

Mapping UK Green Planning Architecture

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The UK's green planning institutions are fragmented and underpowered. To deliver decarbonisation, this institutional architecture must be reimagined.

Key Points

- UK green planning needs rebuilt state capacity after decades of privatisation have undermined post-war planning institutions.
- The current institutional architecture is unsuitable for effective green planning.
- Repurposing current mandates will be necessary to align existing institutions with the roles they are expected to play under a green planning framework.
- The scale of public financing entities and public corporations remains limited, constrained by self-defeating accounting conventions and fiscal rules.
- New institutions are required to make green planning effective, including a central authority responsible for designing and overseeing the plan.

Summary

Green planning is emerging as the progressive policy paradigm for decarbonisation. In the UK, the current Labour government's ambitious clean power agenda and Industrial Strategy testify to a decisive shift away from the free-market fundamentalism that has long dominated the political spectrum, especially after Thatcher came to power in 1979.

But green planning must also become effective in delivering on its promise. Putting this paradigm into practice depends on the state's capacity to deliver public investment at scale, provide key goods and services and coordinate various actors. A capacity that decades of privatisation and market-oriented reforms have drastically eroded.

Rebuilding a functional institutional architecture is a precondition for any future green planning to succeed. It requires, as a first step, a clear understanding of the entities

currently in place, including their respective responsibilities and interactions.

This study offers a pioneering insight into the existing UK institutional architecture for potential green planning. It does so by mapping and assessing central-government public institutions across four policy fields: international, macro-financial, cross-cutting and sectoral.

The preliminary results are mixed, showing some potential but also significant shortcomings that should be addressed with the repurposing of existing institutions and, where necessary, the creation of new ones.

Existing institutions often have unsuitable mandates and confused governance

International and macro-financial institutions, in particular, hold mandates that are ill-matched to the roles required under a green planning framework. Cross-cutting and sectoral institutions, meanwhile, often combine inconsistent legal statuses with unclear relations and responsibilities — both among themselves and with their supervising departments.

The institutional architecture for green planning is partially incomplete

No blueprints without spades. The long list of advisory and regulatory bodies is no substitute for executive entities capable of directly undertaking public investment programmes and providing essential goods and services. The UK lacks public corporations with a direct capacity to deliver on the green plan's sectoral decarbonisation objectives. Those that do exist, often lack the adequate scale and mandate.

Publicly owned commercial institutions are constrained by dysfunctional accounting rules

The main UK public financing institutions (UKEF, NWF, BII, BBB, NHB) and non-financial corporations (GB Energy, GBR and others) cannot achieve the systemic scale needed to support green planning objectives unless they are separated from the government's accounts and granted autonomous borrowing powers — as it is already in most other European countries.

Green planning is at odds with the current fragmentation of sectoral interests and administrative levels affecting public institutions

Central government public institutions pursue their mandates independently and often replicate institutions from devolved nations and local authorities. Beyond drafting the plan itself — as a bottom-up exercise synthesising inputs from the main stakeholders — a newly established central planning institution should be responsible for the governance and supervision of the green planning process.

1. Green Planning and State Capacity

On 14 March 1932, John Maynard Keynes concluded a BBC radio broadcast wishing success to “state planning by Public Corporations responsible to a democracy in Great Britain”.^[1] Keynes was not just making the theoretical case for economic planning.^[2] He was also sketching the architecture of a future British planning system, with a functional division of roles between elected and administrative institutions.

The post-war configuration of the UK planning system was, perhaps inadvertently, quite resemblant of Keynes’ suggestion.^[3] Subsequent governments from 1945 until 1979 established a comprehensive architecture of planning institutions made of public financing entities, public corporations controlling nationalised industries, state-owned manufacturing companies, planning authorities and state holding bodies. These enabled successive governments to influence not only the volume of investment but also its direction, shaping structural change in the British economy.^[4]

Those post-war planning institutions began to be dismantled during the Thatcher era, with their final dissolution taking place under the Major and Blair governments in the 1990s. However, in the current state of permanent “polycrisis”,^[5] the need for effective government intervention is resurging. “Missions” and “strategies” are part of the new vocabulary of policymaking, especially for the current Labour government. Yet beyond the stated ambitions, what institutional capacity actually remains to address today’s interconnected economic and climate challenges?

Answering this question, through a detailed mapping and assessment of the existing institutional architecture, is a key prerequisite to embracing a successful green planning approach over the next decade. Although focused on the UK case, this study offers a replicable methodological framework, suitable for other national contexts. As such, it is intended not only as a domestic policy contribution but also as a blueprint for comparative analysis and international dissemination. A parallel review of US planning institutions will follow.

2. What Green Planning Institutions?

2.1 Scope of the mapping exercise

This study maps and assesses a defined set of UK entities — hereafter defined as “green planning institutions” — that is public institutions with sovereign responsibility for decarbonisation.

Institutions. The term institution is used here in its broader sense and encompasses a range of entities in the form of legal persons. Individual “actors” — or natural persons — are therefore excluded.

Public. Public institutions are legal entities belonging to the public sector, as classified by the Office for National Statistics (ONS) in accordance with the international statistical standards set out in the UN System of National Accounts 2008 (SNA 2008).^[6] Private companies, third sector entities (charities, social enterprises) and other civil society associations (trade unions, industry bodies) are likewise excluded.

Sovereign. The term refers to public institutions whose administrative level corresponds to the sovereign state — in the UK case, HM Government. This excludes potentially relevant public institutions tied to the devolved nations — such as the Scottish National Investment Bank (SNIB), Cardiff Airport in Wales, or Translink in Northern Ireland — as well as public bodies linked to local authorities, such as Transport for London (TfL) or Manchester Airport.

Decarbonisation. This category further narrows the scope of investigation to public institutions with major direct or indirect policy responsibility for driving decarbonisation. It excludes institutions active in other policy domains (e.g. education, health, security, culture) — such as Universities, the NHS,^[7] the Post Office, national museums and galleries, HM Prison Service and several others.

Figure 1: Green Planning Institutions In The UK

Perimeter of entities surveyed and appraised in this study

GREEN PLANNING INSTITUTIONS		
Public sector	Sovereign state	Decarbonisation
Private sector	Devolved nations	Education
Third sector	Local authorities	Health
Others	Others	Others
INSTITUTIONAL CLASSIFICATION	ADMINISTRATIVE LEVEL	POLICY RESPONSIBILITY

Source: Author's analysis.

This methodological choice restricts the sample to a limited number of “most relevant” institutions, with some degree of discretion arising from their varying characteristics. The institutions considered differ in territorial scope: some operate across the entire UK, others across Great Britain, and others still within England and Wales, or England alone. They also vary in ownership structure — some are classified as “public” despite being only partially government-owned. Finally, “green roles” — whether actual or potential — constitute the core mandate of some institutions, while forming only part of the broader remit of others. Nonetheless, the set is sufficiently homogeneous to support valid comparative analysis and classification.

2.2 A taxonomy to identify potential roles for UK green planning institutions

Public institutions in the UK maintain a hierarchical dependence — or other formal relationship — with at least one of the 24 ministerial departments in HM Government. This study considers 93 institutions, linked to 12 ministerial departments. Each surveyed green planning institution can be further classified according to its institutional type, legal status, function and mandate (see Appendix for definitions).

To identify shared functional roles across the long list of institutions, we propose an analytical taxonomy that groups them around four key policy fields: international, macro-financial, cross-cutting and sectoral. Within each policy field, institutions are mapped according to the ministerial department that oversees them.

International:

These are institutions that operate abroad or in relation to international matters — through trade policy, foreign investment screening, development finance, multilateral cooperation, or supply-chain diplomacy — yet with significant implications for the domestic economy. The international dimension is crucial — even the largest economies, such as the US and China, cannot approach green planning in a fully autarkic mode. Clean energy and technology manufacturing is inherently global, and several supply-chain segments display extreme concentration in China, particularly the refining of critical minerals, the manufacturing of solar PV components and the production of battery cells.^[8] This makes importing manufactured equipment an inescapable necessity for a medium-size economy. While international trade in clean energy technologies accounts for roughly 30 per cent of their total value globally,^[9] the UK faces a much higher import dependence. By 2030 this is estimated to reach 47 per cent in battery cells, 99.5 per cent in solar panels, and 100 per cent in most critical minerals (with the sole exception of lithium).^[10]

Macro-financial:

These are institutions responsible for fiscal policy, monetary policy and financial stability. Under a green planning framework, macro-financial policy should enable a higher volume of green investment — both public and private — whether directly, through public spending or indirectly, by shaping the financing conditions that determine the cost and availability of capital for private investors. Global green transition investment and spending reached \$2.3 trillion last year,^[11] though China accounted for over one-third of that, equivalent to more than four per cent of its GDP. In recent years, the UK has outperformed similar European economies (except Germany) in terms of total energy transition investments. In 2025, the UK invested \$85.3 billion (around 2.2 per cent of its GDP). Yet, this was mainly driven by individual consumer spending on purchases of passenger electric vehicles (EVs), while investment in renewable energy (at \$16.9 billion) remained below the level of ten years earlier.^[12] This figure is still significantly short of the £30.9 billion average annual investment required to achieve the Government's plan for clean power by 2030.^[13] Meanwhile, investment in electrification of heating and industry decarbonisation is also expected to rise.

Cross-cutting:

These are institutions whose functions cut across different policy subfields. Under a green planning framework, some would provide analytical inputs, design the plan and oversee its implementation with coordinating powers. Others would play a critical role in mobilising and directing financial resources — particularly important given the need to cover the high upfront capital costs that are especially sensitive to interest rates, as is the case for renewable energy capacity and power grids. A further group would act as “enablers” of green planning, involved in the delivery of public infrastructure, fostering supportive competitive conditions, promoting research and innovation, managing public land and developing the skills required for jobs in the green transition.

Sectoral:

These are institutions directly involved in the sectors where decarbonisation must take place. In descending order of their share of UK total emissions.^[14] These sectors are domestic transport (30.8 per cent), buildings (21.9 per cent), agriculture (12.5 per cent), industry (11.2 per cent), electricity supply (10.2 per cent), fuel supply (7.4 per cent) and waste (5.8 per cent). The UK is also typically a small net source (0.1 per cent) of emissions in land use, land-use change and forestry (LULUCF) — a category that can in principle function as a net “sink” of greenhouse gases. It is worth noting that, although electricity supply accounts for an increasingly marginal share of climate-related emissions (having fallen by 82 per cent in absolute terms since 1990), fostering green electrification is essential to enabling decarbonisation across the full range of emissions-intensive sectors, for instance through the deployment of electric vehicles and heat pumps.^[15] Public institutions operating in the electricity sector are therefore particularly salient to any comprehensive green planning approach.

Within each of these four policy fields, we identify specific potential roles that could be assigned to individual institutions under a future green planning approach

3. International Planning Institutions

3.1 Green planning roles for international institutions

Under a green planning framework, institutions operating at the international level should aim to increase the resilience of clean energy and technology supply chains from the UK's perspective — reducing the country's import dependence while securing the flow of green products needed for domestic deployment.

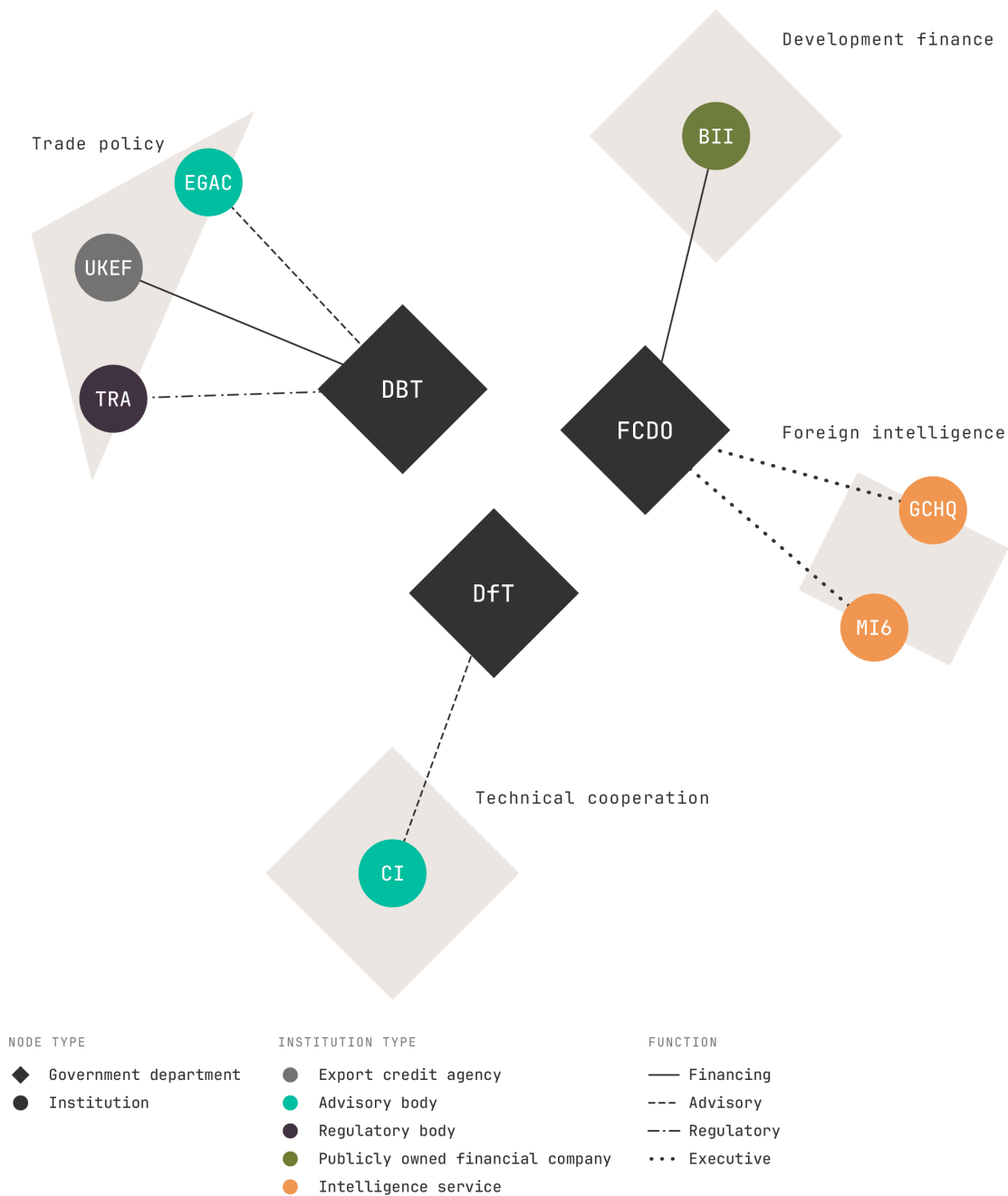
Specifically, they could perform two main roles:

1. Data and information-gathering on global clean technology supply chains: a clear understanding of concentration and potential risk factors within these supply chains is essential for designing resilience strategies that mitigate disruption — whether through diversification of sourcing, stockpiling or the exploration of emerging technological alternatives.
2. Securing access to critical clean energy materials and equipment: given the UK's structural import dependencies, preserving, diversifying and expanding bilateral trade flows — for both finished products and components — is essential to meeting domestic net zero deployment targets and industrial decarbonisation objectives.

3.2 Mapping international institutions

International institutions operate under three ministerial departments: primarily the Foreign Commonwealth and Development Office (FCDO) and the Department for Business and Trade (DBT), and marginally the Department for Transport (DfT).

Figure 2: International Institutions



Source: Author's analysis.

Foreign Commonwealth and Development Office (FCDO)

FCDO works with the two foreign intelligence agencies — Government Communications Headquarters (GCHQ) and the Secret Intelligence Service (MI6) — which could prove instrumental in mapping global clean energy and technology developments as well as in sharing knowledge with international counterparts.^[16]

FCDO also owns British International Investments (BII), the UK's development finance institution, which by statute operates independently of the interests of specific UK

businesses. Nevertheless, BII could help establish commercial and diplomatic channels with recipient countries, particularly where this is directed towards initiatives in clean energy and technology supply chains.

Department for Business and Trade (DBT)

DBT acts at the international level through its remit over trade policy, which it assumed from the Department for International Trade (DIT), when the latter was incorporated in 2023.^[17]

DBT's principal institution, holding ministerial department status, is the export credit agency UK Export Finance (UKEF).^[18] With a maximum exposure limit of £80 billion, UKEF is the largest public financial institution in the UK. UKEF provides insurance to British exporters against non-payment by overseas buyers and extends guarantees to UK banks on loans made to overseas borrowers when purchasing UK goods and services. UKEF itself works in conjunction with the Export Guarantees Advisory Council (EGAC), an expert committee that advises the DBT Secretary of State and the CEO of UKEF on the environmental and climate implications of UKEF's operations.

A DBT-sponsored regulatory body, the Trade Remedy Authority, investigates unfair trade practices affecting UK industries.

Department for Transport (DfT)

DfT controls Crossrail International (CI), a public corporation that advises foreign transport ministries and public transport authorities on how to develop and deliver complex rail infrastructure projects.

3.3 Assessing international institutions

The UK lacks institutions responsible for securing “green imports” and foreign direct investments in clean energy and technology manufacturing

UK international institutions are predominantly “outward-looking”, concerned with the defence or promotion of UK businesses abroad, principally through exports. At present, they are neither actively pursuing inward foreign direct investment in domestic clean energy and technology manufacturing, nor deliberately working to establish bilateral cooperations with other countries — and their principal business players — for the supply of green materials and equipment. The only major exception consists of UKEF's programmes for critical minerals supply — namely the Critical Minerals Supply Finance and Critical Goods Export Development Guarantee — which nonetheless benefit UK exporters exclusively.^[19]

Responsibility for attracting investment sits with DBT and the Office for Investment (see cross-cutting institutions below), with no deliberate differentiation between domestic and foreign investment. This distinction is particularly salient, given that clean energy and technology manufacturing is largely dominated by non-UK players. Moreover, DBT's

international trade mandate includes no specialised function for the “planning” of imports — a role whose potential applications range from stockpiling of solar panels to procuring other key inputs such as critical minerals or battery active materials.

The dispersal of institutional roles across multiple departments is a major obstacle to activating a green planning mandate for international institutions

DBT currently oversees international trade as part of a broad portfolio that is largely focused on domestic issues, while FCDO covers foreign affairs more generally, including the UK’s economic interests abroad. Consolidating these mandates within a new dedicated ministerial department, with an extended remit over international clean energy and technology supply chains, would facilitate green planning in the international domain.

4. Macro-financial Planning Institutions

4.1 Green planning roles for macro-financial institutions

Under a green planning framework, macro-financial institutions should unlock and accelerate greater volumes of green investment.

Specifically, they could pursue three distinct roles:

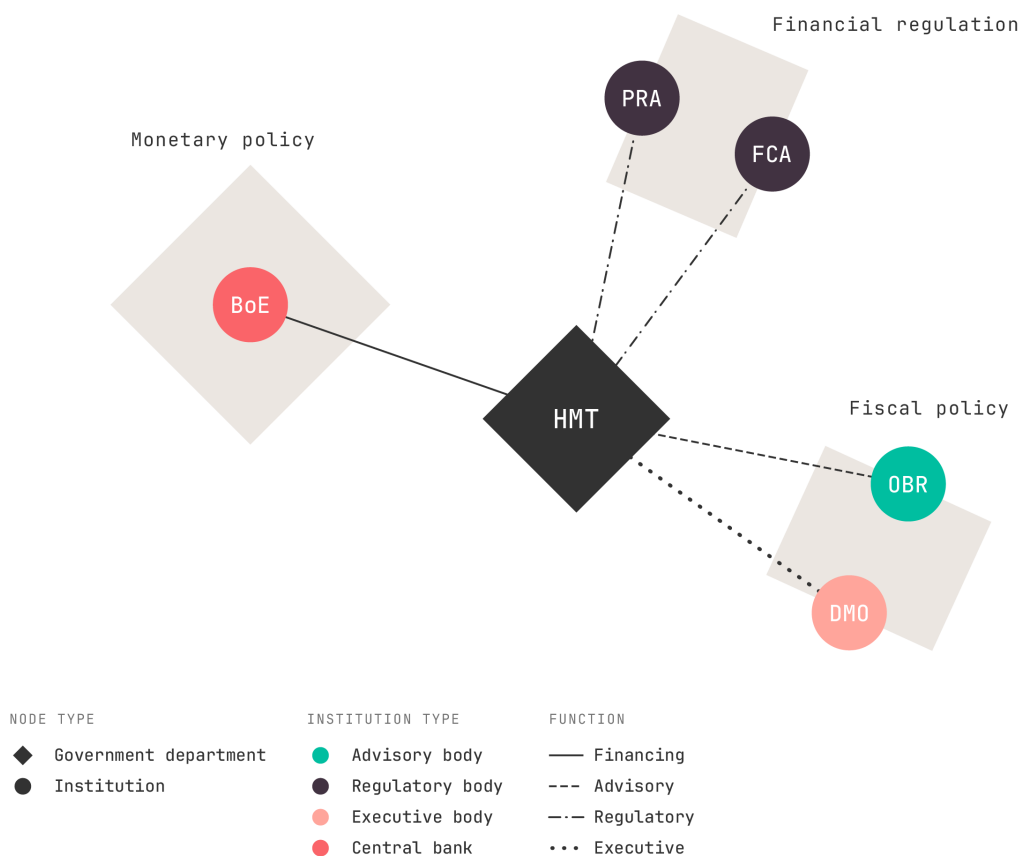
1. Containing the cost of financing for private investment: almost half of global investments in clean energy deployment and manufacturing are debt-financed, with corporate and project finance accounting for more than 90 per cent of total indebtedness.^[20] Given the slim operating margins characterising green industries, higher interest rates and associated financing costs have a significant negative impact on investment decisions. Through monetary policy operations that reduce the cost of borrowing, central banks can ease the financing conditions for private investment in green projects — both manufacturing and infrastructure.
2. Creating fiscal space for additional public investment: fiscal rules and other institutional arrangements determine how much public investment is effectively channelled into clean energy and technology sectors. Fiscal space for green public investment can be obtained by separating capital expenditure from annual budget accounting. This could materialise under fiscal rules that net new borrowing and debt against the creation of revenue-generating assets, or by deconsolidating the assets and liabilities of publicly owned commercial bodies from the government’s overall accounting.
3. Improving financial stability to reduce uncertainty and facilitate long-term productive investments: volatile exchange rates, driven by speculative short-term capital flows, together with a highly-leveraged or under-regulated private financial sector, work

against the long-term orientation of financial resources towards productive investment. Addressing these problems may require a wider monetary policy toolkit, extending beyond conventional regulation and open market operations to include discretionary capital controls and administrative restrictions on the lending operations of financial intermediaries.

4.2 Mapping macro-financial institutions

Macro-financial institutions are clustered around the diarchy of HM Treasury (HMT) and the Bank of England (BoE), the latter formally owned by HMT but operationally independent from it.

Figure 3: Macro-financial Institutions



Source: Author's analysis.

HM Treasury (HMT) and the Bank of England (BoE)

The current arrangement between these two institutions has been in place since the Bank of England Act 1998,^[21] which granted the Bank of England (BoE) full independence from the Government in setting interest rates and taking other monetary policy decisions, while enshrining price stability as the Bank's core mandate. At the same time, the 1998 reform

transferred responsibility for gilt issuance from the Bank to a new executive agency under HMT — the UK Debt Management Office (DMO) — now in charge of debt and cash management.

Since the 1997 Budget, HMT has conducted fiscal policy under targets that constrain borrowing and spending, with the prime objective of containing debt levels. Initially, the new fiscal framework permitted borrowing to fund investment on average over the economic cycle. However, fiscal rules became more stringent with the Fiscal Responsibility Act 2010 under the Brown Government, and were further entrenched under the Coalition Government (2010-2015) with the passing of The Budget Responsibility and National Audit Act 2011, which established the Office for Budget Responsibility (OBR).^[22] The OBR examines and reports on the sustainability of public finances under the framework set out in the Charter for Budget Responsibility. In practice, its forecasts delimit fiscal policy decisions on overall spending and borrowing.

Finally, macroprudential financial oversight rests with the Bank of England's Financial Policy Committee (FPC), which complements the Monetary Policy Committee (MPC) within the Bank's policy architecture. In practice, the MPC sets monetary policy, while the FPC monitors systemic risks to financial stability. Microprudential financial supervision is divided between the Financial Conduct Authority (FCA) and of the Prudential Regulation Authority (PRA), which work respectively with HMT and within the Bank of England. The FCA regulates the broader financial industry in the interests of consumers, while the PRA supervises the operations of major financial institutions — banks, insurance companies and other entities.

4.3 Assessing macro-financial institutions

The UK does not lack the macro-financial institutions needed for green planning. The main incompatibility with green planning objectives lies in their mandates.

Constraining fiscal rules and excessive delegation of powers to the fiscal authority curtail public investment capacity

The current fiscal rules are ill-suited to green planning, as they fail to recognise capital expenditure as fundamentally distinct from current spending. The new fiscal framework introduced in 2024, which targets public sector net financial liabilities (PSNFL) rather than public sector net debt (PSND), created some additional fiscal space by netting out government liabilities against illiquid financial assets.^[23] Moving to a measure of public sector net worth (PSNW) would open further room for public investment manoeuvre through the offsetting weight of non-financial assets — whose definition depends in turn on whether the entity against which financial claims are held is classified as public or private.^[24]

Perhaps more significantly, deconsolidating publicly owned entities of a commercial, revenue-generating nature from the government budget would exclude their borrowing operations — used to finance investment — from classification as public sector liabilities. This is an accounting anomaly peculiar to the UK and at odds with the European System of Accounts (ESA 2010), under which public corporations affect general government accounts only through specific transactional links — such as non-market capital injections, subsidies in the form of current transfers and guarantees called.^[25]

These constraints are reinforced by the role of the Office for Budget Responsibility (OBR). Because fiscal rules are anchored to the path of the debt measure at the end of the forecast window, the OBR's projections effectively determine the space available for new public spending. Under a green planning framework, this arrangement would prove obstructive, since the OBR's projections and recommendations would limit the scope for additional public investment. At present, the OBR exercises an influence on fiscal policy unlike that of any other independent fiscal authority across Europe.^[26] National independent fiscal institutions (IFIs) in the EU monitor and assess the fiscal policy of their respective governments, typically after the annual budget has been approved.^[27] In contrast to the UK, EU finance ministers are not required to justify expenditure decisions that deviate from the projections of their independent fiscal authority.

Monetary policy needs to shift its primary focus away from price stability and towards supporting the financial affordability of green investment

So long as maintaining price stability through interest rates remains the Bank of England's core mandate,^[28] any inflationary episode driven by higher fossil fuel costs will paradoxically hamper capital-intensive green investment, as the BoE will be compelled to raise interest rates. What amounts to a short-term measure to curb inflation through the demand channel can have long-lasting negative effects on supply,^[29] particularly on the green technologies and infrastructures that could structurally prevent fossil fuel-driven inflationary episodes in the first place.

In 2016, the BoE did intervene in the corporate bond market through the Corporate Bond Purchase Scheme (CBPS)^[30] — partly with the aim of discretionally favouring “green assets” — total purchases were limited to just under £20 billion and began to unwind in September 2022.^[31] Targeting corporate “green bonds” purchases and adopting a monetary policy of permanent lower interest rates — the “euthanasia of the rentier” as championed by Keynes in the final chapter of his *General Theory*^[32] — would ease overall lending costs and stand as central features of the Bank's role within a green planning framework. Lower interest rates would also reduce government borrowing costs, thereby creating greater fiscal space for additional public investment.

5. Cross-cutting Planning Institutions

5.1 Green planning roles for cross-cutting institutions

Under a green planning framework, these institutions would be responsible for a range of cross-cutting functions: preparing the overall plan and coordinating its implementation, financing the related investment initiatives and enabling the conditions for its delivery.

Specifically, they could play the following related roles:

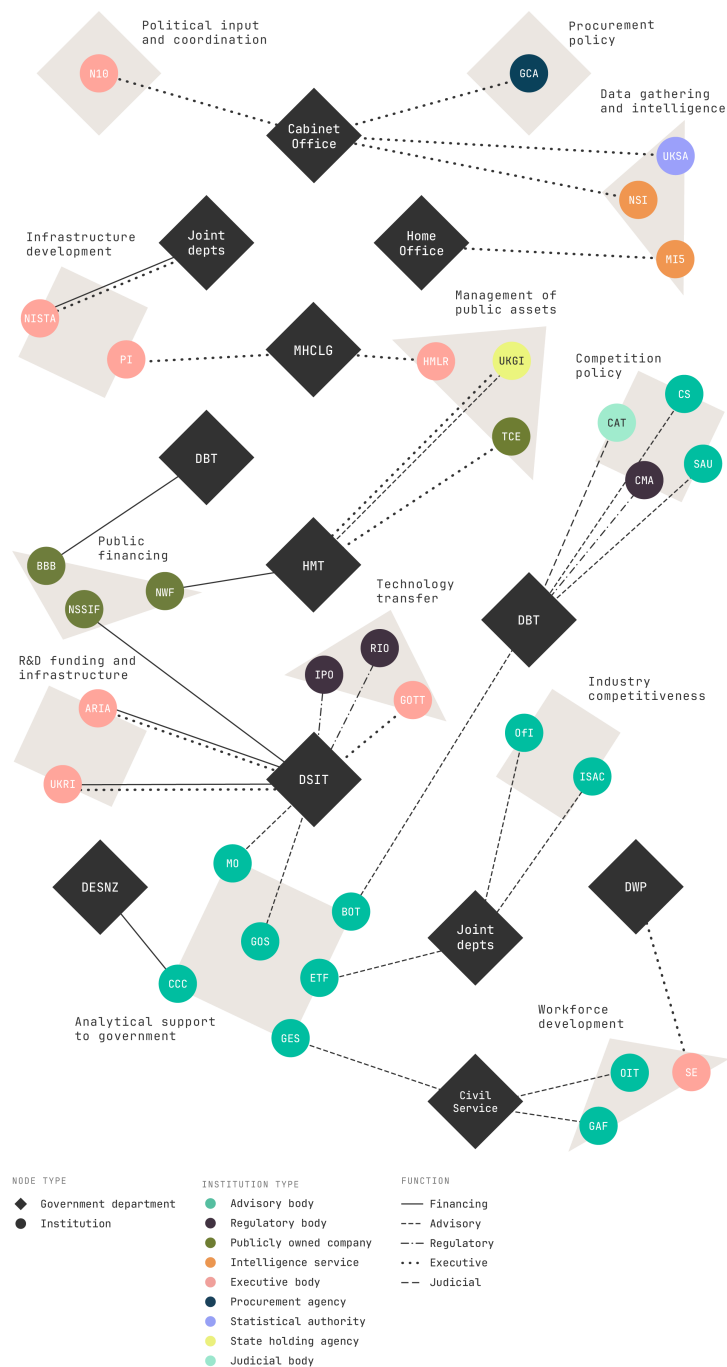
1. Data collection and analysis: Nobel laureate economist Wassily Leontief argued that economic planning depended on the widespread adoption of “data-gathering and data-handling techniques”.^[33] In his view, data-gathering institutions could bridge the gap between planners and experts with specialised technical knowledge. For modern green planning, compiling quantitative macroeconomic and industry data is as important as gathering and elaborating qualitative information on market dynamics, technological trajectories and business practices.
2. Design, coordination and implementation of the plan: green planning requires elaborating a plan that combines objectives and associated targets entrusted to dedicated actors. Several specialised entities could cooperate to this end, but the planning function necessarily implies a degree of centralisation — a single overarching entity must process bottom-up inputs, synthesise them into the actual plan, supervise and coordinate the actors responsible for its implementation.
3. Mobilisation and orientation of public financing: investments in renewable energy generation and clean technology manufacturing are associated with low and uncertain returns, in the absence of supportive policy schemes.^[34] This makes it difficult for profit-oriented private financial entities to direct the necessary volume of financing towards needed investment projects when alternative uses exist.^[35] For this reason, policy-oriented public financing entities, less constrained by the liquidity preference and free from the imperative of maximising returns, can play a market-shaping role in enabling productive investment.^[36] Operating under a portfolio approach, with a longer-term orientation and a far greater risk appetite, they can provide genuine additionality of financial resources. They can also exert influence over the terms on which returns are recouped — shaping pricing structures, repayment schedules and the conditions attached to financing in ways that align with public objectives.
4. Responsibility over enabling conditions: the successful implementation of green planning relies on putting in place a set of essential conditions,^[37] including:
 1. Delivery of public infrastructure.
 2. Effective management of competition.
 3. Support for technological innovation.
 4. Policy-oriented destination of public land.

5. Development of skills for clean energy-related jobs.

5.2 Mapping cross-cutting institutions

The landscape of cross-cutting institutions is varied, spanning the Civil Service and nine ministerial departments (with joint-units): the Cabinet Office, the Home Office, HM Treasury, the Department for Business and Trade (DBT), the Department for Science, Innovation & Technology (DSIT), the Department for Energy Security and Net Zero (DESNZ) and the Department for Work and Pensions (DWP).

Figure 4: Cross-cutting Institutions



Source: Author's analysis.

The Cabinet Office and the Home Office

The Cabinet Office — with its direct political emanation in the Prime Minister's Office — oversees entities of various kinds. Data-gathering and intelligence institutions — respectively the UK Statistics Authorities (supervising the Office for National Statistics, ONS) and National Security and Intelligence — fall under the Cabinet Office, unlike the Security Service (MI5), which collaborates with the Home Office. The Cabinet Office also sponsors the UK's central public procurement body — the newly-established Government Commercial Agency (CGA).

HM Treasury (HMT)

HMT oversees the key institutions for green planning operating at the cross-cutting level: the National Wealth Fund (NWF), UK Government Investment (UKGI) and The Crown Estate (TCE).

The National Wealth Fund (NWF) was created in 2024 from the renaming and repurposing of the previous UK Infrastructure Bank (UKIB), itself established in 2021 to substitute for the role the European Investment Bank (EIB) had played in the UK before Brexit. Although smaller in scale than comparable public financing institutions across Europe,^[38] the NWF is the UK's largest policy bank operating domestically, with £27.8 billion of allocated capital. It provides finance to UK businesses through loans, guarantees and equity instruments. The NWF has a distinct mandate to support the government's Industrial Strategy, focusing also on clean energy.^[39]

UK Government Investment (UKGI) is the holding entity that acts as “shareholder representative” on behalf of the UK government for its publicly owned companies. UKGI's portfolio covers 26 organisations — including several of the institutions surveyed here (e.g. NWF, GB Energy, NESO, GBR, UKEF, etc.) — on behalf of nine government departments, employing over 109,000 people and generating around £25 billion of gross income.^[40] UKGI monitors the performance of these assets through agreed key performance indicators (KPIs). While it does not set policy priorities for the companies in its portfolio, it engages with senior management and appoints a UKGI executive to the board of wholly owned companies.

Finally, HMT works with The Crown Estate (TCE), the public corporation in charge of managing the portfolio of public buildings, land, seabed and other areas of the UK territory. Due to the relevance of space and land costs in clean energy development projects, TCE plays a key role in facilitating investment initiatives — both onshore and offshore. For this reason, TCE entered into a partnership with GB Energy (see section below) on the day its establishment bill was introduced.^[41]

Department for Business and Trade (DBT)

In the domestic context, DBT is responsible for driving economic growth by delivering on the new Industrial Strategy.^[42] To this end, it is advised by the newly established Industrial Strategy Advisory Council (ISAC) — jointly sponsored with HMT — and by the Board of Trade, though the latter has met only once per year since 2023 and ceased producing reports at the end of 2022.

DBT has one direct policy instrument in the form of the British Business Bank (BBB), a publicly owned bank specialised in providing financing to smaller businesses (SMEs), with invested assets of just under £4.7 billion 2024/25.^[43] The BBB currently operates under a broad cross-sectoral mandate with no discretionary focus on green sectors, with the exception of a recently launched pilot guarantee scheme for green assets (Green GGS).

DBT also holds responsibility for competition policy through the Competition and Markets Authority (CMA) — and its advisory body, the Subsidy Advice Unit (SAU) — alongside other supporting entities, namely the Competition Appeal Tribunal (CAT) and the Competition Service (CS).

Department for Science, Innovation & Technology (DSIT)

DSIT promotes research and technological innovation principally through UK Research and Innovation (UKRI), the central institution for innovation policy in the UK, with an allocated budget of £8.8 billion in 2025/26.^[44] UKRI operates primarily by allocating grants to R&D projects, but also through procurement programmes such as “Contracts for Innovation”, run by its subsidiary Innovate UK. Additionally, UKRI funds the Catapult Network, a national R&D infrastructure for technology transfer in specific areas (see sectoral institutions below). A separate but considerably smaller entity, Advanced Research and Invention Agency (ARIA), with £184 million allocated in 2025/26, was established in 2023, to fund breakthrough R&D in underexplored and more innovative areas.

DSIT oversees public financing instruments, such as the National Security Strategic Investment Fund (NSSIF), a deep-tech venture capital fund owned by British Technology Investments — the corporate venturing arm of the BBB.

Further executive agencies under DSIT are involved in technology transfer (Government Office for Technology Transfer, GOTT) and the provision of weather and climate-related services (Met Office). DSIT also supervises regulatory agencies dealing with intellectual property rights (Intellectual Property Office, IPO) and the commercialisation of new technologies (Regulatory Innovation Office, RIO).

The Government Office for Science (GO-Science), a DSIT advisory body, provides advice to the Cabinet Office and the Prime Minister on science-related decisions.

Ministry of Housing, Communities & Local Government (MHCLG)

The MHCLG institutions most relevant to green planning are the Planning Inspectorate and HM Land Registry.

The Planning Inspectorate is an executive agency that deals with “planning”, as currently understood within the work of Local Planning Authorities, primarily in relation to urban and infrastructure development. Crucially, it provides the application process for Nationally Significant Infrastructure Projects (NSIPs),^[45] including new power generating facilities.

The HM Land Registry records transactions on property covering more than 90 per cent of land mass of England and Wales, valued at around £9 trillion. It plays a critical administrative role in any transfer of land ownership, including for commercial activities.

Department for Energy Security and Net Zero (DESNZ)

Cross-cutting institutions also include the DESZN-sponsored Committee of Climate Change (CCC), which advises the government on emissions targets and reports to Parliament on the progress in greenhouse gas emission reduction.

Department for Works and Pensions (DWP)

DWP sponsors an executive agency, Skills England, which focuses on identifying and addressing skill gaps in the economy, working in partnership with employers across England.

Joint-departmental supervisions

The Cabinet Office works closely with HMT, sharing oversight of advisory bodies and executive agencies such as the Evaluation Task Force (ETF) and the Office for Investment (OfI) — the latter formally part of DBT. The OfI is responsible for attracting “transformational” investment across the UK.

The Cabinet Office and HMT also collaborate through the National Infrastructure and Service Transformation Authority (NISTA), which supports government departments in delivering major strategic infrastructure projects.

The Civil Service

Several specialised units within the Civil Service perform advisory functions across ministerial departments. The Open Innovation Team operates as an in-house consultancy for civil servants seeking external advice. Analytical support across ministerial departments is provided by the Government Analysis Function and by the Government Economic Service (GES).

5.3 Assessing cross-cutting institutions

An overabundance of advisory and regulatory bodies, too few well-resourced executive ones

The list of cross-sectoral institutions with a potential role in green planning is extensive, though the vast majority are confined to regulatory and advisory functions. Only a few have the capacity to initiate and deliver funded operations at scale — most notably The Crown Estate. Other exceptions include executive bodies within the innovation and environmental clusters.

In other cases, institutions lack the resources to achieve transformational impact. For instance, Government Commercial Agency (GCA) — formerly the Crown Commercial Service (CCS) — handles only a limited share of overall government procurement: £30.3 billion out of £340.9 billion total public sector procurement in 2023/24.^[46]

HMT dominates key institutions, leaving limited scope for non-financial policy mandates

The relegation of the key cross-cutting institutions — The Crown Estate, UKGI and the NWF — under the sole control of HMT is problematic within the current fiscal framework centred on strict budgetary discipline.

In several European countries, the finance ministries are the ultimate controlling authorities of state property holdings, industrial asset-holding entities and state investment banks — though other policy interests are also institutionally represented. For instance, Germany's gargantuan public investment bank, KfW, is jointly supervised by the Federal Ministry of Finance and the Federal Ministry for Economic Affairs and Energy.^[47] In France, a “super” Ministry of the Economy — with responsibility for finance, industry and energy policy — oversees the largest state-holding entity in Europe, the Agence des participations de l'État (APE). APE does not only “act as a shareholder representative” for France's publicly owned companies, it “embodies and carries out the missions of the shareholding State”, including energy independence and decarbonisation.^[48]

Ultimately, sharing oversight of key public financing and state-holding bodies across multiple ministerial departments would help ensure that these institutions are aligned not only with fiscal priorities but also with the broader industrial and energy policy objectives of the “green plan”.

Cross-departmental coordination is almost absent

Only a few institutions operate across departmental boundaries on cross-cutting issues. These are the advisory bodies linked to the Civil Service and four other joint units: OfI (HMT, N10 and DBT), ETF (HMT and Cabinet Office), NISTA (HMT and Cabinet Office) and ISAC (HMT and DBT). The remainder are currently centred on delivering a sector-specific or even institution-specific mandates.

Although misleadingly focused on “growth” rather than on solving specific challenges,^[49] the mission-oriented model of policymaking embraced by the current Labour government should entail a degree of cross-departmental coordination. Yet no formal mechanism aligns public institutions around shared actions. This is partly explained by the absence of a superior coordinating entity responsible for overseeing the implementation of the missions.

Some institutions have mandates that do not fully align with a green planning approach

The Government Commercial Agency (GCA) operates without a green procurement focus, despite the leverage that such a demand-side policy tool could exert on domestic clean energy supply chains. Competition institutions — and the legislation governing them — leave little room for discretionary public support or the creation of dominant national champions through strategic mergers, even where these would be instrumental in building domestic manufacturing capacity in clean energy. National planning institutions, meanwhile, operate under an adversarial model in which new infrastructure proposals must clear excessively defensive hurdles before approval.^[50]

6. Sectoral Planning Institutions

6.1 Green planning roles for sectoral institutions

Under a green planning framework, these institutions would be directly involved in delivering the overall objectives of the plan. Given their specific areas of activity, their contribution would vary according to sector and type of entity.

Specifically, these institutions would be responsible for:

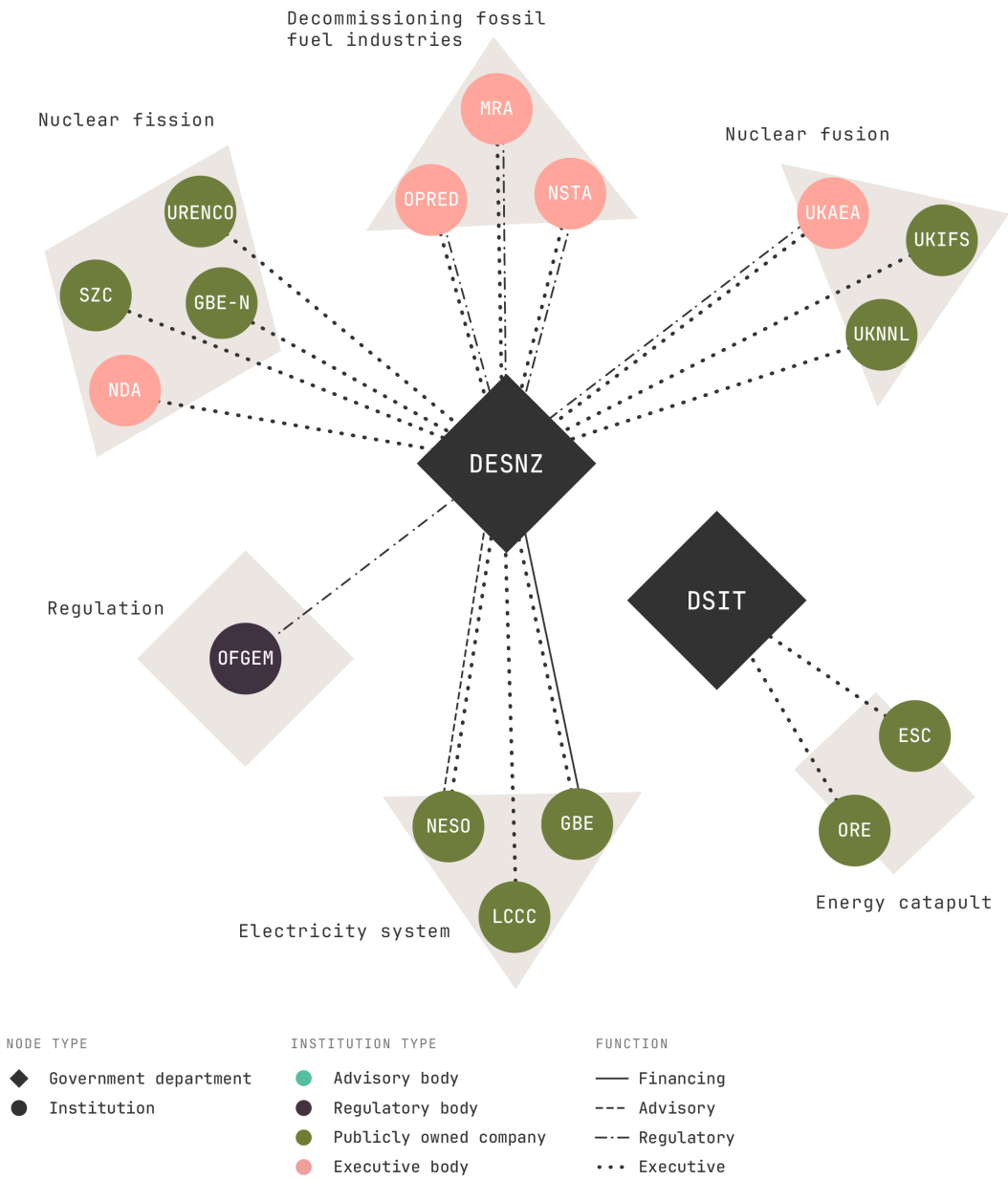
1. **Setting policy targets:** these would primarily concern emissions reduction, but for several executive institutions would also encompass “physical” targets — such as the volume of renewable energy generation, the number of heat pumps installed, the number of passengers using public transport, savings on gas consumption and so on.
2. **Implementing decarbonisation programmes:** these institutions would be directly responsible for delivering programmes with a measurable decarbonisation impact in their respective fields.
3. **Carrying out investment initiatives:** executive institutions would be responsible for designing and delivering transformational investments, either independently or in partnership with private sector actors.

6.2 Mapping sectoral institutions

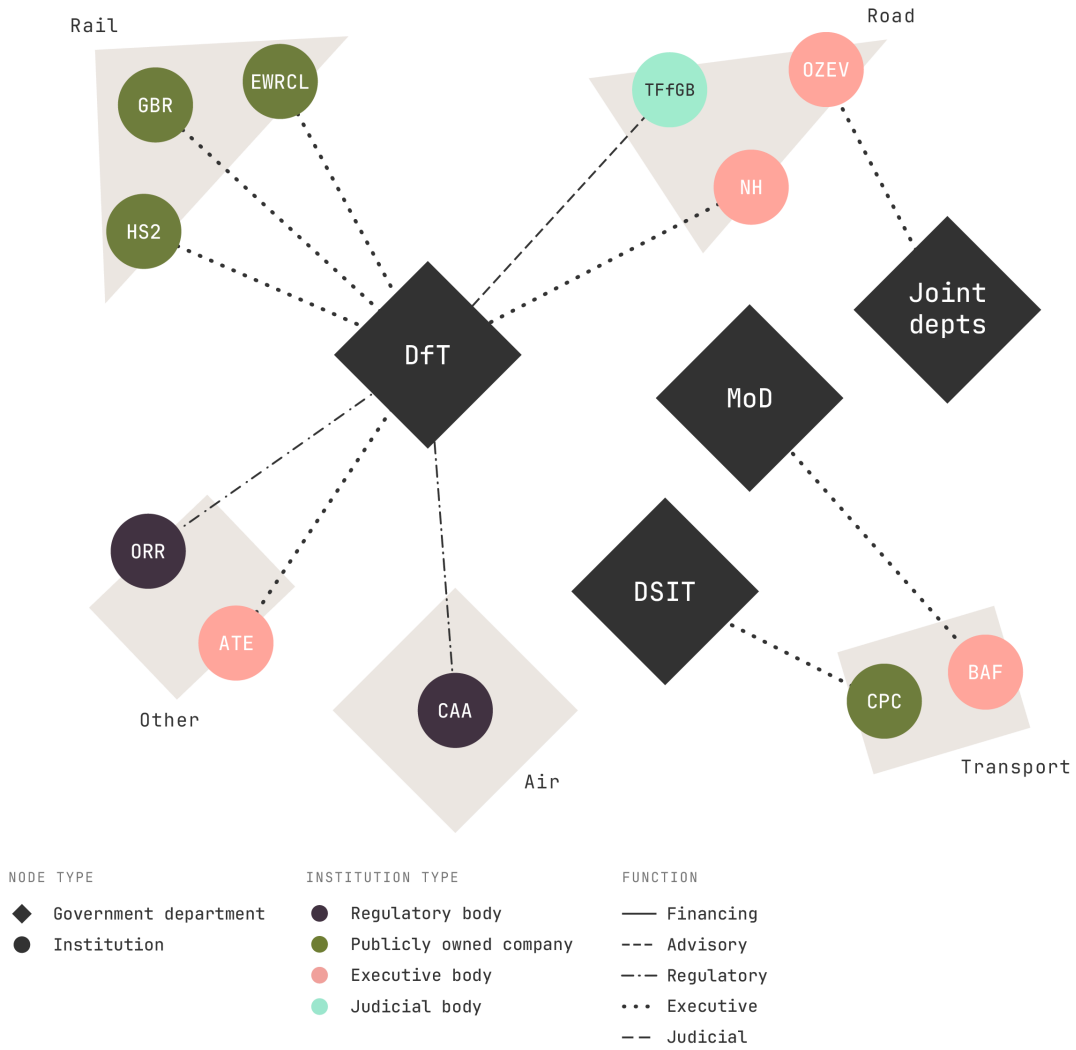
The great majority of sectoral green planning institutions operate under the auspices of the Department for Energy Security and Net Zero (DESNZ) and the Department for Transport (DfT). The former oversees the decarbonisation of electricity supply, while the latter holds responsibility for sustainable mobility and transport infrastructure. The decarbonisation of residential buildings falls under the Ministry of Housing, Communities and Local Government (MHCLG), while institutions operating within the Cabinet Office cover public sector buildings, which account for 11 per cent of total emissions in buildings. The Department for Environment, Food and Rural Affairs (DEFRA) is responsible for agriculture and waste. The Ministry of Defence (MoD) accounts for the largest share of emissions within the public sector, with decarbonisation responsibilities spanning multiple areas. The Department for Work and Pensions (DWP) sponsors institutions that promote sectoral decarbonisation skills. Beyond these departments, a group of sectoral Catapults — which fall under UKRI, sponsored by DSIT — form a further set of relevant bodies. Notably, the Department for Business and Trade (DBT) has no significant sectoral institution of its own that is directly involved in decarbonisation.

Figure 5: Sectoral Institutions

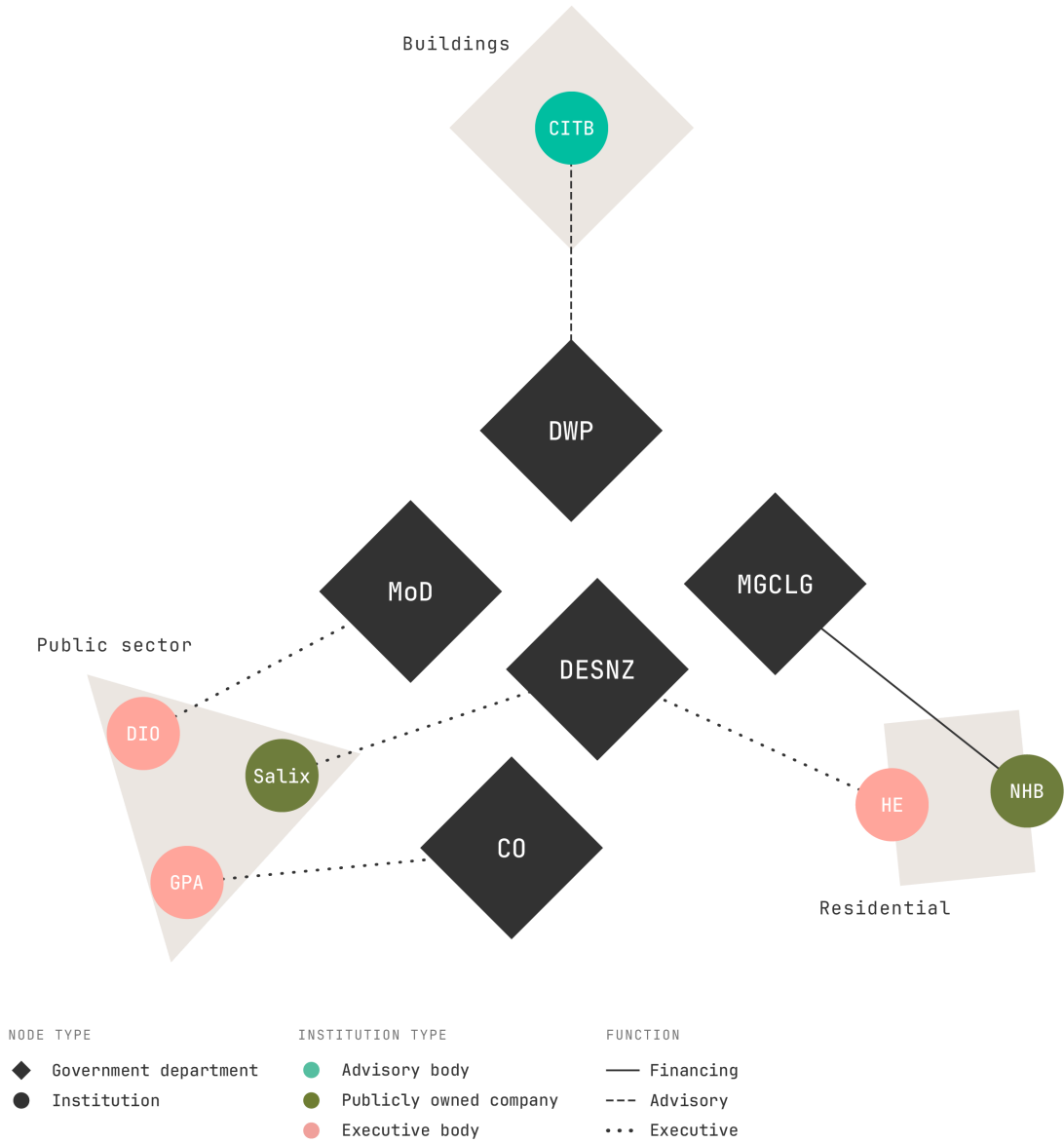
ENERGY

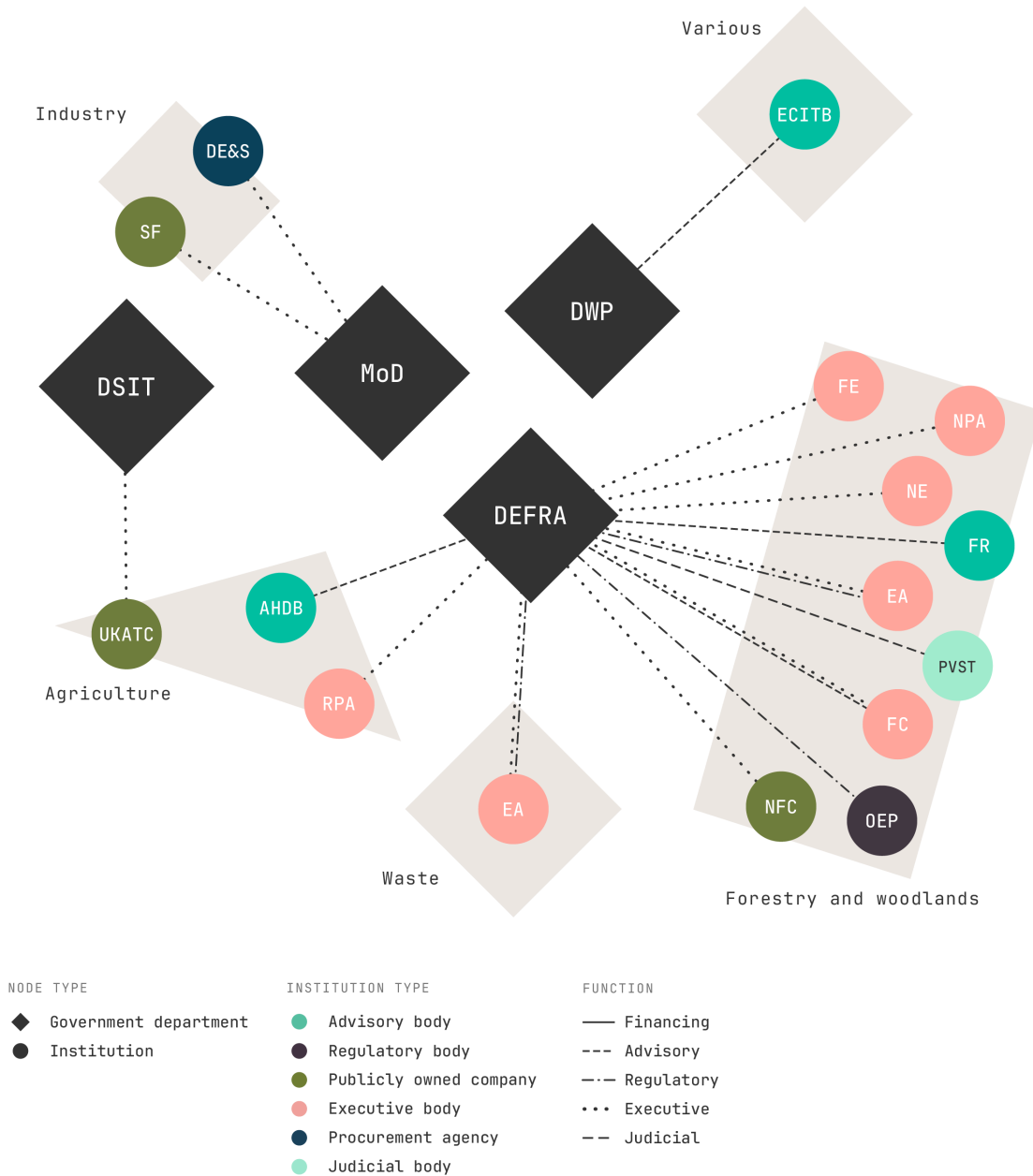


TRANSPORT



BUILDINGS





Source: Author's analysis.

Department of Energy Security and Net Zero (DESNZ)

DESNZ collaborates with a range of institutions operating across different areas: nuclear fission, nuclear fusion, electricity system, energy efficiency, fossil fuel decommissioning and regulation of the energy system.

Nuclear fission. DESNZ sponsors GB Energy — Nuclear (GBE-N), a project developer for new nuclear initiatives, focused on Small Modular Reactor (SMR) technology. The department holds significant stakes in two companies operating in the sector: Sizewell C (45 per cent government-owned), which is responsible for constructing the UK's largest nuclear power plant (3.2 GW of nameplate capacity) in Suffolk; and Urenco (33 per cent

government-owned), which supplies uranium enrichment services and fuel cycle products. The decommissioning of closed nuclear power falls under the remit of the Nuclear Decommissioning Authority (NDA).

Nuclear fusion. DESNZ supports nuclear fusion projects through the UK Atomic Energy Authority (UKAEA), which is responsible for research and delivery in the field, including through UKAEA's subsidiary UK industrial Fusions Solutions (UKIFS), a company leading the designing and building of the UK's first prototype fusion energy plant. DESNZ also has a role in nuclear fusion research and innovation — external to DSIT's orbit — through the United Kingdom National Nuclear Laboratory (UKNNL), a public corporation.

Electricity system. Beyond nuclear power, the UK government has only recently reintroduced publicly owned policy levers to intervene in the broader electricity sector, after the full privatisation that took place following the Electricity Act 1989. The first such instrument is the Low Carbon Contracts Company (LCCC), a company wholly owned by DESNZ and funded by a compulsory levy on all licensed electricity suppliers in Great Britain. LCCC was established in 2014 to manage contracts with low-carbon electricity generators under the price-fixing mechanism known as Contracts for Difference (CfD). The LCCC is also responsible — via the Electricity Settlements Company (ESC) — for managing all financial transactions and associated settlement functions under the Capacity Market (CM). Second, following the Energy Act 2023, the National Energy System Operator (NESO) was created in 2024 as a public corporation, through the spin-off of the electricity system operator function previously performed by National Grid — Great Britain's private owner of the electricity transmission network. NESO was subsequently assigned responsibility for planning future electricity and gas networks, as well as advisory functions relating to net zero objectives. The most recent development in the electricity sector is GB Energy, the publicly owned energy company established by the Labour Government in 2025 with a capital endowment of £8.3 billion over the current parliament. GB Energy was conceived primarily as a developer and operator of clean energy generation assets.^[51] Its other mandates include the promotion of local and community energy projects under the Local Power Plan (LPP), and support for domestic clean energy manufacturing.

Energy efficiency of public sector buildings. Through its wholly owned company Salix Finance, DESNZ currently delivers funding for energy efficiency improvements and emissions reduction across public sector entities. In 2024-25, Salix Finance awarded grants for a total value of £4.6 billion.^[52] From 2027, a new executive agency — the Warm Homes Agency (WHA) — will assume cross-cutting responsibilities for energy efficiency and building decarbonisation, consolidating Salix Finance and selected functions of the energy regulator, Ofgem (see below).

Decommissioning of fossil fuel industries. DESNZ oversees the decommissioning of fossil fuel industries in the UK through three bodies: the North Sea Transition Authority (NSTA), the Mining Remediation Authority and the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED).

Regulation of the energy system. The Office of Gas and Electricity Markets (Ofgem) was established in 2000 through the merger of Offer (the Office of Electricity Regulation) and Ofgas (the Office of Gas Supply) — the two sectoral regulators originally established at the time of privatisation. Ofgem is the licensing authority for the energy sector; it regulates the monopoly companies that run the gas and electricity networks, sets caps on domestic energy bills and supports industries in meeting their environmental obligations.

Department for Transport (DfT)

Institutions supervised by the Department for Transport (DfT) cover the three main modes of domestic transport: rail, road and air.

Rail transport: in this area, DfT operates through publicly owned companies such as High Speed Two (HS2) Limited and East West Railway Company Limited to develop new railway lines. Great Britain's railway infrastructure is managed by Network Rail, an executive non-departmental public body, soon set to become a subsidiary of the future publicly owned Great British Railways (GBR). GBR will also incorporate DfT Operator, a public corporation acting as a holding company for government-owned train service operators. DfT Operator effectively functions as a “nationalising” agency on behalf of the future GBR, with ten major rail operators already under its control (as of April 2026) and a further six still to be added by 2027, when GBR will be fully established. GBR will bring passenger services, infrastructure provision, network management, fares and ticketing into a single organisation — though it will not own rolling stock, which will continue to be leased from privately-owned Rolling Stock Companies (ROSCOs), nor will it operate all passenger services, since open-access operators will continue to run trains alongside it.^[53] Freight operators will remain entirely private, though GBR will have a statutory duty to promote rail freight.

Road transport: DfT manages England's network of motorways and major A-roads through National Highways, an executive non-departmental public body responsible for the planning, construction and maintenance of that network. A DfT tribunal, the Traffic Commissioners for Great Britain, oversees the licensing and regulation of operators of heavy goods vehicles, buses and coaches and the registration of local bus services.

Air transport: the principal national public institution operating in the field of air transport is the Civil Aviation Authority (CAA), a public corporation in charge of regulating aviation safety, airspace use and major UK airports.

Others: Active Travel England, an executive agency, promotes walking, wheeling and cycling as the preferred modes of transport across England. Responsibility for the regulation of rail and road lies with the Office of Rail and Road (ORR) and will remain so even after GBR is fully established.

Ministry of Housing, Communities & Local Government (MHCLG)

Residential Buildings. Homes England, an executive non-departmental public body sponsored by MHCLG, serves as the government's main agency for housebuilding and housing regeneration. Its primary instrument is grant funding for affordable housing delivery, which totalled £3.29 billion in 2024/25.^[54] Homes England is expected to provide £30 billion grants over the next decade. Since November 2025, this has been complemented by the National Housing Bank — a public financing institution wholly owned by Homes England, supporting housing delivery through debt, equity and guarantee instruments, with an anticipated deployment of £16 billion over the same period.^[55]

Cabinet Office

Public sector buildings. The Government Property Agency (GPA), a Cabinet Office executive agency, is the largest owner of public sector buildings and therefore bears major responsibility for their decarbonisation. Given its extensive property portfolio, the GPA could play a direct role in decarbonising the energy use of public sector buildings — which account for 10.9 per cent of total emissions in the buildings sector. To that end, the GPA has launched a Net Zero Programme, investing in energy measures across its portfolio, primarily through the installation of on-site solar panels.

Department for Environment, Food & Rural Affairs (DEFRA)

The most significant DEFRA institution is the Environment Agency, with over 13,000 employees and a £2.3 billion budget in 2025. Founded in 1996, it covers a wide range of statutory duties relating to the protection of the environment, the regulation of industry and waste management, water quality, inland navigation, conservation and others.

Agriculture. DEFRA implements its agricultural policy primarily through the Rural Payments Agency (RPA), an executive agency responsible for distributing over £2 billion in subsidies to support England's farming and rural communities. Research, market intelligence and promotional activity aimed at helping British farmers improve performance and develop their markets are carried out by the Agriculture and Horticulture Development Board, a DEFRA-sponsored executive non-departmental public body.

Waste. At the national level, the Environment Agency serves as the principal waste regulator — enforcing waste management legislation, licensing waste sites and carriers and advising both government and businesses on waste management practices. Operational waste collection and disposal remain the responsibility of local authorities.

Land use and forestry. DEFRA operates through various specialised institutions at the local level, including the ten National Parks in England, each supervised by a park authority, and the National Forest Company (NFC), a DEFRA-owned company involved in reforestation across the Midlands. An executive non-departmental public body, Natural England, is responsible for the conservation and restoration of the natural environment.

DEFRA also supports the creation and management of woodlands through executive agencies working with the Forestry Commission, a non-ministerial department. These are Forestry England, the country's largest land and tree manager, and Forest Research, the main research organisation in Great Britain on forestry matters. A regulatory agency, the Office for Environment Protection (OEP), holds the government and other public authorities to account on environmental matters. Lastly, the Plant Varieties and Seeds Tribunal (PVST), a judicial body of DEFRA, establishes legally binding rules regarding the national registration of new plant varieties, UK plant variety rights and selected forestry issues.

Ministry of Defence (MoD)

Military decarbonisation. The British Armed Forces are responsible for 50 per cent of UK central government CO² emissions and one per cent of total UK emissions.^[56] The majority of these arise from military aviation, naval operations and energy use in military buildings. The MoD operates through two institutions with a direct bearing on the military carbon footprint: the Defence Equipment and Support (DE&S), which oversees military procurement and logistics, and Defence Infrastructure Operation (DIO), which is responsible for the construction and maintenance of military buildings.

Industry decarbonisation. The MoD also plays an indirect role in industrial decarbonisation through Sheffield Forgemasters, a public corporation that produces, among other things, specialised steel products for military applications.

Department for Work & Pensions (DWP)

Sectoral decarbonisation skills. The Department for Work & Pensions (DWP) sponsors two sectoral training entities — the Construction Industry Training Board (CITB) and the Engineering Construction Industry Training Board (ECITB) — working with employers and companies to develop the technical skills of workers in the construction and engineering construction industries respectively.

Joint-departmental units

Road transport. The Office for Zero Emission Vehicles (OZEV), a joint unit of DESNZ and DfT, supports the uptake of plug-in vehicles and funds the rollout of charge point infrastructure across the UK.

Catapult Network (UKRI)

Research and innovation in sectoral decarbonisation. The Catapult Network is a public R&D infrastructure comprising specialist centres focused on different sectoral research areas. The Offshore Renewable Energy Catapult is the UK's leading centre for research and technological innovation in offshore renewable energy. The Energy Systems Catapult focuses on energy innovation for businesses, buildings and energy networks. The Connected Places Catapult promotes innovation in transport and construction, with a particular emphasis on decarbonisation. Lastly, UK Agri-Tech Centre serves as the national hub for the development and adoption of agri-tech innovation.

6.3 Assessing sectoral institutions

Rail renationalisation opens a clear opportunity for green mobility planning, but no comparable institutions exist for road or air transport

If adequately funded and managed, GBR could play a significant role in transport decarbonisation — both by substituting for journeys made by private vehicles and by electrifying railway lines. Electrification currently extends to only 39 per cent of total route length, though 70 per cent of the 15,348 railway vehicles for passenger are electric,^[57] and electric trains account for a substantially higher share of passenger journeys given their greater speed and capacity. GBR could also serve as the demand coordinator of an integrated supply chain spanning rail tracks, signalling systems and rolling stock — if permitted to own them.^[58]

There is, however, no equivalent of GBR for buses — despite one having existed between 1969 and 1988 in the form of the publicly owned National Bus Company (covering England and Wales) and the Scottish Bus Group (operating in Scotland). Under a green planning approach, a national bus company could foster public transport use, reducing dependence on private vehicles and the emissions associated with them. At the same time, it could become a demand-side instrument for promoting domestic manufacturing of electric buses, much as Chinese publicly owned local bus companies deliberately did in the mid-2010s.^[59]

At present, the decarbonisation of road transport is left largely to individual passengers — through the adoption of electric vehicles, supported by funding schemes for private purchasers and by private-sector charging infrastructure. No public institution coordinates this transition with the UK automotive supply chain, raising the risk that domestic manufacturing capacity will be eroded in favour of imported EVs.^[60]

Virtually no public institutions operate in air transport, with the exception of the regulatory body — the CAA. All major UK airports are privately-owned, save for Manchester, London Stansted and East Midlands — all owned by the Manchester Airports Group.^[61] This contrasts with other countries, such as France and especially Germany, where central and local governments are often the controlling shareholders. Since the privatisation of British Airways in 1987, the UK has also had no publicly owned airline, whereas public ownership of flag carriers remains common worldwide, including in Portugal, Finland, France, Italy, Poland and elsewhere across Europe.

Decarbonisation of buildings risks being impeded by fragmentation across territorial entities and ministerial departments

Since housing is a devolved matter, Westminster-controlled public institutions such as Homes England operate only in England. Even government funding programmes for installation of residential heat pumps — such as the Boiler Upgrade Scheme and the

Social Housing Decarbonisation Fund — are limited to England and Wales.^[62] In the absence of coordination and common standards, the proliferation of institutions and funding schemes could hinder the ability of specialised businesses to deliver building and renovation projects efficiently across the UK.^[63]

More significant still is the fragmentation of institutions and policies around residential decarbonisation. At present, Homes England's contribution to decarbonisation comes primarily through the energy performance standards it sets for the homes it funds and the land it develops, rather than through retrofit grants. Retrofit funding — including for heat pump installations — is managed by DESNZ and is expected to be delivered by the Warm Homes Agency (WHA), the new public body due to be established in 2027, as part of the £15 billion Warm Homes Plan.^[64]

The decarbonisation of public sector buildings is hampered by a similar dispersion of responsibilities across separate entities and ministerial departments. DESNZ runs the Public Sector Decarbonisation Scheme through Salix Finance, though this function will be consolidated into the WHA upon its creation. Civil government buildings fall under the Cabinet Office through the GPA, while military buildings are managed separately by the Ministry of Defence through the DIO. Greater centralisation and coordination would be essential for executing future decarbonisation plans at scale.

Absence of public institutions to decarbonise agriculture

Only a limited number of public institutions are involved in the decarbonisation of the agricultural sector, despite accounting for the third-largest share of national emissions. Moreover, those that do exist lack a distinct decarbonisation mandate and are inadequately funded to deliver one.

The UK electricity sector remains largely fragmented and privately owned, limiting the scope for effective implementation of planning blueprints

Measured against the scale of investment and reform needed to transition the electricity sector, the newly introduced public entities remain blunt weapons. Notably, NESO elaborates plans for energy generation, transmission grids and distribution networks — respectively the Strategic Spatial Energy Plan (SSEP), the Centralised Strategic Network Plan (CSNP) and various Regional Energy Strategic Plans (RESPs). But the fulfilment of those blueprints remains largely in private — mostly foreign — and fragmented hands, which operate pursuing primarily their own individual financial interests.^[65] GB Energy will remain a marginal player, given its small financial scale and its exclusion from operating in the retail segment.^[66]

Moreover, the recent introduction of new public entities — with distinct policy responsibilities — has increased the fragmentation of the electricity sector, hampering efforts towards a more efficient centralisation of policymaking in this field. In the end, an electricity system dominated by the financial interests of privately owned players is difficult

to reconcile with the imperatives of higher investment in renewable capacity and lower energy costs.^[67]

Industrial decarbonisation is split between ministerial departments and lacks executive institutions to deliver on strategies

The most recent comprehensive Industrial Decarbonisation Strategy was published in March 2021 by what was then the Department for Business, Energy & Industrial Strategy (BEIS), before it was split into DESNZ and DBT.^[68] The current division of roles between the two departments regarding industry decarbonisation remains unclear. DESNZ is responsible for the Carbon Budget and Growth Delivery Plan^[69] and oversees major funding initiatives for investment in carbon capture, usage and storage (CCUS) projects ultimately aimed at decarbonising cement and lime production.^[70] DBT, meanwhile, has recently launched The UK Steel Strategy, which sets out provisions for the transition to green steel.^[71]

Both departments, however, confine themselves to designing sector-specific decarbonisation strategies and allocating funds to businesses, without operating through any dedicated institution to drive industry decarbonisation. The only public body directly involved in this area is Sheffield Forgemasters, the MoD-sponsored steelmaking company.

Decarbonising fossil fuel supply depends on the objectives set in a future green plan

The UK has established a set of decommissioning institutions — the NSTA, OPRED and the Mining Remediation Authority — capable of coordinating the phase-out of fossil fuel supply and its associated emissions. The pace and scope of that phase-out, however, depends fundamentally on the objectives and provisions set out in a future green plan.

Reducing emissions in waste requires coordination with local authorities responsible for collection and disposal

A first-order problem is the replication of environmental regulatory agencies across the UK: the DEFRA-sponsored Environment Agency operates only in England, with equivalent bodies in Wales (Natural Resources Wales), Scotland (the Scottish Environment Protection Agency) and Northern Ireland (the Northern Ireland Environment Agency). Under a green planning framework, regulatory standards and waste management practices should be aligned across these jurisdictions. Similarly, an overarching plan could foster coordination between national agencies and local authorities responsible for operating waste collection and disposal facilities.

7. Building a Green Planning Institutional Architecture

The current architecture of UK public institutions is ill-suited to effective green planning. The mapping exercise performed in previous chapters brings to light a series of structural weaknesses that will need to be addressed.

7.1 Structural weaknesses in the current institutional architecture

Coexistence of overlapping responsibilities with little cross-departmental coordination

The current planning architecture suffers from a high degree of compartmentalisation, with each institution pursuing its own mandate with little cross-departmental coordination to bring them together. One example is the support to clean energy supply chains, which sits formally within the DBT's industrial policy remit but is also pursued by the HMT-controlled NWF and by DESNZ — through GB Energy's supply chain mandate. In other cases, responsibilities overlap directly. For instance, through UKRI, DSIT oversees innovation and research policy — including on clean energy technologies — yet DESNZ retains separate responsibility for nuclear research and innovation.

Lack of an entity responsible for designing the plan and supervising its implementation

Green planning will entail a broader scope of policy analysis and design, together with a clear indication of objectives and of what different actors — institutions and individuals — are expected to do. Past and current examples consistently show that this requires the introduction of a unitary authority: what Nobel Prize-winning economist Jan Tinbergen called a “Central Planning Bureau (CPB)”.^[72]

In the future UK green planning system, such an entity should be responsible for drafting the plan, and for coordinating the actors involved in its implementation. This planning authority could be jointly supervised by representatives from key ministerial departments.

Inconsistent classification and undefined governance of public bodies

In the UK, there are three different ways of classifying public bodies that in other countries would simply be called state-owned enterprises (SOEs) — namely joint-stock companies in which the public sector holds a majority or controlling stake.^[73] These are: public corporations, companies wholly owned by the government and non-departmental public bodies (NDPBs). The NDPB classification can also apply to executive agencies and even advisory bodies. The NWF exemplifies this confusion of legal status — formally registered

as a “private limited company wholly-owned by HMT”, it is nonetheless classified as an NDPB dependent on HMT.

These SOEs are owned or “sponsored” by sectoral ministerial departments and related entities, but the “shareholding function” for most of them is exercised by UKGI, the HMT-controlled holding company. This creates institutional ambiguity over the governance arrangements between public bodies and their controlling entities, with potentially negative consequences for the discharge of their policy responsibilities. In other European countries, SOEs are managed either by a state holding entity or directly by the ministerial department that owns them.

Comparatively small scale of publicly owned entities

Among comparable public financing institutions, the NWF is several times smaller than the national promotional banks of Germany (KfW), France (Caisse des Dépôts) and Italy (Cassa Depositi e Prestiti). Similarly, the BBB’s total lending activity to SMEs is a fraction of the volumes managed by France’s BPIFrance or KfW’s SME subsidiary.

The same holds true for non-financial corporations. GB Energy will remain a marginal player in electricity generation, having been established as a start-up company rather than through the nationalisation of existing generation and infrastructure assets. Equally, GBR is unlikely to match the systemic scale of long-established vertically integrated rail groups across Europe — such as SNCF (France), DB (Germany), or FS (Italy).

This makes UK publicly owned entities less likely to play a decisive role in green planning, even under a more explicit policy mandate.

Publicly owned bodies are constrained by self-defeating accounting conventions

The capacity of executive publicly owned entities in the UK — even those with a commercial nature — to achieve a decisive scale is limited by the consolidation of their financial accounts within the government budget. This prevents them from expanding their borrowing to increase investment (in the case of GB Energy or GBR) or lending (in the case of the NWF), even where they would be perfectly able to repay their obligations from generated revenues.

These accounting conventions represent a UK anomaly.^[74] In Germany, KfW finances its lending operations primarily through state-guaranteed bond issuance, enjoying a sovereign (AAA) credit rating. In France, EDF — the country’s electricity giant — weighs on the government budget only in the case of one-off capital injections.^[75] EDF’s borrowing to finance ongoing operations and capital expenditure is kept off the government’s balance sheet, while its state-owned status allows it to borrow at a marginal premium over France’s sovereign rating.

Lack of publicly owned companies operating in relevant areas

The UK still lacks meaningful public ownership in commercial companies operating in areas central to green planning — energy networks, transport infrastructure and services and clean technology manufacturing.

By way of comparison, through its state holding agency, the French government controls major companies across the energy sector (EDF, Engie, the electricity transmission grid RTE), several airports, the largest ports, the public transport company RATP, the airline Air France-KLM and even the car manufacturer Renault. This does not mean that these companies currently operate within the framework of an explicit green plan, but the French government already works through them to achieve non-financial policy objectives.

Devolution implies a multiplication of institutions with overlapping responsibilities

Several Westminster-controlled entities — such as Skills England (of DWP), National Highways (of DfT), Homes England (of MHCLG) and Forestry England (of DEFRA) — only operate in England, while the other UK nations maintain parallel bodies and initiatives. The future GBR is expected either to establish a distinct Scottish subsidiary or to coordinate separately with ScotRail. Scotland also has its own public investment institution, the Scottish National Investment Bank (SNIB). Major cities — such as London and Manchester — run their local transport systems through publicly owned bodies. similar model could emerge in the energy sector if municipally owned energy companies are established, following the German example of “re-municipalisation”.^[76]

Future green planning will need to consider how to align subnational administrative levels and their associated public institutions — otherwise, significant parts of the UK risk being left out, weakening the overall impact of policy.

7.2 Towards a green planning architecture fit for purpose

Green planning will entail a broader scope of policy analysis and design, together with a clear indication of objectives and on what different actors — institutions and individuals — should do. But it will also need reforms to address weaknesses in the current institutional architecture. This will imply the repurposing of existing institutions and the establishment of missing ones where critical gaps remain — including, crucially, a central planning entity. Without such reforms, any green plan risks remaining a dead letter.

Lessons on how to design an effective green planning architecture can be drawn from contemporary examples of comprehensive planning as well as from past planning experiences, including those of the UK itself.

Appendix

Taxonomy of green planning institutions

Green planning institutions have been classified according to the following defining features:

- **Department of reference:** each public institutions ultimately responds to a ministerial department. The nature of this relationship varies, with institutions described in official documentation as “sponsored by”, “wholly owned by”, “part of”, “work with” and others.
- **Type of institution:** this refers to the substantive nature of the institution — whether it is a government agency, a publicly owned company (financial or non-financial), a regulatory body, or a specialised institution such as a central bank or intelligence agency.
- **Legal status:** where specified in official documentation, public institutions are classified according to their legal status.
- **Functions:** public institutions are differentiated according to their intrinsic function, which may be advisory, regulatory, executive, financing or judicial.
- **Mandate:** this summarises the current mandate of each institution as set out in official documentation.

International institutions

Table A1: UK international institutions for green planning

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Trade policy	UK Export Finance (UKEF)	DBT	Aligned with DBT	Ministerial department	Export credit agency	Financing	2. Securing access to critical clean energy materials and equipment.	UKEF supports UK exporters by providing government guarantees that help them access working capital and mitigate the risk of non-payment, working alongside private sector finance providers to boost exports and international trade.
Trade policy	Export Guarantees Advisory Council (EGAC)	DBT	Works with UK Export Finance	Expert committee	Advisory body	Advisory	2. Securing access to critical clean energy materials and equipment.	EGAC advises the Secretary of State for Business & Trade and UKEF's CEO on the environmental and social impact of UKEF's operations, including its climate and sustainability policies.
Trade policy	Trade Remedies Authority (TRA)	DBT	Sponsored by Department for Business and Trade (DBT)	Executive non-departmental public body	Regulatory body	Regulatory	2. Securing access to critical clean energy materials and equipment.	The Trade Remedies Authority investigates the need for trade remedies against unfair practices harming UK industries and recommends measures to protect UK economic interests.
Development finance	British International Investment (BII)	FCDO	Wholly-owned by FCDO	Company	Publicly-owned financial company	Financing	2. Securing access to critical clean energy materials and equipment.	BII finances companies in developing and emerging markets.
Foreign intelligence	Government Communications Headquarters (GCHQ)	FCDO	Works with FCDO	Unspecified	Intelligence service	Executive	1. Data and information-gathering on global clean technology supply chains.	GCHQ, via NCSC, safeguards businesses, the public sector, and individuals against cyber threats.
Foreign intelligence	Secret Intelligence Service (MI6)	FCDO	Works with FCDO	Unspecified	Intelligence service	Executive	1. Data and information-gathering on global clean technology supply chains.	MI6 is the UK's foreign intelligence service, providing the government with covert capabilities that advance and protect the UK's national security.
Technical cooperation	Crossrail International (CI)	DfT	Of DfT	Public corporation	Advisory body	Advisory	2. Securing access to critical clean energy materials and equipment.	CI provides strategic advice worldwide on developing and delivering complex rail infrastructure portfolios, programmes and projects.

Macro-financial institutions

Table A2: UK macro-financial institutions for green planning

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Monetary policy	Bank of England (BoE)	HMT	Wholly-owned by HMT	Company	Central bank	Financing	1. Containing the cost of financing for private investment.	The BoE oversees monetary policy and financial stability in the UK.
Financial regulation	Prudential Regulation Authority (PRA)	HMT	Part of BoE	Unit of a company (BoE)	Regulatory body	Regulatory	3. Improving financial stability to reduce uncertainty and facilitate long-term productive investments.	The PRA supervises major financial institutions, including banks and insurance companies.
Financial regulation	Financial Conduct Authority (FCA)	HMT	Works with HMT	Company	Regulatory body	Regulatory	3. Improving financial stability to reduce uncertainty and facilitate long-term productive investments.	The FCA regulates the financial services industry in the UK, with the aim of protecting consumers.
Fiscal policy	Office for Budget Responsibility (OBR)	HMT	Sponsored by HMT	Executive non-departmental public body	Advisory body	Advisory	2. Creating fiscal space for additional public investment.	The OBR delivers independent and authoritative analysis of the UK's public finances.
Fiscal policy	UK Debt Management Office (DMO)	HMT	Sponsored by HMT	Executive agency	Executive body	Executive	2. Creating fiscal space for additional public investment.	The DMO manages UK Government debt and cash, lends to local authorities, and oversees certain public sector funds.

Cross-cutting institutions

Table A3: UK cross-cutting institutions for green planning

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green Planning Roles	Mandate
Political input and coordination	Prime Minister's Office, 10 Downing Street (N10)	Cabinet Office	Works with the Cabinet Office	Executive office	Executive body	Executive	2. Design, coordination and implementation of the plan.	N10 is the centre of political decisions for the UK government.
Procurement policy	Government Commercial Agency (GCA)	Cabinet Office	Sponsored by the Cabinet Office	Executive agency	Procurement agency	Executive	2. Design, coordination and implementation of the plan.	GCA is the UK's largest public procurement agency for purchase of goods and services.
Data gathering and domestic intelligence	UK Statistics Authority (UKSA)	Cabinet Office	Works with the Cabinet Office	Non-ministerial department	Statistical authority	Executive	1. Data collection and analysis.	The UK Statistics Authority, via the ONS, promotes and safeguards the production and publication of official statistics.
Data gathering and domestic intelligence	National Security and Intelligence (NSI)	Cabinet Office	Part of the Cabinet Office	Unspecified	Intelligence service	Executive	1. Data collection and analysis.	National Security and Intelligence coordinates strategic security and intelligence matters across government, supporting the National Security Adviser and National Security Council.
Data gathering and domestic intelligence	Security Service (MI5)	Home Office	Works with Home Office	Unspecified	Intelligence service	Executive	1. Data collection and analysis.	MI5 is the UK's domestic intelligence service, protecting the country against threats to national security.
Management of public assets	UK Government Investments (UKGI)	HMT	Wholly-owned by HMT	Company wholly-owned	State holding agency	Advisory; Executive	3. Mobilisation and orientation of public financing.	UKGI manages the UK's publicly owned assets – both financial and non-financial companies – on behalf of HMT.
Management of public assets	The Crown Estate (TCE)	HMT	Works with HMT	Non-financial public corporation	Publicly owned company	Executive	4. Responsibility over cross-cutting enabling conditions.	The Crown Estate manages a portfolio of buildings, shoreline, seabed, forestry, agriculture and common land across the UK.
Public financing	National Wealth Fund (NWF)	HMT	Sponsored by HMT	Executive non-departmental public body	Publicly owned financial company	Financing	3. Mobilisation and orientation of public financing.	The NWF is the UK's main policy bank, financing investments that support the growth and clean energy missions.
Public financing	British Business Bank (BBB)	DBT	Wholly-owned by DBT	Company	Publicly owned financial company	Financing	3. Mobilisation and orientation of public financing.	The BBB is a UK policy bank specialised in providing finance to smaller businesses, helping them start, scale up and keep their operations in the UK.
Analytical support to the government	Board of Trade (BoT)	DBT	Part of DBT	Unspecified	Advisory body	Advisory	2. Design, coordination and implementation of the plan.	The Board of Trade advises the Secretary of State (DBT) on business and trade matters, particularly concerning SMEs.
Competition policy	Competition and Markets Authority (CMA)	DBT	Works with DBT	Non-ministerial department	Regulatory body	Regulatory	4. Responsibility over cross-cutting enabling conditions.	The CMA promotes competition among market participants and protects consumers from the abuse of market power.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green Planning Roles	Mandate
Competition policy	Subsidy Advice Unit (SAU)	DBT	Works with DBT (as part of CMA)	Unit of a non-ministerial department	Advisory body	Advisory	4. Responsibility over cross-cutting enabling conditions.	The SAU supports public authorities by issuing independent, non-binding reports on subsidies and subsidy schemes.
Competition policy	Competition Appeal Tribunal (CAT)	DBT	Of DBT	Tribunal	Judicial body	Judicial	4. Responsibility over cross-cutting enabling conditions.	The CAT hears and rules on cases involving competition and economic regulatory issues.
Competition policy	Competition Service (CS)	DBT	Sponsored by DBT	Executive non-departmental public body	Advisory body	Advisory	4. Responsibility over cross-cutting enabling conditions.	The CS hears appeals against rulings by the CMA and other regulatory bodies, and reviews competition-related decisions by the Secretary of State and the CMA.
Public financing	National Security Strategic Investment Fund (NSSIF)	DSIT	Works with DSIT but owned by BBB (DBT)	Owned by British Technology Investments Ltd	Publicly - owned financial company	Financing	3. Mobilisation and orientation of public financing.	NSSIF is the UK Government's deep tech venture capital fund for national security and defence, backing pioneering dual-use technologies with commercial and strategic potential.
Technology transfer	Intellectual Property Office (IPO)	DSIT	Sponsored by DSIT	Executive agency	Regulatory body	Regulatory	4. Responsibility over cross-cutting enabling conditions.	The IPO oversees intellectual property (IP) rights, including patents, designs, trade marks and copyright.
Technology transfer	Regulatory Innovation Office (RIO)	DSIT	Part of DSIT	Office of department	Regulatory body	Regulatory	4. Responsibility over cross-cutting enabling conditions.	The RIO updates regulations, speeds up approvals and drives joined-up working across regulators to bring new technologies to market.
Technology transfer	Government Office for Technology Transfer (GOTT)	DSIT	Part of DSIT	Non-ministerial department	Executive body	Executive	4. Responsibility over cross-cutting enabling conditions.	GOTT leads public sector knowledge asset management and commercialisation.
R&D funding and infrastructure	UK Research and Innovation (UKRI)	DSIT	Sponsored by DSIT	Executive non-departmental public body	Executive body	Executive; Financing	4. Responsibility over cross-cutting enabling conditions.	UKRI is the UK's national funding agency for science and research.
R&D funding and infrastructure	Advanced Research and Invention Agency (ARIA)	DSIT	Sponsored by DSIT	Executive non-departmental public body	Executive body	Executive; Financing	4. Responsibility over cross-cutting enabling conditions.	ARIA funds R&D in underexplored, high-risk areas with greater potential.
Analytical support to the government	Met Office (MO)	DSIT	Sponsored by DSIT	Executive agency	Advisory body	Advisory	4. Responsibility over cross-cutting enabling conditions.	The Met Office delivers weather and climate services to government, businesses, emergency responders and the public.
Analytical support to the government	Government Office for Science (GO-Science)	DSIT	Works with DSIT	Non-ministerial department	Advisory body	Advisory	4. Responsibility over cross-cutting enabling conditions.	GO-Science advises the Prime Minister and Cabinet on science-related issues to inform decision-making.
Infrastructure development	Planning Inspectorate (PI)	MHCLG	Sponsored by MHCLG	Executive agency	Executive body	Executive	4. Responsibility over cross-cutting enabling conditions.	The Planning Inspectorate handles planning appeals, national infrastructure, local plan examinations and other planning casework in England and Wales.
Management of public assets	HM Land Registry (HMLR)	MHCLG	Works with MHCLG	Non-ministerial department	Executive body	Executive	4. Responsibility over cross-cutting enabling conditions.	HM Land Registry registers land and property ownership in England and Wales.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green Planning Roles	Mandate
Analytical support to the government	Committee on Climate Change (CCC)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Advisory body	Advisory	2. Design, coordination and implementation of the plan.	The CCC advises government on emissions targets and reports to Parliament on progress in reducing greenhouse gas emissions.
Workforce development	Skills England (SE)	DWP	Sponsored by DWP	Executive agency	Executive body	Executive	4. Responsibility over cross-cutting enabling conditions.	Skills England identifies skills gaps in the economy and works with employers and partners to connect people to relevant training and jobs.
Industry competitiveness	Office for Investment (OfI)	Joint departments	Joint unit of HMT, N10, DBT - part of DBT	Office of department	Advisory body	Advisory	2. Design, coordination and implementation of the plan.	OfI works to attract and secure transformational investment across the UK.
Industry competitiveness	Industrial Strategy Advisory Council (ISAC)	Joint departments	Sponsored by HMT and DBT	Expert committee	Advisory body	Advisory	2. Design, coordination and implementation of the plan.	ISAC advises government on the development and delivery of the industrial strategy, and monitors progress against its objectives.
Infrastructure development	National Infrastructure and Service Transformation Authority (NISTA)	Joint departments	Works with the Cabinet Office and HMT	Executive agency	Executive body	Executive; Advisory	4. Responsibility over cross-cutting enabling conditions.	NISTA supports the government's infrastructure strategy, helping departments overcome challenges and obstacles to meet their delivery objectives.
Analytical support to the government	Evaluation Task Force (ETF)	Joint departments	Joint unit of HMT and Cabinet Office	Non-ministerial department	Advisory body	Advisory	2. Design, coordination and implementation of the plan.	The ETF evaluates government programmes to inform decisions on whether they should continue, expand, change or end.
Analytical support to the government	Government Economic Service (GES)	Civil Service	Part of the Civil Service	Unspecified	Advisory body	Advisory	1. Data collection and analysis.	The GES delivers economic analysis and insight to support the full range of UK Government and public service activities.
Workforce development	Open Innovation Team (OIT)	Civil Service	Part of the Civil Service	Cross-government unit	Advisory body	Advisory	1. Data collection and analysis.	The Open Innovation Team offers a consultancy service for officials seeking external expertise and insight to inform policymaking.
Workforce development	Government Analysis Function (GAF)	Civil Service	Part of the Civil Service	Unspecified	Advisory body	Advisory	1. Data collection and analysis.	The Analysis Function works to strengthen the analytical capability of the Civil Service.

Sectoral institutions

Table A4: UK sectoral institutions for green planning

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Energy (Nuclear fission)	GB Energy - Nuclear (GBE-N)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Publicly owned company	Executive	1. Setting policy targets. 2. Implementing decarbonisation programmes.	GBE-N leads the delivery of new nuclear projects.
Energy (Nuclear fission)	Sizewell C	DESNZ	Sponsored by DESNZ	Company (the UK government owns 45%)	Publicly owned company	Executive	3. Carrying out investment initiatives.	Sizewell C is the company building a 3.2GW nuclear power station on the Suffolk coast.
Energy (Nuclear fission)	URENCO	DESNZ	Sponsored by DESNZ	Company (the UK government owns 33%)	Publicly owned company	Executive	3. Carrying out investment initiatives.	Urenco is an international supplier of enrichment services and fuel cycle products to the civil nuclear industry.
Energy (Nuclear fission)	Nuclear Decommission Authority (NDA)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Executive body	Executive	2. Implementing decarbonisation programmes.	The NDA leads clean-up and decommissioning across 17 nuclear sites.
Energy (Nuclear fusion)	UK Atomic Energy Authority (UKAEA)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Executive and regulatory body	Executive; Regulatory	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	The UKAEA leads research and delivery of sustainable fusion energy in the UK.
Energy (Nuclear fusion)	UK Industrial Fusion Solutions Ltd (UKIFS)	DESNZ	Wholly owned by DESNZ (through UKAEA)	Company	Publicly owned company	Executive	3. Carrying out investment initiatives.	UKIFS is delivering the STEP programme, which will design and construct the UK's first prototype fusion energy plant.
Energy (Nuclear fusion)	United Kingdom National Nuclear Laboratory (UKNNL)	DESNZ	Of DESNZ	Public corporation	Publicly owned company	Executive	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	UKNNL supports research and innovation in nuclear science.
Energy (Electricity system)	National Energy System Operator (NESO)	DESNZ	Of DESNZ	Public corporation	Publicly owned company	Executive; Advisory	1. Setting policy targets. 2. Implementing decarbonisation programmes.	NESO is Great Britain's energy system operator, responsible for balancing electricity supply and demand and planning the overall energy system.
Energy (Electricity system)	GB Energy (GBE)	DESNZ	Works with DESNZ	Company	Publicly owned company	Executive; Financing	1. Setting policy targets. 2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	GBE supports the deployment of clean energy generation in the UK.
Energy (Electricity system)	Low Carbon Contracts Company (LCCC)	DESNZ	Wholly owned by DESNZ	Company	Publicly owned company	Executive	2. Implementing decarbonisation programmes.	The LCCC signs and manages Contracts for Difference (CfDs) with low-carbon electricity generators.
Buildings (Public sector)	Salix Finance Ltd (Salix)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Publicly owned financial company	Executive	2. Implementing decarbonisation programmes.	Salix Finance delivers UK government funding schemes to improve energy efficiency across the public sector.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Energy (Decommissioning of fossil fuel industries)	North Sea Transition Authority (NSTA)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Executive and regulatory body	Executive; Regulatory	2. Implementing decarbonisation programmes.	The NSTA regulates the oil and gas, offshore hydrogen, and carbon storage industries, helping drive North Sea energy transition.
Energy (Decommissioning of fossil fuel industries)	Offshore Petroleum Regulator for Environment and Decommissioning (OPRED)	DESNZ	Part of DESNZ	Non-ministerial department	Executive and regulatory body	Executive; Regulatory	2. Implementing decarbonisation programmes.	OPRED regulates environmental and decommissioning activities for offshore oil, gas and carbon capture and storage operations on the UK continental shelf.
Energy (Decommissioning of fossil fuel industries)	Mining Remediation Authority (MRA)	DESNZ	Sponsored by DESNZ	Executive non-departmental public body	Executive and regulatory body	Executive; Regulatory	2. Implementing decarbonisation programmes.	The Mining Remediation Authority manages the legacy effects of past coal mining, owns most of Great Britain's coal reserves and licenses coal mining.
Energy (Regulation)	Office of Gas and Electricity Markets (OFGEM)	DESNZ	Works with DESNZ	Non-ministerial department	Regulatory body	Regulatory	1. Setting policy targets.	Ofgem regulates the monopoly companies running Great Britain's gas and electricity networks, setting price controls and enforcing rules in consumers' interests.
Transport (Rail)	Great British Railways (GBR)	DfT	Sponsored by (or of) DfT	Executive non-departmental public body (if same as Network Rail); Public corporation (if same as DfT Operator)	Publicly owned company	Executive	1. Setting policy targets. 2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	GBR oversees rail infrastructure and passenger services.
Transport (Rail)	High Speed Two Limited (HS2)	DfT	Sponsored by DfT	Executive non-departmental public body	Publicly owned company	Executive	3. Carrying out investment initiatives.	HS2 leads the development and promotion of the UK's new high-speed rail network.
Transport (Rail)	East West Railway Company Limited (EWRCL)	DfT	Sponsored by DfT	Executive non-departmental public body	Publicly owned company	Executive	3. Carrying out investment initiatives.	The East West Railway Company is delivering a new railway between Oxford and Cambridge.
Transport (Road)	National Highways (NH)	DfT	Sponsored by DfT	Executive non-departmental public body	Executive body	Executive	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	National Highways manages England's motorways and major A-roads, from planning and construction through to maintenance.
Transport (Road)	Traffic Commissioners for Great Britain (TFfGB)	DfT	Of DfT	Tribunal	Judicial body	Judicial	1. Setting policy targets.	Traffic Commissioners license and regulate operators of heavy goods vehicles, buses and coaches, and register local bus services.
Transport (Air)	Civil Aviation Authority (CAA)	DfT	Of DfT	Public corporation	Regulatory body	Regulatory	1. Setting policy targets.	The CAA regulates UK aviation safety and airspace policy.
Transport (Others)	Active Travel England (ATE)	DfT	Sponsored by DfT	Executive agency	Executive body	Executive	2. Implementing decarbonisation programmes	Active Travel promotes walking, wheeling and cycling as the preferred modes of transport across England.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Transport (Others)	Office of Rail and Road (ORR)	DfT	Works with DfT	Non-ministerial department	Regulatory body	Regulatory	1. Setting policy targets.	The ORR is the independent safety and economic regulator for Britain's railways and the monitor of roads in England.
Buildings (Residential)	Homes England (HE)	MHCLG	Sponsored by MHCLG	Executive non-departmental public body	Executive body	Executive	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	Homes England is the government agency driving housebuilding and regeneration nationwide to deliver affordable, quality homes.
Buildings (Residential)	National Housing Bank (NHB)	MHCLG	Wholly owned by Homes England	Private limited company	Publicly owned financial company	Financing	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	The National Housing Bank is a UK policy bank specialised in financing the delivery of new housing and the regeneration of existing stock.
Buildings (Public sector)	Government Property Agency (GPA)	Cabinet Office	Sponsored by the Cabinet Office	Executive agency	Executive body	Executive	1. Setting policy targets. 2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	The GPA is government's largest property holder, working to halve office carbon emissions.
Agriculture	Rural Payments Agency (RPA)	DEFRA	Sponsored by DEFRA	Executive agency	Executive body	Executive	2. Implementing decarbonisation programmes	The Rural Payments Agency administers subsidies and grants supporting England's farming and rural communities.
Agriculture	Agriculture and Horticulture Development Board (AHDB)	DEFRA	Sponsored by DEFRA	Executive non-departmental public body	Advisory body	Advisory	2. Implementing decarbonisation programmes	The AHDB supports British farmers and processors through research, market intelligence and promotional campaigns to improve performance and grow markets.
Waste	Environment Agency (EA)	DEFRA	Sponsored by DEFRA	Executive non-departmental public body	Executive and regulatory body	Executive; Regulatory	1. Setting policy targets.	The Environment Agency protects and improves the environment in England, regulating pollution, managing flood risk, and overseeing water resources and quality.
Forestry and woodlands	Environment Agency (EA)	DEFRA	Sponsored by DEFRA	Executive non-departmental public body	Executive and regulatory body	Executive; Regulatory	2. Implementing decarbonisation programmes.	The Environment Agency protects and improves the environment in England, regulating pollution, managing flood risk, and overseeing water resources and quality.
Forestry and woodlands	Office for Environmental Protection (OEP)	DEFRA	Sponsored by DEFRA	Executive non-departmental public body	Regulatory body	Regulatory	1. Setting policy targets.	The OEP holds government and other public authorities to account on the protection and improvement of the environment.
Forestry and woodlands	Natural England (NE)	DEFRA	Sponsored by DEFRA	Executive non-departmental public body	Executive body	Executive	2. Implementing decarbonisation programmes.	Natural England is responsible for conserving and restoring the natural environment in England.
Forestry and woodlands	Forestry Commission (FC)	DEFRA	Works with DEFRA	Non-ministerial department	Executive body	Executive; Advisory	1. Setting policy targets. 2. Implementing decarbonisation programmes.	The Forestry Commission protects, expands and promotes the sustainable management of England's woodlands.
Forestry and woodlands	Forestry England (FE)	DEFRA	Works with Forestry Commission	Executive agency	Executive body	Executive	2. Implementing decarbonisation programmes.	Forestry England is the largest land and tree manager in England.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Forestry and woodlands	Forest Research (FR)	DEFRA	Works with Forestry Commission	Executive agency	Advisory body	Advisory	1. Setting policy targets.	Forest Research is Great Britain's principal organisation for forestry and tree-related research.
Forestry and woodlands	National Forest Company (NFC)	DEFRA	Sponsored by DEFRA	Non-profit arm's length body	Publicly owned company	Executive	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	The NFC leads the creation of the National Forest, a new forested landscape spanning 200 square miles of post-industrial Midlands.
Forestry and woodlands	National Park Authorities (NPA)	DEFRA	Work with DEFRA	Unspecified	Executive body	Executive	2. Implementing decarbonisation programmes.	National Park Authorities oversee the planning and maintenance of England's 10 national parks.
Forestry and woodlands	Plant Varieties and Seeds Tribunal (PVST)	DEFRA	Of DEFRA	Tribunal	Judicial body	Judicial	1. Setting policy targets.	The Tribunal rules on the national registration of new plant varieties, UK plant breeders' rights, and selected forestry issues.
Transport	British Armed Forces (BAF)	MoD	Works with MoD	Unspecified	Military organisation	Executive	2. Implementing decarbonisation programmes	The British Armed Forces are the UK's national military, responsible for the country's defence.
Buildings (Public sector)	Defence Infrastructure Organisation (DIO)	MoD	Part of MoD	Unspecified	Executive body	Executive	2. Implementing decarbonisation programmes.	DIO is the Ministry of Defence's infrastructure expert, planning, building and maintaining the estate that supports military capability.
Industry	Defence Equipment and Support (DE&S)	MoD	Sponsored by MoD	Executive agency	Procurement agency	Executive	2. Implementing decarbonisation programmes.	DE&S is the procurement and logistic arm of the Ministry of Defence, delivering equipment and services to British Armed Forces.
Industry	Sheffield Forgemasters International Ltd (Sheffield Forgemasters)	MoD	Of MoD	Public corporation	Publicly owned company	Executive	2. Implementing decarbonisation programmes. 3. Carrying out investment initiatives.	Sheffield Forgemasters is a steelmaking company specialising in technically complex large-scale castings, forgings and related advanced engineering.
Buildings	Construction Industry Training Board (CITB)	DWP	Sponsored by DWP	Executive non-departmental public body	Advisory body	Advisory	2. Implementing decarbonisation programmes.	CITB works with construction companies to develop skills, strengthen competitiveness and address the challenges employers face.
Various	Engineering Construction Industry Training Board (ECITB)	DWP	Sponsored by DWP	Executive non-departmental public body	Advisory body	Advisory	2. Implementing decarbonisation programmes.	The ECITB works with employers and training providers to attract, develop and qualify the engineering construction workforce.
Transport (Road)	Office for Zero Emission Vehicles (OZEV)	Joint departments	Part of DESNZ and DfT	Cross-government unit	Executive body	Executive	2. Implementing decarbonisation programmes.	OZEV supports the uptake of plug-in vehicles and funds chargepoint infrastructure across the UK.
Transport	Connected Places Catapult (CP Catapult)	DSIT	Sponsored by Innovate UK (UKRI)	Private company limited by guarantee	Publicly owned company	Executive	2. Implementing decarbonisation programmes	Connected Places Catapult is the UK's leading innovation centre for transport and construction, with a focus on decarbonisation.

Cluster	Institution	Department	Relation with the department	Official legal status	Type	Function	Green planning roles	Mandate
Agriculture	UK Agri-Tech Centre (UKATC)	DSIT	Sponsored by Innovate UK (UKRI)	Private company limited by guarantee	Publicly owned company	Executive	2. Implementing decarbonisation programmes	The UK Agri-Tech Centre is the UK's central hub for agri-tech innovation, development and adoption.
Energy (Catapult)	Energy Systems Catapult (ES Catapult)	DSIT	Sponsored by Innovate UK (UKRI)	Private company limited by guarantee	Publicly owned company	Executive	2. Implementing decarbonisation programmes	Energy Systems Catapult is the UK's leading centre for energy innovation for businesses, buildings and energy networks.
Energy (Catapult)	Offshore Renewable Energy Catapult (ORE Catapult)	DSIT	Sponsored by Innovate UK (UKRI)	Private company limited by guarantee	Publicly owned company	Executive	2. Implementing decarbonisation programmes	ORE Catapult is the UK's leading centre for research and technological innovation in offshore renewable energy.

Footnotes

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