public buildings		

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+ Tuesday 5th March		+ Geography & Environmental Science Students	
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51	More charging points for electric cars	67	Make your own fertilisers - no need to import, no need to use chemicals
52	More electric bikes	68	Grouped cycling - great for young people who might want to cycle alone
53	Only sell rechargeable batteries	69	Build wave power generators into the base of offshore wind turbines and link to Guernsey
54	Heat water less	70	Express bus routes
55	Dedicate more space to farming	71	Use buses instead of cars
56	Vertical farming	72	Only use LED lighting
57	Grow plants/food on roof tops	73	Scheme to improve loft insulation in older houses
58	More locally grown food	74	Offer to clear peoples lofts FOC so they can be insulated
59	Let animals graze the common land so fields can be used for crops	75	Direct energy cable from France
60	BYOD - Bring your own device rather than using paper	76	Plant more trees
61	Subsidies for eco-friendly developments	77	Use biofuels
62	Solar powered street lights	78	Less overseas holiday
63	One wind turbine for every 10 houses	79	Harness geothermal energy
64	HEP - sea, reservoir (Guernsey Water)	80	Increase the age limit for driving - can't get a license until you turn 21?
65	Turn off lights when not needed		
66	Free public transport		