

Knaresborough
Town Council

KTC Energy Project

Update to Finance Committee 15/7/24

The strategic vision

KTC has declared a climate emergency. We must convert words into action by decarbonising our property.

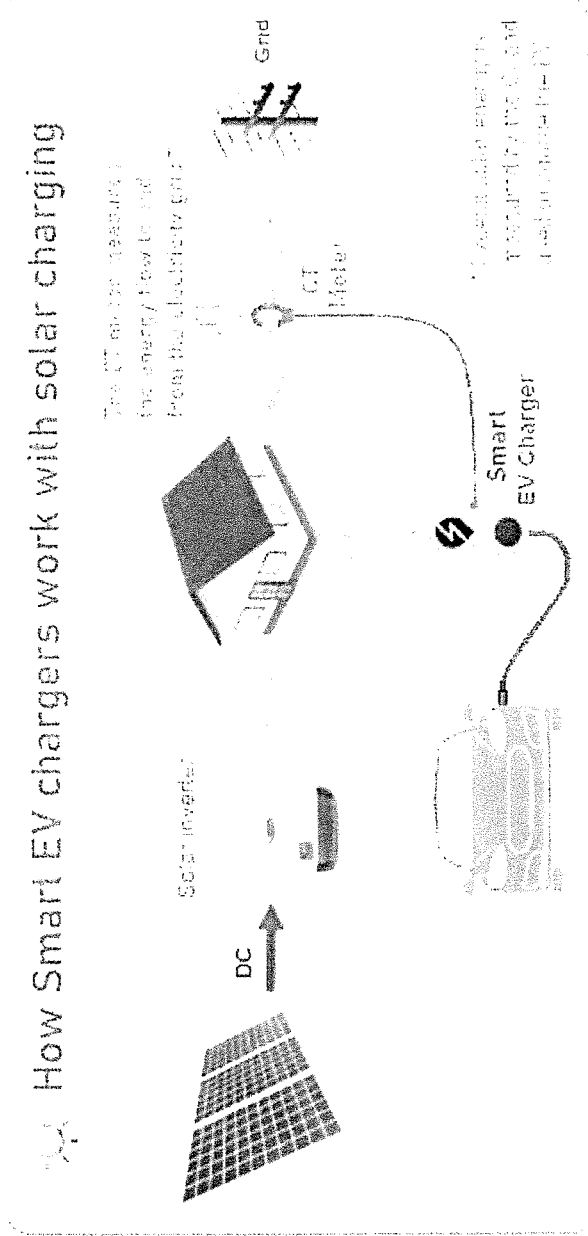
- We have a number of unique and time limited opportunities.
- Get in at the early stage of Knaresborough Community Energy Trust as they work on a number of generation projects
- Become a leader in the region and maybe nationally in our response to the climate emergency.
- Potentially reduce barriers to EV ownership

Tactical aims of the project

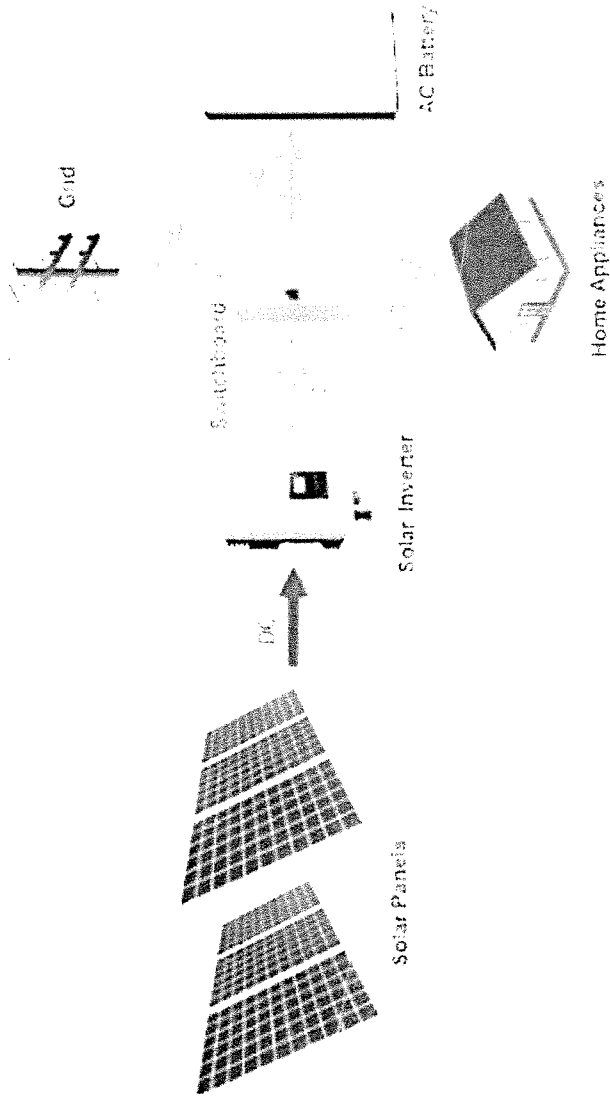
- Use the roof of KN wellbeing hub to generate energy by solar panels.
 - This will be used in the building, reducing use of fossil fuel power
- Excess can be stored in batteries, exported to the grid, or used to charge EV's. Based on cost and technical analysis we may do all three.
 - Based on further analysis we may be able to reduce energy bills for local residents, by offsetting our exports against their bills.
- Make the building itself more efficient through improved insulation and more energy efficient doors / windows



Using solar power to charge EV's



Storing solar power in batteries



What we have done so far summary

- Commissioned a report from Knaresborough Community Energy Trust
 - This covered material remediation of the property in terms of insulation and making good badly fitting doors and windows.
 - Energy generation and usage proposals.
- Worked to get quotes from 3 companies for point 2 above - still ongoing
- Secured funding from NYC for a “fabric first” approach.
 - More insulation
 - Dealing with air gaps around doors and windows.
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What we have done so far....

- September 2023

Motion to council and decision taken (taken from meeting minutes):

8.2 To consider the proposal from the Climate Emergency Sub-committee that 'KTC supports the proposed project of installing solar panels at the Knaresborough Wellbeing Hub and delegates next steps to the Climate Emergency Sub-Committee, including the identification of and application to potential funding sources.'

Members discussed this matter and the Clerk again gave a detailed explanation to the meeting of how Sub-Committees relate to Committees and ultimately to Full Council, with the ability to spend money only being available to Full Council and also those KTC Committees who have delegated authority to do so.

RESOLVED: That KTC supports, in principle, the proposal of a project of installing solar panels at the Knaresborough Wellbeing Hub and delegates the next steps to the Climate Emergency Sub-Committee, including the identification of and application to potential funding sources.

- ???

The Subcommittee learn that the SPF funding criteria looks for a 'Fabric First' approach and have to amend their application.

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What we have done so far details



Project Timeline

- October 2022

Climate Change Subcommittee include the following in their meeting minutes: *"Prioritise making the Knaresborough Wellbeing Hub (owned by Knaresborough Town Council) as environmentally friendly as possible."*

- March 2023

Knaresborough Community Energy Trust write a FEASIBILITY REPORT FOR ADDING PHOTO VOLTAIC PANELS TO STOCKWELL COMMUNITY CENTRE for the Climate Change Subcommittee as they begin to look into what possibilities there are for making this KTC asset more sustainable.

- April 2024

KTC Climate Change Subcommittee contact the Communities Centre Manager with a copy of the feasibility study and to ask for their thoughts and who they would need to discuss this possible project proposal with at NYC & Brimhams Active.

What we have done so far....



February 2024

Andy submits the pre-application form for SPF funding

- February 2024

KTC Councillors share their thoughts/ideas on what current or future projects the NYC ACC funding could be used to help progress, which includes funding support for the Community Centre project.

- March 2024

Hannah speaks to an officer in Economic Development for their initial thoughts on the ideas raised by KTC councillors.

- April 2024

Andy chases an update on the submitted application form

- 17 May 2024

Andy & Hannah find out due to internal investigations within NYC regarding the potential of adding ACC funding to support this project, that the SPF pre-application form was not received due to a change of email address on the day it was submitted. Andy & Hannah are told due to the works required for the 'fabric first' improvements that the amount applied for is too high for just the SPF funding, however, they are also told after conversations between officers within NYC that a contribution from the ACC funds could really add value, and that a 'scoping report' could be written.

- 30 May 2024

NYC H&K Councillors meet to prioritise the projects to potentially be supported by the ACC funding and this project is agreed to be included. It is voted in favour of along with the other projects put forward by councillors & officers, and is progressed to the next stage which is to be assessed & a final decision by NYC officers.

- 10 June 2024

Andy & Hannah ask for a meeting with NYC Officers to understand the next steps in applying for the SPF funding and for more details on the ACC, and learn more about the commitment from the Property Services team on the building 'fabric' repairs/improvements. Hannah then speaks to Angela to check what the next steps are with KTC.

NYC agreed actions

NYC have agreed to a “fabric first” approach. They will fund the following. This is not dependant on any other funding and will happen regardless.

Roof insulation

- Areas with existing 100mm Rockwool insulation, add 200mm thickness of Knauf Loft Roll 40, thermal performance of 0.040W/mK. To give 300mm total depth of loft insulation
- Areas where insulation is absent, 300mm of Knauf Loft Roll 40, thermal performance of 0.040W/mK. Made up one 1 layer of 100mm and a second layer of 200mm, to give 300mm total depth of loft insulation.
- Top layer of insulation to be laid at 90° to bottom layer and insulation to cover ceiling joists.
- Loft hatches are insulated by cutting and adhering a 100mm thickness piece of Celotex G44000 to the back of each lock hatch.

Air gap under the windows

The airgap to be addressed by foaming the gap with an airtight foam (Libbrick Fk4 330) Air Seal Foam

Once the foam has cured it will be cut back, and decorators caulk used to hide the foam which can then be painted over.

