

University of FOUNDED St Andrews | 1413



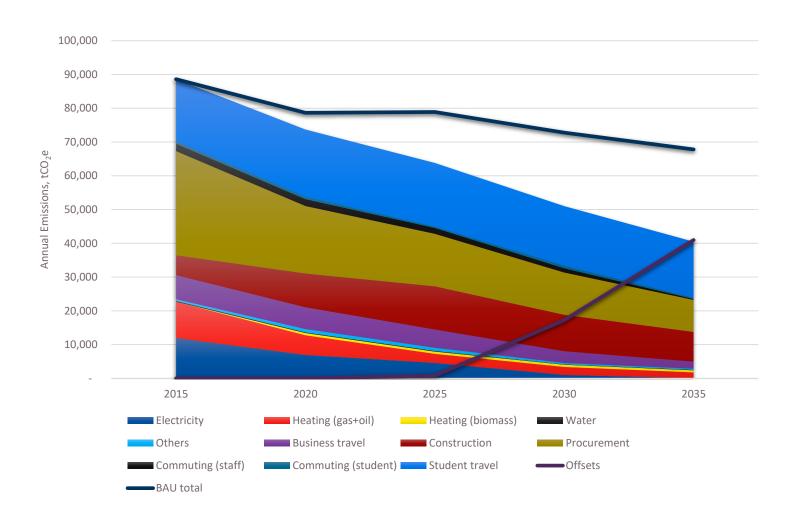
Net Zero Target

We have set ourselves the ambitious target of becoming net-zero for our environmental impacts, this includes all our carbon emissions (direct and indirect

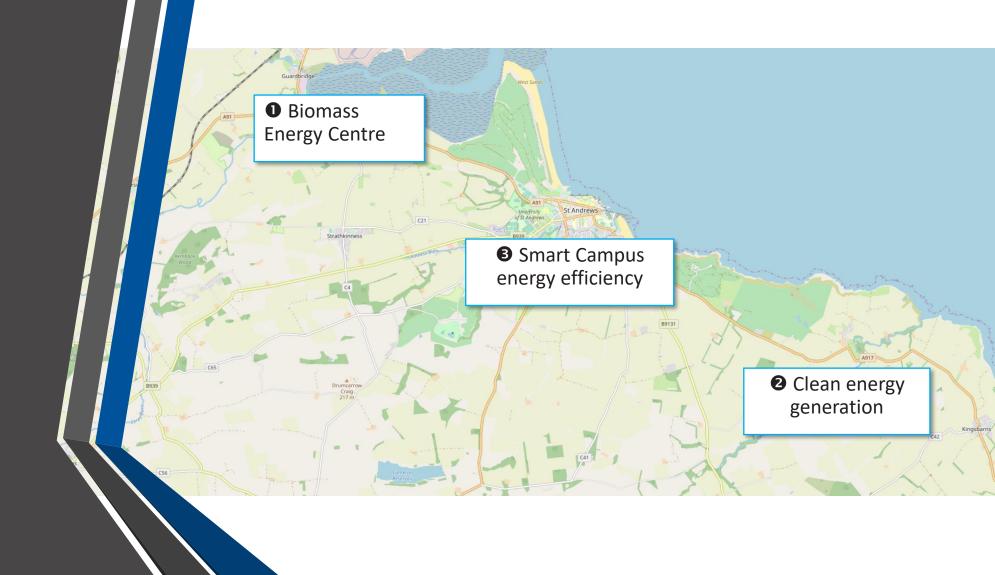
Our trajectory planned and to date is shown right, along with our business as usual (BAU) and anticipated offsets required to achieve net zero 2035

We have formed an Environmental Sustainability Board to steer this transition, part of which the E3 group (Estate, Energy and Environment) will masterplan our approach to **Energy**

This builds on past work outlined over the following slides, and future strategy is presented thereafter



Energy Projects





Eden CampusBiomass EnergyCentre

- Operational since January 2017
- Gas savings represent over 5,000 tCO₂e per annum
- 23km of pipework connecting 45 of our plant rooms
- At its heart is a 6MW boiler which burns woodchip, sourced from SFC certified forests within Scotland (<50 miles of the plant)
- Situated on our Eden Campus site which is currently being developed to include energy innovation centres





E3 carbon reduction - Intent

Estate use and Development, Building Efficiency and Effectiveness Connections and Energy Infrastructure Environment Strategic Drivers, Land and Clean up Our Power 40% down 60% sustainable future

Forecast Energy Flows

- Currently our energy flows are very linear energy (usually from grid) supplies heat and power to our schools and residences
- As we move towards 2035, our strategy is to shift away from natural gas (only using as a backup), resultantly our electric demand will increase
- Biomass usage will increase with hydrogen, thermal stores and V2G utilised to help balance low-carbon supply with building demands
- Any shortfall in deployment will be required to be met by offsets now our net zero target is in place

