

Strategic Energy Partnerships

Evolving approach for aligning intent and outcomes

APSE Energy Event Nottingham

26 May 2026



Nottingham
City Council

Environment
and Sustainability

Strategic Energy Partnership

▶ Why this programme matters:

- ▶ Opportunity to **attract investment to enable Energy Transition** through pace of new energy supply (e.g. electrification) and addressing demand side consumption and efficiency (upgrades, retirement of gas, etc).
- ▶ Extend Nottingham reputation as a leader in reaction to Climate Change and Fuel Poverty.

▶ Why are we here:

- ▶ Limited access to Capital to meet CN28 or other transition plans.
- ▶ OFGEM still funding national work to 2050 but still around £40bn / year being spent in UK.

▶ What success looks like:

- ▶ A city powered by clean, affordable energy, where every household and business benefits - supports economic and climate ambitions.
- ▶ Nottingham recognized as continuing to lead the way to net zero through bold partnerships and inclusive action.

▶ How:

- ▶ Create confidence for investment in regeneration and retrofit actions.
- ▶ Prioritizing projects, enabling access to estate and assets, advancing solutions.
- ▶ Developing post project monitoring systems for energy transition interventions and continued improvement.



What is the Strategic Energy Partnership?

1. A medium-term collaboration (10-25 years) between Nottingham City Council and a strategic private/public sector partner(s).
2. Designed to optimize the use of public grants/funds, Council spend and to lever private investment to accelerate in local energy infrastructure across current assets and future developments.
3. A delivery vehicle for key programmes: Masterplan Developments (Broad Marsh electrical network), PV solar rollout, retrofit improvements, heat networks, smart energy systems, Efficiency and optimization, and fuel poverty alleviation.
4. Based on Model of similar approached in Bristol, Coventry, Oldham and Brighton
5. Formulation of approach using Innovate UK / PWC guidance document.

The SEP could support the installation of a target number of solar PV systems Including bulk solar, retrofit Nottingham homes, and launch a community energy engagement programme.

NOTE - It is not looking to develop 'retail energy' tariff.

Why? The core reason the project exists

Deliver Capacity

Strategic Energy Partnership brings commercial, operational, and financial expertise while supporting the existing energy technical team at NCC.



Championing Sustainability

Meeting Nottingham's carbon neutrality goals and the continuation of CN28 efforts for the city, Leading Nottingham Forward.



Investment gap

The public sector alone cannot fund the scale of infrastructure needed in the current national financial scenario.



Market confidence

A formal partnership signals financial stability and ambition to investors, ensuring continued delivery of energy and regeneration projects for the city.



Local Economic Benefits

Principles based on job creation locally, supply chain development and community wealth building are key for long-term benefits.

“To accelerate the transition to a low-carbon future and reduce energy poverty in Nottingham”

Strategic Energy Partnership - Scope Outline

Current Assets - Wrap together - Plan O&M and Optimisation

Current Solar Assets Domestic and Non-Domestic

Current Social Housing Portfolio

Current Office & Depot Portfolio

Current Utility Provision & Metering & Bills

Projects and new Assets - Phased Build out - O&M and Optimisation

NEW Projects PV Solar Assets Domestic and Non-Domestic

NEW Projects Leisure Centre Heat Hubs

NEW Projects Social Housing Heating Transition (Boiler replacement)

NEW Projects Hub and CRPP projects inc Owner Occupier sector

Solar for Schools....

NEW Project 5 - 10 MW Solar Farm (NCC Land)

NEW Projects DESNZ Advanced Heat Networks

Energy Utility Supply Contracts

NEW Masterplan Energy Systems at Broad Marsh, etc

NEW Projects Theatre and Concert Hall

NEW P & R - B-EV charging

NEW Solar Together and ECO Obligations

NEW Public / Academic Partner Assets / Projects

Excluded at Day One

EFW Plant (Incinerator)

Heat Station and ST Generator

Private Wire & Heat Customers

Billing & Metering

Status at March 2025

- ▶ Divisional approval obtained
- ▶ Championed by our Executive Member
- ▶ Soft market testing completed with excellent levels of interest

Challenges

- ▶ Not a statutory duty
- ▶ Not a divisional priority
- ▶ Not intuitively understood by senior leadership
- ▶ Nervousness because the approach is relatively new
- ▶ Vagueness around scope and lack of anchor projects a challenge for potential partners

Energy Transition and Climate Change

Changing Context, Actors and Landscape

Context (National)

Clean Power 2030 Action Plan: A new era of clean electricity

Electricity Networks Sector Growth Plan
Interim Report
December 2025

Energy Sector Digitalisation Plan
The digitalisation actions needed for Clean Power 2030
Iteration one (2025)

Energising Britain
Your voice in our Clean Energy Superpower Mission
December 2025

Annual Vulnerability Report
2024/25

CLEAN ENERGY JOBS PLAN
Creating a new generation of good jobs to deliver energy security

Nottingham City Local Area Energy Plan
Draft Report
December 2025

Actors (Some New)

Government, Regulator, System Operator

UK Government

NESO National Energy System Operator

ofgem

Great British ENERGY

CATAPULT Energy Systems

NHS

Department for Education

NATIONAL WEALTH FUND

MIDLANDS NET ZERO HUB

Midlands Nuclear

NATIONAL ENERGY ACTION ACTION FOR WARM HOMES

UNIVERSITY OF DERBY

NTU Nottingham Trent University

University of Nottingham UK | CHINA | MALAYSIA

East Midlands Investment Zone Combined Skills Report
Delivering Green Skills for the East Midlands Investment Zone

Landscape (Ambition)

Warm Homes: Local Grant
Policy Guidance for Local Authorities

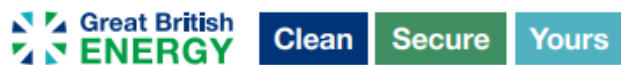
East Midlands Combined Counties Retrofit Strategy 2025-2028

Local Power Plan
February 2026

Five components of a RESP

The Regional Energy Strategic Plan

Regional Energy Strategic Planning
Draft methodology for consultation
November 2025



Solutions

- ▶ Use established road maps to develop the proposal
- ▶ Embed the SEP into our new One Council Plan via the divisional plan
- ▶ Emphasise economic and resident benefits rather than carbon savings
- ▶ Build anchor projects from scope already in regeneration plans
- ▶ Sell the SEP as a vehicle for budgeted medium term spend, eg HRA boiler upgrade programme, Warm Homes Plan grants
- ▶ Use the evidence base of our LAEP (when available) to crystallise the requirement

Nottingham Strategic Energy Partnerships Guidance to Approach

 Phoenix

 CATAPULT
Energy Systems

**Unlocking Regional
Investment Through Local
Area Energy Planning**

March 25

**Financing Local
Net Zero Projects**
A Guide for Local Authorities
December 2023

 UKRI

 Innovate
UK

In association with:
 pwc



Establishing public-private Joint Ventures
and partnerships for investment in and
delivery of energy schemes

 MIDLANDS
ENERGY
HUB

 Toolkit: a community wealth building energy transition

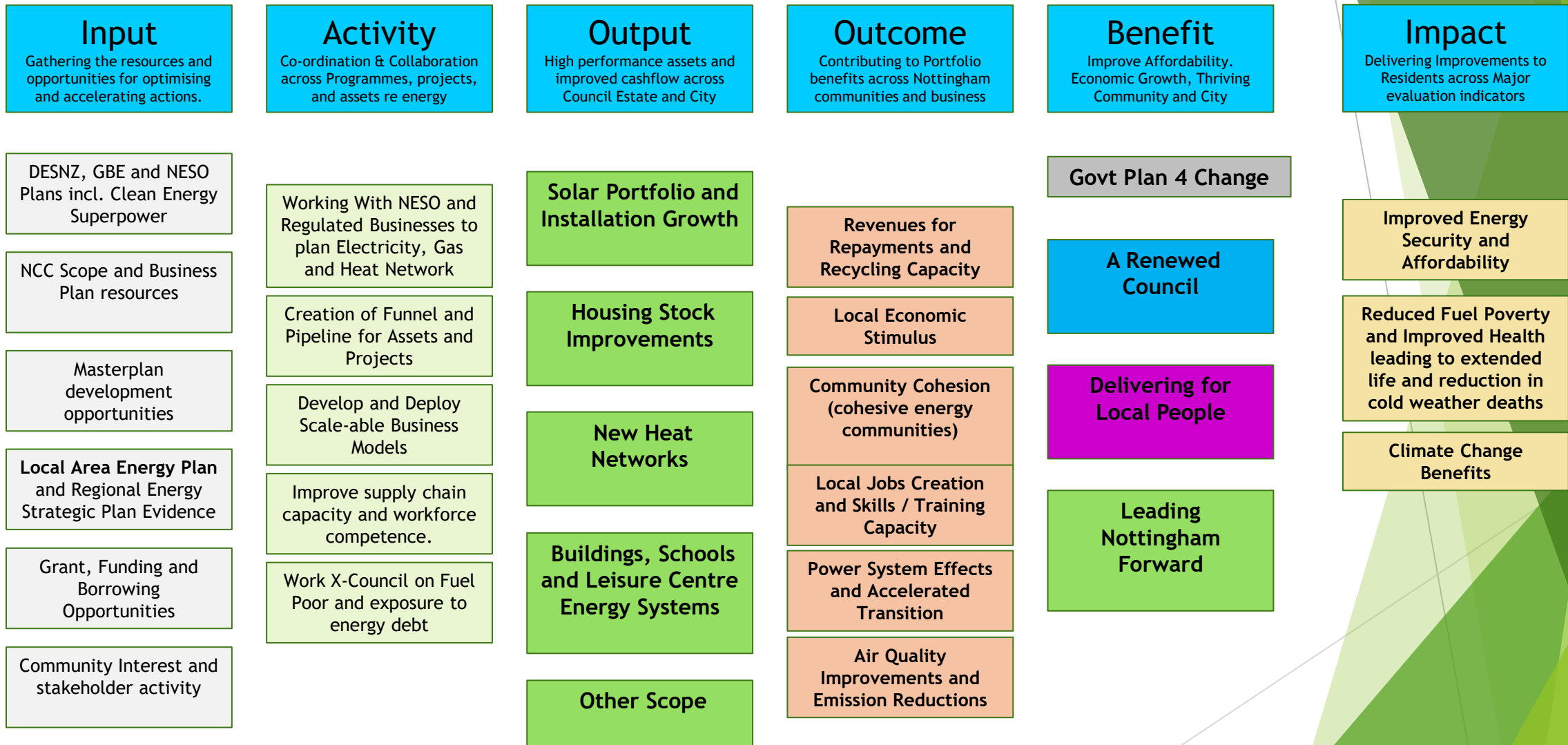
Part 4: deep dives
Oldham, Nottingham and Birmingham

Conclusion

- Structure, Scope and Models are varied
- National Wealth Fund Advice sought

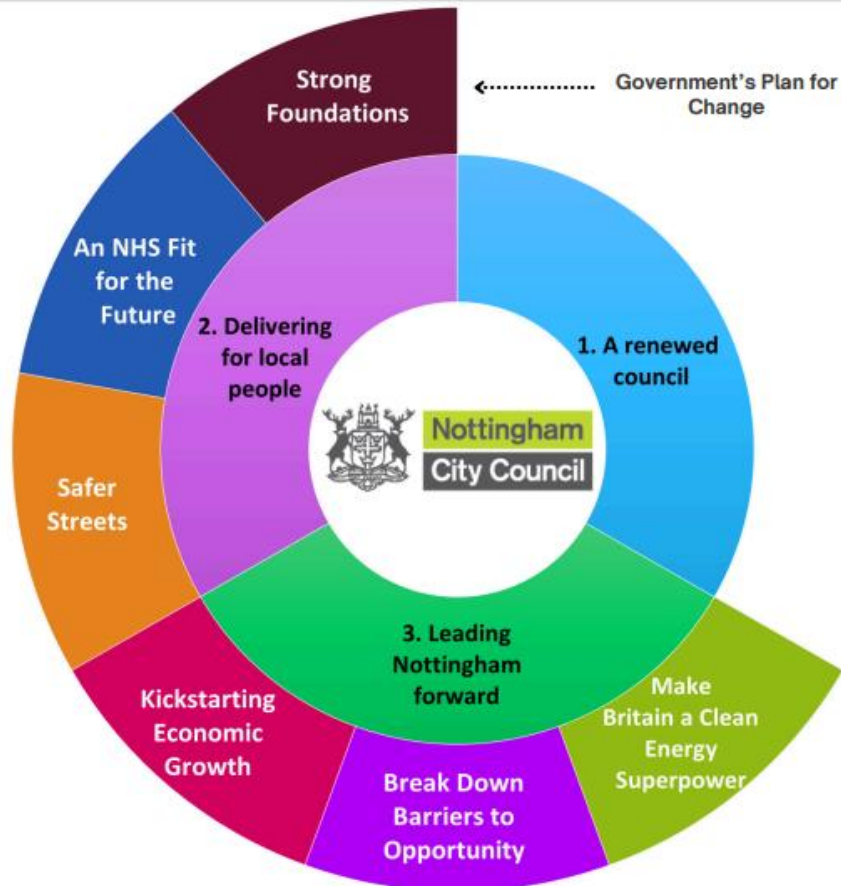
Further Definition to get 'bulk' benefit

Why? Realizing Outcomes, Benefits and Impact



One Council Plan

Energising Nottingham - A Mission that works for everyone
Setting the tone for 2026 - 2030



Extract for 3d) - Championing Sustainability

Under the 'One Council Plan' and Leading Nottingham Forward:

Championing Sustainability themes under 3d (extract below)

- ▶ Need to refresh and reset Energy Transition and Climate Change
- ▶ Push 'CN28' forward for NCC estate operations
- ▶ Widen pathways on city wide emissions and pace

Consider approach for 2026 to 2030

- ▶ Pivot to 'Clean Energy Transition and Climate Change'
- ▶ Reinforce Adaption, Mitigation and Resilience priorities
- ▶ Include Economic and Resident with Environment benefits
- ▶ Develop new Anti-Fuel Poverty Strategy 2026 -2030
- ▶ Check on structure of internal and external Meetings
- ▶ Align to Clean Energy Superpower Mission (see specific slide)

3d) Championing Sustainability

- Resident services
- Environmental Health
- Waste and cleansing
- District heating
- Green spaces
- Carbon neutral 2028

- Air Quality Strategy
- Carbon Management Plan
- Carbon Neutral Nottingham 2020-28
- Greener, Healthier, Happier Strategy

Energy Transition and Climate Change

Energising Nottingham - A Mission that works for everyone

Priority Workstreams for 2026 - 2030

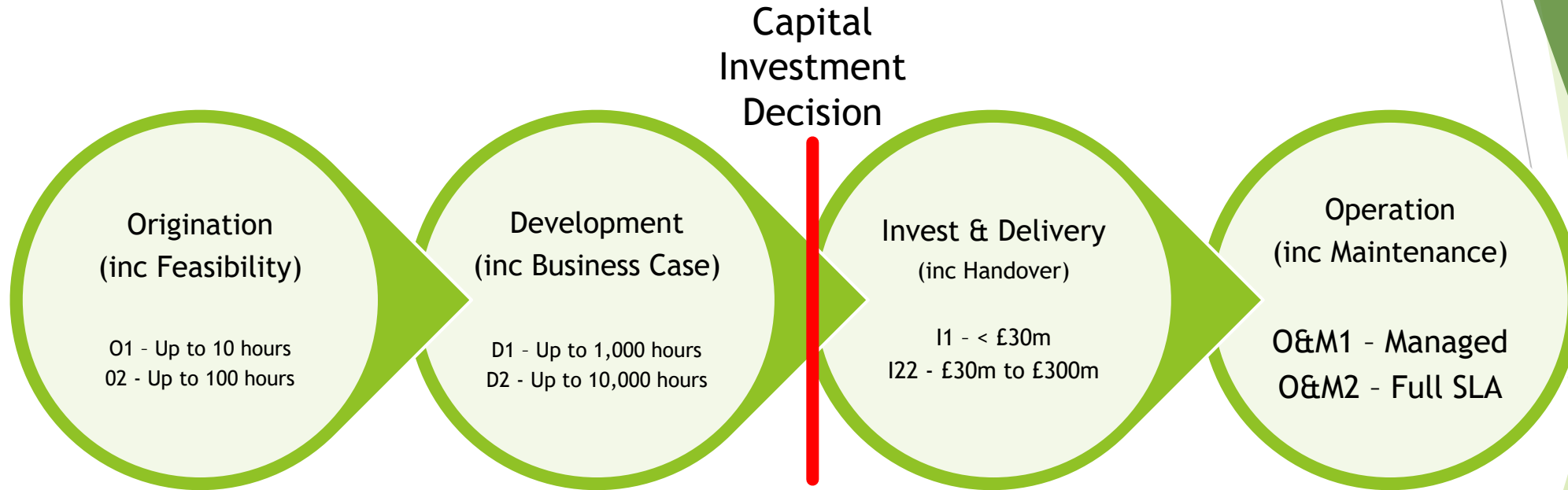
Using the 'One Council Plan' and Leading Nottingham Forward themes:

Pivot to Energy Transition and Climate Change through our role to convene, champion, lead, support, lobby, and enable



Gateway Process

Stage Progression – Decision Making



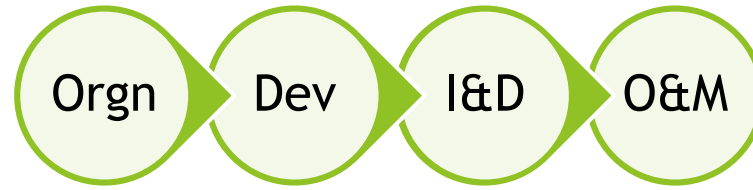
Take-away

- Governance of Process required
- Need buy-in to initial phase of projects and those to follow

Further Definition of Gateway and processes for decision to 'proceed' / 'stall' / 'divest'
Development of Governance key to ensure Programme Board / Integrated Team roles are defined

Nottingham

Development Landscape - extract



LAEP Initial Findings - Jan 2026

- ▶ Outline Metrics for 2050
- ▶ Quick Wins
- ▶ Enabler Actions
- ▶ £ 4 - 6 bn Wider Capital investment

2050 Scenario – Key Metrics

The economic modelling highlights a complex interplay between costs and welfare benefits. In this scenario, while there is an overall reduction in energy bills, the combined effect of CAPEX and ongoing costs can offset some of the welfare gains, leading to a varied net impact.

2050 vs Do Nothing in year (real, 2025, discounted)

	Gross number of installations	Unit of installations	Net Welfare Benefit	CAPEX	Valuation of carbon impacts	Employment creation	Air quality	Impact on bills	Carbon emissions reduction
Unit			£m	£m	£m	£m	£m	£m	tCO ₂ e
Light fabric retrofit	44,192	number of light fabric retrofits	32	-105	92	51	n/a	46	559,182
Deep fabric retrofit	59,985	number of deep fabric retrofits	-907	-1,481	386	782	n/a	188	2,446,640
Domestic solar PV	180,380	MWh	56	-475	120	188	n/a	411	541,087
Non-domestic solar PV	88,411	MWh	50	-149	59	59	n/a	139	265,208
Domestic air source heat pumps	101,295	number of air source heat pumps	45	-446	557	390	18	-84	2,828,041
Non-domestic air source heat pumps	3,472	number of air source heat pumps	-197	-401	214	338	7	-17	1,084,178
EV charging (excl. vehicle benefits)	125,287	number of chargers	-419	-419	0	667	0	0	0
Total			-1,341	-3,476	1,427	2,474	24	684	7,724,336

EV charging (incl. vehicle benefits)	125,028	number of chargers	749	-419	1,191	667	103	-126	5,538,934
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LAEP Initial Findings - Quick Wins and Enablers

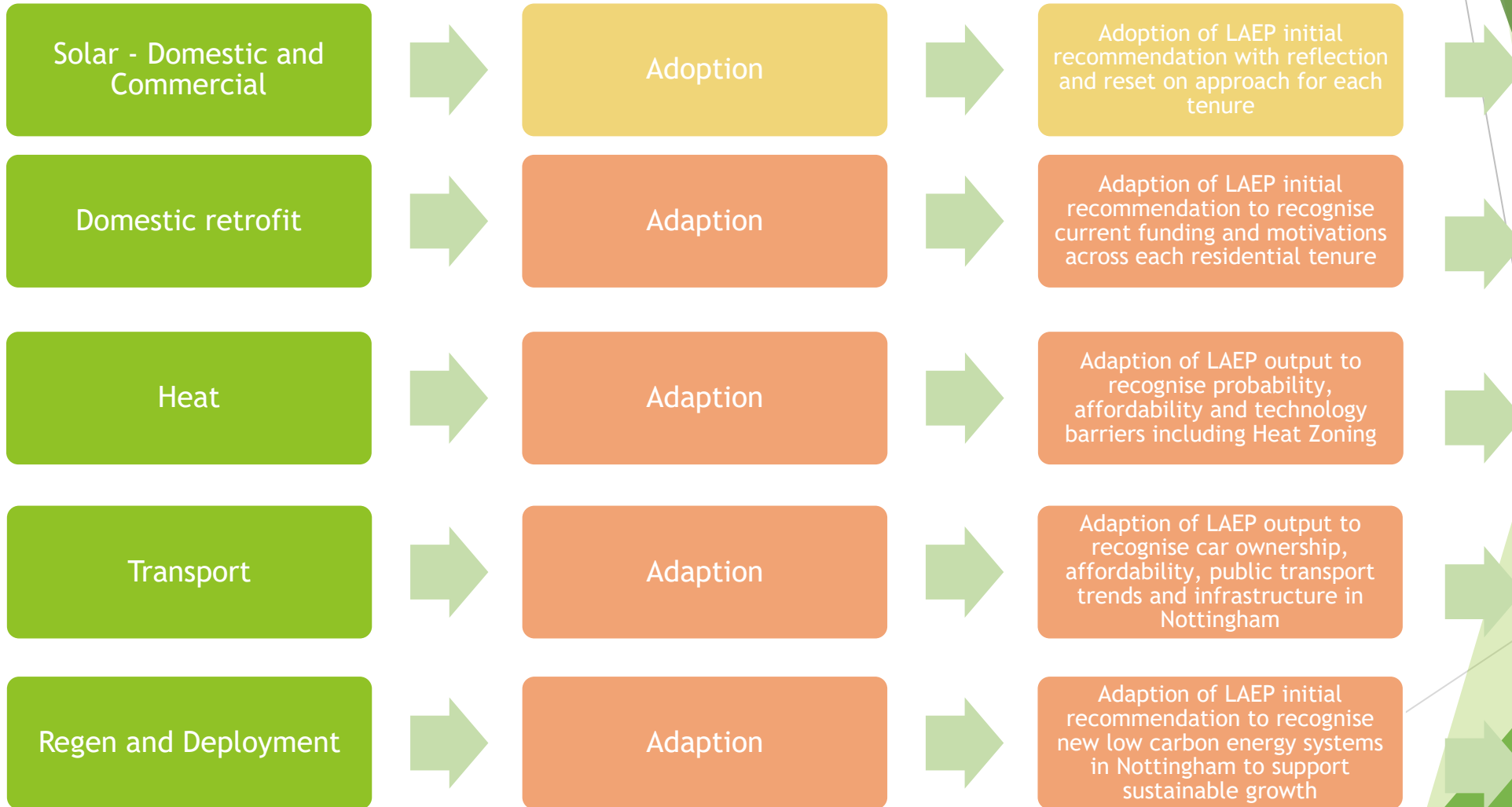
Quick Wins

- ▶ Rooftop solar PV on public estate buildings
- ▶ Fuel poverty led social housing retrofit
- ▶ Domestic PV and battery storage
- ▶ Projects in pipeline

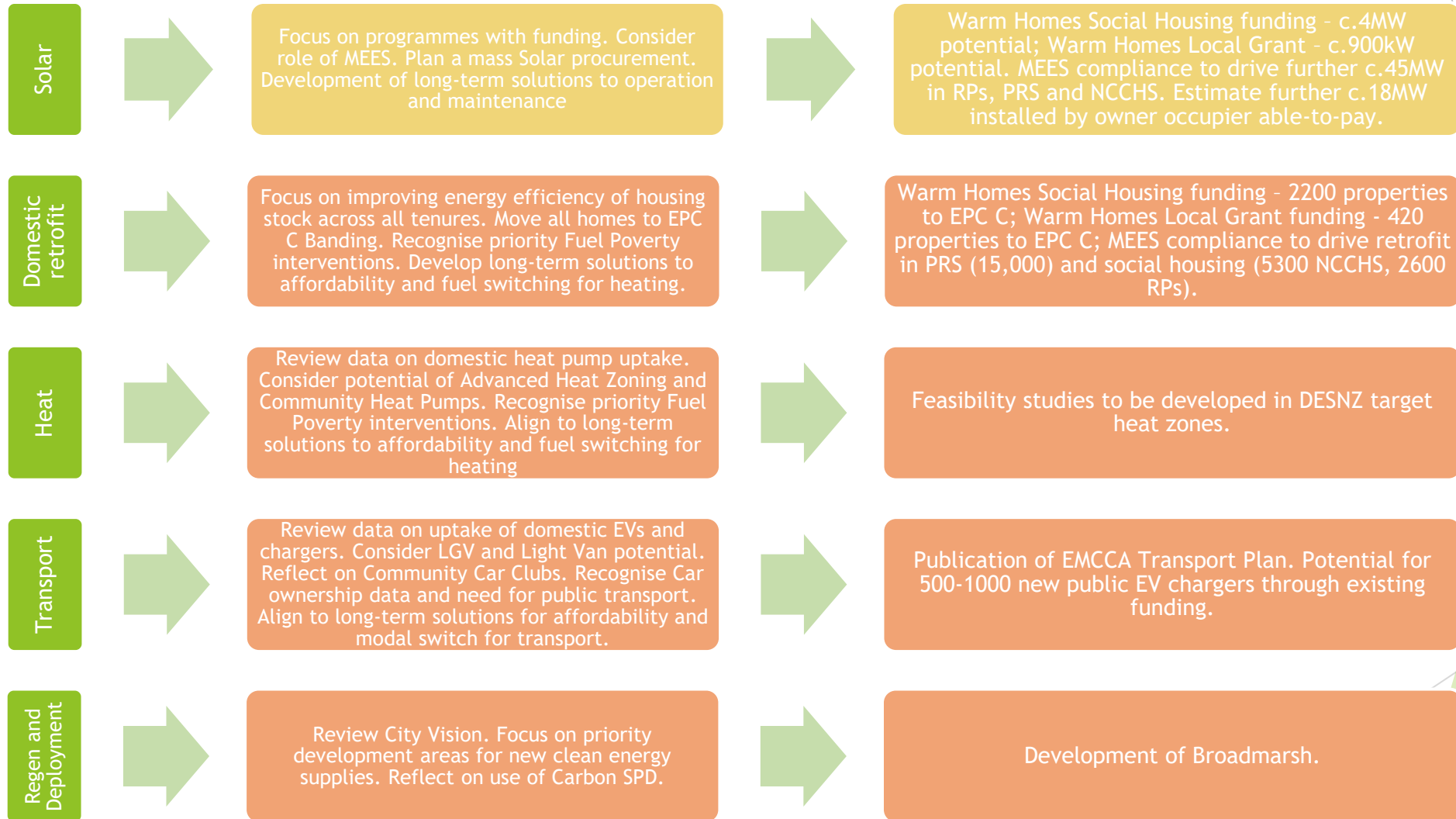
Enablers

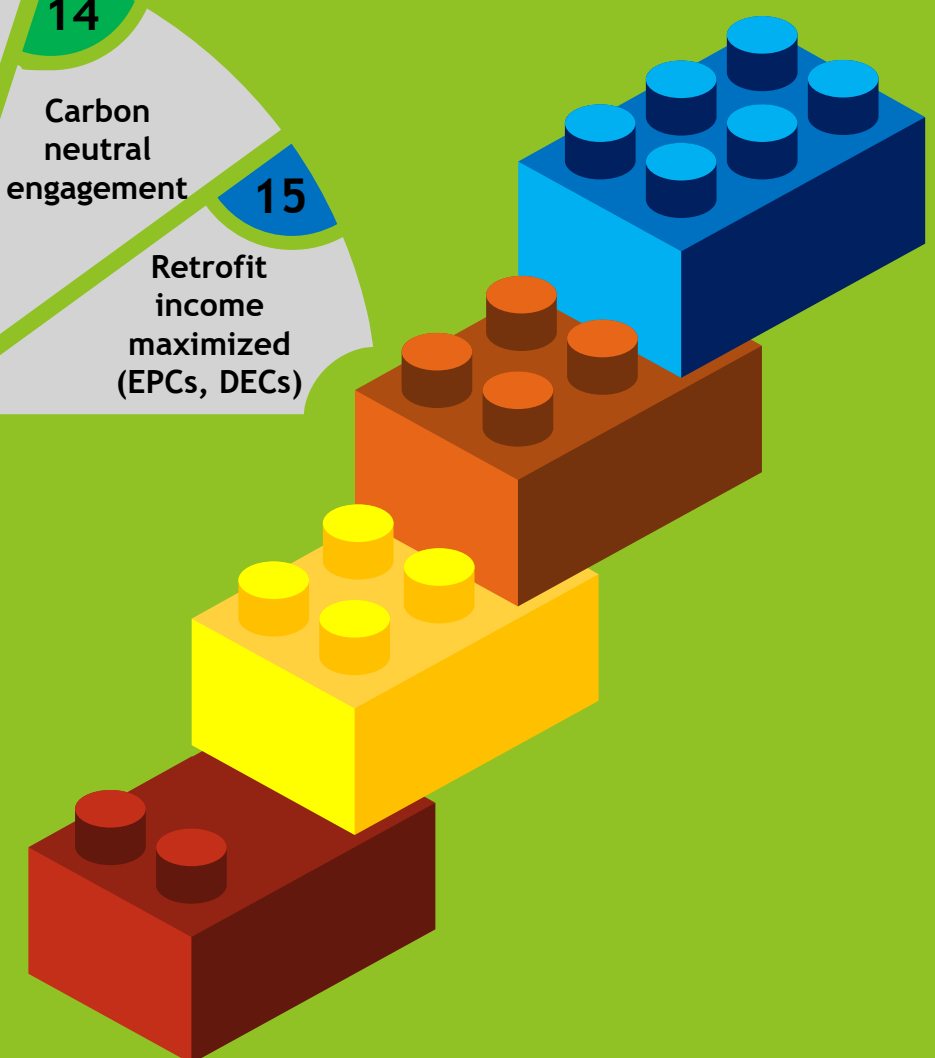
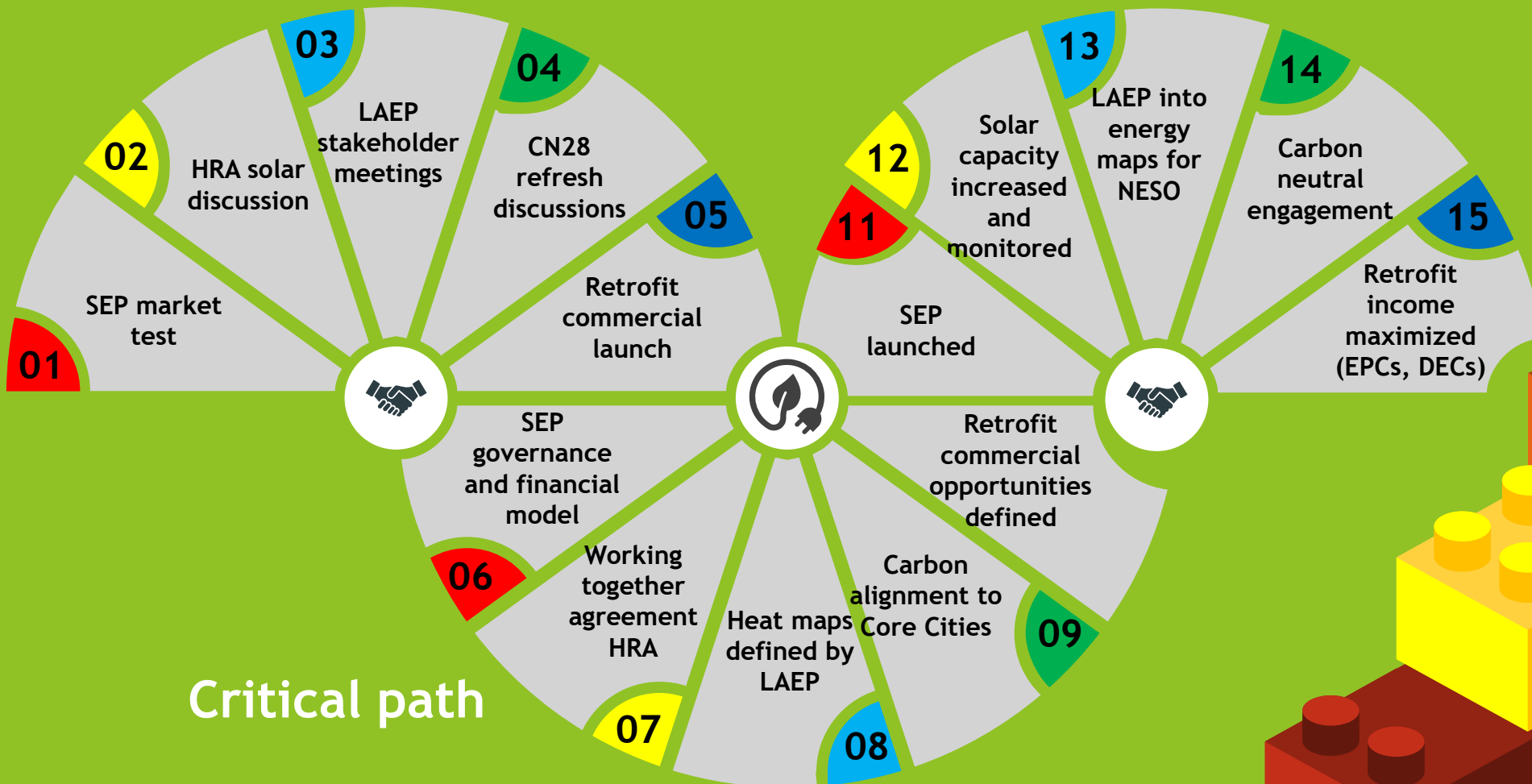
- ▶ Education and demonstrator projects
- ▶ Targets grid reinforcements
- ▶ Local bulk procurement frameworks for retrofit and heat pumps
- ▶ Workforce training programmes
- ▶ Financing mechanisms for low-income households
- ▶ Industrial decarbonisation and hydrogen readiness

Baselining April 2026 - Adoption & Adaption



Intention and Action to 2030





10 Year Aspiration

- ▶ Enduring partnership established
- ▶ Broadmarsh revitalised with state-of-the-art behind-the-meter electrical infrastructure
- ▶ Heat zone established centred on a decarbonised leisure centre servicing local residents and industry
- ▶ Solar and heat pump installs in able-to-pay market hitting run-rate due to established competent and competitive supply chain