Department for Energy Security & Net Zero

Norwich Business Improvement District

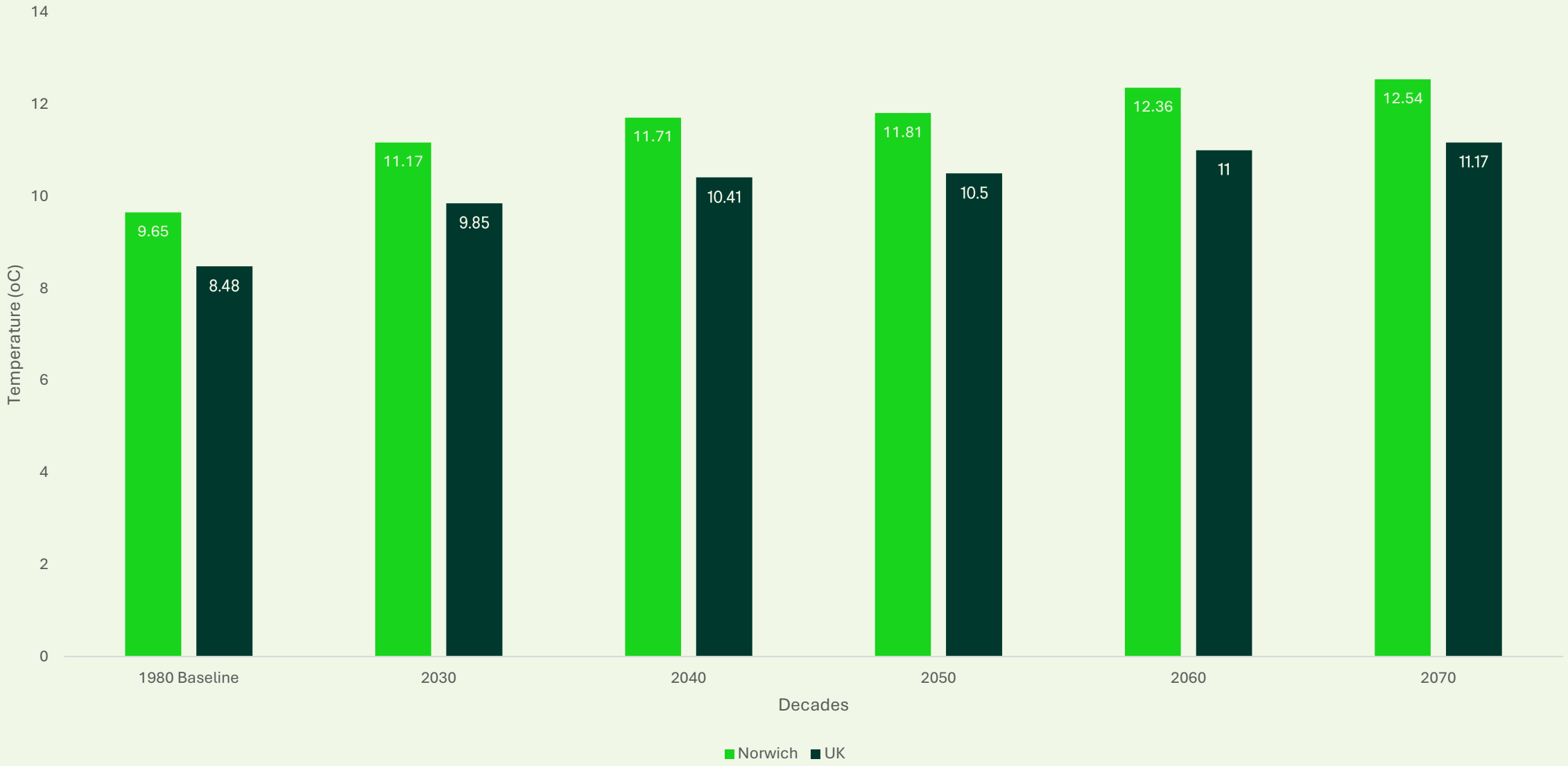
How to Build a Solar System

Presented Michael Yates, Norwich Business Improvement District

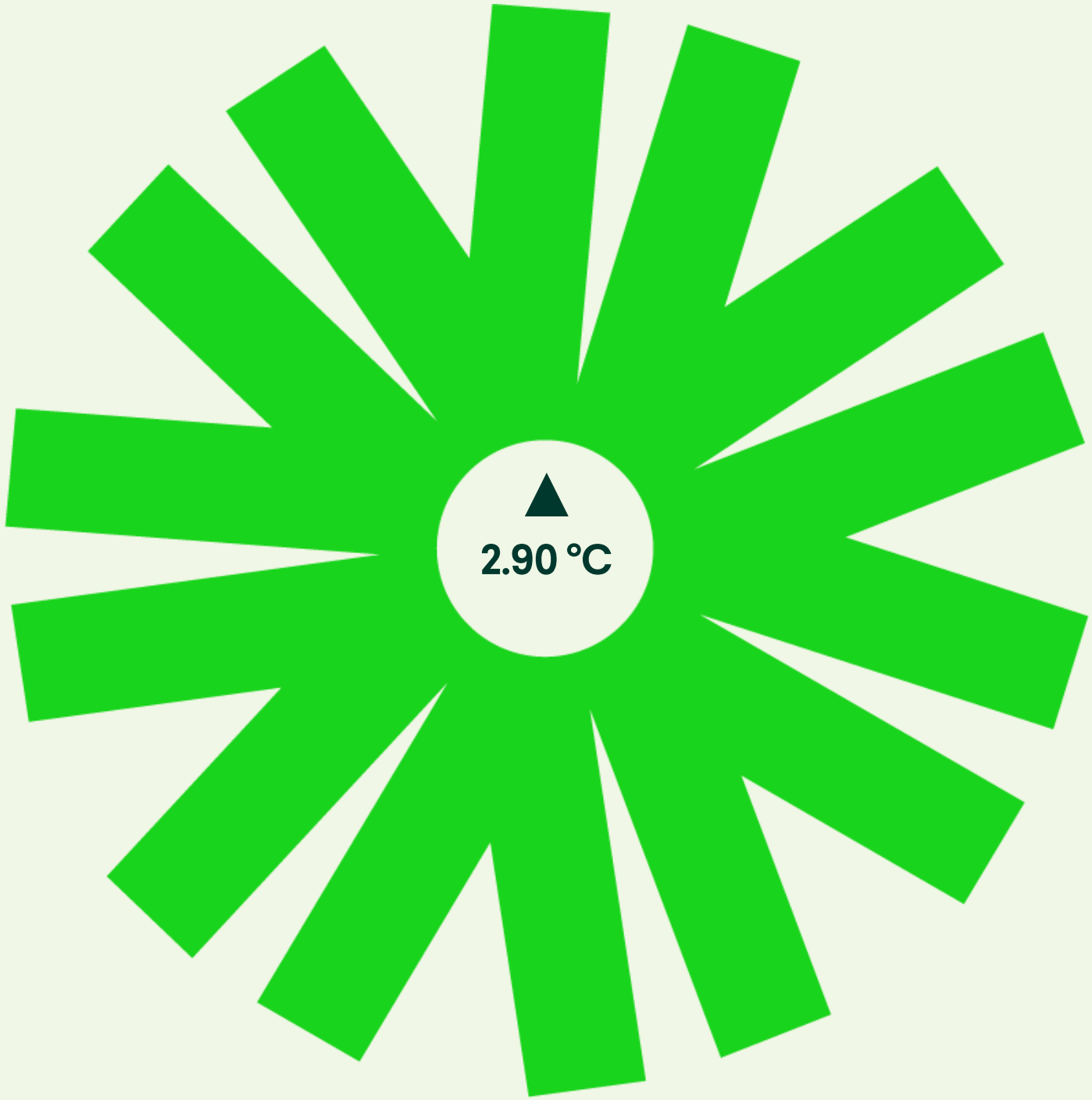
Why Build a Solar System?

Image sources: Robby West/BBC, Thomas Horne, BBC, Mike Liggins/BBC

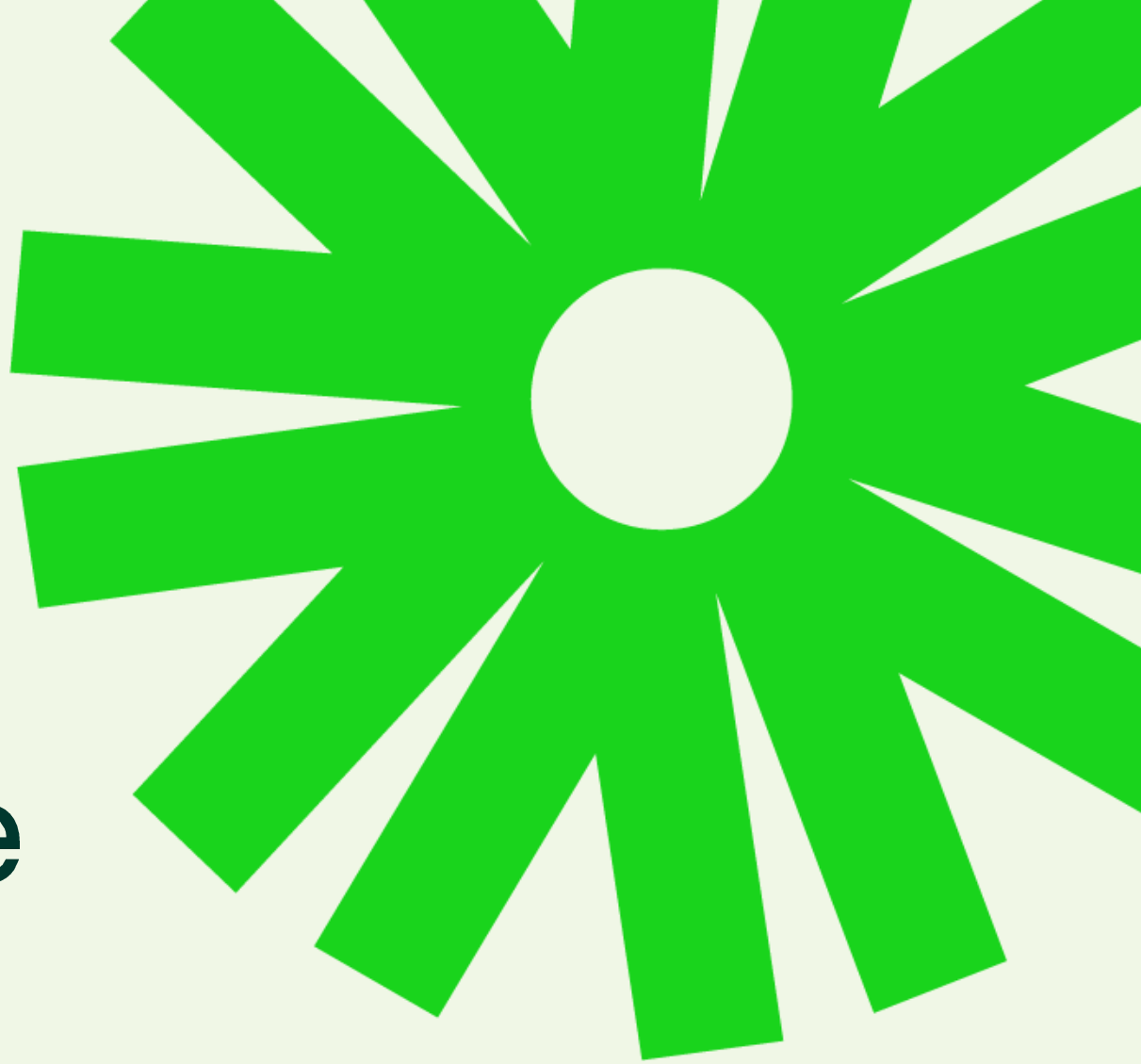
Climate change in Norwich under existing global policies (RCP 6.0) for yearly averages for temperature compared to the UK average



Source: The climate data used is from CHESS-SCAPE, RCP6.0 and 8.5 were selected on the advice of climate researchers and published literature. Existing policies point to a 2.8C temperature rise by 2100, in line with RCP6.0. The CHESS-SCAPE dataset is produced by the UK Centre for Ecology & Hydrology (CEH) using four members of the MetOffice UKCP18 regional projections. Data obtained from LCAT.UK



- Temperatures increasing by 2.9 °C
- Rainfall decreasing by 0.07mm/day
- Cloudiness decreasing by 19.32 Watts/m2



“But we’re past the point of no return, what’s the point?”

“I’m not going to make a difference”

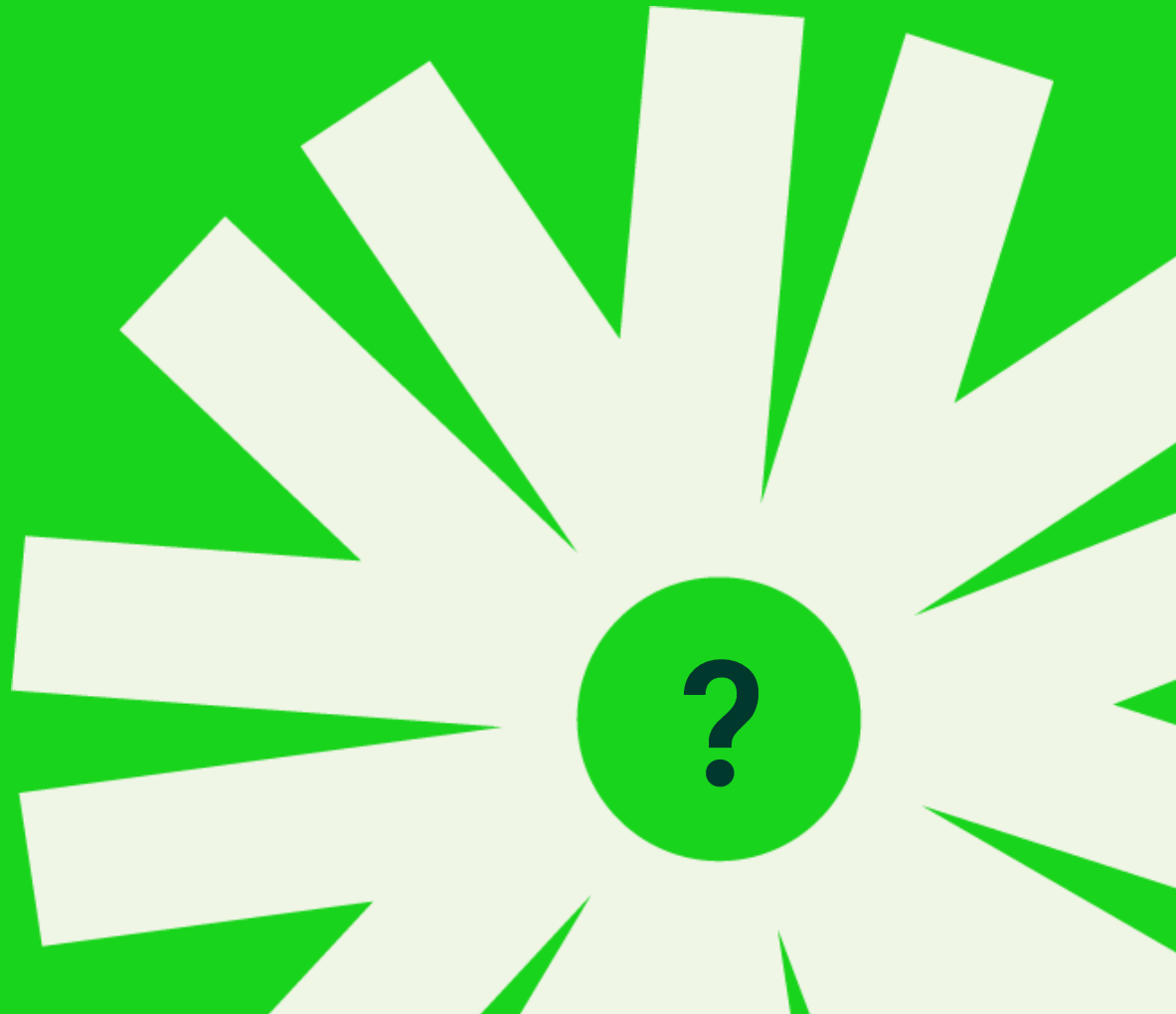
70% of all consumption-based GHG contributed by cities

IPCC, 2022

12.7%

reduction each year to meet Paris 2015 agreement

Can we do more than the bare necessity?



How to Build a solar system

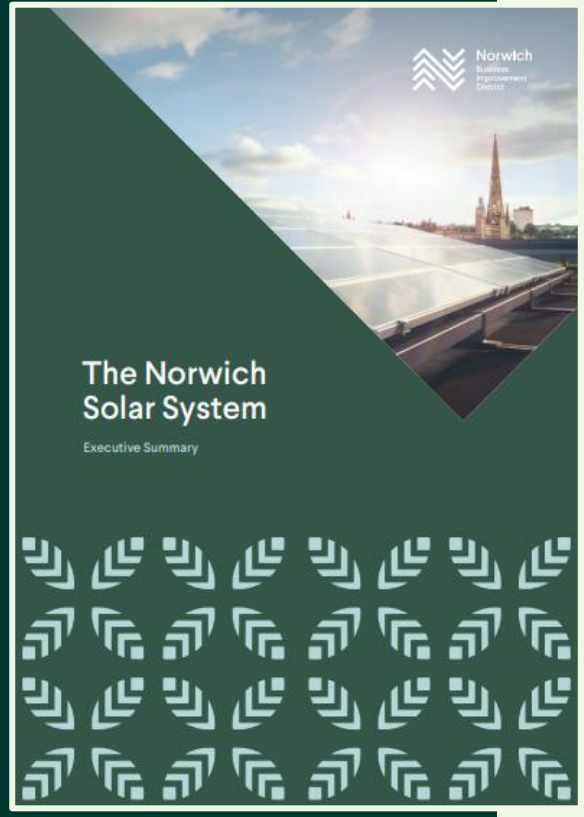
- Phase 1: Feasibility | The BID Breakfasts
- Phase 2: Concept
- Phase 3: Launch | The Norwich Solar System

Phase 1: Feasibility | The BID Breakfasts

Vision: To understand the barriers and drivers for businesses adopting solar

Outcome:

- Over 100 businesses attended
- 307 optimal buildings identified
- Potential to produce 146% of the annual electricity consumption of all BID businesses
- Average buyback period of 3.75-18 years



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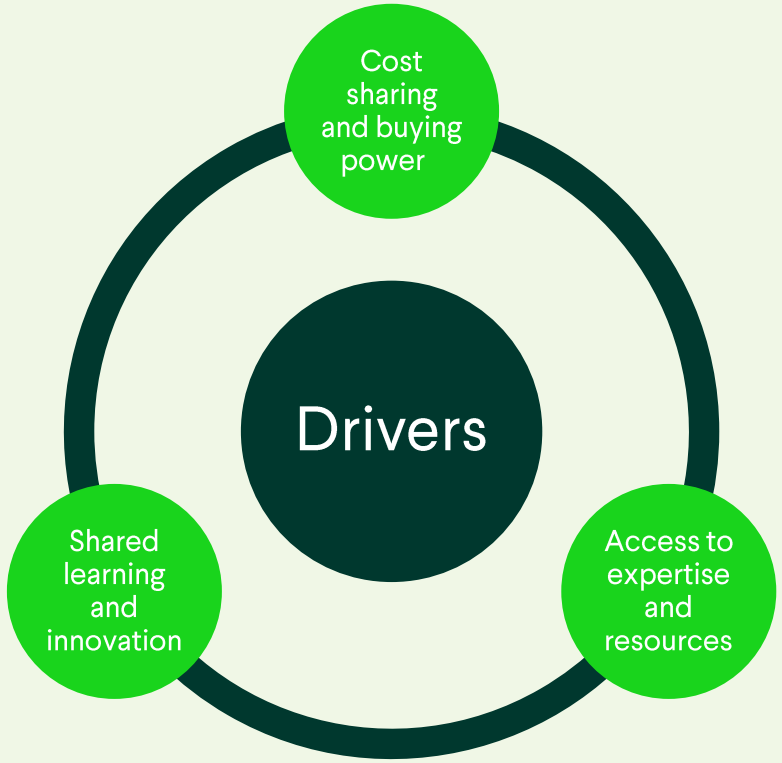
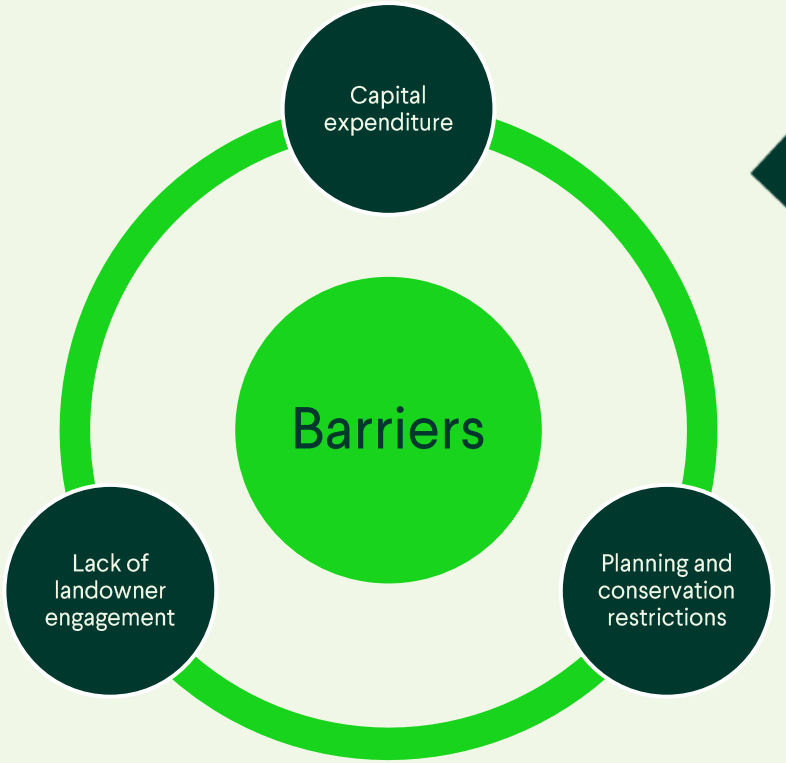
Phase 1: Feasibility | The BID Breakfasts





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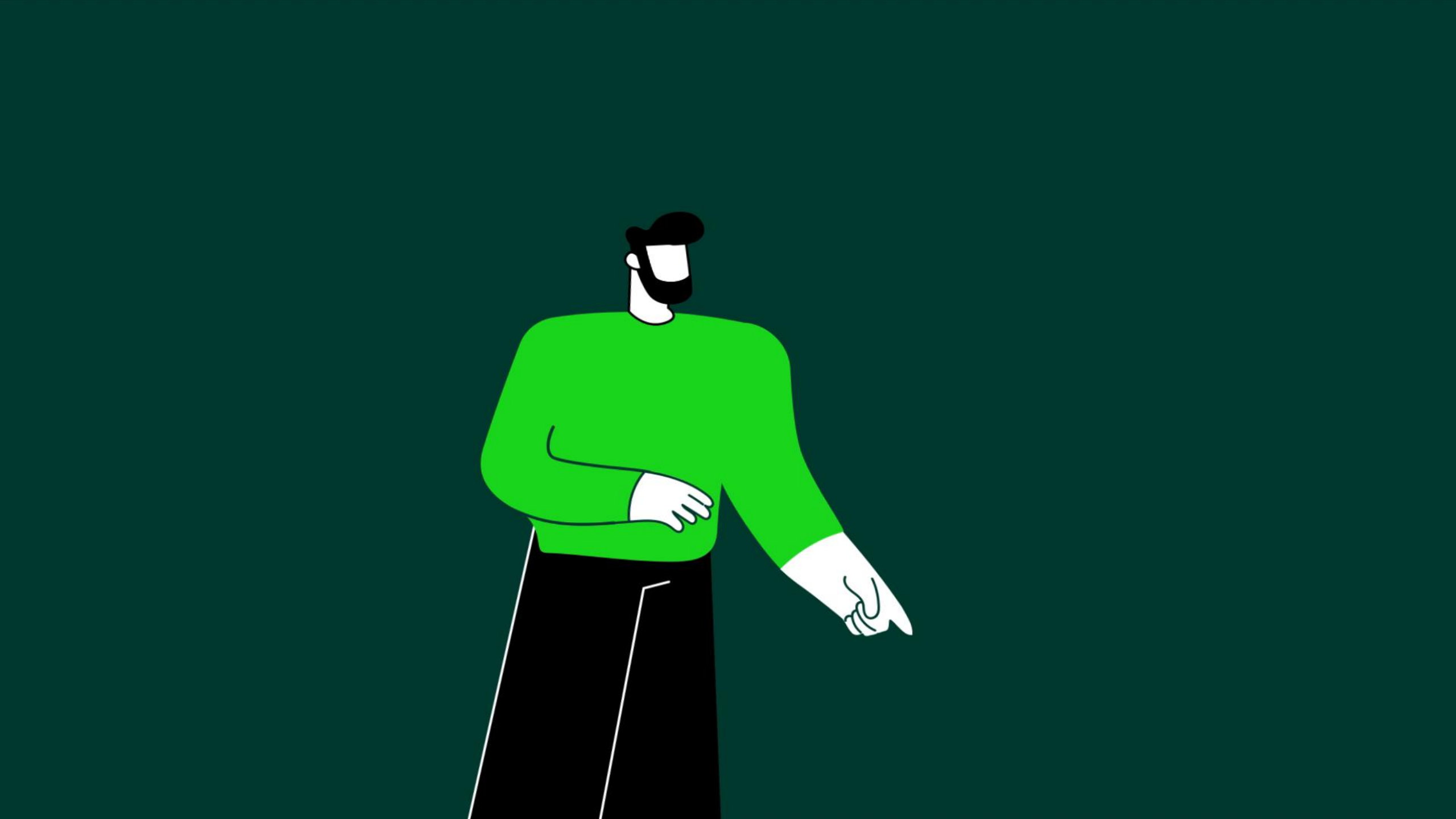
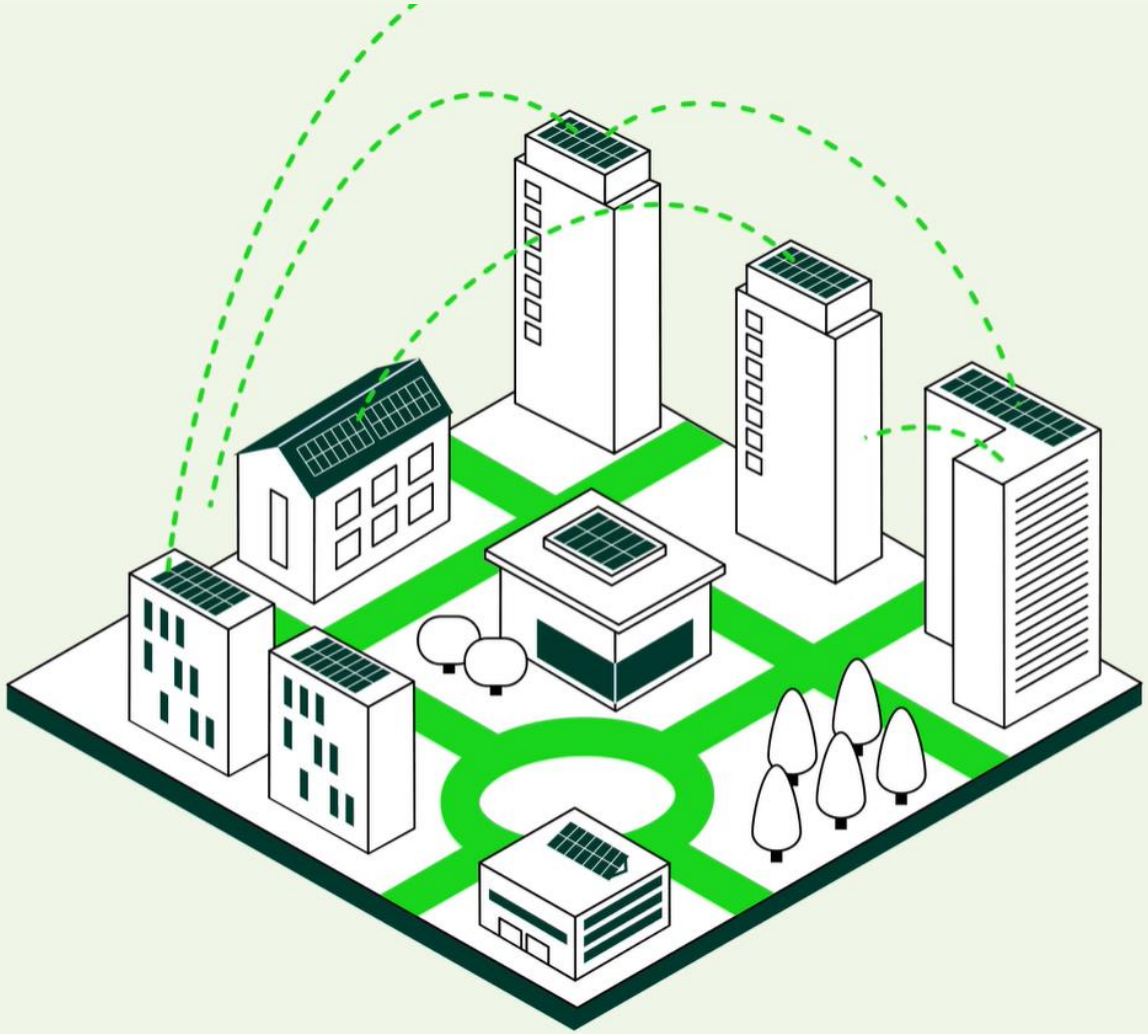


Phase 2: The Concept

Vision: To create a local energy community, utilising businesses rooftops.

How?

- Solar PV is installed on businesses rooftops through Consensus Power by local installers
- Businesses have priority access to renewable energy generated on their site
- Receive a return for generating energy
- Surplus energy can be sold into the local energy market



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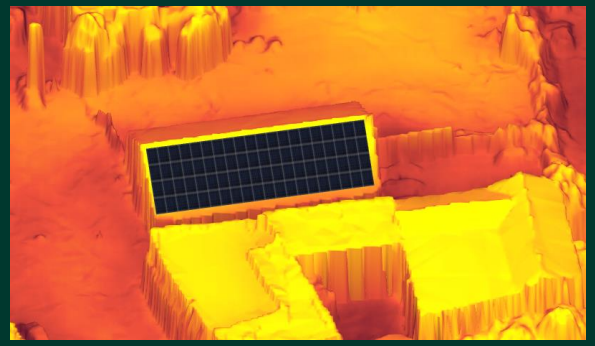
TO THE PEOPLE

Phase 3: The Launch

Vision: To create a local energy community, utilising businesses rooftops.

How?

- Submit an expression of interest
- Site survey
- Planning application
- Installation
- Cheaper energy



Gerald Giles

Array capacity: 30.71 kW

Estimated annual generation: 27,803 kWh

Working with

CONSENSUS POWER TO THE PEOPLE

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Any questions?

Norwich
Business
Improvement
District

Thank you for listening

Working with and with support from

Norfolk
County Council

Department for
Energy Security
& Net Zero

Greater
South East
Net Zero Hub

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