

Project Update

22nd October 2020



Dear Neighbours

This letter is to update you with progress on the Eden Geothermal Project.

Some of you will already have heard from us in mid-September, when we hand-delivered letters to our immediate neighbours and hoped to contact others in the local community via the Eden Neighbours Forum and the Eden Geothermal Community Liaison Group.

But we know that we only reached some of the people who want to hear from us. So we're now delivering this update to all households within a wider radius of the geothermal site at the Eden Project. We hope this will mean that everyone in the local community is kept informed, and is able to contact us with their questions or comments.

In case you didn't receive our first letter, we're enclosing a copy of it with this update; you might find it helpful to read that original letter first.

WHAT'S HAPPENING ON SITE NOW?

Work started on preparing the site (just inside the north gate of the Eden Project) on 21st September and is due to take four months. Groundworks to prepare a level site are underway. Next, the rig pad, cellars for both wells, the spillage containment area and a water storage pond will be constructed. And finally, a roadway will be prepared and temporary office and welfare units will be installed. This work is being undertaken by the same civil engineering contractor that prepared the geothermal site at United Downs.

Meanwhile, a specialist independent consultant will be installing a network of sensitive microseismometers in the area. This system will 'go live' some weeks before drilling starts and will be in operation throughout drilling and well testing, to monitor background natural seismicity, and any microseismicity that could occur during this period.

In addition, we will be installing noise recorders to monitor noise emissions during the drilling programme.

HOW WILL THE SITE LOOK?

Overleaf you'll find a drilling site plan, so you can see how everything will be laid out during drilling, and what we're working towards. You'll see that the areas of wet woodland within the site will remain undisturbed throughout the project. The parts of the site being now being prepared for drilling were previously a mixture of rough grass, bramble and bracken, with much of the area previously used for landfill.

WHO IS INVOLVED?

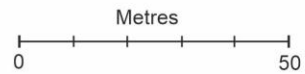
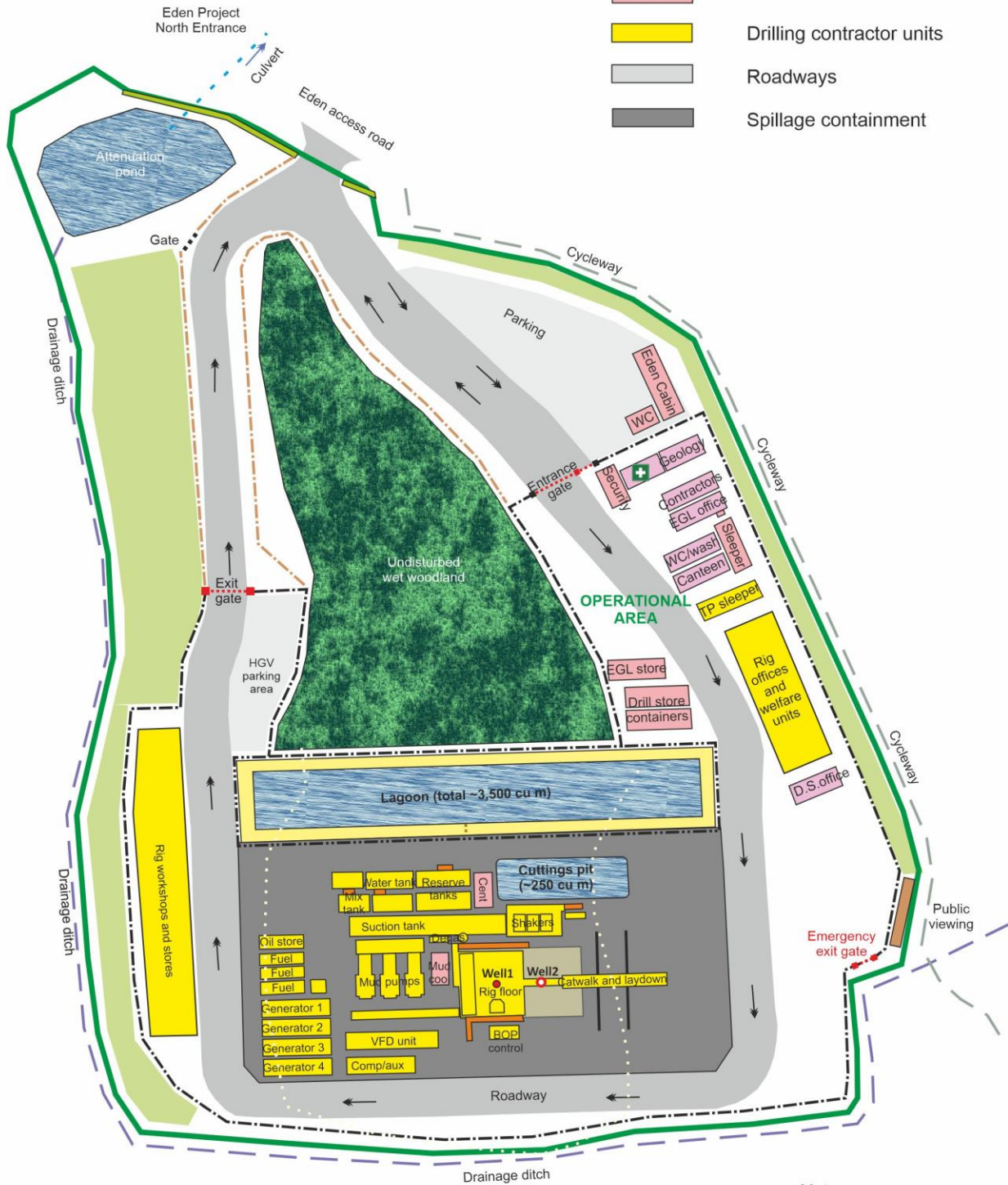
Eden Geothermal Ltd has been set up by three partners: Eden Project, EGS Energy Ltd, and Bestec (UK) Ltd. Stage 1 of the Eden Geothermal Project is an industrial research project co-funded by the European Union through the ERDF, Cornwall Council and an institutional investor. You can find out more about the project and the team by visiting www.edengeothermal.com



Proposed Layout of the Deep Geothermal Site at the Eden Project, Cornwall during the drilling and testing of the first well

Temporary buildings/units and roadways:

- EGL cabins/units
- Drilling contractor units
- Roadways
- Spillage containment



DRILLING - 2021

We're planning to start drilling in February 2021. Our drilling contractor is a British firm, but the drilling rig itself will be coming from the Czech Republic. It will be transported in 80 container-sized units over a period of several days and will take about 10 days to assemble on site. We'll stagger delivery so there aren't too many lorry movements in any one day, and to minimise the impact on local roads. The recommended route from the Victoria Interchange on the A30 will be the B3274 through Roche and Trezaise to Stenalees, then the A391 to Carluddon and on to the Eden Project.

We expect drilling to take 5 months (until June 2021), and then the rig will remain on site to carry out well testing. This will take a further two to four weeks and will tell us more about the hydrogeology of the target zone, so that we can assess how productive the geothermal system will be.

The well will be drilled to a depth of about 4,500 metres and will be lined with steel casing to a depth of 4,000 metres. The finished diameter of the well will be about 9 inches. Once the well has been drilled, a short testing programme will be carried out to assess the geological conditions and the flow capability of the well.

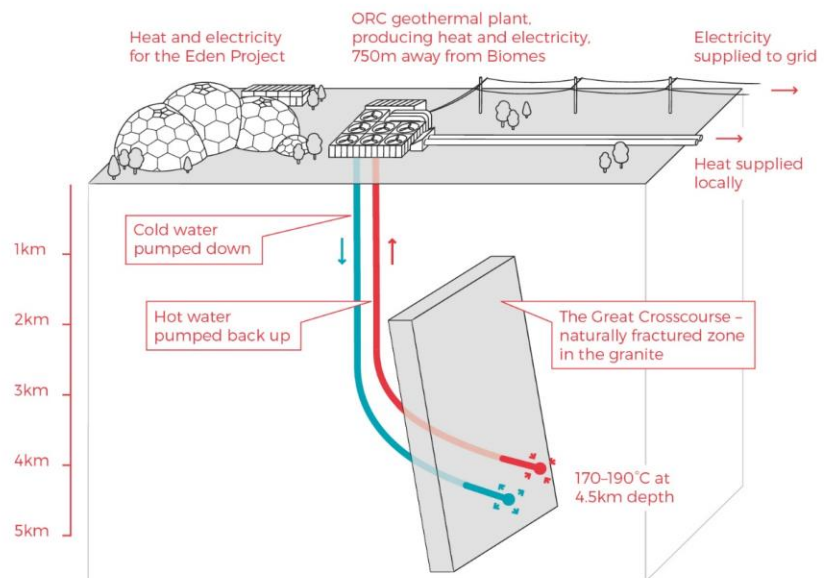
WHAT THEN?

After we've assessed the well, we'll install an insulated heat pipeline to the Eden Project in late summer 2021. This will enable us to supply sustainable geothermal heat to the Biomes, offices and other buildings at Eden, removing the need to buy in heat, and significantly reducing Eden's carbon footprint in the process.

Assuming results from the first well are positive, in Phase 2 we plan to drill a second well next to the first. This phase will be privately funded. The resulting doublet system will enable us to produce water at a temperature of about 175°C and run a combined heat and power (CHP) plant, supplying heat and power to the Eden Project. The surplus energy will be exported as power.

It will mean Eden can become carbon positive in 2023. The plant will provide virtually zero carbon energy 24/7 and whatever the weather, and will go on doing so for at least 25 years.

Phase 2 of Eden Geothermal Project - 2023



WHAT WILL THE CHP PLANT LOOK LIKE?

We won't know the specification of the power plant until we have the test results from the first well, towards the end of 2021. But we can tell you that geothermal plants take up much less space than other power sources, with the lowest land footprint of any energy source. And they have a low visual impact, typically being no more than 10m high (about as high as an average house).

This artist's impression is based on plants in France and Germany.



PLEASE GET IN TOUCH!

We said in our previous letter – but it’s worth reiterating – that we’re very keen to keep our friends and neighbours in the loop about the project as it moves forward, so:

- We’d encourage you to get in touch with our Project Manager, Max Skerratt, by email at mskerratt@edengeothermal.com or by phone on **01726 806544**, with any questions you may have.
- If you send your name and email, or postal address, to our Office Manager, Claire, at cjudd@edengeothermal.com, or phone her on **01726 806545**, we can add you to our neighbour contacts list and make sure you’re the first to hear about project updates and steps forward.
- The Eden Geothermal Community Liaison Group includes representatives from the four parish councils. So you could contact your parish council clerk, or the EGCLG Chair, Roy Taylor, to discuss the project. Contact details are:
 - Roy Taylor - roytaylor49@hotmail.com
 - Luxulyan - clerk@luxulyanpc.co.uk
 - St Blaise - townclerk@stblaisetc.co.uk
 - Carlyon - clerk@carlyon-pc.co.uk
 - Treverbyn - treverbyncouncil@gmail.com
- We hope to rearrange our community information event (subject to Covid-19 restrictions.) We’d like to do this when the drilling rig has arrived and there’s more to see on site. This will be a great opportunity to find out more about this project, and about geothermal energy more generally, and the benefits it can bring to our community.
- When we are drilling, if you’d like someone to visit your community group, or school, we’d be delighted to come and talk to you, or to welcome you to the site (Covid-19 restrictions permitting).
- We’ll be keeping our website – www.edengeothermal.com – updated with latest progress, and there’s lots of general information on there, as well as answers to frequently asked questions. We’re going to create a new page specifically for the local community, where we’ll post updates about activities on site.
- We’ll soon start to post regular updates on Facebook and other social media.

Eden Geothermal Community Fund

The Eden Geothermal Community Fund has been set up to support community projects in the four parishes of Carlyon, Luxulyan, St Blaise and Treverbyn.

Project applications for up to £5,000 will open in November, and will be open to officially constituted community and charitable groups.

Please contact Claire (cjudd@edengeothermal.com) in the first instance to find out more about who can apply, and the application process.