

## Summary of Energy and Climate commitments in London Mayor 2016 Election Manifestos

Candidate Party	<a href="#">Sian Berry Green Party</a>	<a href="#">Caroline Pidgeon Liberal Democrats</a>	<a href="#">Sadiq Khan Labour Party</a>	<a href="#">Zac Goldsmith Conservative Party</a>
<b>Energy &amp; Climate Change issues covered in:</b>	Specific ' <i>Energy &amp; Climate Change</i> ' chapter	Included in ' <i>Green, clean and healthy</i> ' chapter	Included in ' <i>A green, cleaner, London</i> ' chapter	' <i>Living Environment</i> ' manifesto
<b>Overarching statements</b>	<p>Only one in 195 homes across London uses its roof space to generate solar power...High energy costs are a major problem for people, businesses and institutions. Transport for London estimates that its electricity bill will rise by £50m within five years. And we are way behind tackling fuel poverty and properly insulating our older homes. We can change that.</p> <p>London can be a leader again amongst capital cities worldwide in the mission to stop climate change and create a more secure future for us all.</p>	<p>It is estimated that the way we live in London today uses resources as though there were three planets, not simply that one we have. London's economy will thrive in a future where "we meet more of our needs from local, renewable and waste resources and enable Londoners to enjoy a high quality of life within their fair share of earth's resources" – the 'one planet living' vision developed by London-based Bioregional with the environmental charity WWF.</p>	<p>I'll also be the greenest Mayor ever, seeking to establish London as a leader in low-carbon innovation and industry, cleaning up our dangerously polluted air, and setting out an ambitious long-term plan for clean energy in our capital.</p> <p>If London is to move to being a greener city, we have to get so much better at producing more of our own energy from clean, low-carbon sources. We need to reduce our CO2 emissions while also being better prepared to adapt to climate change..</p> <p>Environmental checks are not simply a side concern to be weighed up against economic and</p>	<p>All around the world, cities have shown that where national government is lagging, local government can lead the way. I will ensure London becomes a world leader in the fight against climate change, a story we can share to drive real change in other cities right around the globe.</p>

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		<p>As London’s population grows, life in our city will only be sustainable and well-being maintained if we change the way we move about. Renewable and low-carbon forms of energy, including to power the Underground, are an essential part of that.</p> <p>Work for long term changes to the built environment and to new developments to reduce emission from construction and from boilers.</p>	social benefits.	
<b>Targets</b>	Will be the biggest champions of running our city completely on renewable energy by 2050.	Liberal Democrats set a bold target for London to become zero carbon by 2035.	My plan to revive London’s clean energy sector includes committing London to an ambitious target of becoming a zero-carbon city by 2050	I will put a plan in place to supply a quarter of London’s energy needs from low carbon sources by 2025. This will put us on the pathways towards the ultimate goal of being powered by 100 per cent clean energy by the middle of this century.
<b>Municipal Energy</b>	We will create a London not-for-profit energy company, under Transport for London’s wing	Establish a London energy company supplying to domestic consumers, similar to the initiatives being pursued in	I will establish Energy for Londoners, a not-for-profit company providing a comprehensive range of energy services to help Londoners	I will set up ‘Energy for London’. The energy regulator, Ofgem, recently granted the Mayor of London a licence that will allow City Hall to buy and sell excess

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	Provide an alternative to the 'big 6' energy suppliers, reducing energy costs and fuel poverty	Nottingham and Bristol.	generate more low-carbon energy and increase their energy efficiency, ....and  ... exploring the business case for potential savings on bills by bulk-buying energy	electricity from public bodies. I will go further, using these powers to set up 'Energy for London': a new clean energy company which will bulk buy energy from low carbon generators across London and sell it to businesses and housing estates. Should initial pilots be successful, I will look to extending this to London homes, too.
<b>Transport &amp; Energy</b>	<p>The company will: Ensure Crossrail is powered by 100% clean renewable energy</p> <p>Push for more freight and waste to be shipped on rivers and canals</p> <p>...provide a strong incentive for London's car owners either to give up their vehicles or to change from diesel to petrol, hybrid or electric cars as quickly as possible.</p> <p>Accelerate the programme of replacing diesel buses with hybrids and electric vehicles, ensuring the entire fleet is</p>	<p>Switching London's buses and taxis to be fully electric and helping to switch commercial vans too</p> <p>Increase the number of electric single decker buses in the London fleet and expand the planned trial for double deck electric buses, so that all new replacement buses will be fully electric, while existing hybrid buses will be modified to operate on electric power for more of their journeys</p> <p>Speed up the shift to electric taxis through TfL</p>	<p>[Energy for Londoners will] buy clean energy generated across the city, using it to power GLA and TfL facilities.</p> <p>I will introduce Clean Bus Corridors – prioritising new, clean buses for those services which run on the most polluted roads in the city.</p> <p>I will set a target of only buying clean electric or hydrogen buses from 2020, seeking an agreement across other major European and global cities to do the same, in order to send a signal to bus manufacturers and create a race to the top in clean bus</p>	<p>Transport for London is the capital's largest energy consumer. I will ensure that it uses locally generated energy wherever possible.</p> <p>I will create 'Charging for London' to drive an electric vehicle revolution</p> <p>I will work with boroughs to integrate the patchwork of different charging points owned by different operators into a single, open access 'Charging for London' network.</p> <p>And I will grow 'Charging for London' by creating a network of</p>

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	<p>moved to these technology by 2020.</p> <p>Maintain and extend scrappage grants and loan schemes for black cab drivers so that all their vehicles are zero-emissions capable by 2018, ensuring there is a suitable charging infrastructure for them to run on electric power in all areas of inner London at least.</p> <p>Ensure the electric car charging network is properly maintained and funded and aims to expand it to provide 25,000 charging points across London.</p> <p>Develop more electric vehicle charging networks for vans, car clubs and private cars in local areas in collaboration with local councils.</p>	<p>bulk purchases to drive down the price and then lease or sell on to London's taxi drivers and garages</p> <p>Explore with manufacturers the setting up of a subsidy scheme to reduce the upfront capital costs for driver needed to convert to electric vehicles.</p>	<p>technology.</p> <p>Deliver the electric charging infrastructure, in partnership with the private sector, necessary for a major expansion in the use of electric vehicles.</p> <p>Call upon the Government to introduce a diesel vehicle scrappage scheme to support those who wish to change to a greener car.</p>	<p>'Green Lamp Posts' across the city: replacement street-lamps with charging pillars, financed by the Green Investment Bank as part of an existing loan scheme to replace thousands of London street lamps with less costly and more energy efficient LED lights.</p> <p>I will also enforce the London Plan's existing requirement that one in every five new parking spaces in new developments should be electric.</p> <p>I will introduce an ambitious Boris Bike equivalent for electric cars. Drawing on Paris's successful Autolib scheme – which has over 220,000 registered users – I will create a point-to-point electric car sharing scheme for London.</p>
<b>Community Energy</b>	The [London not-for-profit energy] company will work with community groups, the		[Energy for Londoners will] support local community energy enterprises	I will draw on the example of Bristol and give community energy co-operatives the right to generate

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	public sector and businesses to install and support renewable energy generators across the capital.			<p>solar power from under-used public space, such as the roofs of bus stops and sports halls.</p> <p>And I will work with boroughs, housing association and the Green Investment Bank to help community energy co-ops set up their own green energy projects, with a new programme of 'Solar Powered Estates.'</p> <p>By working with organisation that own a number of properties, such as housing associations, City Hall will be able to package up individual projects and match them with investor finance. This will unlock dozens more projects, like the Brixton Energy Co-Operative, the UK's first inner-city renewable energy co-op.</p>
<b>Residential Energy Efficiency Retrofit</b>	<p>Support and help fund energy-saving measures for homes and businesses such as insulation, smart meters and other related technology</p> <p>Introduce London's own Green</p>	Set a target for CO2 reduction in existing housing stock and speed up action to roll out loft and cavity wall insulation, targeting specific neighbourhoods to increase	<p>Lead on work to cut energy bills for Londoners by promoting the roll out of smart meters and</p> <p>Reduce energy demand by working with the industry to accelerate the roll out of smart</p>	I will also drive change in the private rented sector. As set out in my Housing Manifesto, I will strengthen the London Rental Standard to include minimum energy efficiency standards, decided in consultation with the

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	<p>Deal part-funded by our energy company, creating an ongoing rolling fund from household energy savings.</p> <p>Support and maintain the new boiler scrappage scheme from the GLA, which will help towards reducing air pollution as well as fuel poverty.</p>	<p>take up</p> <p>Expand retrofitting schemes to see existing stock brought up to modern day standards, including using powers to require powers to require private residential landlords to undertake energy efficiency improvements</p> <p>Work with Government and local councils to ensure that when homes are expanding their floor space and hence potential carbon footprint, they are required to carry out energy saving improvements. This is an approach adopted by Lib Dem councils such as Stock &amp; Uttlesford (when Lib Dem led).</p> <p>Insist that a fair share of the new national energy company obligation is ring-fenced for London which is currently losing out.</p>	<p>meters</p> <p>Investment in older homes to make them more energy-efficient as part of the '100 per cent London' campaign to switch London over to clean energy.</p>	<p>Government and industry and progressively tightened over time.</p> <p>I will future-proof London homes I want London's homes to be as energy efficient as possible. So I will work with the Government to secure an Energy Deal for London: devolution of London's share of the new efficiency levy on energy suppliers which will come in 2018.</p> <p>The estimated £80 million per annum this could raise for London could be used to trial innovative 'Pay Back as you Save' schemes, where the upfront costs of retrofitting a home are more than paid for through reduced bills over time. The products I will test include home energy low-interest loans, stamp duty rebates.</p> <p>For tower blocks, I will look to apply a new Dutch model – Energiesprong – which enables rapid whole house retrofit using off-site construction methods, at no upfront cost to the housing association, or local authority and</p>
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				<p>with lower energy bills for residents.</p> <p>Once the concept is proven, I will work with London's banks to create mainstream commercial products allowing consumers to pay back as they save.</p>
<b>Fuel Poverty</b>	We will use our new not-for-profit energy company to offer a range of tariffs suitable for those in fuel poverty and never force anyone who is struggling onto a pre-payment metering			
<b>SME/Commercial sector Energy Efficiency Retrofit</b>	Expand RE:FIT to cover SMEs and work with the business community to widen its reach.			
<b>Heat Networks</b>	Develop district energy anchors to help housing estates, hospitals, prisons, universities and regeneration projects on public land share their energy needs and work with neighbouring businesses to plug into these new energy networks.	<p>Promote decentralised energy systems, combined heat and power schemes and on site renewables such as solar panels, benefiting from the national feed-in tariffs and renewable heat incentives</p> <p>Work with boroughs to ensure that wherever</p>	Back district heating schemes that make the most of waste heat from the tube, such as that in Bunhill, Islington.	<p>I will cut costs and carbon for homes and businesses, by making sure the waste heat produced by TfL gets plugged back into London's district heating networks; the series of underground pipes which provide ultra-efficient shared heating for communities across London.</p> <p>I will also require all major</p>

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		feasible renewable district heating schemes are adopted for all significant new housing developments		developers to connect to or be ready to connect to London's district heating networks, building on Boris Johnson's example which has seen developers plug into networks at Kings Cross, Battersea Park, Myatts Field North and Nine Elms.
<b>Anaerobic Digestion/Energy from Waste</b>	<p>Maximise the opportunity for creating energy from food waste, including sending all public-sector food waste and parks waste to anaerobic digesters and funding pilot projects for newer compost and waste technologies.</p> <p>Block new landfill or mass-burn incineration. We will work with Sutton and Croydon Councils to prevent the proposed mass-burn incinerator in Beddington from going ahead, and explore alternatives.</p> <p>Ensure the waste hierarchy is applied to that recycling facilities don't take waste that</p>	<p>...using our zero waste commitment to drive development of jobs in energy-from-waste schemes anaerobic digestion</p> <p>Increase the amount of energy generated by anaerobic digestion through waste-to energy projects</p> <p>...provide regulatory certainty and so attract private finance to invest in waste infrastructure.</p>	I will lead on reducing the city's waste footprint, working to increase recycling and cut the amount London sends to landfill.	Within my first year of taking office, I will set out a Zero Waste Route Map for London.



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	can be reused and waste facilities that generate energy don't take waste that can be recycled.			
<b>Planning regulations and Energy/Climate</b>	<p>Use the Mayor's planning powers to veto developments that miss major energy opportunities and give more support to boroughs negotiating with developers.</p> <p>Introduce new planning rules to require suitable new roof space to use solar technology, guaranteeing the purchase of the energy via the new public energy company to ensure viability.</p> <p>Use the new London Plan and the wealth of evidence that energy efficient new buildings will have benefits for the whole city, to require excellent energy efficiency standards for new homes</p>	We will be ambitious to make large developments to achieve at least CSH5 and require good liveable space standards	Ensure all new developments meet low carbon, energy efficiency and sustainability standards.	<p>I will continue to back the London Plan's commitment to Zero Carbon Homes, which require new homes to emit 35 percent less carbon compared to 2013 building standards, and will work directly with developers to encourage solar on new-build flats and houses. I will ensure that large developments on publicly-owned land will come with solar panels by default.</p> <p>I will investigate the latest building techniques. One model already in use in Chile, Barcelona Housing Systems, produces ultra-energy efficient homes which are also 75-100 per cent off-grid, thanks to in-built rooftop solar electric and solar thermal, and on-site battery technology. These homes can be built for significantly less than traditional homes – and at a significantly faster pace. I will look at the potential for rapid roll-out of</p>

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				this model in London.
<b>Solar Energy</b>	<p>Turn Around Slow Progress on Solar</p> <p>Jenny Jones: London “still a long way behind, but the [GLA] energy team are now reassessing the potential for solar power ...I developed a business case for a unit in City Hall to unleash a solar revolution in the capital. Later, I commissioned research into setting up a public energy company to go much further. Sian has pledged to set this up...”</p>	<p>Aim to install solar panels across an equivalent of 200,000 London rooftops by 2025</p> <p>Set a target to roll out solar across an equivalent of close to 200,000 London rooftops by 2025 and argue for a higher feed in tariff regime in London.</p> <p>Delivering 750 MW of solar power by 2025 would increase London’s solar capacity by tenfold over the next 10 years – bringing huge benefits to million of people across the capital, including lower bills, new jobs and investment and cleaner, greener energy to power our city.</p>	<p>I will make the most of the city’s roofs, public buildings and land owned by TfL for energy generation by producing a solar energy strategy.</p>	<p>I will spark a solar revolution in London</p> <p>Only one percent of London’s energy is currently produced from solar power. I will aim for a tenfold increase by 2025, which would mean 200,000 London homes powered by sun.</p>
<b>Reducing GLA Group emissions</b>	<p>Cut the GLA group’s building energy usage by 10% in the first year of office, and upgrade all buildings to be ‘A’ rate wherever possible by 2020.</p>	<p>Use the purchasing power of TfL to commission additional renewable generating capacity so the Underground can become sustainably powered</p>	<p>I will make sure City Hall and all other GLA buildings maintain the highest environmental standards on heating, lighting and waste</p>	

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	Become a zero carbon public service by 2020.			
<b>Other Renewables</b>		... promote local hydroelectric schemes on the River Thames and significantly expand the use of water source heat pumps in new developments using temporary abstraction of water from the Thames, as pioneered by the Kingston Heights development		
<b>Fracking</b>		Oppose any proposals for fracking within Greater London	I will use planning power to prevent fracking within Greater London.	
<b>Financing</b>		We will challenge the financial services sector to invest in environmental technologies  Develop plans to co-create a Green Investment Bank for London		
<b>Green Industry</b>	We will back firms creating the high quality jobs of the near future: our rapidly growing	We support ideas for a 'Cleantech Cluster' in West London, thereby creating a	...seeking to establish London as a leader in low-carbon innovation and industry...	I will back London's booming clean tech sector, working with Government to secure funding for a

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	digital and technology sector and new jobs in green energy.	business district for new low-carbon industries in the area covered by Old Oak and Park Royal Development Corporation (ODPC). This will create good jobs for the future and put London at the forefront of the fight against climate change.		West London Clean Tech Hut to rival East London's Tech City.
<b>Green Infrastructure</b>	...new strategic appointment in City Hall to raise the profile of planning for green and blue infrastructure	...will appoint a London 'green infrastructure' commissioner in City Hall, accountable to the Mayor.  ...plan for an extra 100,000 trees by 2020, concentrating on areas with the least tree cover and greatest threat from heat island effects.		My newly-appointed Green Infrastructure Commission will ensure that London's grey infrastructure is complemented by green infrastructure, in order to not only cut carbon but improve public health and quality of life.
<b>International</b>	We will also improve links with city mayors in other countries, playing a leading role again in the C40 coalition working to reduce the climate impact of cities		I will collaborate with other cities through international networks such as the C40 and ICLEI to develop innovative solutions to the challenges of tackling climate change and other environmental challenges cities like London face.	