# Do More With Less

An Architecture of The Climate Emergency That is Enriching Yet Resourceful & Lean

"The summer of 2023 was the warmest ever recorded in Greece, and it may represent the "normal" summer of the future"

"According to the Greek Foundation of Economic and Industrial Research, it is estimated that Greece's GDP could suffer a cumulative loss of €700 billion by 2100, if no measures are taken to prevent and adapt to climate change

Charalampos Giannikopoulos, D-Carbon Extracts from 'Greece in the Era of resilience and climate change' 27th March 2024

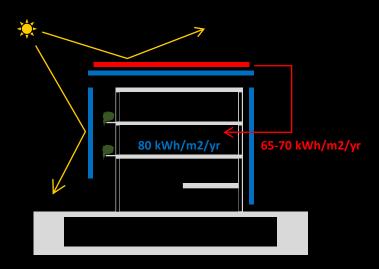


### Our Sustainability Objectives in Greece

- 'Athenian' spirit rooted in context, heritage, materiality and climate
- New standards for sustainability
  - passive design & max 40% glass
  - '3Ss' & 'parasol principle'
  - carbon-responsible materials
  - ventilation strategy innovations
- LEED Platinum
  - 'Gold' original target
  - collective effort
- Issues
  - shading design & sub-optimal VE
  - all-concrete structure
- Not perfect but a good first step



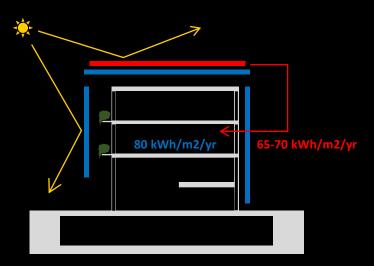
- Harnessing the Greek climate
- Exploring steps towards what a Net Zero Carbon Greek building might be
- Aspiration to be energy self-sufficient





### **Harnessing Your Climate**

- 'Parasol Principle' and 'Super-Roof'
- Exploring steps towards what a Net Zero Carbon Greek building might be
- Expressing layers to create a tapestry of Geometry, Shadows and Nature





## Harnessing Your Climate

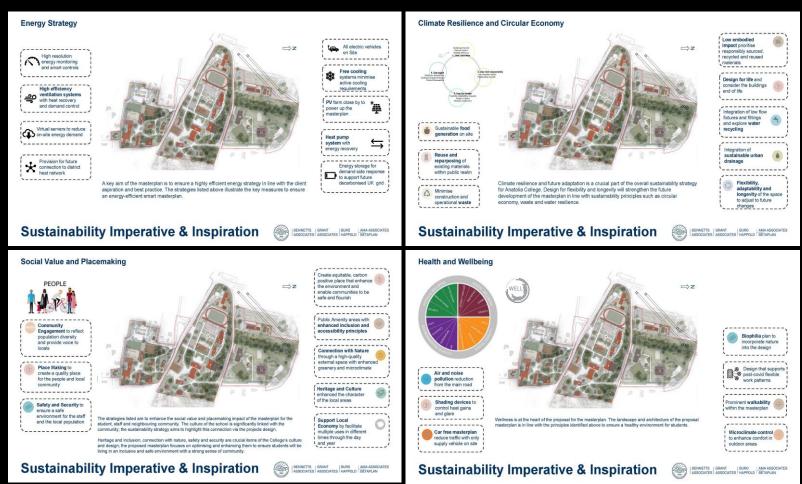
- Anatolia College, Thessaloniki
- Reimagining of the College estate
- Strong existing College commitment to sustainability



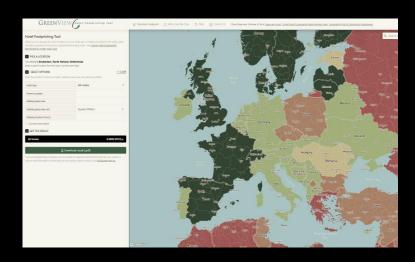


- Sustainability made more evident in reimagined campus
- Educating the leaders of the future about sustainability with the campus as educational tool





- Increasing customer pressure for environmentally responsible tourism
- Hotel sector accounts for 1% of global acrbon emissions
- First major NZC hotel in UK



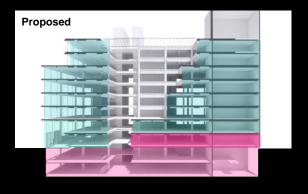


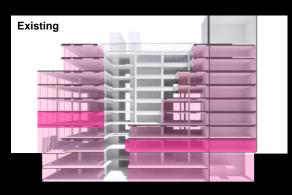
- Incremental measures to meet exacting Embodied and Operational carbon targets
- Exploring what an NZC hotel looks and feels like



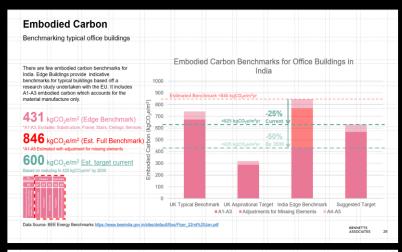


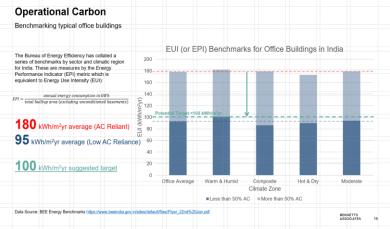
 Character, fabric and energy transformation in live national news broadcast facility

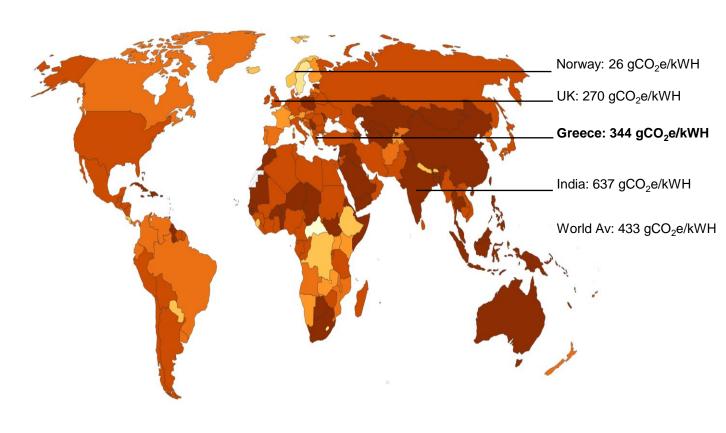




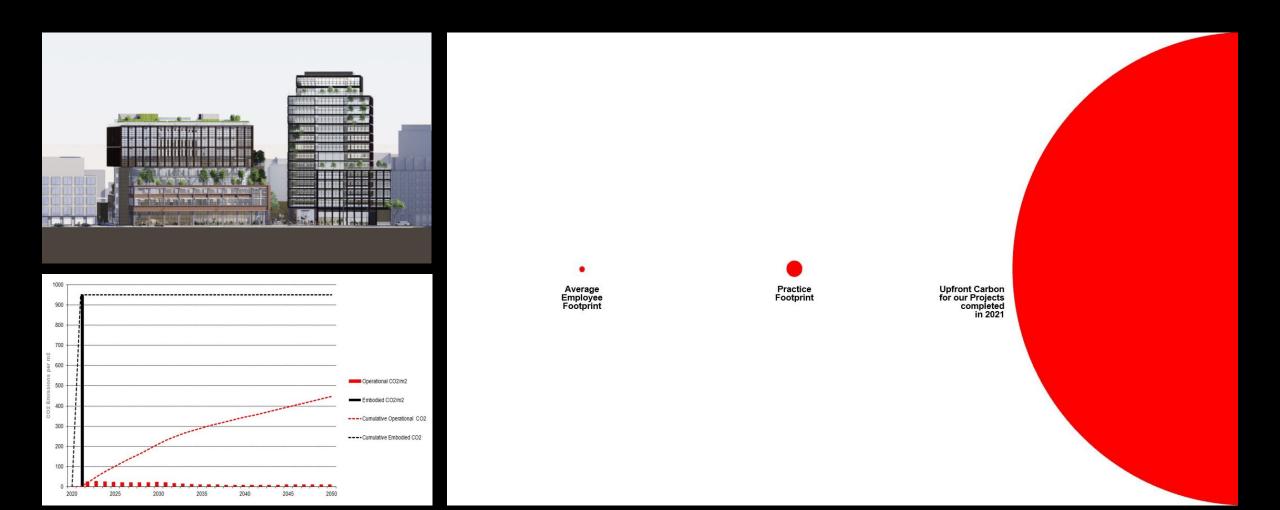








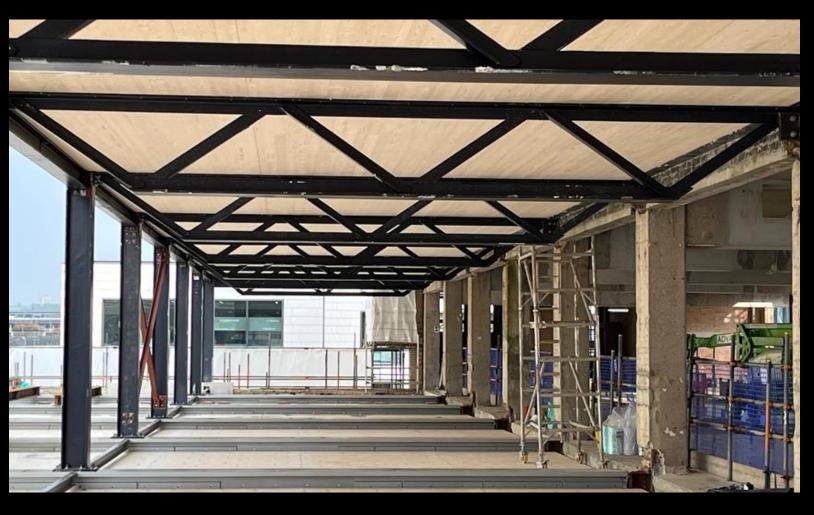
Global Carbon Intensity of Electricity 2021 (UoOxford)



#### What Next?







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