

A close-up, low-angle shot of a wall made of interlocking concrete blocks. The blocks are light-colored with a textured surface and are arranged in a staggered pattern. The lighting creates strong shadows, emphasizing the three-dimensional structure of the blocks. The background is slightly blurred, focusing attention on the texture and geometry of the foreground blocks.

KENOTEQ®

Circular building materials  
for a sustainable future.

KENOTEQ LTD.

## The Problem

More than a third of waste in global landfill is of demolition and construction origin.<sup>1</sup>

Simultaneously, the earth is running out of basic raw materials.

5 million tonnes of construction waste still finds its way to UK landfill.<sup>2</sup>



## Our Solution

Produce low carbon building materials made from **near 100% recycled content**.

**Repurpose waste** as a valuable asset to contribute significantly towards a sustainable future.

Use state of the art technologies and equipment to **reduce and mitigate** carbon emissions.



# Our Solution

Ultra low carbon facing brick

*Suitable for interiors & exteriors*

**BRIQ®**



## Benefits



No firing  
1/10th energy  
**100% recyclable**  
<5% embodied  
carbon of clay brick



## First to market

Near 100% recycled content  
Exterior "eco-brick"  
Colour & size options  
Flexible production locations

## Patented



UK granted (Nov 2018)  
US granted (June 2020)  
European granted (February 2023)  
Canadian (filed)



## Tested

Comparable credentials to current products  
Double thermal insulation of concrete block  
Durability rating F2



vs.

Traditional brick and block

**Energy use**  
per tonne of production  
(in kilowatt-hours)

1 kWh

11 kWh

**CO<sup>2</sup> emissions**  
per meter squared  
(in kilograms)

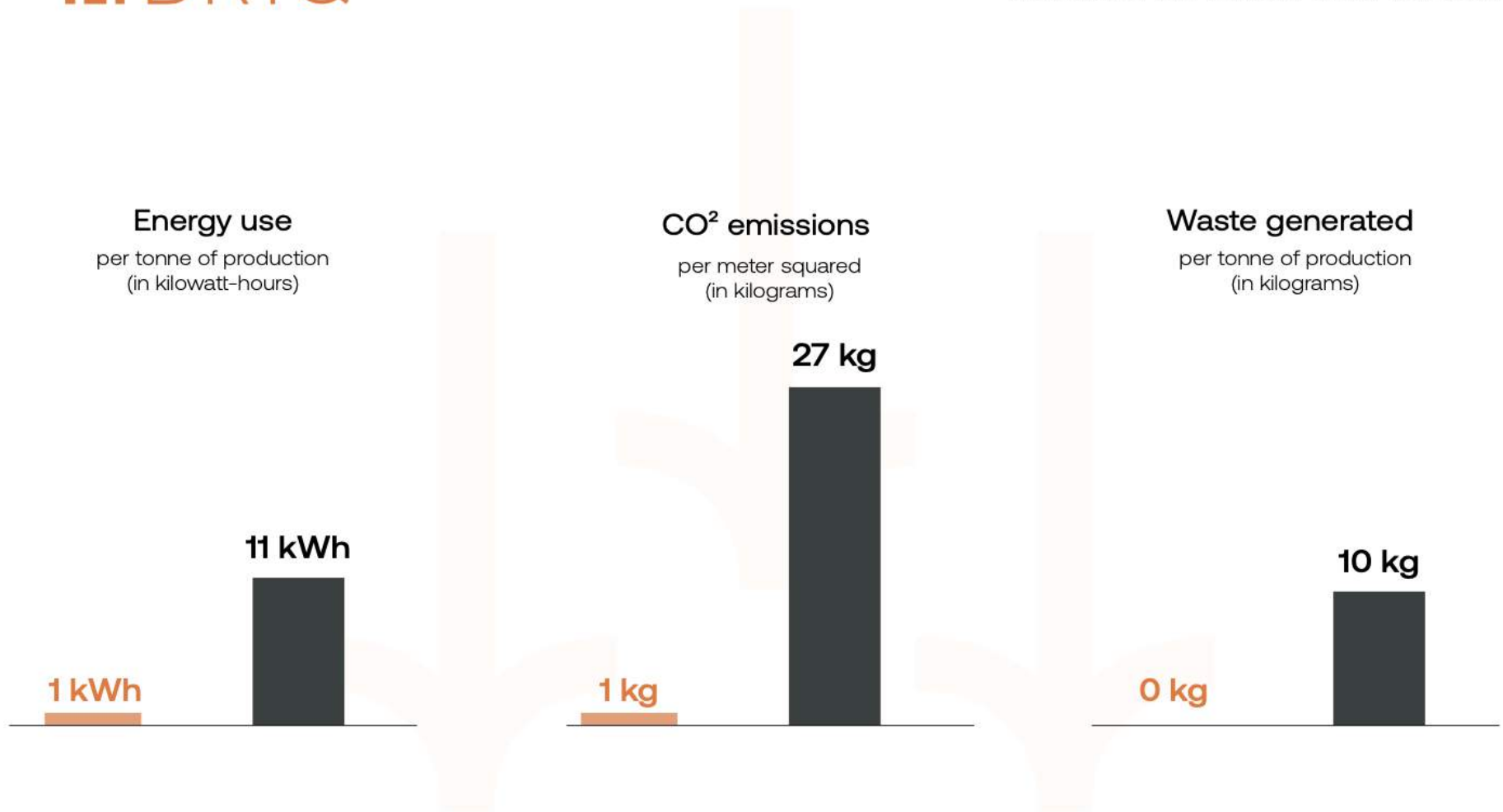
1 kg

27 kg

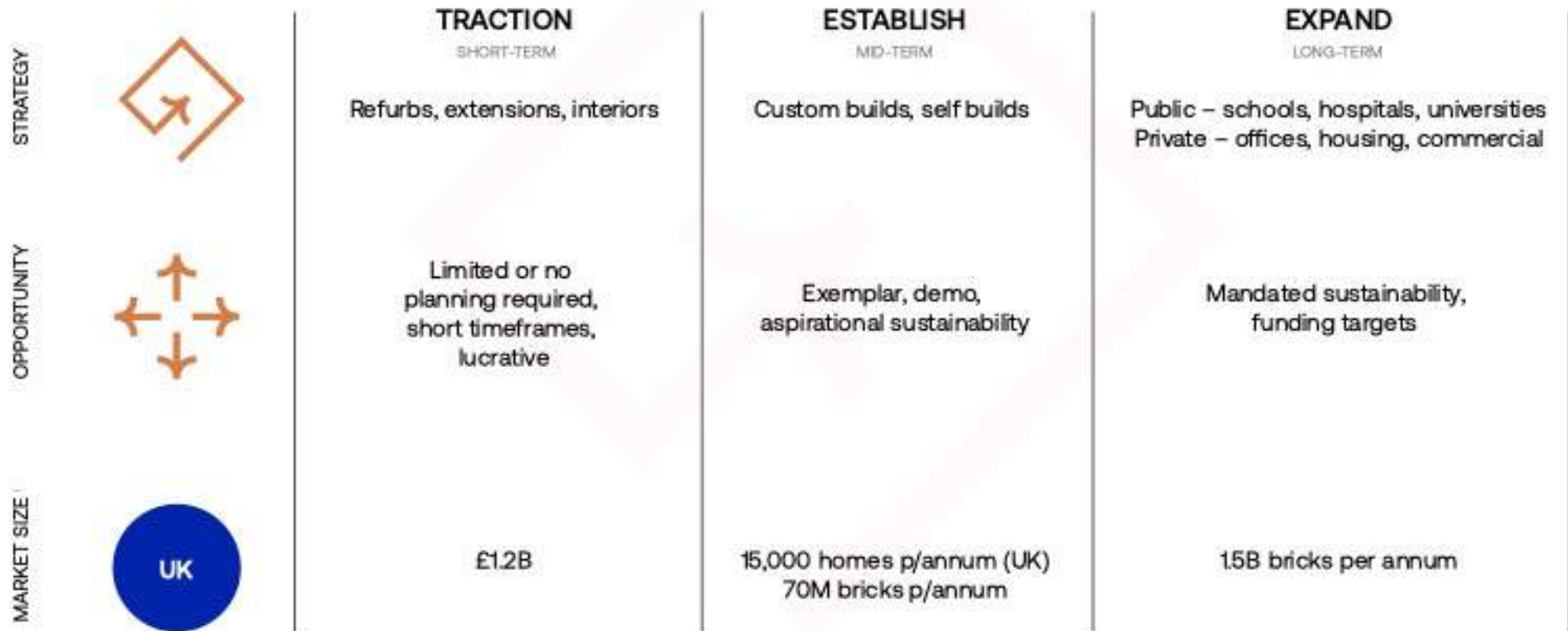
**Waste generated**  
per tonne of production  
(in kilograms)

0 kg

10 kg



# Go to market strategy



# Entry market trends & mandates

➤ The Climate Change 2019 Act set targets to reduce UK's emissions of greenhouse gases to **net-zero by 2050**.  
2045 - interim - 75% by 2030, and 90% by 2040.

➤ £4.4B UK Priority School Building Programme (PSBP) - Committed to **rebuilding & refurbishment of school buildings**. 300 schools prioritised in total in 2022-23, with delivery rate of 50 per year. Government housebuilding targets of 300,000 new homes per annum.

➤ **The Circular Economy Bill** in Scotland and Resource Efficiency Bill in the UK. Legislative framework to support transition to zero waste and circular economy, and **modernise and improve waste and recycling services**.

➤ K-BRIQ® allows projects to **achieve required carbon targets**.  
Less than 20g CO2 per brick (3% of clay brick) lower than **ANY** brick product in the market and lower than nearly all facing products.

➤ London Legacy planning covering carbon offsets (LLDC, 2016). **Requirements on reductions in embodied carbon** to count against offsetting (£95/tCO2e tax).

➤ New targets being set are typically more ambitious, for example, Glasgow City Council and the City of Edinburgh Council are set to be **carbon neutral by 2030**.

## Our flagship facility



East Lothian, Scotland



**£1.3M capital investment**  
into cutting edge manufacturing equipment



**Funded by grant, investment and asset finance**



**Two production cycles per day (8hr working shift)**



**Agile workforce (4 operators per cycle)**

### Current production capacity

**1,250 p/day** **8hr**

**20,000 p/month\***

### Potential production capacity

**20,000 p/day** **16hr**

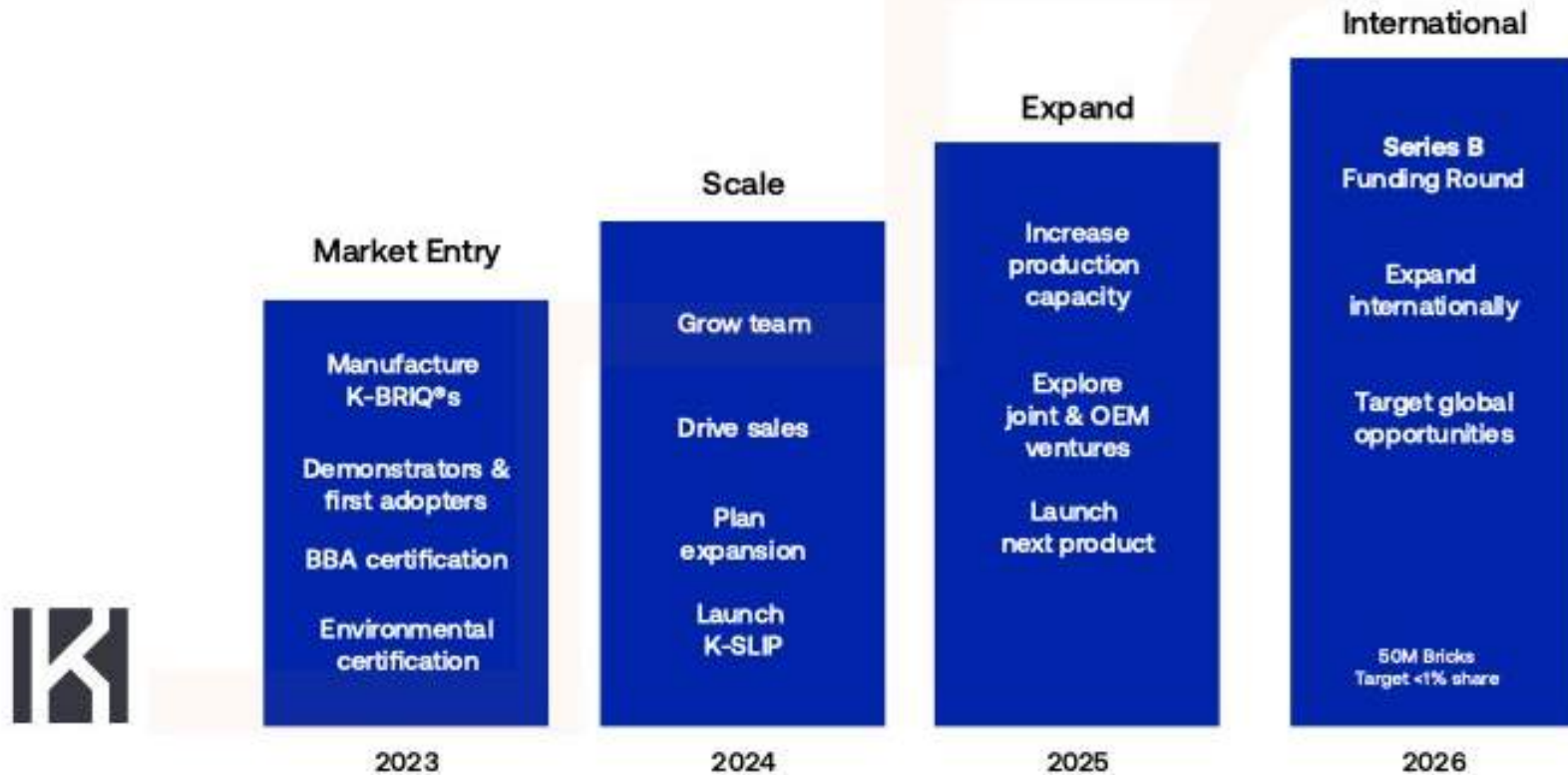
**320,000 p/month\***

*\*4 days per week production*





# Future growth prospects



# Validation/Press

*"The K-BRIQ is the most innovative construction brick to ever enter the market, boasting a competitive sale price and sustainability at its core, using new circular economy processes."*

BE-ST  
Innovation Factory

*"This unfired construction unit has excellent sustainability credentials - having 90% recycled content from construction waste, no energy input in its production in the form of gas use when compared to traditional clay-fired bricks and no cement use when compared with concrete blocks."*

Archello

*"It gives landfill material a new lease of life, allowing the design and construction sector to reduce its carbon emissions by 90% compared to using traditional clay bricks while reducing reliance on imports."*

Dezeen, Winners  
Sustainable Design  
2022

*"Brick that decimates embodied carbon set to start production"*

Royal Institute of  
British Architects

Awards/features/backers

