

⚡ LOW ENERGY USE

- 1 Erda will help benchmark the building/site and then provide advice on how energy demands could be reduced to, or below, **65 kWh/m²/year**.
- 2 Space heating prediction (for new builds) usually includes ventilation requirements – through **Erda | smart™**, Erda can isolate the fabric demand and use that insight to help to drive overall space heating demands down below **15 kWh/m²/year**.

ERDA'S SOLUTIONS FOR OPERATING AT NET-ZERO CARBON

In collaboration with Erda, the necessary steps are in place for our buildings to meet our 2030 climate change targets.

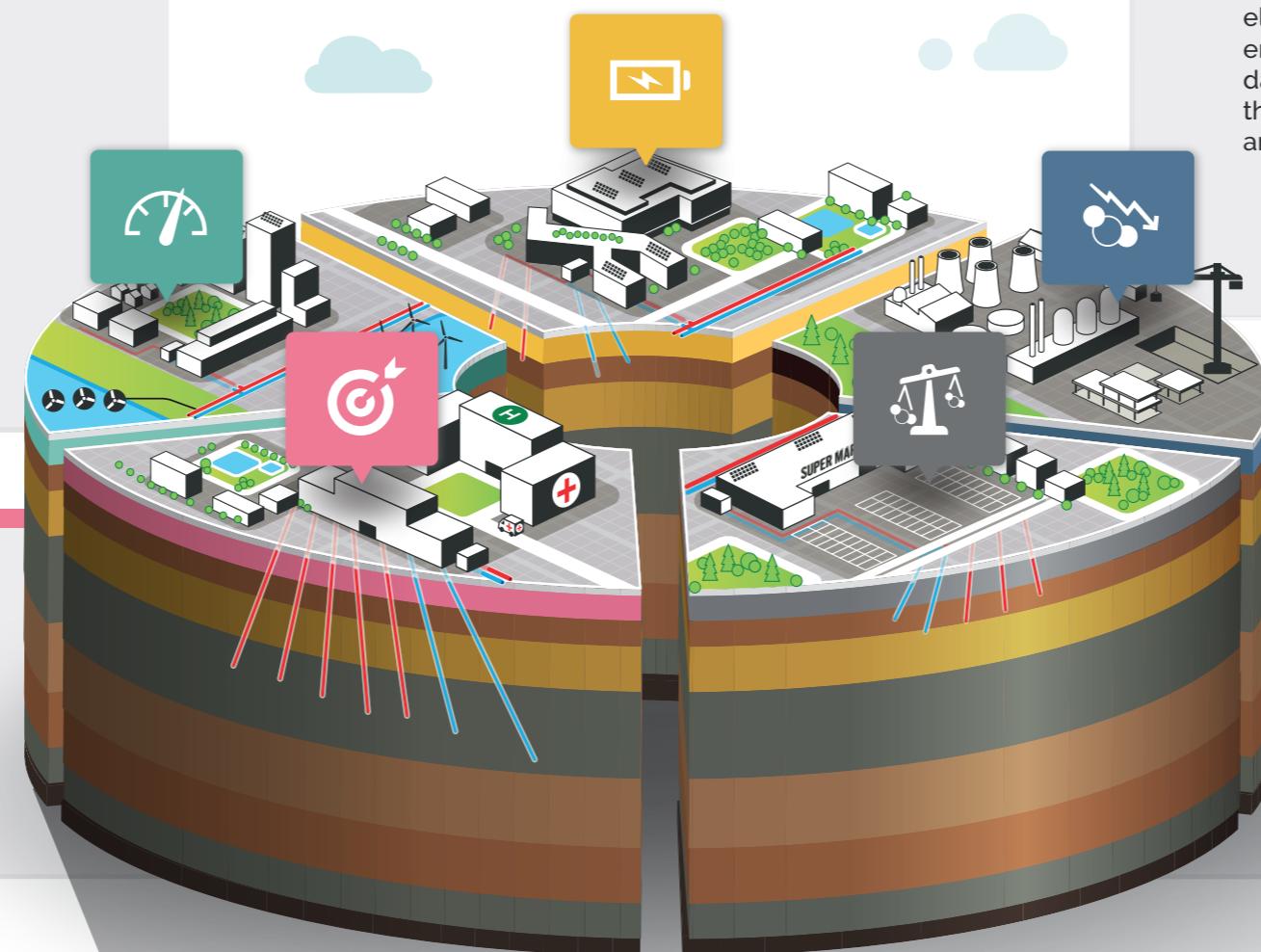
Not only are Erda systems designed with Sustainability at their core, planning begins at the design stage - in line with industry best practice – to achieve net zero carbon.

⌚ MEASUREMENT AND VERIFICATION

- 3 **Erda | smart™** will record and report annual energy use, renewable thermal energy and renewable electrical energy generation at the building/site of clients. Reporting will be implemented for the operating life of the building.

⌚ REDUCING CONSTRUCTION IMPACTS

- 4 Embodied carbon should be assessed and reduced during construction for all new builds.



⚡ LOW CARBON ENERGY SUPPLY

- 5 Erda use highly efficient electric heat pumps, and geo-exchange, to meet the full space heating and domestic hot water needs of the building.
- 6 Erda continually calculates the actual carbon content of the heat we supply. By using real-time grid carbon data, we will produce instantaneous and annual reports for the heat delivered to all building and sites.
- 7 Renewable thermal energy from **Erda | deep** coupled with other on-site clean energy systems will provide renewable thermal and electricity to the building. Erda's constant monitoring will ensure the use of renewable energy is prioritised.
- 8 The **Erda | smart™** platform will be used to identify and report the peaks in space heating, domestic hot water, cooling and electrical demand. **Erda | deep™** represents significant on-site energy storage capacity that Erda can use to shift energy across days and seasons. Erda have a wide range of experience in thermal and electrical energy demand and will be able to respond and adapt quickly to future demand management programs.



⚖️ ZERO CARBON BALANCE

- 9 Erda has experience working with current net-zero energy standards and calculations and will provide annual reports on the building's carbon balance.
- 10 Once identified, Erda's carbon balance calculation for the building can be used to inform clients of the steps necessary to achieving net zero operational carbon.