

WOULD YOU LIKE TO JOIN THE TRUST?

We need members!

For Associate Membership it is free but donations would be welcomed. All Associates receive Newsletters. These will be sent out by Michelle.

Full members pay a subscription and attend the AGM to approve the accounts and to elect the trustees. They are also eligible to be elected as trustees.

Individuals £15 Household £20

All Full Members will be informed of Board Meetings on request, and may ask for a copy of the Minutes of Board Meetings.

Membership Secretary

HELP!

We are at present without a Membership Secretary. Can anyone help?

Trustees of the Killington and District Sustainability Trust

Judith Aston

Ian Dawson - *Parish Representative*

Michelle Hartley - *Newsletter/Facebook/Twitter*

Maureen Lamb - *Secretary*

maureenlamb@broadrairie.plus.com

Paul Robinson - *Minuting Secretary*

One or two more volunteers to be trustees would be most welcome.



RainePower

In addition to Marna Houlsby from Energy4All, the RainePower **Directors** are Melanie Bibby, Tim Moore and Chris Preston who all moved over from K-SET. Maureen Lamb is the link between the two Boards.

The **project manager** for RainePower is now Paul Phare who lives in Bristol so most of the Board Meetings take place by phone.

K-SET has handed over the fish-pass construction to RainePower. The grant of £16,000 for this from the YDNP will be K-SET's contribution towards the work. K-SET Members will still be pleased to help with any maintenance work required on the pass.

RainePower's **first AGM** took place in January when the shareholders agreed to keep the project going despite the increased cost. A **lease** for a peppercorn rent has been now signed between K-SET and RainePower, giving RainePower 24 years to construct and operate the hydro turbine.

After 2031 the site and the turbine, if it is still operational, will be returned to K-SET. Although the life of a screw turbine is expected to be about 40 years, the payment of the FIT lasts for only 20 years.

The **Middleton Hatchery Group** will continue to work on the site, collecting the eggs, rearing the fry and distributing them into the headstreams of the Lune and its tributaries.

Both K-SET and RainePower are more than happy to support this work

K-SET

Newsletter

12

March
2017



Another apology

It is nearly a year since we sent out our last Newsletter which is unforgivable as so much has happened in the last twelve months. Having raised the funding, there were other problems to be resolved before the project could go ahead. It took longer than we expected to get the right for K-SET to cross the field for the construction vehicles. Then the neighbours also had to be assured they would not be bothered by noise from the turbine. This involved many baseline noise and sound recordings for comparison later. Finally we were ready to commission Askams of Lancaster to undertake the project.

By July, Askams were able to move onto the site to start construction. It was then that the river had its say. On two occasions flooding delayed the work and created havoc. A deadline loomed - the end of September.

The EA rules that work may not be done in the river after September 30th because of the movement upstream of the sea trout. Unfortunately the EA were not allowed to relax the rule for the extra fortnight that was needed to complete the work in the river because of pressure from the fishermen. The result was not good news. Askams had to restore the river to more or less how it had been before they started and vacate the site. The EA would not allow them to return until May this year. Except for making some concrete castings nothing had been achieved and so now it will be more costly. The good news E4A have secured a very cheap loan so it's full steam ahead.

DETAILS on the next page together with items by our new trustees



A New Trustee - Michelle Hartley

I have lived in Sedbergh since 2011, but strangely only heard about K-SET late last year. I work part time and have three young girls, ranging in age from 1 to 7 years, who keep me very busy. I am sure they are the reason I never had the time to notice K-SET, but they are also the reason I have now joined it.

The future of the beautiful environment around Sedbergh and Killington, as well as, Cumbria and whole planet is uncertain. At university I studied Chinese history and an old proverb came to mind when I joined the group, "The man who removes a mountain begins by carrying away small stones". The wonderful work K-SET has been doing is one of those small stones on the 'carbon mountain'. It may not seem like much in the whole scheme of things, but we all need to do our part and like all of you before me, I have become a member now to do my part.

I have a lot of catching up to do, coming to the group seven years after its establishment, but I hope to bring some new skills and ideas. Although my time is limited, I am often in front of a computer and the first thing I thought I could do was join some social media services on behalf of K-SET. We now have a Killington Sustainable Energy Trust Facebook page and a Twitter account @KillingtonSET. If you are on either or both of these services, please follow, they are a great way of keeping in contact and up to date on what the Trust is doing and reading news articles on the renewable energy industry locally and nationally. Hopefully it will also be a way to get our message to others in the area and bring new people to the group.

I hope in the coming months I will have a chance to meet many of you at meetings or talks or just have a chat on Facebook or Twitter. K-SET is always looking for new ways to reduce our carbon footprint so if you have any ideas please feel free to contact us through our new social media sites or send an e-mail. Let's keep moving those small stones!

Michelle is from **Garsdale Designs** which as you may know has done a lot of work with buildings in the area in the last six years. The firm is a RIBA chartered practice



Stones! - bags filled with gravel for a barrier to keep back the river while the construction team worked on the weir. Looking from the west side of the weir towards the trees on the far side of the river

Ready, Steady Go!

Get ready for the opening! With so many problems on the way and so many false hopes, it is difficult to believe that this might be the year in which we commission a hydro scheme for Killington.

This is not to be confused with the Killington Community Hydro Scheme that was featured in the papers recently. That turbine is on the Killington Lake outlet and it was commissioned by a Cumbrian organisation.

Our scheme is of course on the weir on the River Lune at Broad Raine Mill. Askam Construction firm from Lancaster is now ready to restart work. The concrete trough to hold the screw is being pre-cast off site. The screw has already been manufactured in Holland and is awaiting transport. By May the construction team will be allowed back in the river to continue work on the weir and the fish pass. Then comes the building of the well insulated drive house.

Askam have made an allowance for flood events of which they now have considerable experience. If all goes well, **BOOK A DATE IN YOUR DIARY FOR AUGUST 2017!**

Refurbishment and Retrofit of a Traditional Stone Cottage

Part 1 Moisture in the Home

Judith Aston

Many local traditional buildings have had little done to them over the years although some have been updated. Yet there is still much more that we could do to make our homes healthier and more comfortable, whilst reducing our fuel bills and our carbon footprint. We need to take notice of how the building behaves. A striking example is the movement of moisture. Moisture needs to be considered in order to protect the building fabric and occupant health.

Moisture moves both ways across a wall, from outside to inside and from inside to outside; the removal of the latter is often not considered other than by the application of mechanical ventilation systems. We create a considerable amount of moisture vapour through breathing, washing, showering and bathing, cooking and in my case endless cups of tea. This gets into the fabric of the building and it will travel as water vapour (the molecules of which are smaller than air). Some of the vapour will return to the inside (how this is manifests itself depends on many factors) and some pass to the outside by the easiest route through the stone or the pointing. The renewal of old lime pointing is best redone with lime to allow the movement of water vapour, not liquid water. Lime mortar is weaker than the stone protecting the stone from the damage that water can cause, conversely cement is harder with the ultimate result that the stone will fail rather than the pointing. In addition there is the potential to trap water within the fabric when cement is used. Sadly however cement is often used to point and render old buildings. It is generally internally generated water vapour condensing on or in cold walls that cannot dry out that causes mould.

The first job we are undertaking at my house is to renew the old lime pointing, a time consuming job that requires aftercare that cement does not but we are just temporary custodians of our house and if we treat it well it will stand for hundreds more years. An added bonus is that our house is definitely warmer now that the wind does not whistle through all the walls!

Judith has an MSc in Architecture: - Advanced Environmental and Energy Studies and a Diploma in Retrofit Co-ordination