



Collessie Decarbonisation Survey

Results

Project Overview:

Victory Hall Decarbonisation



Explore feasibility:

- Upgrade heating system
- Improve efficiency of heating
- Reduce running costs
- Reduce carbon emissions



Identify opportunities



Explore funding opportunities

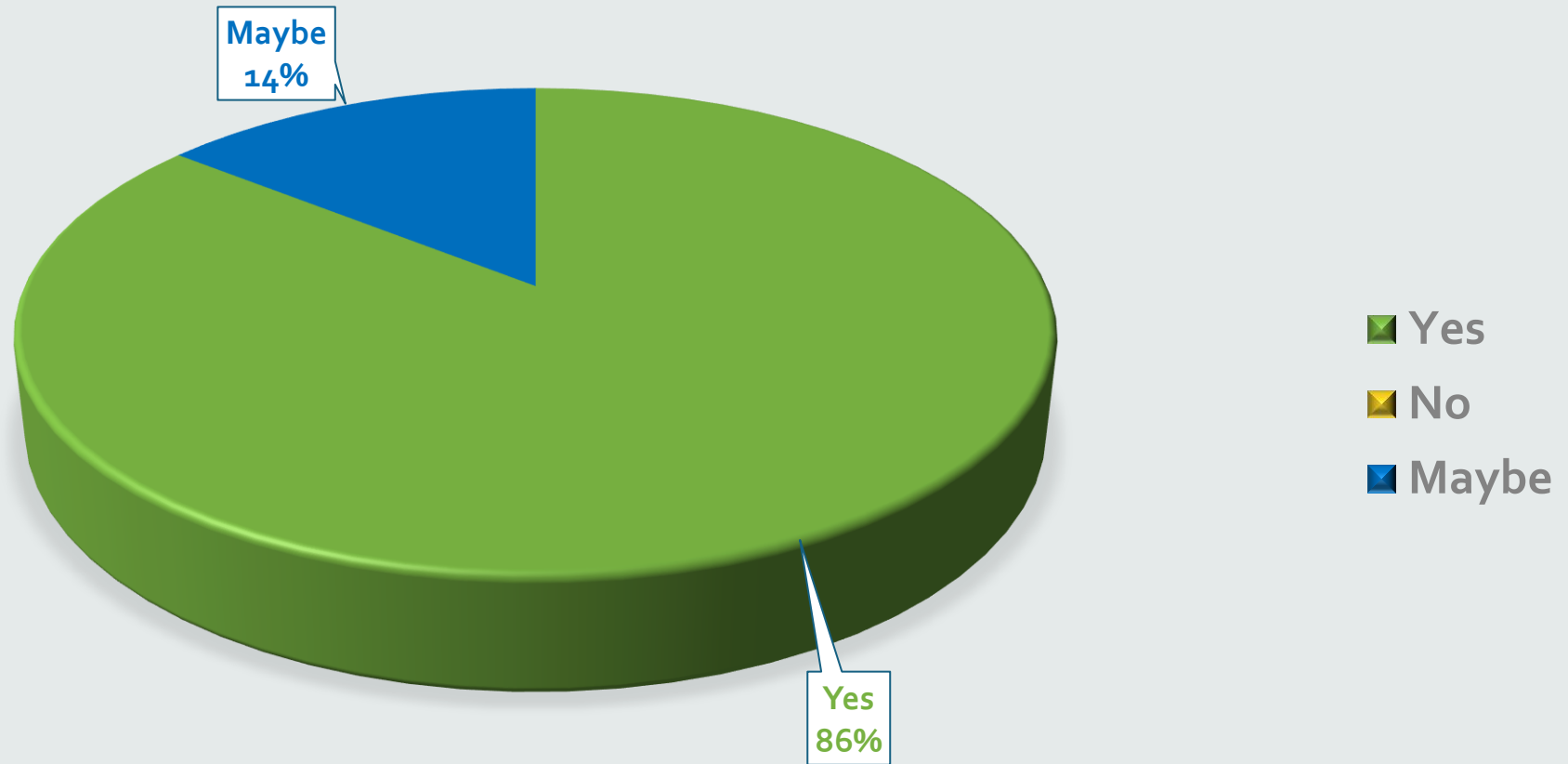


Invite community feedback on project



Prioritise and take decision on course of action

I support the aim of Collessie's Victory Hall to become carbon neutral?



Comments:

I support the aim of Collessie's Victory Hall to become carbon neutral:

Concentrate on roof and fabric insulation first

Yes, provided it's done economically and without vanity; (such as) projects that might bankrupt the hall in maintenance costs in the future.

While I certainly support this, I am also concerned about money being spent continually on an old boiler while this process is in deliberation.

This is a big hall, kited out and pleasant and desirable venue for all sorts of groups.

What are the alternatives and any contingency plans if boiler fails now?

I think we should be more energy efficient, but this is an old building with loads of problems which should be tackled first.

Happy to support any improvements to secure long term future of building

Fantastic way to honour the centenary of the hall... Here is to the next 100 years.

Letter to committee: *Yes, supports aim to be carbon neutral*

Dear committee,

I've read the questionnaire regarding the decarbonisation project, and in particular the items concerning replacing the existing old oil fired boiler, installing an air source heat pump system, solar PV and battery. I would like to make some comments and suggestions: The hall committee is aiming towards a CO₂ neutral heating system. Has the committee considered replacing the oil fired boiler by a (high efficient) bio-heating-oil fired boiler? In my job as a ships chief engineer, just before my retirement, I've got good experiences with bio diesel. (used for diesel engines and heating systems) Bio heating oil (HVO – Hydro treated Vegetable Oil) is predominantly made from recycled cooking oils and fat and therefor CO₂ neutral. (even more so then electric power, which is generated mostly by burning fossil fuel) In my view an air source heat pump system would be less efficient for heating the hall, as an air source heat pump is less efficient below 50 C. Below 3-50 C. a heat pump uses more electric power for heating the hall, than it would be by heating the hall burning oil or gas. It also takes longer to heat a room due to a lower water temperature in the radiators. (and therefor it is recommended to keep a room at a minimum temperature of 15-16o C.) By installing a heat pump, all the radiators will have to be replaced to order to increase the heating surface of each radiator. By installing a HVO fired boiler there is no need to replace the radiators and pipes. (I would recommend just replacing the radiator valves by thermostatic valves) As the committee probable knows, to qualify for a grant for the hall also means insulating the building to a minimum high standard etc. In all, is there enough funds for insulating the hall, replacing the windows, necessary repairs, replacing the roof tiles, LED lighting (new armatures) and pay 20% of the cost of a heat pump system, Solar PV + Battery Storage? Can Solar PV panels be placed on the roof of the hall in a conservation area? In the meantime I would suggest to replace the present boiler for a new (high efficient) HVO fired boiler. HVO is quite expensive but it can be mixed with normal heating oil. (therefore Co₂ emissions can be reduced (for example 33%) if the committee wishes to do so. A new boiler is a fraction of the cost and could be a good alternative for the coming lifespan of the new boiler, in which time the rest of the costly and necessary upgrades to the Hall can be implemented, hopefully with subsidies and or grants, (roofing, new lighting, insulation etc.) Renewables are improving all the time and are becoming less expensive and by buying some time, there may be a better alternative in the near future. As there no grants or subsidies available for HVO just now, perhaps the committee can approach our local MPs to see if the Scottish government is willing to provide financial support in the form of grants or subsidies for the use of HVO. (after all, HVO is even greener than a heat pump system) Interesting link to a website: <https://www.theecoexperts.co.uk/boilers/bio-fuel-oil-boilers#:~:text=But%20as%20the%20UK%20edges,it%20into%20a%20biofuel%20boiler>

Kind regards, Hans

This is important to me because (tick all that apply):



- Reduce energy consumption & running costs
- Making more resilient/sustainable for future
- Keeping hire costs down
- Improve for community benefit
- Achieving Net Zero by 2045
- Leading by example

Comments:

This is important to me
because (tick all that
apply):

Let us not get ahead of the technology, we should use cost effective measures.

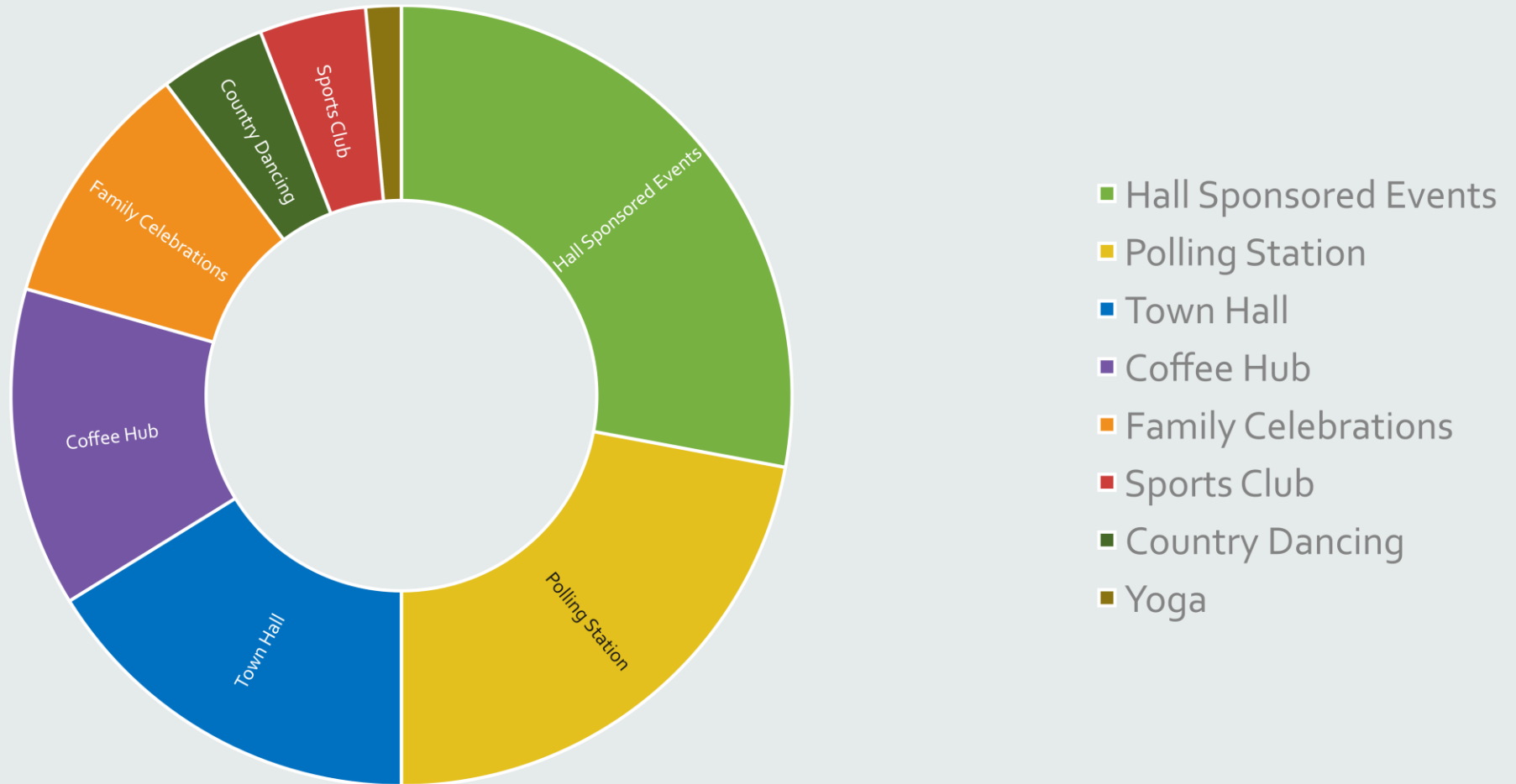
Quietly do our own thing for our benefit. Luthrie and Giffordtown are already well ahead of Collessie. Too many eco-preachers already. Few with any sense of reality. A presentation on the costs and benefits would be useful though.

I support net zero, but unfortunately the technology is not here yet to support halls like ours

Fair price, rather than lowest price

It's an amazing idea

My use of the hall includes (tick all that apply):



Comments:

My use of the hall
includes (tick all that
apply):

Ceilidh Dancing (not same as country dancing-we enjoy ourselves)

Family Badminton Sessions

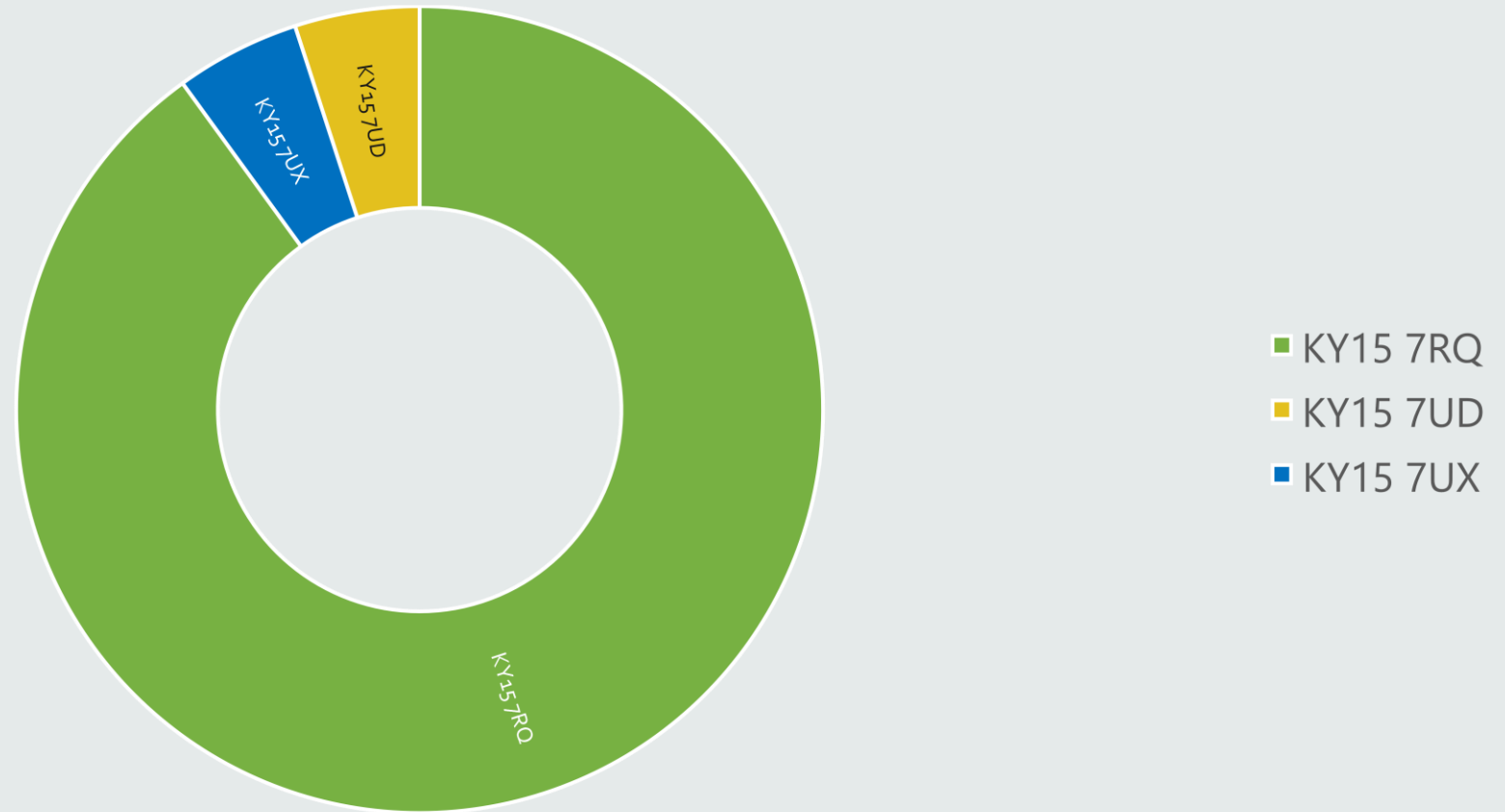
Fundraising Venue for other groups- like Friends of Collessie Church

Sports

Christmas Wreath Making

100 Centenary Event

Postcode



Feedback on Decarbonisation Project:

Page 1

In Autumn 2022 considerable funds were raised towards this scheme. Then oodles were spent on new Christmas Decorations. Can the Hall Committee not be trusted with funds raised for specific purpose?

Hall needs new heating system, better lights, refurbished windows. Only the lighting project would pass a cost-benefit analysis.

A couple of Q's- what will be the running costs and how effective will it be, if it's the only source of heat, in keeping the hall warm during winter?

May I suggest you clean roof tiles, then seal them and fit out solar panels on west side. Solar panel is efficient and must be affordable store into batteries and not sell to national grid. Glazing is a must.

A new oil boiler is better suited to the need of the hall. A boiler that would burn bio-fuel and not fossil fuel, improve insulation values and upgrade lighting.

Feedback on Decarbonisation Project:

Page 2

I think the hall should be better insulated and draught free with more energy efficient heating but oil boiler are far more efficient now and heat pumps are not suitable for this type of usage.

Was underfloor insulation considered?

I installed solar PV, additional insulation and an ASHP. Its one of the best decisions I have made in terms of running costs and environmental impact. Well done Collessie Hall team. You will ensure a lasting legacy for our grand children and a social hub for the community.

The long term maintenance and financial viability of the Hall are key for me

Summary

Paper Survey: 12

Online Survey: 9

Total Completed: 21

