The evolution of green leases: towards inter-organisational environmental governance

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Abstract

Improving the environmental performance of non-domestic buildings is a complex and ‘wicked’ problem due to conflicting interests and incentives. This is particularly challenging in tenanted spaces, where landlord and tenant interactions are regulated through leases that traditionally ignore environmental considerations. ‘Green leasing’ is conceptualised as a form of ‘middle-out’ inter-organisational environmental governance that operates sideways between organisations, alongside other drivers. This paper investigates how leases are evolving to become ‘greener’ in the UK and Australia, providing evidence from five sources: a UK study of office and retail leases; a UK research project exploring energy management in the retail sector; a case study of a major UK retailer; a Sydney office sector study; and expert interviews on green leases in Australian retail. With some exceptions, the evidence reveals an increasing trend towards green leases in prime offices in both countries, but not in retail or sub-prime offices. Green leasing practices are generally introduced by landlords rather than tenants. Adopted green leases contain a variety of ambitions and levels of enforcement. As an evolving form of private-private environmental governance, green leases form a valuable framework for further tenant/landlord cooperation within properties and across portfolios.
This increased cohesion could create new opportunities for polycentric governance, particularly at the interface of cities and the property industry.

**Key words:** energy performance, governance, green leases, landlord, offices, management strategies, non-domestic buildings, retail, tenants

1 INTRODUCTION

It has been well-understood for some decades that energy use in existing buildings is a major source of greenhouse gas (GHG) emissions, and that there is significant potential for energy savings in retrofitting existing buildings (Ürge-Vorsatz et al. 2012; Levine et al. 2007). Reductions in emissions on the scale required to stabilise the global climate cannot be achieved without major change in the patterns of energy use across the entire building stock. Although change at this scale requires modifications in both technologies and organisational practices, research is dominated by technological approaches (Lutzenhiser 1993, 2014; Schweber & Leiringer 2012), and towards disciplines and activities that continue this trajectory (Sovacool 2014). Where social science research does exist, it is skewed towards households (Moezzi & Janda 2014; Taylor & Janda 2015; K. B. Janda 2014; Deline 2015; G. N. Dixon et al. 2015). Approximately 18% of UK green house gas (GHG) emissions come from energy use in non-domestic buildings (CSE & ECI 2012). By one estimate, this rises to 34% if both operational and “capital” GHG emissions (direct and indirect emissions from construction works, services, materials, transport, and products) are included (The
Green Construction Board 2013). Yet research in non-domestic buildings accounts for less than 10% of the end use energy demand research portfolio in the UK (LCICG 2012; Hannon, Rhodes & Skea 2013). Broadening the understanding of the socio-technical processes and constraints that affect the dynamics of change in non-domestic buildings is of critical national and global importance.

To bolster research in this area, in 2014 the UK Engineering and Physical Sciences Research Council (EPSRC) funded six new projects on energy management in non-domestic buildings. This paper, and part of the research included in it, is largely funded by one of these projects. The project is called WICKED (Working with Infrastructure, Creation of Knowledge, and Energy strategy Development) and is designed to learn from real world situations, focusing on energy strategy development in the retail sector. The acronym WICKED draws on Rittel and Webber's (1973) conceptualisation of complex problems that defy simplistic or straightforward planning responses as ‘wicked’, or tricky. Improving the building stock needs to address both the technical challenges involved in upgrading the physical infrastructure and also the social challenges of organisational decision-making (Biggart & Lutzenhiser 2007). Where space is rented, the further challenge is that these strategies need to work within, rather than against or merely alongside, established systems of professional and social practices (Scott, Levitt & Orr 2011; Levitt et al. 2010).

This paper focuses on the governance of rented space in the non-domestic sector,
which is a significant and 'wicked' problem. Of particular interest in this area is the ‘split incentive’ problem between tenants and landlords, where differing property interests and obligations mean that neither party may have sufficient incentive to invest in energy efficiency upgrades or engage in better energy management. Case studies across both residential and non-residential contexts in Organisation for Economic Co-operation and Development (OECD) countries concluded that split incentives affect up to 90 percent of the energy used in many major markets (Prindle et al. 2007).

Leases serve a regulatory role in the governance of both domestic and non-domestic rented space, and may contribute to the split incentive problem. Once the content is agreed between the parties, these terms constitute the legal basis for resolution of any dispute and operate as a kind of 'local law' binding on them. In this respect the lease is a form of inter-organisational governance for landlords and tenants, fleshing out their relationship and setting practical norms for a specified length of time. In non-domestic settings, the content and style of the landlord-tenant relationship is heavily determined by institutional letting practices, which adopt standardised structural patterns of leasing and lease wording. These lease terms affect what changes can be made to the premises (e.g. improvements) and set out the obligations that parties owe to one another (e.g. in multi-unit properties the landlord's duty to provide maintenance and other services, and the tenant's obligation to pay a service charge towards the landlord's
costs). Good environmental governance may require collaboration between landlords and tenants, but standard leasing practices do not provide for, and may even inhibit rather than promote, joint action. In particular, leases do not ordinarily permit tenants to make structural alterations (e.g., energy upgrades) to the premises or entitle landlords to recover the costs of improvements to the tenant’s property (e.g., to install energy upgrades). Leases seldom require the parties to share energy data with one another, which can inhibit energy management practices.

Recent developments in ‘green leases’ and, more broadly, ‘green leasing’ seek to enable landlords and tenants to meet environmental targets by changing their organisational practices—through the mechanism of the lease—to work more cooperatively. ‘Green leases’ are built on ‘green’ clauses within the lease which are designed to account for energy efficiency and other sustainability goals. Green leasing (also referred to as ‘best practice’ or ‘performance’ leasing) refers to the environmental processes, engagement, and practices adopted by landlords and tenants in relation to the building. Together, these greener practices reflect not only a change to the wording of the formal lease document but also to the relationship between the landlord and the tenant. Whereas traditional leasehold relationships are frequently characterised as adversarial, distant and distrustful, some greener leasing practices attempt to foster better communication between the parties. Interest in green leases and leasing is growing, and articles
on them have been published in a number of countries in the last decade, including the UK (Langley & Hopkinson 2009; Hinnells et al. 2008; Bright & Dixie 2014), Australia (Roussac & Bright 2012; Woodford 2007), Sweden (Lind, Bonde & Zalejska-Jonsson 2014), Singapore (Chua 2014), the US (Kaplow 2008; Oberle & Sloboda 2010), Canada (Sayce et al. 2009), and 20 countries across Europe (Duquesne 2011).

This paper uses five case studies to investigate the evolving role of ‘green leases’ in the environmental governance of tenanted non-domestic property in the UK and Australia. The two countries were selected primarily on the accessibility of evidence: green leases were first adopted in Australia and the property markets in both countries support ‘Better Buildings Partnership’ (BBP) organisations. These groups promote collaborative efforts across the industry to enhance sustainability, including, but not limited to, green leases. As other papers in this special issue attest most building regulations are blind to the differences between owner-occupied buildings and tenanted non-domestic property: they are usually written from the ‘top-down’ by governments seeking to affect the entire building stock. As this paper will discuss, green leases are a relatively new form of environmental governance negotiated from the ‘middle-out’ (Parag & Janda 2014; K. B. Janda & Parag 2013) between landlords and tenants at the property level.

The paper begins with a literature review that seeks insight into the role of inter-organisational negotiations at the property level. A methods section discusses the rationale for using a contextual case study approach, drawing on expertise from
industry associations in the UK and Australia, previous research, and new qualitative research. The next section provides a context for five case studies, considering general property markets, policy context, and leasing practices in the UK and Australia. The case studies illustrate whether and how ‘green leases’ in the office and retail sectors are becoming more commonplace, as well as the typical forms that these leases take. Further discussion and analysis of these findings show that although uptake is growing in both countries, green leases are more commonly adopted in office properties than in retail, and this uptake has been more comprehensively quantified in the Australia than in the UK. As a tool for inter-organisational environmental governance, green leases are mainly implemented by large powerful landlords, with a few exceptions where they are driven by powerful tenants. The concluding section draws together wider implications for opportunities and challenges of green leasing as a tool for the environmental governance of non-domestic buildings and proposes directions for further research.

2 Context: corporations, inter-organisational governance and property

This section reviews literature for framing the role of green leases as tools for non-domestic building governance. The literature on corporate environmental governance (CEG) and voluntary environmental programmes (VEPs) provides some guidance, but it also has some gaps. To more fully address the role of leases in tenanted property the CEG and VEP concepts are augmented with perspectives on ‘middle-out’ change (Parag & Janda 2014; K. B. Janda & Parag 2013),
‘building communities’ (Axon et al. 2012), and strategic property management (Edwards & Ellison 2004).

2.1 Corporate environmental governance and voluntary environmental programmes

There is a broad literature on corporate social responsibility, which addresses various aspects of corporate social, economic, and environmental impacts (McWilliams 2015). Focusing on environmental impacts, specifically, a body of scholarship identifies various factors involved in corporate governance of environmental problems. This work normally focuses on initiatives within firms or across firms of like-kind (e.g., Howard-Grenville, Nash & Coglianese 2008; Prakash & Potoski 2006; Borck & Coglianese 2009; Gouldson & Sullivan 2014). This literature shows that an organisation’s willingness to engage in ‘beyond compliance’ environmental programmes is shaped both by external conditions (regulation, economic and social) but also by a range of internal, interacting factors, including management style, organisational culture and organisational structure. In their review of the voluntary environmental programme (VEP) literature, Borck and Coglianese (2009) note three types of businesses are likely to participate in VEPs: (1) larger businesses, as they have greater resources to participate and may benefit most from recognition, (2) businesses with internal cultures supportive of environmentally friendly behaviour, and (3) businesses that face (or are likely to face) stricter government regulations.
Insofar as green leasing can be considered as a particular form of VEP, this literature provides useful insights into types of external and internal drivers for CEG. However, this literature does not address inter-organisational governance or property-level issues.

2.2 Inter-organisational governance: middle-out change

Inter-organisational activities, particularly between dissimilar groups (e.g. landlords and tenants), are often conceptualised as a space where ‘intermediaries’ serve an important role (Fischer & Guy 2009; Moss et al. 2009; Moss 2009). Janda and Parag (2013) and Parag and Janda (2014) augment this literature with new perspectives on ‘middle actors’, including designers, building professionals, and commercial real estate companies. Middle actors have their own agency and capacity to foster innovation from the ‘middle out’ rather than merely reacting to policy push from the top down or market pull from the bottom up. A middle-out approach recognises the influence of these actors upstream (e.g., to policy makers), downstream (e.g., to customers and clients), and sideways (e.g., to other middle actors).

The sideways element of a middle-out approach resonates with Vanderbergh's (2005) attention to private-private contracts, which he views as an important contribution to the regulatory state. He uses the language of ‘second-order regulatory agreements’ to capture the idea that private-private agreements respond
to ‘first-order’ government regulatory requirements (eg, standards, taxes, and incentives), but also form a new, durable, and important form of governance.

This paper conceptualises landlords and tenants as middle actors in the property market who are able to exert influence sideways through private-private contracts.

2.3 The role of property

Neither the general CEG literature nor the middle-out perspective consider the role of property, which is critical to both leases and leasing practices. Axon et al. (2012) outline an interdisciplinary ‘building communities’ approach to reducing energy use in tenanted property. This approach highlights the importance of three levels: (1) the general policy context, (2) the role of organisations, and 3) the level of the building itself, including the particular characteristics of both the premises and the stakeholders. These authors call for more research on the role of leases and their practical efficacy in effecting change. The current paper contributes to this challenge.

Edwards and Ellison’s (2004) research on corporate property management suggests that organisations have varying perspectives on the importance of physical property relative to their core business. For some corporates, the building is integral to their core business strategy; for others it is merely a container in which work happens. For landlords and investors, for example, the building is the business. Scholarship focused on the property industry (eg, Newell
identifies corporate social responsibility or responsible property investment (UNEP FI 2011) as a major driver for these organisations. Tenants, however, may only see the value of physical property as an operational asset, not as a physical asset. These different perspectives are at the heart of the tenant/landlord divide. This paper considers whether green leasing can help overcome this split incentive.

3 METHODS

Evidencing change in leasing practices is difficult and complex. The property market is global, but tenanted buildings are located and operated in particular physical, social and political contexts, all of which can affect leasing practices. Each tenanted unit has its own lease, and multi-tenanted buildings have multiple leases. Leases expire at the end of a fixed term, which may be in 1 year or 99 years. Leases are treated as commercially confidential, and in the UK public records of the contents of agreed leases are not electronically accessible or searchable. Additionally, there is no internationally standardised method of classifying leases as ‘green’.

To address this complex and difficult to access topic, the paper uses a case study approach (Yin 2009) to draw on a range of empirical evidence and situates these cases within broader market and policy contexts. Using case studies enables international and sectoral comparison and facilitates a mix of methods, units of analysis, and case conceptions to capture the complexity inherent in the
development of greener leasing practices. As subsystems of practice may influence leasing practices, five diverse cases and methods across countries (UK and Australia), sectors (office and retail), and organisations (landlords and tenants) facilitates further analysis of the landscape of leasing practices. By working across countries and cases, the aim is to triangulate new research within a broader context of existing work to generate additional insights.

Table 1 summarises the five case studies used, representing both office and retail sectors in Australia and the UK. More detailed information on methods used in each study is included in subsequent sections. The broader context in which these cases are situated is considered below.

4 Case context

This section briefly reviews the complex and evolving policy context, property markets and leasing practices in the UK and Australia. The majority of non-domestic property in these countries is rented: 56% in the UK (Property Industry Alliance 2014) and 70% in Australia (T. Crabb, Head of Research Savills, personal communication, 2015).

4.1 UK context: property market and regulatory environment
The UK commercial property market is worth £683 billion, with London accounting for about 35% of this market (Property Industry Alliance 2014). The Central London office market is a particularly important sector, with a slight majority of Grade A quality (offices of best quality specification, floor plate efficiency and image; 55% or 307,000 sq m) and with Grade B/C accounting for just 45% (DTZ/Jones Lang LaSalle 2014: 8). Indeed, investment in central London’s commercial property market reached £20.5 billion in 2014, marginally below the last investment peak in 2007 when £20.6 billion was traded (PropertyWire 2015). Additional important markets include Birmingham, Manchester, Leeds, Bristol, Edinburgh, Cardiff and Glasgow (Bilfinger GVA 2015).

UK building regulations set out specified energy efficiency requirements for new commercial buildings as well as renovations (DECC 2014). In compliance with the EU Energy Efficiency Directive (EP&C 2012), the UK has a national energy efficiency target to reduce energy consumption by 18% in 2020 relative to the 2007 business-as-usual projection, and a target of 1.5% annual reduction between 2014 and 2020 (DECC 2014). The Carbon Reduction Commitment (CRC) Energy Efficiency Scheme requires companies that consume over 6,000 MWh of electricity to report and buy allowances for their CO2 emissions (DECC 2015a). In addition, under the new Energy Saving Opportunities Scheme (ESOS) large organisations are required to carry out an energy audit every four years, measuring and reporting energy use across energy used in buildings, industrial processes and transport (DECC 2015b). Energy Performance Certificates (EPCs)
rate properties based on age, size and fabric of the building and are required when buildings are constructed, let or sold (e.g., DECC 2014). Display Energy Certificates (DECs) rate properties based on operational energy consumption and are currently required only in public buildings (DECC 2014). From April 2018 minimum energy efficiency standards (MEES) are being introduced, making it unlawful to let properties that fail to achieve a prescribed minimum energy efficiency standard, set at EPC rating E (DECC 2015c). Of these regulations, only MEES recognises the importance of tenanted commercial property.

In parallel, the voluntary sustainability rating system 'BREEAM' (Building Research Establishment Environmental Assessment Methodology) provides a common standard to enable the assessment and comparison of the environmental impact of buildings. It has been used to certify over 260,000 building assessments across more than 50 countries (BRE 2014). Under BREEAM 2011, credits were available for green leases, which incentivised owners seeking the highest rating to negotiate green leases with occupiers. On-line commentaries suggest this was 'unpopular', partly because tenants did not want to accept additional obligations, and BREEAM 2014 has removed the green lease credits (Parker 2014).

4.2 Australian context: property market and regulatory environment

The main property investment market in Australia is worth about AU$280 billion (£130 billion) (Higgins 2013). Sydney central business district (CBD), with 4.9
million m² of total stock, is the largest office market in Australia. Sydney is the primary location for the head offices of most Australian companies, it is also the most sought after location; highlighted by strong prime property rents and yields. The market is currently comprised of 53% prime space (Premium & A Grade) and 47% secondary grade space (B, C & D Grades). Other major property markets in Australia include Melbourne, Brisbane and Perth.

The Building Code of Australia Part J sets minimum standards in respect of energy efficiency requirements for new commercial buildings and for refurbishments over a certain level of work (ABCB 2010). However, unlike the UK, where minimum energy standards were introduced in the early 1980s, energy efficiency only became part of the Australian Building Code in 2006. Subsequently, a much lower proportion of the existing stock has minimum standards of energy efficiency. There is an intention to increase minimum energy standards over time and they were revised upwards in 2010 (ABCB 2010).

Alongside the mandatory minimum standards, the Australian commercial office and retail property market is characterised by the National Australian Built Environment Rating (NABERS) system, which has tools for energy and water ratings. In 2010 The Building Energy Efficiency Disclosure Act, established the Commercial Building Disclosure (CBD) Program, which requires energy efficiency information to be provided when commercial office space of 2000 m² or more is offered for sale or lease (Australian Government 2015). These standards are performance ratings (similar DECs in the UK) and are made public in the form of Building Energy Efficiency Certificates (BEECs). The goal is to
improve the energy efficiency of Australia's office stock and also, to inform buyers and tenants. The rationale is that buyers and tenants can easily ascertain the level of energy efficiency and many will choose buildings with better standards that align with their leasing practices and/or corporate social responsibility policy. The voluntary Green Star environmental rating tool also sets energy standards which increase in line with the different star ratings. In comparison to the UK (discussed above) Australia has less aggressive CO2 reduction targets. Whereas EU countries plan to reduce greenhouse gas emissions between 2020 and 2030 by approximately 2.8% per annum, the World Resources Institute estimates that Australia lags behind with a planned 1.8% per annum reduction rate (Gerholdt & Ge 2015).

4.3 Green lease context: UK and Australia

In Australia, the Australian Commonwealth and State Governments have provided important early leadership for green leases. Under the Energy Efficiency in Government Operations (EEGO) policy standards have been set since 2006 for all new government leases of more than 2000 square metres through the use of a “Green Lease Schedule” (GLS) (Woodford 2007).

In addition, in both the UK and Australia, industry leadership has been crucial to the emergence of greener leasing. The UK Better Buildings Partnership (BBP) and the Sydney BBP were established (in 2007 and 2011 respectively) to work
collaboratively with leading landlords 'to develop solutions to improve the sustainability of existing commercial building stock and achieve substantial CO₂ savings' (UK BBP 2015a). UK BBP members include 'the UK's leading commercial property owners' (UK BBP 2015a); Sydney BBP members include 'a number of Sydney's leading commercial and public sector landlords' (Sydney BBP 2015). Both BBPs developed toolkits providing a menu of 'green clauses' that parties can elect to include in leases and that provide a framework 'for sustainable operations and collaboration throughout the life of commercial leases right from the on-set' (UK BBP 2013a; Sydney BBP 2013).

In addition to green leases, the UK BBP has also promoted Memoranda of Understanding (MoUs) (UK BBP 2013a, p. 2). MoUs are separate written agreements that capture the intentions between negotiating parties and can be used in conjunction with binding agreements (such as leases). In leasing, MoUs provide a flexible mechanism for enabling collaboration for buildings already let, as they are not legally binding, can be entered into at any stage of the lease, and can be updated without amending the lease. By contrast, in Australia, MoUs have not been widely used due to the costs of negotiation and non-binding nature.

Beyond the UK and Sydney BBPs and their members, the Global Real Estate Sustainability Benchmark (GRESB), established in 2009, is an industry-driven
assessment that reports annually on the sustainability performance of real estate portfolios around the world (GRESB 2015). The GRESB survey includes a section on stakeholder and tenant engagement, part of which focuses on the use of green leases and MOUs (Shire & Quispel 2013).

5 Case studies: evidence of green leases and leasing

Within the broader context of the markets outlined above, this section discusses a diverse set of case studies in the UK and Australia. In the UK, Case 1 presents a small-scale review of leases in 'green' UK office and retail buildings; Case 2 presents initial findings from the ongoing WICKED [research] project theme on 'green leasing' practices in the UK retail sector; and Case 3 highlights in more detail the 'green lease' practices of one of the WICKED [research project] participants, a leading UK retailer. In Australia, Case 4 describes a large-scale study carried out by the Sydney BBP into Sydney’s commercial office leasing market and Case 5 provides a brief qualitative assessment of the use of green leases in Australia's retail market.

5.1 Case 1: UK office and retail

Using a qualitative document analysis approach, Bright and Dixie (2014) examined the content of 26 UK commercial leases (17 office and 9 retail) in detail
to develop a categorisation of ‘green clauses’. The sampling aimed for a mix of locations, landlords and tenants, but most of the leases involved BREEAM rated properties and were available on the public land register (compulsory for leases more than seven years). Some additional leases were selected by identifying parties with public green commitments (including green lease policies). Sampling was also restricted to leases registered in 2008 or later as green leasing has only emerged since then. This sample group was acknowledged as unrepresentative and was selected in order to increase the chance of identifying green leases within such a relatively small sample.

Bright and Dixie (2014, p. 10) define ‘green clauses’ as those which are ‘designed to facilitate the property being used in a resource efficient manner and which … [take] account of energy efficiency and other sustainability goals and measures’. The authors grouped clauses into 10 categories, such as: producing a sustainability statement or environmental plan; sharing data about energy, water or waste consumption; permitting the landlord to conduct maintenance and other services in an environmentally sensitive manner; and enabling one or both parties (usually the landlord) to make resource efficiency improvements.

In this data set, despite being deliberately skewed toward green buildings, the authors found that about 40% of the sample (11 leases, 5 office and 6 retail) had no discernible green clauses.
15 leases (12 office and 3 retail) contained one or more green clauses, and these varied significantly in their content, scope and legal commitment. Within the green leases, data-sharing was the most common clause (80%), followed by a clause requiring environmental considerations to be factored into alterations and/or repairs (10/15 leases), and those allowing service provision to take account of environmental considerations (10/15 leases).

Based on their analysis of these leases, Bright and Dixie (2014, p. 19) conclude that the “flip-side of our findings is that long-term leases are still being entered into for green buildings which pay no attention to environmental issues,” and there is “unlikely to be significant penetration of green lease principles outside green buildings”.

5.2 Case 2: WICKED retail research

The WICKED [research] project investigates energy management strategies in the UK retail sector. In this context, one research theme explores the role of leases and other organisational practices. To date, the researchers have conducted interviews with 20 representatives from 17 different organisations: four property owners (landlords), four retail tenants, four letting and property management companies, four law firms, and one industry organisation (the UK BBP).
Interviews are supplemented by document analysis of company strategy reports, green lease clauses in company templates, and model green lease clauses promoted by industry partnerships (e.g., UK BBP 2013a).

A number of key findings are emerging. First, interview responses suggest that the uptake of green leasing arrangements in the retail sector remains low, whilst green lease clauses appear more common in the office sector. Green leasing is more likely to be adopted by larger companies (in particular, the BBP members) with public environmental commitments and/or concern over exposure to environmental regulation, and typically for prime properties. Lawyers for organisations outside this select group of large landlords may have heard of green leases but seldom see green clauses in contracts.

Where green leases are adopted, agreed clauses are typically either (a) quite broad, non-prescriptive and/or non-binding (e.g. provisions that state a general commitment to cooperate to improve environmental performance); or (b) driven by specific regulatory requirements (e.g. clauses dealing with the costs of CRC compliance or the production of EPCs). MEES, BREEAM, and GRESB have all been highlighted as drivers for reviewing lease clauses and green lease discussions.

Despite the global interest in green leases in some circles, an interviewee expressed a commonly held view: that leases largely 'sit in a cupboard for the length of the tenancy', except for 'key intervention points' such as alterations or upgrades, when parties (or more probably asset managers) will refer to the formal
lease wording (Interview #12).

Although lease clauses, including green ones, appear to have little relevance to
day-to-day operations, early adopters point to potential benefits of the process of
negotiating green clauses as a platform for discussion between landlords and
tenants. The material goal of green leasing is tenant and landlord cooperation
around energy and environmental management; a green lease is a piece of paper
that symbolises and supports this effort.

5.3 Case 3: WICKED retail research with M&S

Drawing on early evidence from the WICKED [research] project, a case study of
Marks and Spencer (M&S) – a UK-based retailer with an international chain of
clothing and food shops - illustrates the leadership role that M&S, the UK BBP,
and the UK BBP landlords are playing in the roll out of green leases in the UK
retail sector. The case study is based on (i) interviews of key M&S staff (over the
phone and via email, including the Head of Property Plan A, Plan A Project
Managers and an M&S property lawyer), and (ii) analysis of public documents
and internal M&S documents (e.g. strategy documents and standard lease
clauses).

In 2012 M&S announced an ‘environmental leasehold policy’ – to introduce
green clauses through MoUs for existing stores and to include green clauses in
new leases - a commitment now incorporated into M&S Plan A 2020 (M&S 2015,
p. 21). The M&S story suggests that strong leadership and concern about climate
change are important drivers for the environmental plans that fed into this leasing
policy (Vernon 2007). Plan A, launched in January 2007, sets out 100 commitments to help M&S become 'the world's most sustainable retailer' (M&S 2015) and is an important part of its brand. The leasing policy emerged from a convergence of drivers: that leases should not undermine Plan A; a desire to control the lease drafting process to create more standardisation across the M&S portfolio; an opportunity to save costs through enabling building improvements; and the promotion of green leases by the UK BBP.

Working together, M&S and UK BBP launched an initiative to introduce green MoUs for 70 M&S stores already under lease with BBP landlords (UK BBP 2013b). This 'buy in' from BBP landlords has meant that the scope of the M&S MoU clauses (broadly based on the BBP green lease toolkit (UK BBP 2013a) is broader and more ambitious than the green clauses being used in new M&S leases. Green MoUs with UK BBP landlords have now been introduced for 65 existing stores.

By contrast, for new leases M&S has to negotiate with a much greater diversity of landlords. M&S has developed a standard set of green clauses, informed by the BBP 'Green lease toolkit' (UK BBP 2013a), with overall a more limited scope than the MoUs. The green clauses include a general commitment to carry out lease obligations with a view to promoting environmental good practice, an agreement to co-operate and use reasonable endeavours to agree and comply with an energy management plan, and an agreement to maintain and share data.
Between January 2013 and December 2014 M&S entered around 80 new leases. Early indications are that most of these, other than lease renewals, include green clauses,

Prior to the development of the standard MoU and green lease clauses, M&S reported that “darker green” clauses (e.g. allowing increases in service charges related to upgrades) were resisted by landlords. Also, the existence of green clauses has provided a framework and incentive for M&S’s Plan A Project Manager to engage with landlords, meeting with them to discuss priorities for cooperation ‘under the guise of green leases’ (Plan A Project Manager, 12 January 2015).

M&S’s experience suggests that the “light green” clauses based on the BBP toolkit have proved largely uncontroversial in negotiations, possibly because of the role of BBP in influencing standard industry practice and also M&S’s position in the market, where its brand and size add value to landlords’ premises. This shows the sideways impact of a large powerful tenant as a ‘middle actor’ in the property market.
5.4 Case 4: Sydney office leasing

In December 2014, the Sydney BBP published the "BBP Leasing Index," covering office leasing in Sydney's central business district (CBD) (Dawson, Bailey & Thomas 2014). This index shows clear evidence of green lease transformation in this market. Whereas in 2009 only 15% all leases signed in Sydney CBD had green clauses, by 2013 over 60% of all leases included green clauses.

The BBP analysed leases from the public register in New South Wales (Thomas & Dawson 2014), using the Sydney BBP's Model Lease Clauses to define “green” terms (Sydney BBP 2013). Of the 7000 commercial office leases in Sydney CBD, approximately 500 were sampled randomly depending on size of tenancy (small, medium, large) and building quality (non-prime and prime grades), with a target sample size of 100 for each segment. Leases were analysed for the presence of one of 22 Model Lease Clauses and a grading system calculated a 'Model Lease Score'. Gradings were based on 'clause breadth' (the number out of the 22 possible) and 'strength' (how binding the clause is, depending on whether dispute resolution process would be triggered by breach). Numerical grades were awarded and averaged to a total Model Lease Score (see Thomas & Dawson 2014) .

There was a quadrupling of some form of green leasing between 2008 and 2014, and 27% of the BBP Model Lease Clauses appeared in standard commercial
office leases. In prime buildings, over 80% of leases have best practice leasing in 2013/14, and include 44% of the Model Lease Clauses. Clauses relating to cooperation, management and recycling, waste and consumption were most frequently included. Nearly a quarter of leases included a clause relating to securing or maintaining a NABERS rating. The next most common clauses relate to information sharing, environmental sustainability (a high-level commitment clause) and waste reduction.

Despite this growth in the numbers of green clauses used, clause strength still lags, indicating that parties agree to collaborative frameworks but hesitate to risk dispute resolution.

This study highlights the importance of landlord and intermediary leadership in green leasing, following the initial government-as-tenant introduction of the GLS. It shows the sideways impact that major landlords have had on standard leasing practices, particularly in prime buildings. Together with the Sydney BBP, major Australian landlords have successfully diffused a new form of governance of the landlord-tenant relationship and environmental practices into the Sydney office market.

5.5 Case 5: Australian retail market

Despite the evident adoption of green leases in office properties, qualitative assessments suggest that green leasing is unusual in Australian retail markets. The Sydney BBP is initiating conversations with retailers but report that there has
been no significant greening of retail leases to date. Although further study is needed, it appears this may be partly due to the strong consumer orientation of state retail legislation and the fact that the retail sector is so highly price sensitive and cost conscious (Professor W.D. Duncan, personal email communication, 4\textsuperscript{th} December 2014). Further, in most Australian jurisdictions the cost of capital improvements is not permitted to be passed on to retail tenants as outgoings, although large retail shops are generally excluded from this (Duncan & Christensen 2014).

6 SYNTHESIS AND DISCUSSION

Across the policy and property contexts of the UK and Australia and the five cases presented, this section synthesizes and discusses with reference to the literature (1) what a green lease is and does; (2) who tends to use green leases, (3) where green leases are present and absent in the market.
6.1 What a ‘green lease’ is and does: potential vs. reality

Although there are various sets of green model clauses, there is still no international standard definition of what a ‘green lease’ should be or do. How many clauses and of what kind does a lease need to contain to qualify as ‘green’?

The Sydney BBP (Case 4) reviewed a large number of green leases and constructed a strong case for green lease market transformation, but even in this study a ‘green lease’ can contain anything from a single ‘light green’ clause (e.g., a very general duty to cooperate on environmental matters) to a number of more ambitious ‘dark green’ clauses (e.g., setting specific environmental rating targets).

A comparison of the UK and Sydney BBP precedent model clauses, as well as green clauses used in Cases 1 and 3, suggests certain core green clauses, typically less ambitious, are promoted through the model clauses and commonly found in agreed leases. These include a general commitment to improve the environmental performance of properties and commitments to cooperate, in particular to share data about environmental performance. The model clauses also all contain similar provisions restricting tenant's rights to make alterations that adversely affect environmental performance, and various provisions to enable the production of energy performance certificates and other ratings (BREEAM in the UK, NABERS and Green Star in Australia). At the same time, the models also contain a number of important differences. In particular, only the Sydney BBP
model clauses include the more ambitious provision – arguably key for addressing the ‘split incentive’ issue - for the landlord to make environmental improvements and recover the cost through service charges. Such ambitious clauses are very rare in the UK, and also meet with firm resistance in Australia although they are successfully negotiated in some leases (Roussac & Bright 2012). In relation to rent review, the UK BBP requires tenant works to be disregarded but allows landlord works to be taken into account whilst the Sydney BBP allows NABERS ratings achieved by either party to be taken into account.

In both Australia and the UK, the case studies also show that lease clauses operate at different levels of enforceability. Although lease clauses are, prima facie, binding, some lease clauses are intentionally expressed not to be legally binding. For example, Case Study 1 found that most (but not all) clauses agreeing to agree an environmental plan were ‘good faith’ obligations and not legally binding. MoUs are likewise non-binding as a matter of law, although in Case 1 there was, exceptionally, reference to a legally binding MoU that would also bind successors. Case 4 shows that binding clauses with ‘teeth’ - that attach clear remedial consequences to breach - are relatively unusual, and this was also true of leases in Case Study 1.

Even if binding, many ‘green’ clauses may be difficult to enforce. Duties to exercise ‘reasonable endeavours’ and to ‘co-operate’, lack specificity and it will be hard to prove breach. Additionally, it is unclear whether a promise to ‘co-operate’
or exercise ‘reasonable endeavours’ is enforceable as a matter of English contract law.

Interviewees in the WICKED [research] project (Case 2) commented that parties are unlikely to seek legal enforcement. Indeed, it is not unusual for lease clauses not to be enforced. For example, at the termination of the lease, a Schedule of Dilapidation in the UK, or Make Good in Australia, will be drawn up by the landlord’s surveyor, who identifies all repairs which should have been attended to by the tenant(s). Although there is an opportunity to enforce the lease terms, in practice enforcement is dependent on other variables and tenants may be able to walk away without undertaking many of the items agreed to in the lease (Rowling 2012).
The case studies show ‘green leases’ in practice to contain a wide variety of ambitions and levels of enforcement. Despite the potential strength of private-private contracts (Vandenbergh 2005) and the existing role of leases as a 'local law' between two parties, the relatively low level of ambition and enforceability of agreed green leases suggests they have may have more symbolic value than measurable material impact. As a tool for inter-organisational governance, green leases as currently configured have much in common with voluntary environmental programmes, whose impacts are also difficult to quantify (Borck & Coglianese 2009). However, interviews with early adopters of green leases (Cases 2 & 3) suggest they facilitate useful conversations about co-operation between tenant and landlord on environmental matters.

6.2 Who adopts and uses green leases?

The organisations adopting green leases in the UK and Australia are mainly the same type that are likely to participate in other forms of VEPs: large powerful organisations with sustainability goals, in markets that are facing regulation (Borck & Coglianese 2009). Corporate responsibility also acts as a major driver for these organisations (Newell 2008; T. Dixon et al. 2009).

More specifically, across the UK and Australia, green leases are generally led by the landlord. Almost invariably the landlord's lawyer supplies the draft lease for
negotiation. This means that it is usually the landlord's environmental management style that will lead the use of green leases.

There are some exceptions: the Australian government has been an important leader through the required use of the GLS when an Australian Government office lease is signed. Case Study 3 shows M&S as a retail tenant implementing green leasing. What unites these exceptions is the strong market strength of these tenants and their institutional policy commitment to environmental good practices and social responsibility.

The case studies uphold the idea of landlords as middle actors (Parag & Janda 2014; K. B. Janda & Parag 2013), capable of exerting influence on others. They play this role both sideways (e.g., landlords learning from other landlords, through the mechanism of the BBPs) and downstream (imposing new leasing practices on tenants). In the UK, data from the case studies suggest that only M&S seems to be playing a ‘middle actor’ role as a private tenant, particularly in the retail sector. In the UK, the impetus for green leases clearly comes from middle actors in industry rather than from the top-down. The Australian government requires green leases in its rented offices; the UK government does not.

From a ‘middle-out’ perspective, the ‘sideways’ and ‘downstream’ implications of these findings are that green leases may not be an ideal indicator of ‘tenant engagement’ (e.g., as articulated in and measured by GRESB (Shire & Quispel 2013; GRESB 2015)). Engagement should be a two-way process, with the tenant
and landlord working together. However, if landlords are the more powerful shapers of the ‘local law’ set by the lease, the nature of the power structure may suggest ‘co-optation’ (the formalized inclusion of challengers into the authority system that they are challenging (Coy 2013)) rather than a more equitable consensus-driven process of ‘co-operation’ and engagement.

6.3 Where are green leases present and absent?

Although green leases are applicable in concept to any rented property, large or small, their diffusion across the market is uneven. The case studies in both the UK and Australia show that green leasing is more prevalent in offices than in the retail sector. Within the office market, the trend seems concentrated in particular geographic locations (e.g., central business districts (CBD) of major cities). Most of the activity (and research to date) is concentrated in London and Sydney, yet there are important property markets in both the UK and Australia outside these cities. Case 4 also marks a difference in green lease uptake between prime properties (about 80%, representing about half the CBD in Sydney) and sub-prime properties (60% uptake, representing the rest of the tenanted space). Given the evidence available, wider uptake in non-prime properties or amongst smaller landlords and tenants seems unlikely. A ‘green lease’ might be thought of in the context of letting a modern building designed to high environmental standards, but arguably the need for green leases is even stronger for buildings in the secondary and tertiary markets that have poor environmental credentials.
The case study data to date cannot say why green leases are more widely adopted in the office market than in the retail market. This uneven uptake, however, suggests that the relationship between property and organisational decisions is complex and worthy of study as Axon et al. (2012) and Edwards and Ellison (2004) suggest.

7 CONCLUSIONS AND IMPLICATIONS FOR GOVERNANCE

This paper argued that green leasing can be conceptualised as a new form of 'middle-out' energy and environmental governance at the property level. It has described the evolution of greener leasing practices drawing on case studies across different countries and sectors. It has highlighted evidence of the uptake of green lease clauses, drivers for this uptake, their content and potential implications for inter-organisational governance. With the exception of the Australian government GLS, there is no government-directed use of green leases. Most green leases or MoUs therefore are 'voluntary' in the sense that the green clauses are additional to the terms ordinarily used within leases and, more generally, go beyond environmental compliance. However, they could be legally enforceable, which most other VEPs are not. Top-down regulation provides a backdrop to green leases, but the role of landlords and industry groups, particularly the BBPs, have been important 'middle-out' influencers. Early
adopters of green leases are a mixed group of large organisations, mainly landlord led but with some notable tenant exceptions.

From a larger governance perspective, it is unlikely that green leases are well suited to top-down government-led initiatives such as building regulations or tax incentives. Green leases could be made mandatory but the fact that lease wording is tailored to particular contexts would mean that any mandated clauses would necessarily be broad. Furthermore, monitoring compliance would be difficult given that in the UK, for example, the land registry only requires registration of leases that are more than seven years long, so the government itself does not have a complete record of who is leasing what or how these leases are worded. While green leases may be difficult for the regulatory state to embrace, they are an ideal tool for non-state actors, particularly organisations with multiple properties. They can be made mandatory within a portfolio, such as the Australian government requiring them for their rented offices and M&S requiring them for their rented stores. Insofar as “governance” is not the same as “government” (K. F. Janda & Kwak 2011), these requirements are mandatory, but imposed by one organisation upon another rather than by the state across its domain. Considering green leases as a new form of private-private environmental governance could lead to new ways of applying ideas about polycentric governance (Ostrom 2010) to shared spaces as well as to shared resources.

Polycentric governance is often associated with the management of shared environmental resources in a contiguous space, such as a metropolitan area, a
fishery, or a forest. This paper has suggested that green leases currently manifest mainly in large multi-site organisations that own or rent spatially distributed spaces, what Axon et al. (2012) call ‘fleet’ landlords and tenants. How would or do green leases operate as a form of environmental management in a contiguous area, such as a city?

The Tokyo Metropolitan Government and C40 Cities recently surveyed 12 different kinds of energy efficiency initiatives, including green leases, in 16 cities across 9 countries (Takagi et al. 2015). This report found programmes promoting green leases in 15 out of the 16 of the studied cities (Takagi et al. 2015: p. 21). Of the 15 cities promoting green leases, however, two-thirds of the programmes (10 cities) were designated as “partner-led”, a category the authors use “only when no city-led or higher-tier government-led programmes were found” (Takagi et al. 2015, p 21). Across a matrix of 12 different types of policy elements, the promotion of green leases was the only category where partner-led programmes figured prominently in the analysis1. At the city level, these findings support this paper’s conclusions that leasing is a mechanism currently led by private entities rather than public ones. As T. Dixon, Britnell and Watson (2014) suggest in their study of urban retrofit practices, the commercial property sector may be ‘city blind’, seeing opportunities for property retrofits in a portfolio that extends across cities rather than fitting neatly within their footprint. Such widely distributed activities challenge the utility of green leases as a policy mechanism for city,

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1 For example, only two other policy categories noted the existence of partner-led programmes. Reporting and benchmarking was partner-led in only one city; green building and energy rating was partner-led in two cities. Green lease programmes were partner-led in 10 cities.
regional, and national governments. If the geographical level of the policy fits the
organisational structure of the industry, however, green leases may be a fitting
tool. For example, green leases may be particularly useful places like Singapore
and Tokyo, where strong governments coincide with highly concentrated
commercial property activities (Nishida & Hua 2011; Chua 2014).

As currently implemented, green leasing is a tool used by businesses, generally
with minimal government involvement at the city, regional, or national level. In
their review of voluntary environmental programmes (VEPs), Borck and
Coglianese (2009) present a typology of three different kinds of VEPs—
unilateral, bilateral, and public voluntary—depending on the number of
participating businesses and on the degree of governmental involvement.
Unilateral programmes are led by businesses or industry associations; bilateral
programmes are negotiated between government and specific businesses; and
governments use public voluntary programmes to recognise achievements beyond
mandatory standards. In this typology, green leases are unilateral VEPs in the UK,
but they could be characterised as a bilateral VEP in Australia. Governments in
other countries could certainly follow Australia’s lead and create bilateral
programmes, using their own purchasing power to promote the practice. This
action would likely only have positive impacts in commercial property markets
where government tenancy plays a significant role.

From a legal perspective, leases are at the heart of governance of tenanted space,
but from an operational and practical perspective they are less central. The people
who manage and occupy space may never see the lease or even have access to it (Roussac and Bright 2012). The evidence to date in the UK and Australia suggests that green leases may provide a ‘necessary but not sufficient’ function in tenanted commercial property. Even without ‘teeth’, green leases encourage inter-organisational negotiations in relation to energy and environmental management. These developments have not flowed directly from top-down governance, VEPs, or regulatory measures that are largely (with the exception of MEES in the UK) blind to the joint use of tenanted space. Green leases therefore add a new tool to the box of regulatory and governance tools that ‘operate concurrently or in overlapping ways’ (Morgan 2007) to address the ‘wicked’ problem of improving the tenanted building stock.

The further study of green leases and leasing could be enhanced by the development of a tiered rating of green leases that develops more nuanced processes and thresholds for environmental ambitions, outcomes and enforceability (e.g., light-green, mid-green, dark green), much like BREEAM and NABERS have for green buildings. As much of the green lease work to date is landlord-led, genuine forms of tenant engagement and even tenant leadership is another topic for further study. The market may already be moving in this direction. The UK BBP put ‘occupier engagement’ on its list of priorities (UK BBP 2015b). The Sydney BBP goes even further, conceptualising the tenant/landlord relationship as a kind of love match that can lead to happiness (Blundell 2013). Finally, further quantitative and qualitative research through the
WICKED [research] project should generate firmer insights into the role of green leases across the retail sector as well as their impact on energy management practices of tenants and landlords.

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<th><strong>Case Study</strong></th>
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| **CASE 1**    | Document analysis of leases for 17 BREEAM-rated office buildings and 9 (mostly BREEAM-rated) retail premises.  
*Source:* Bright & Dixie 2014 |
| **CASE 2**    | 20 interviews of retail property participants; document analysis of company reports and model lease clauses  
*Source:* ongoing WICKED [research] project |
| **CASE 3**    | M&S green lease and MOU experience to date (MOUs in 65 existing stores; green leases in 80 new stores).  
Methods: document analysis, interviews with M&S staff  
| **CASE 4**    | Document analysis of leases for 500+ office buildings, Sydney Central Business District.  
*Source:* (Dawson, Bailey & Thomas 2014) |
| **CASE 5**    | Interviews with Sydney BBP and personal communication with Australian property lawyer(s) on office and retail leasing practices  
*Source:* ongoing WICKED [research] project |