
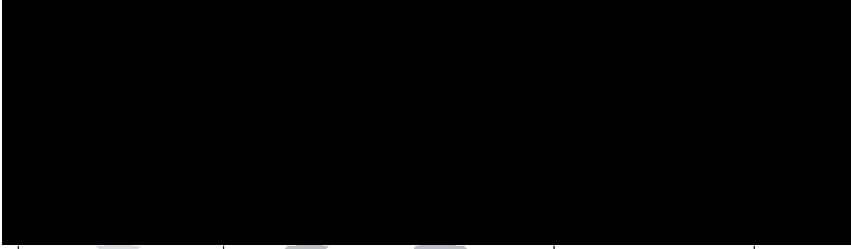


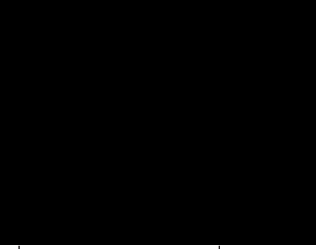


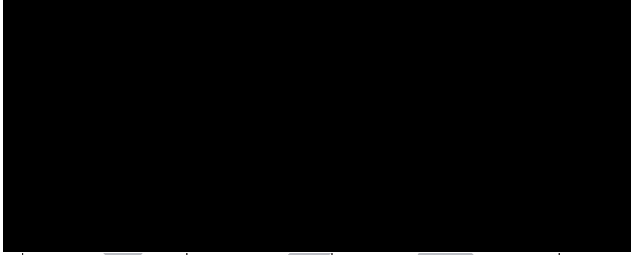





ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Achieving a Hotel Green Star rating that represents world's best practice standards for hotels under any design or as built rating tool as published by the GBCA for hotels</p> 	<ul style="list-style-type: none"> <li>Ensure design of the hotel meets these minimum standards</li> </ul>			
<p>Base building for office Buildings of 10,000m2 GFA or more has been designed and constructed to operate at no less than 25% better than the 5 Star NABERS Energy requirement</p> <p>The average base building energy consumption (calculated on a GFA basis) for all office Buildings of over 10,000m2 achieves at least 30% better than the 5 Star NABERS Energy requirement (above is based on the NABERS Assumptions set out in the PDA)</p> 	<ul style="list-style-type: none"> <li>Ensure design of buildings meets these minimum standards</li> </ul>			
<p>Implement extensive energy metering and sub metering to support energy monitoring</p> 	<ul style="list-style-type: none"> <li>Energy metering strategy to be allowed for in the design of the buildings</li> <li>Energy metering to be utilised to report on performance</li> </ul>			
<p>Behavioural demand reduction supported by education of occupants</p> 	<ul style="list-style-type: none"> <li>Develop and implement on site education programs for tenants, residents and visitors to the site as to how they can participate in energy demand reduction</li> </ul>			

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Undertake a joint feasibility study with the Council of the City of Sydney concerning the provision of a district based energy solution for Barangaroo and the surrounding CBD.</p> <p>Subject to this study, provide space for a tri-generation plant and potential funding for a tri-gen facility</p> 	<ul style="list-style-type: none"> <li>Carry out feasibility study and work on a joint study with the City of Sydney to determine feasibility for a district based energy solution</li> <li>Deliver study</li> </ul>		City of Sydney / Lend Lease	Evidence: Feasibility Study
	<ul style="list-style-type: none"> <li>Depending on the outcomes of the feasibility study above, make provision in design to accommodate tri-gen systems</li> </ul>		Prepared by Lend Lease	Evidence: Design documentation
<p>Enter into discussions with the Council of the City of Sydney the possibility of district based heating, cooling and/or blackwater solutions for Barangaroo and the surrounding CBD.</p> 	<ul style="list-style-type: none"> <li>Commence discussions</li> <li>Implement agreed outcomes</li> </ul>		Lend Lease Lend Lease/ City of Sydney	Evidence: Meeting minutes / study documents
<p>Producing more renewable energy on the site than is required to service public domain and the blackwater treatment plant</p> 	<ul style="list-style-type: none"> <li>Determine load requirements to meet the required kWh to service the blackwater treatment plant and public domain energy loads</li> <li>Make provision in budgets / plans for the site</li> <li>Progressively roll out renewable energy infrastructure</li> <li>Review energy demand and supply balance on an ongoing basis</li> </ul>		Prepared by Lend Lease	Evidence: Annual Report

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
Purchase and voluntary retirement of Renewable Energy Certificates to cover the greenhouse gas emissions generated in connection with the operation of the precinct	<ul style="list-style-type: none"><li>Determine operational energy demand from the site</li><li>Purchase and voluntarily retire RECs and Gold Standard carbon offsets</li></ul>	<div></div>	Prepared by Lend Lease	Evidence: Annual Report
Undertake a feasibility study on the viability of offsite renewable energy generation for Barangaroo Undertake a feasibility study of the Barangaroo 23 MW solar farm initiative located in rural NSW	<ul style="list-style-type: none"><li>Undertake a feasibility study on the viability of the offsite renewable energy generation for Barangaroo including a feasibility study of a Barangaroo 23MW solar farm initiative located in rural NSW</li></ul>		Prepared by Lend Lease.	Evidence: Study
Undertake a feasibility study of the Barangaroo residential solar initiative for 2300 homes in Sydney	<ul style="list-style-type: none"><li>Feasibility studies commissioned and report delivered to the Barangaroo Delivery Authority</li></ul>		Prepared by Lend Lease	Evidence: Report
Offsite renewable energy generation linked to site by real time monitoring and education initiatives	<ul style="list-style-type: none"><li>Provision made in design for real time monitoring of offsite renewable energy generation</li><li>Education initiatives developed and rolled out</li></ul>		Prepared by Lend Lease  Prepared by Precinct Manager. Approved by Lend Lease	Evidence: Visual inspection / annual report  Evidence: Education documents and records
Completion of ecological footprint and carbon footprint reports and assessments	<ul style="list-style-type: none"><li>Reports commissioned and delivered to the Barangaroo Delivery Authority.</li></ul>		Prepared by Lend Lease.	Evidence: Reports

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>The reduction in the embodied carbon footprint for the buildings of 20% compared to standard construction practice.</p> <div></div>	<ul style="list-style-type: none"><li>▪ Determine standard construction practice baseline</li><li>▪ Determine how to achieve 20% reduction target</li><li>▪ Implement alternative materials or construction practices changes</li><li>▪ Report on outcomes</li></ul>	<div></div>	Prepared by Lend Lease.	Evidence: Reports
<p>Enter into a memorandum of understanding with the William J Clinton Foundation so as to enable the Project to be designated as a 'First Stage Development' and be part of a Climate Positive Developments Program</p> <div></div>	<ul style="list-style-type: none"><li>▪ MOU prepared and signed</li><li>▪ Implement outcomes of the MOU</li></ul>		Prepared by Lend Lease.	Evidence: MOU
<p>Work together with the Barangaroo Delivery Authority to target a 75% reduction in carbon emissions from operation of the buildings (as compared to business as usual) through building demand initiatives and in accordance with the PDA obligations.</p> <div></div>	<ul style="list-style-type: none"><li>▪ Target the design of the buildings to achieve this reduction</li></ul>		Prepared by Lend Lease	Evidence: Review of energy modelling for each building



## TRANSPORT COMMITMENTS





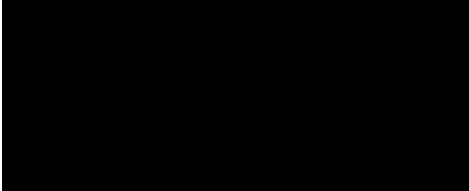

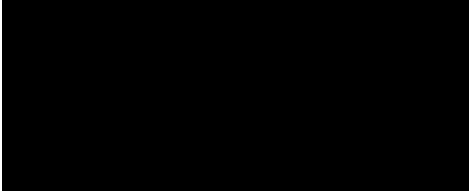
The Climate Positive Initiatives that relate to our Sustainable Transport Strategy are:


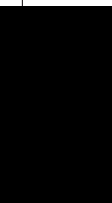
CLAUSE	INITIATIVE	MEASURED
9.13	<p>The preparation of a "Green Travel Plan" and the implementation of appropriate travel initiatives (as agreed to by the Management Committee). Such initiatives to be consistent with those contained in Section 5 of Returnable Schedule 5 of the Final Proposal. These are:</p> <ul style="list-style-type: none"> <li>▪ A site wide communication strategy</li> <li>▪ Development of information sessions</li> <li>▪ A variety of social and healthy living outcomes focussed on walking, cycling, the use of public transport</li> </ul>	
9.13	<p>The achievement of 75% of the initiatives set out in Schedule 4 or as otherwise agreed to by the Management Committee. The relevant transport initiatives included in Schedule 4 are:</p> <p>Implement and fund the following transport initiatives as notes below to an amount not exceeding 75% of the indicated maximum investment:</p> <ul style="list-style-type: none"> <li>e) Pedestrian and cycling provision on and off site (subject to reaching agreement with the relevant authorities) .....\$1.5M</li> <li>f) Contribution towards works supporting the ferry wharves (subject to reaching agreement with the relevant authorities).....\$2.0M</li> <li>g) Provision for operating subsidy to Sussex bus services (subject to reaching agreement with the relevant authorities).....\$1.0M</li> <li>h) Green Travel Plan (including light rail support plus any amounts which are not spent on the above transport items because of failure to reach agreement with authorities) which have been spent on the Green Travel Plan \$5.0M</li> </ul>	
9.10 c) i)	<p>The aim to achieve zero net carbon emissions from journeys to and from work will be satisfied through the purchase of RECs under the terms of the PDA and allowing for transport related emissions at a rate of 23.67kg CO<sub>2</sub> e/m<sup>2</sup> GFA /year.</p>	

This section covers the transportation strategy for the operational phase of the development only. Refer to the Sustainability in Delivery section for discussion of transportation initiatives to be undertaken during the construction phase of the project. .

## ACTION PLAN - TRANSPORT

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
Develop Barangaroo South precinct cycling and pedestrian strategy plan incorporating provision of both on and offsite infrastructure—refer section on Health and Wellbeing considerations to be integrated into the plan	<ul style="list-style-type: none"><li>Identify key consultants to input in to the strategy such as landscape and transport</li><li>Review current best practice through desktop studies</li><li>Engage with key stakeholders including the Barangaroo Delivery Authority and City of Sydney Council to review their vision and needs (including City of Sydney Cycle Strategy and Action Plan 2007-1017)</li><li>Obtain input from the Barangaroo Delivery Authority and their consultants in relation to Barangaroo Central and Headland Park</li><li>Investigate off site options for cycling route connections (e.g. Pyrmont Bridge connection)</li><li>Incorporate strategy plan into TMAP</li><li>Integrate on and offsite cycling and pedestrian infrastructure provision into the masterplan and the basement</li></ul>		Prepared by Lend Lease  Approved by the Authority	Evidence: Plan and travel statistics
Seek a commitment from the NSW Government for the construction of a Barangaroo South ferry terminal/wharf	<ul style="list-style-type: none"><li>Engagement with key stakeholders including Sydney Ferries and Maritime</li><li>Establish cost estimate for the required works</li><li>Provide a cash contribution towards the development of a wharf and associated infrastructure (as required in the PDA)</li></ul>		Initiated by Lend Lease	Evidence: Government Commitment
Provision for operating subsidy to Sussex bus service (subject to reaching agreement with relevant authorities)	<ul style="list-style-type: none"><li>Engage with Sydney Buses / State Transit Authority and provide financial support to extend services to Barangaroo</li></ul>		Lend Lease	Evidence: Provision made

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
				
Develop a Travel Demand Management Plan	 <ul style="list-style-type: none"> <li>Review/brainstorm transport initiatives related to the Barangaroo site with relevant stakeholders (including the Barangaroo Delivery Authority, Transport NSW and City of Sydney Council)</li> <li>Assess cost, time, practicality and political constraints for the initiatives</li> <li>Shortlist initiatives to fit within the required parameters</li> <li>Prepare draft plan for review and comment by stakeholders.</li> <li>Finalise plan and implement.</li> </ul>		Prepared by Lend Lease	Evidence: Plan
Develop a Green Travel Plan for the Barangaroo South precinct	 <ul style="list-style-type: none"> <li>Identify suitable consultants to assist with the preparation of the plan</li> <li>Review current best practice and review plans from other successful or leading firms</li> <li>Consult with prospective tenants to encourage alignment of precinct plan with tenant plans</li> <li>Include light rail support in the plan</li> <li>Green Travel Plan to include at least 75% of the following initiatives: <ul style="list-style-type: none"> <li>A site-wide communication strategy</li> <li>Development of a series of information sessions that present and promote transport alternatives as the new work force and residents move into the precinct</li> <li>Public Art throughout transit stops, spaces, and on-board</li> </ul> </li> </ul>		Prepared by Lend Lease	Evidence: Plan

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
	<ul style="list-style-type: none"> <li>• A programme of walk-to-work and cycle-to-work days</li> <li>• Bike sharing programme/hub (as part of CBD-wide scheme)</li> <li>• Walking and cycling maps/routes (paper + signs + digital)</li> <li>• Walking challenges and competitions using pedometers for residents, workers</li> <li>• Walking and cycling clubs (based around gym/office)</li> <li>• Business-funded sustainable transport initiatives (instead of car packages)</li> <li>• Hire schemes for bikes, boats, scooters, electric cars, roller blades etc.</li> <li>• Subsidised sustainable transport hire schemes for residents</li> <li>• At-stop transport environments are productive e.g. with wi-fi</li> <li>• Creation of campaigns for changing mindsets around owning cars and driving</li> <li>• Encouragement of businesses to purchase low/zero-emission vehicles</li> <li>• Home delivery system using on site retailers</li> <li>• Prepare draft plan for review by relevant stakeholders</li> <li>• Finalise plan and implement</li> </ul>			
Influence the development of public transport to benefit the Barangaroo precinct 	<ul style="list-style-type: none"> <li>• Engage with Transport NSW in relation to the concepts for the CBD Light Rail extension</li> <li>• Contribute amount nominated in the PDA to light rail</li> <li>• Any leftover transport contributions as outlined in the PDA to be directed toward light rail support.</li> </ul>		The Authority to maintain membership on the Light Rail Steering Committee	Evidence: Meeting Minutes

## BUILDING MATERIALS COMMITMENTS



The Climate Positive Initiatives that relate to our materials strategy are:

CLAUSE	INITIATIVE	MEASURED
9.13	Completion of ecological footprint and carbon footprint reports and assessments	[REDACTED]
9.13	Reducing the embodied carbon per square metre of the building's each Works Portion by 20% compared to 'standard construction practice' as at the Commencement Date	For a building, [REDACTED]
9.13	<p>The achievement of 75% of the initiatives set out in Schedule 4 or as otherwise agreed to by the Management Committee. The initiatives relating to materials included in Schedule 4 are:</p> <ul style="list-style-type: none"> <li>a) Develop an engagement strategy for key stakeholders to support material selection initiatives and focussed on: <ul style="list-style-type: none"> <li>(i) the preservation of natural resources</li> <li>(ii) the protection of human health and ecosystems</li> <li>(iii) support local industry and innovative approaches</li> </ul> </li> <li>b) Communicate our approach and outcomes to the broader industry to inspire change</li> <li>c) Conduct a lifecycle analysis of the top 20 materials used on the site</li> </ul>	[REDACTED]

## ACTION PLAN – BUILDING MATERIALS

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
Completion of ecological footprint and carbon footprint reports and assessments	<ul style="list-style-type: none"> <li>Reports commissioned and delivered to the Barangaroo Delivery Authority.</li> </ul>	[REDACTED]	Prepared by Lend Lease	Evidence: Reports
Develop an engagement strategy for key stakeholders to support material selection initiatives and focussed on:	<ul style="list-style-type: none"> <li>Develop a sustainable supply chain filter for materials selection processes based on these objectives</li> <li>Implement filter in procurement and develop performance based specifications</li> </ul>		Prepared by Lend Lease	Evidence: Filter process review
(i) the preservation of natural resources			Prepared by Lend Lease	Evidence: Procurement documentation
(ii) the protection of human health and ecosystems				
(iii) supporting local industry and innovative approaches (eg minority supply groups)				
Conduct a lifecycle analysis of the top 20 materials used on the site	<ul style="list-style-type: none"> <li>LCA conducted on baseline project</li> <li>Top 20 materials selected for further analysis – including options for alternatives</li> </ul>		Prepared by Lend Lease	Evidence: LCA reports
The reduction in the embodied carbon footprint for the buildings of 20% compared to standard construction practice.	<ul style="list-style-type: none"> <li>Determine standard construction practice baseline</li> <li>Determine how to achieve 20% reduction target</li> <li>Implement alternative materials or construction practices changes</li> <li>Report on outcomes</li> </ul>		Prepared by Lend Lease	Evidence: Embodied carbon reports
Communicate our approach and outcomes to the broader industry to inspire change	<ul style="list-style-type: none"> <li>Participate in and host industry forums on sustainability to discuss Barangaroo South's sustainability strategy including the materials strategy.</li> <li>Contribute to sustainability related industry publications outlining the sustainability strategies at Barangaroo.</li> <li>Share publicly the results of the embodied carbon, eco footprint and carbon footprint programs with lessons learnt</li> </ul>		Prepared by Lend Lease	Evidence: Reports, articles and presentation materials

## 2.0 WATER POSITIVE

### 2.1 BACKGROUND

Globally, buildings are responsible for 12% of water use. The Barangaroo South site represents a significant opportunity to conserve what is perhaps Australia's most precious resource, water. Barangaroo South will implement a comprehensive strategy for innovative water use and conservation that aims to represent a model for sustainable development.

Lend Lease aims to ensure a water positive outcome for Barangaroo South, defined as being capable of exporting recycled water in excess of the potable water use at Barangaroo South and Baranagroo Central.

Across the precinct once it is in the operational phase and including the exported water impact, we estimate that we will have the capability to achieve a 100% net reduction in potable water if export customers can be identified to accept the exported treated water. For the purpose of defining standard practice and business as usual as a comparison at Barangaroo, the following definitions were agreed during the bid:

#### **Standard practice / Business as Usual**

- Comparison to precincts with no water treatment systems
- Each building would normally have had cooling towers
- Residential buildings conform to the minimum BASIX compliance requirements
- All fittings and fixtures modelled as 2A rated (note A ratings have now changed to Star ratings for fittings) eg 2 Star Showers, 3 Star WCs

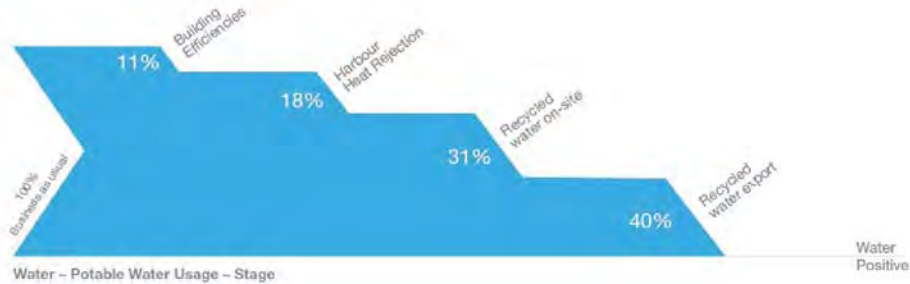
### 2.2 PROJECT ASPIRATIONS

Lend Lease's water strategy for Barangaroo South aims to achieve a net water positive outcome in operation through water efficient design and the capturing and recycling of water for on and offsite use.

The water strategy for Barangaroo South is also designed to benefit the broader Barangaroo site and consists of the following key steps:

- Promoting efficient water use in each building on site
- Replacing water consumption in cooling towers with a harbour heat rejection system
- Providing a blackwater treatment plant that provides a non potable recycled water supply to the precinct
- Creating capacity to export sufficient recycled water to offset the amount of potable water consumed on site. The export of recycled water will reduce the potable water consumed in nearby buildings.
- Rainwater reuse for landscaping

## Water



Key objectives for the project are:

- Net water positive in operation by being capable of supplying additional recycled water to the surrounding area to offsetting potable water use at Barangaroo South and Central.
- Buildings to be water efficient in design to achieve 6 Star Green Star Commercial and 5 Star Green Star Multi Unit Residential and Retail As Built ratings
- Replace non-potable water use with recycled water produced on site
- On site rainwater capture and reuse (although such an approach will be minimised given the availability of treated water).
- On-site stormwater treatment meeting National Best Practice
- Diversion of external stormwater passing through Barangaroo South to flow north along Hickson Rd for future use in Stage 2 and parkland





## 2.3 STRATEGY

Our proposed water management strategy is based on the following processes:

- a) Reduce water demand by employing efficient fittings and fixtures as well as water sensitive urban design practices
- b) Where possible, replace potable water uses with recycled or other water sources
- c) Provide blackwater treatment for waste water
- d) Capture rainwater for recycled water use.
- e) Use treated water for re-use within parklands

## 2.4 KEY INITIATIVES

- Relevant infrastructure is delivered, commissioned and certified as being fully operational which is capable of capturing, treating, storing, delivering and exporting an amount of recycled water which is not less than the amount of potable water which is used or is reasonably capable of being used in Premises progressively through the development.
- Enter into discussions with the Council of the City of Sydney in good faith regarding the possibility of district based blackwater solutions for Barangaroo and surrounding CBD.
- Showcase the central plant and sustainability strategies to provide an educational element for visitors.
- Divert external stormwater passing through Barangaroo South to flow north along Hickson Rd for future use in Stage 2 and parkland.
- Use of treated water for headland park and Barangaroo Central buildings
- Barangaroo central buildings tied into the Barangaroo South sewage treatment plant.
- On site stormwater treatment will exceed National Best Practice standards of 80% reduction in suspended solids and 45% reduction in nitrogen and phosphorous.
- Rainwater will be harvested from building roofs, when not used for 'green roofs'.

# WATER COMMITMENTS



The relevant Climate Positive Benchmarks and Climate Positive Initiatives relating to water management are set out below. The benchmarks relate to the key targets of the Barangaroo South development and the initiatives relate to a variety of supporting actions related to the development and /or beyond.

In summary, Climate Positive Benchmarks relating to water are:





CLIMATE POSITIVE BENCHMARKS - WATER	MEASURED
<p>Relevant infrastructure is delivered, commissioned and certified as being fully operational which is capable of capturing, treating, storing, delivering and exporting an amount of recycled water which is not less than the amount of potable water which is used or is reasonably capable of being used in Premises progressively through the development on the milestones below:</p> <ul style="list-style-type: none"> <li>i. Premises having an aggregate GFA of not less than 40,000 m²</li> <li>ii. Premises having an aggregate GFA of not less than 240,000 m²</li> <li>iii. Premises having an aggregate GFA of the total developable GFA and additional 60,000m² GFA to be located on Stage 2</li> <li>iv. Delivering recycled water to Stage 2 which is not less than the amount of potable water which is used or is reasonably capable of being used in built form (excluding any located in the Headland Park) having an aggregate GFA of not less than 60,000m².</li> </ul>	
<p>Enter into discussions with the Council of the City of Sydney in good faith regarding the possibility of district based blackwater solutions for Barangaroo and surrounding CBD</p>	


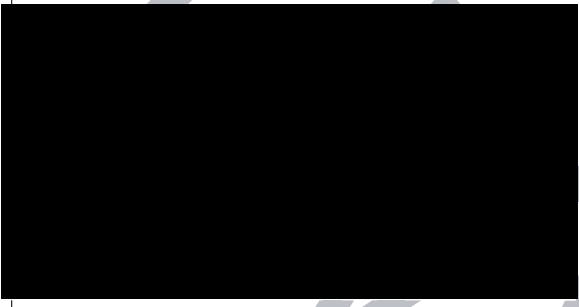


In summary, the Climate Positive Initiatives related to water management and reduction are:

CLAUSE	INITIATIVE	MEASURED
9.13	<p>The achievement of 75% of the initiatives set out in Schedule 4 or as otherwise agreed to by the Management Committee. The initiatives relating to water included in Schedule 4 are:</p> <ul style="list-style-type: none"> <li>a) Showcase the central plant and sustainability strategies to provide an educational element for visitors</li> <li>b) Divert external stormwater passing through Barangaroo South to flow north along Hickson Rd for future use in Stage 2 and parkland</li> <li>c) On site stormwater treatment will exceed National Best Practice standards of 80% reduction in suspended solids and 45% reduction in nitrogen and phosphorous</li> <li>d) Rainwater will be harvested from building roofs, when not used for 'green roofs'.</li> </ul>	



## WATER - ACTION PLAN

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Relevant infrastructure is delivered, commissioned and certified as being fully operational which is capable of capturing, treating, storing, delivering and exporting an amount of recycled water which is not less than the amount of potable water which is used or is reasonably capable of being used in Premises progressively through the development</p> 	<ul style="list-style-type: none"> <li>Sustainable design to specify efficient use of water / low water demand</li> <li>Provide dual reticulation of potable and non-potable water on site and to off-site users</li> <li>Provide blackwater treatment plant to recycle waste water</li> </ul>			
<p>Enter into discussions with the Council of the City of Sydney in good faith regarding the possibility of district based blackwater solutions for Barangaroo and surrounding CBD</p> 	<ul style="list-style-type: none"> <li>Commence discussions</li> <li>Implement agreed outcomes</li> </ul>			
<p>Showcase the central plant and sustainability strategies to provide an educational element for visitors</p> 	<ul style="list-style-type: none"> <li>Make provision in design for visitor education facilities</li> <li>Conduct visitor education programs</li> <li>Develop and conduct ongoing community and visitor education programs</li> </ul>			
<p>Divert external stormwater passing through Barangaroo South to flow north along Hickson Rd for future use in Stage 2 and parkland</p>	<ul style="list-style-type: none"> <li>Design external storm water management system in accordance with design and catchment management best</li> </ul>		Prepared by Lend Lease	Evidence: Design documentation

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
 <p>On site stormwater treatment will exceed National Best Practice standards of 80% reduction in suspended solids and 45% reduction in nitrogen and phosphorous</p>	<p>practice</p> <ul style="list-style-type: none"> <li>Construct in accordance with design</li> <li>Design the treatment of on-site storm water management system to national best practice and most efficient event</li> </ul>			
 <p>Rainwater will be harvested from building roofs, when not used for 'green roofs'.</p>	<ul style="list-style-type: none"> <li>Construct in accordance with design</li> <li>Rainwater capture to be part of building design</li> </ul>			
	<ul style="list-style-type: none"> <li>Construct in accordance with design</li> </ul>			

## 3.0 ZERO WASTE

### 3.1 BACKGROUND

United Nations Sustainable Buildings and Construction Initiative note that buildings are responsible for 30-40% of the world's solid waste generation. The built environment produces waste through the extraction and manufacture of materials, the construction process, the operational life and finally through deconstruction. In this section, we focus specifically on waste generated during operation.

Lend Lease understands the importance of both minimising the generation of waste and importantly the value of waste as a resource and has set of goal of zero greenhouse gas emissions associated with the waste disposal from the development. Lend Lease is also exploring options to achieve a net zero waste outcome for the precinct, this being defined as the diversion of more material from landfill than is contributed by the operation of Barangaroo South.

For Barangaroo, Lend Lease proposes an integrated waste management solution providing world leading resource recovery and reduction in greenhouse gas emissions. Our integrated strategy is designed to exceed the Authority's zero waste greenhouse gas emission target through a combination of both on and offsite initiatives.

Our strategy is based on the principles of reduce, reuse, recycle and recover. It is designed to deliver the following outcomes;

- 100% reduction in greenhouse gas emissions from the mixed waste stream (when compared with a landfill based disposal option)
- 80% diversion of operational waste from landfill
- 97% diversion of construction waste from landfill

### 3.2 PROJECT ASPIRATIONS

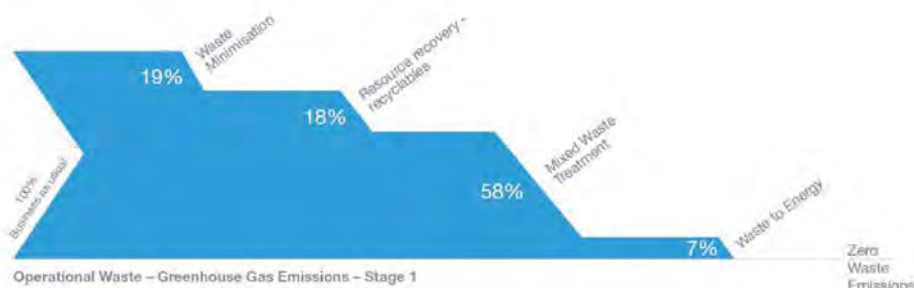
Lend Lease's waste strategy for Barangaroo South aims to achieve zero net carbon emissions from waste generation by reducing waste production, maximising resource recovery and treating waste streams off site in order to capture energy and maximise reuse of material. These initiatives will be supported by a precinct wide approach to waste management that includes education, reporting and monitoring and the use of shared facilities on site, and advanced treatment facilities off site.

The strategy for waste management is to:

- Reduce waste generation
- Improve resource recovery of recyclables
- Utilise advanced resource recovery treatment for residual waste to achieve a net zero greenhouse gas emissions outcome from the treatment and disposal of waste from Barangaroo South
- Look to offer this treatment to other parts of the city to deliver a net zero waste outcome



## Waste



Where Business As Usual means the traditional waste disposal process where mixed residual waste is landfilled.

This section covers waste management for the operational phase of the development only. Refer to the Sustainability in Delivery section for discussion of waste minimisation and management approaches to be undertaken during the construction phase of the project.

### 3.3 STRATEGY

Our proposed waste management strategy is based on the following processes:

- Sustainable consumption and waste minimisation through education and awareness raising, information and monitoring systems, active intervention / assistance and a focus on product stewardship and extended producer responsibility.
- Maximising source segregation through on site facilities and a single waste contractor (an Approved Operator) covering collection and disposal for the precinct. Waste storage and collection will be simple and easy to use with an aim to improve correct waste segregation to maximise resource recovery.
- Maximise resource recovery using recycled and mixed waste treatment processes
- Investigate offering the advanced resource recovery treatment option to other parts of the city to deliver a net zero waste outcome





### 3.4 KEY INITIATIVES

- Engage an Approved Operator to process and dispose of waste in a manner which maximises the recovery of recyclable material, minimises the diversion of non-recyclables to landfill and minimises the net carbon emissions from the disposal of waste, such as methane capture and conversion into energy so as to achieve a minimum 80% reduction in disposal of operational waste to landfill.
- Either the waste processing and disposal agreement outlined above continues to be binding on the relevant parties (and is being complied with and has an unexpired term of not less than 3 years) or otherwise a new waste processing and disposal agreement (on terms reasonably acceptable to the Barangaroo Delivery Authority) has been entered into by Lend Lease with an Approved Operator, under which the Approved Operator agrees to process and dispose of waste in accordance with the Climate Positive Waste Principles.
- Establish at-source segregation through precinct waste management practices including consideration for glass, co-mingled recyclables, paper and cardboard, soft plastics, cooking oil, green garden waste and residual materials.
- Develop a plan to promote sustainable consumption and waste minimisation through education initiatives across the precinct.

Investigate offering the advanced resource recovery treatment option to other parts of the city to deliver a net zero waste outcome.

## WASTE COMMITMENTS



The relevant Climate Positive Benchmarks and Climate Positive Initiatives relating to waste management are noted below. The benchmarks relate to the key targets of the Barangaroo South development and the initiatives relate to a variety of supporting actions related to the development and /or beyond.

In summary, Climate Positive Benchmarks relating to waste are:

CLIMATE POSITIVE BENCHMARKS - WASTE	MEASURED
Enter into a waste processing and disposal agreement with an Approved Operator or under which the Approved Operator agrees to process and dispose of waste in accordance with the Climate Positive Waste Principles from that part of Barangaroo South which is developed from time to time.	[REDACTED]
The waste processing and disposal agreement (noted above) continues to be binding, is being complied with and has an unexpired term of not less than three years or enter into a new waste processing and disposal agreement in accordance with the above requirements	[REDACTED]





The Climate Positive Waste Principles referred to above mean:


- a) a process which is capable of dealing with recyclable materials and mixed waste streams from Barangaroo South in a manner which maximises the recovery of recyclable material, minimises the diversion of materials to landfill and minimises the net carbon emissions from the disposal of waste, such as methane capture and conversion into energy so as to achieve a minimum of 80% reduction in disposal of operational waste to landfill ; and
- b) a willingness to work with the Barangaroo Delivery Authority to establish and implement a commercially feasible strategy with the objective of establishing Barangaroo as a zero waste community.

In summary, the Climate Positive Initiatives related to waste management and reduction are:

CLAUSE	INITIATIVE	MEASURED
9.13	<p>The achievement of 75% of the initiatives set out in Schedule 4 or as otherwise agreed to by the Management Committee. The initiatives relating to waste included in Schedule 4 are:</p> <ul style="list-style-type: none"> <li>Promote sustainable consumption and waste minimisation through education initiatives across the precinct</li> </ul> <p>Establish at-source segregation through precinct waste management practices</p>	[REDACTED]

## ACTION PLAN – WASTE

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Engage an Approved Operator to process and dispose of waste in a manner which maximises the recovery of recyclable material, minimises the diversion of non-recyclables to landfill and minimises the net carbon emissions from the disposal of waste, such as methane capture and conversion into energy so as to achieve a minimum 80% reduction in disposal of operational waste to landfill</p> 	<ul style="list-style-type: none"> <li>▪ Appoint an Approved Operator for waste disposal for the precinct</li> <li>▪ Enter into a waste processing and disposal agreement with the Approved Operator, under which the Approved Operator agrees to process and dispose of waste in accordance with the Climate Positive Waste Principles<sup>1</sup></li> </ul>			
<p>Either the waste processing and disposal agreement outlined above continues to be binding on the relevant parties (and is being complied with and has an unexpired term of not less than 3 years) or otherwise a new waste processing and disposal agreement (on terms reasonably acceptable to the Barangaroo Delivery Authority) has been entered into by Lend Lease with an Approved Operator, under which the Approved Operator agrees to process and dispose of waste in accordance with the Climate Positive Waste Principles</p> 	<ul style="list-style-type: none"> <li>▪ Review performance of Approved Operator over previous period</li> <li>▪ Decide on extension of contract or find another approved operator</li> <li>▪ Enter into extended or new agreement</li> </ul>			
<p>Establish at-source segregation through precinct waste management practices including consideration for glass, co-mingled recyclables, paper and cardboard, soft plastics, cooking oil, green garden waste and residual materials.</p> 	<ul style="list-style-type: none"> <li>▪ Integrate waste segregation requirements into design</li> <li>▪ Ensure that designs incorporate Green Star requirements</li> <li>▪ Review materials specification to reduce waste generation, maximise life of products and ensure recyclability</li> <li>▪ Include requirement to participate in waste minimisation and management processes as part of Green Lease requirements</li> </ul>			
			<p>Prepared by Lend Lease</p>	<p>Evidence: Basement and building design applications</p>
			<p>Prepared by Lend Lease</p>	<p>Evidence: Leases</p>

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
	<ul style="list-style-type: none"> <li>Upon occupation, ensure facilities are available, clearly signed and convenient</li> </ul>	[REDACTED]	Prepared by Precinct Manager Approved by Lend Lease	Evidence: Visual inspection
	<ul style="list-style-type: none"> <li>Review waste performance against objectives and targets</li> </ul>		Prepared by Precinct Manager Approved by Lend Lease	Evidence: Annual report
	<ul style="list-style-type: none"> <li>Amend waste management processes to improve performance</li> </ul>		Prepared by Approved Waste Operator / Precinct Manager Approved by Lend Lease	Evidence: Annual report
 <p>Develop a plan to promote sustainable consumption and waste minimisation through education initiatives across the precinct</p>	<ul style="list-style-type: none"> <li>Review current best practice education and waste minimisation processes</li> <li>Engage with stakeholders to review their needs / desires in relation to waste management practices</li> <li>Develop an education program for the precinct to promote sustainable consumption and waste minimisation</li> <li>Implement occupant education and engagement process to ensure maximum knowledge of and participation in waste management processes</li> </ul>		Prepared by Approved Waste Operator / Precinct Manager Approved by Lend Lease	Evidence: Program / Plan + Annual report

## 4.0 COMMUNITY WELLBEING

### 4.1 BACKGROUND

Contemporary thinking about the successful regeneration of inner city neighbourhoods acknowledges the critical importance of the human dimension; recognising that an integrated approach to planning for place is fundamental to community wellbeing and quality of life.

In the past decade, there has been increasing recognition that community wellbeing is based on more than just economics. This has stimulated research to define fulfilment and quality of life through measures related to social, cultural, spiritual, economic and environmental dimensions.

Wellbeing can most simply be defined in terms of the integrated concepts of health, comfort, happiness and prosperity – ‘quality of life’. Community wellbeing includes the aspirations that people have not only for themselves, but for the community in which they live and work. Strong communities are places where people feel safe in their local neighbourhood, are able to access the services they require and participate in all facets of life, have active and healthy lifestyles, and are resilient to change.

An integral component of the planning and development of Barangaroo South will be the provision of community focused infrastructure, programs and events which aim to respond to the needs, drivers and aspirations of the emerging community at Barangaroo and play an integral part in positioning the precinct as a key destination and contributor to Sydney’s role as a global city.

A hierarchical approach has been adopted with an overarching Barangaroo Community Development Strategy providing a framework and vision for the future development of community infrastructure, programming and events and definition of community goals, targets and measures. The 50 PDA community, learning and skilling programs (or other relevant programs), are embedded within the strategy, objectives and action plans of the Community Development Strategy. The associated Action Plans will provide an additional layer of understanding with specific goals, strategies, implementation processes, timeframes and the resources and potential partners required for implementation and ongoing delivery. This has been integrated into the Climate Positive Work Plan. The diagram over the page illustrates the hierarchical relationship between the overarching Barangaroo Community Development Strategy and the corresponding Action Plans.

The following table lists each of the overarching objectives and the related thematic Actions Plans which are recommended to be undertaken.

CULTURE AND IDENTITY	LIFELONG LEARNING	HUMAN AND COMMUNITY SERVICES	ACTIVE AND HEALTHY LIVING	COMMUNITY INVESTMENT
Culture and Public Art Plan	Skilling and Employment Strategy - general	Human and Community Infrastructure and Services Plan	Active and Healthy Living Plan, including Biodiversity enhancement	Housing Strategy – including Affordable Housing
Place Activation Plan	Indigenous Skilling and Employment Strategy	Childcare Services Plan Barangaroo South	Green Travel Plan	Mixed Use Strategy - affordable, Retail and Commercial Space Plan
Public Domain Guidelines	Barangaroo Skills Exchange Development Brief	ICT & WiFi Plan	Healthy Buildings	Business Model and Ongoing Management Plan
	Education Plan			Social Return on Investment Tool
				Social Enterprise Support Plan

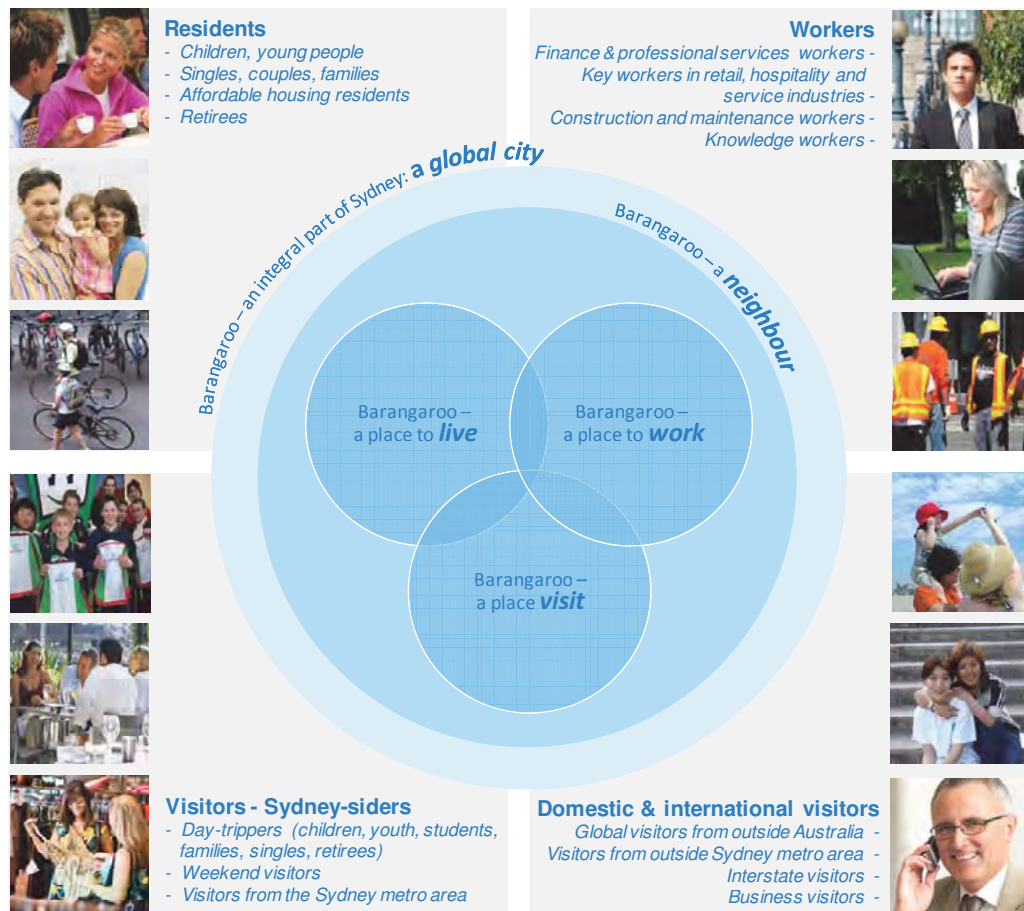


## WHO IS THE BARANGAROO COMMUNITY?

The location, scale and significance of Barangaroo South will position it as relevant to the needs and aspirations of local, regional and even global audiences.

As a place to live and work, Barangaroo South seeks to be a liveable neighbourhood and lively work environment. Overtime its range of cultural, educational and recreational amenities and programs will ensure its position as a great destination for Sydney-siders and visitors to the city.

Potentially its role as a key commercial node and focus of education, research and innovation will establish a broader significance globally.





## 4.2 CULTURE AND IDENTITY

Culture and Identity at Barangaroo South will recognise and address:

- Existing and potential cultural influences and opportunities at Barangaroo South and within the overarching context of Sydney City
- Existing cultural infrastructure provision and programs within Sydney City and gaps and opportunities for Barangaroo South
- Activation of Barangaroo South through the delivery of programs, events and activities
- Cultural heritage, identity and diversity (memories, values, aspirations, legacy) of key audiences, including the maritime and migrant history of Barangaroo
- Indigenous and multicultural opportunities
- Public art including curatorship, procurement and management
- Cultural stakeholders and partnerships
- Sustainable delivery, resource requirements and management model/s and processes for cultural infrastructure, programs, activities and events

### 4.2.1 Project Aspirations

*Through culture, public art and events, Barangaroo South will enrich the daily life of the community and reinforce Sydney's identity as the world's most enjoyable city.*

- Sydney's identity as the world's most enjoyable city will be reinforced through the range of cultural programming, events and activities at Barangaroo South.
- The cultural facilities, programs and events at Barangaroo South will ensure that it is recognised as a rich and inclusive cultural destination over time.
- Public art will be embedded throughout Barangaroo South
- The Indigenous culture, history and heritage, cultural diversity and identity of Sydney and Barangaroo South will be celebrated.
- The rich maritime and migrant site history of Barangaroo interpreted
- The multicultural identity of Sydney's community will be reflected through the events and activities at Barangaroo South.
- Barangaroo South will be recognised as a key destination to experience an exciting and diverse program of events and activities.

Lend Lease's cultural and identity strategy for Barangaroo South aims to deliver a culturally diverse precinct that successfully integrates and connects with the adjoining city areas and reflects both the indigenous and recent post-settlement history of the area.

We aim to celebrate and revive cultural heritage and the sense of local and regional identity, with structures and systems that build on this heritage and foster a new culture of sustainability.



#### 4.2.2 Strategy

Our proposed Culture & Identity Strategy includes:

- A 'Culture and Public Art Plan' – addressing:
  - planning, delivery, resourcing and ongoing management of cultural infrastructure and programming.
  - public art and the associated curatorial processes (permanent, temporary and ephemeral art works and art incubator programs), commissioning, design themes, evaluation processes, project management, maintenance, decommissioning processes (where appropriate).
- A 'Place Activation Plan' – addressing planning, resources and delivery of programs, events and activities.
- Dynamic and diverse infrastructure, programs and events which aim to activate Barangaroo South and reinforce Sydney's identity as the world's most enjoyable city.
- Providing an adaptive, multipurpose, cultural facility that may include a sustainability and education centre at Barangaroo South as part of the 10,000m2 community space provision.
- An Interpretive Strategy.

The strategy will be further articulated in the Community Development Strategy (CDS) or equivalent – and the strategies that emerge as part of the detailed action plans.

#### 4.2.4 Key Initiatives

Key objectives of the cultural and Identity strategy are to:

- Develop and implement a Community Development Strategy.
- Develop a Culture & Public Art Plan
- Develop a Place Activation Plan
- Provide multipurpose cultural, community and learning facilities (total community space 10,000m2).

### 4.3 LIFELONG LEARNING

Lifelong Learning at Barangaroo South will recognise formal and non-formal learning opportunities and address:

- Infrastructure requirements to facilitate lifelong learning
- Programs – including, community education, schools programs, skilling and training, research and development opportunities
- Delivery partners and funding opportunities and resourcing requirements and opportunities
- Sustainable delivery and management models to ensure ongoing lifelong learning at Barangaroo South beyond completion of construction

#### 4.3.1 Project Aspirations

Through education and skills training, Barangaroo South will create a learning legacy beyond its boundaries and be an exemplar in its delivery and practices for sustainable learning and future skilling.

- Barangaroo South will be recognised city-wide as a place to access lifelong learning infrastructure and programs, including:
  - Community and schools based learning
  - Training and apprenticeships (including Indigenous participants)
  - Sustainability skilling (including green, cultural, safety programs)
  - Community education opportunities
  - Research and development opportunities
- A range of partners including existing public and private learning providers will contribute to the delivery of programs and potentially infrastructure at Barangaroo South
- A management model for lifelong learning will be developed and implemented including potential partnerships, funding opportunities and relevant stakeholders.
- The opportunity will exist to be engaged in lifelong learning at Barangaroo South through the provision of education programs prior to completion of the first facilities.

Lend Lease's Life Long Learning strategy for Barangaroo South aims to promote positive impacts for the immediate community and ensure the new community creates a beneficial impact on other communities both locally and globally.

Lend Lease will develop Community Learning and skilling programs over 5 years at Barangaroo South with a network of public and private partnerships

#### 4.3.2 Strategy

Our proposed Lifelong Learning Strategy includes;

- 'Skilling and Employment Strategies' for Indigenous and non-Indigenous participants including a sustainable ongoing delivery, resourcing and management model
- Barangaroo Skills Exchange (incorporating Green Skills) - a virtual and physical space providing onsite learning and training opportunities (now and for the operational precinct) and the development of a Business Plan for the establishment of an appropriate entity.
- Opportunities for all to learn about sustainable buildings communities and lifestyles, green building, urban renewal, and climate change.
- Partnerships with relevant agencies and learning providers and accessing funding opportunities
- An 'Education Plan' which addresses infrastructure requirements, resourcing, programs and events to facilitate lifelong learning
- Up to 8 hours of training relevant to sustainability principles and practices employed across the Project.
- 20% of trade work contracted is to be undertaken by apprentices or trainees (e.g. 1 in 5 workers on site will be an apprentice). Must be reached once 25% contracted work is complete.
- To exceed the NSW Government's Aboriginal Participation in Construction Guidelines by 10%- ATSI Participation Plan
- Explore the opportunity to create an on-site tertiary research facility

This section covers the Economy strategy for the design and operational phase of the development only. Refer to the Sustainability in Delivery section for discussion of Economy strategies to be undertaken during the construction phase of the project.

The strategy will be further articulated in the Community Development Strategy (CDS) or equivalent – and the strategies that emerge as part of the detailed action plans.

#### 4.3.3 Key Initiatives

Key objectives of the cultural and Identity strategy are to:

- Develop and implement a Community Development Strategy, including:
  - Skilling & employment plan.
  - Indigenous skilling & employment plan.
  - Barangaroo Skills Exchange (incorporating Green Skills).
  - Education Plan
- Provide multipurpose cultural, community and learning facilities (total community space 10,000m2).

### 4.4 HUMAN AND COMMUNITY SERVICES

#### 4.4.1 Background

Human and Community Services at Barangaroo South will address infrastructure and programs which may include the following themes:

- Emergency services
- Health services
- Government and welfare services
- Government agencies
- Housing support services
- Youth services
- Senior citizen services
- Community centres, meeting rooms
- Child care services
- ICT and precinct wide WIFI (infrastructure and ongoing management)

#### 4.4.2 Project Aspirations

Barangaroo South will meet the human and community service needs of its communities and support its position as a socially inclusive place and a key destination for youth.

- Partnerships with relevant government and non-government providers will deliver appropriate human and community services, infrastructure and programs to meet the emerging needs and aspirations of Barangaroo's community where possible.
- Where possible, we will determine and address existing gaps in service provision within adjoining communities
- ICT and free WIFI at Barangaroo South will encourage social connections and flexibility in working and communication opportunities for all.
- Through the provision of youth and children's Services, Barangaroo South aims to be recognised as a family friendly destination.
- Lend Lease will provide at least one child care facility designed, developed and delivered in a manner consistent with the CoS Policy
- Lend Lease aspires to create a Barangaroo community with a sense of belonging, ownership and connection.

#### 4.4.3 Strategy

Our proposed Human and Community Services Strategy includes;

- A 'Human and Community Infrastructure and Services Plan' which recommends infrastructure and programs to be delivered at Barangaroo South and sustainable delivery and ongoing management model/s (including potential partners).
- A 'Childcare Services Plan'
- An 'ICT & WiFi Plan' - ICT and free precinct wide WiFi infrastructure
- Community infrastructure which aims to engender a sense of community belonging, ownership and connection including the establishment of the Barangaroo Innovation Centre

The strategy will be further articulated in the Community Development Strategy (CDS) or equivalent – and the strategies that emerge as part of the detailed action plans.

#### 4.4.4 Key Initiatives

- Develop and implement a Community Development Strategy, including:
  - 'Human and Community Infrastructure and Services Plan'
  - 'Childcare Services Plan'
  - 'ICT & WiFi Plan'
  - Brief and plans for the Barangaroo Innovation Centre
- Provide multipurpose cultural, community and learning facilities (total community space 10,000m2).

## 4.5 ACTIVE AND HEALTHY LIVING

### 4.5.1 Background

Active and Healthy Living at Barangaroo South will address:

- Provision of formal and informal Public Realm and their ongoing management and maintenance
- A bio-diverse landscape design that promotes natural habitat and ecological value on the site.
- Identification of potential programs, activities and events which promote active and healthy lifestyles for the emerging residents, workers and visitors at Barangaroo South and models for their ongoing coordination and delivery
- Infrastructure to support and foster active transport (bike storage, toilets, change and shower facilities, shade, street furniture, signage, etc...).
- Linkages and accessibility to the broader Sydney CBD and public transport nodes
- Personal safety at Barangaroo South (Crime Prevention Through Environmental Design – CPTED)
- Compliance with AS1428 Design for Access and Mobility and Disability Discrimination Act 1992
- Sale of local environment friendly (low impact) food production
- Sale of healthy food choices at Barangaroo South

### 4.5.2 Project Aspirations

*Through active and healthy living opportunities everyone who comes in contact with Barangaroo South has a chance to shape and enrich their lives.*

- Partnerships with relevant government and non-government providers to deliver appropriate human and community services, infrastructure and programs to meet the emerging needs and aspirations of Barangaroo South's community.
- A site wide ecological planning regime that is integrated with the planning and design of the green spaces to the north, central parklands and headland park
- Lend Lease will, where possible, determine and address existing gaps in service provision within adjoining communities
- Foster the sale of local environment friendly food production at Barangaroo South
- Foster the sale of healthy food choices at Barangaroo South
- ICT and free WIFI at Barangaroo South will encourage social connections and flexibility in working and communication opportunities for all.
- Barangaroo will be recognised as a family friendly destination.
- Lend Lease aims to create a Barangaroo community with a sense of belonging, ownership and connection.

Lend Lease's Active and Healthy living strategy for Barangaroo South aims to promote the health and wellbeing of both the permanent population of residents and workers and the temporary population of project

and construction teams. This goal is aligned to creating a successful and thriving community at Barangaroo South that assists in enriching people's lives.

The core master planning, design and architecture will provide a strong base to present a variety of place making initiatives that will assist in activating and optimising the use of these facilities.

The Health and wellbeing aspiration has connection with many of the environmental and social elements of the Climate Positive Work Plan. For example, our environmental strategies will assist in creating a healthy and safe place to live and work. Our social strategies will assist in developing strong community links and programs that enrich people's lives, promoting wellbeing.

This section covers the Active & Healthy Living strategy for the design and operational phase of the development only. Refer to the Sustainability in Delivery section for discussion of health and wellbeing to be undertaken during the construction phase of the Project.



#### 4.5.3 Strategy

Our proposed Active and Healthy Living Strategy includes;

- Formal and informal programs, activities and events which aim to foster an active and healthy lifestyle for residents, workers and visitors at Barangaroo South.
- Initiatives and supporting infrastructure which should encourage walking, cycling and public transport.
- Infrastructure, formal and informal programs, activities and events which should encourage active and healthy living including (but not limited to):
 

○ Walking and cycling paths	○ Interactive public art	○ Bike hub including hire schemes	○ Retail options supporting healthy, local and low impact food choices
○ Dog walking	○ Events	○ Public square and pier	
○ Jogging	○ Concerts	○ Gym/Spa	
○ Recreational boating	○ Markets		
- Development and promotion of sustainable retail options e.g. organic fresh food retailers, healthy, locally sourced retail options, farmers markets etc

- Recreation, entertainment and leisure
- Transport and Accessibility
- Information and Communication
- Cultural diversity, the Arts and Heritage
- Security and safety
- Community facilities , services and support
- Provision of open space with a focus on providing green space and enhanced biodiversity



The strategy will be further articulated in the Community Development Strategy (CDS) or equivalent – and the strategies that emerge as part of the detailed action plans.

#### 4.5.4 Key Initiatives

- Develop and implement a Community Development Strategy, including:
  - Active & Healthy Living Plan including;
    - Equal access and mobility.
    - CPTED principles integrated in design.
    - Local food production and sustainable food options.
  - Green Travel Plan
- Provide multipurpose cultural, community and learning facilities (total community space 10,000m2).
- An ecological planning regime will be developed at the beginning of the project and a green-links hierarchy will be established to create a highly connected, legible and diverse network of open space
- Open space planning will provide a variety of built form, streetscapes and larger open spaces for integration of landscaping that will include the use of endemic plant species e.g. green roofs, walls, street tree plantings and smaller parklands



- The adjacent marine habitat will be considered and enhanced as part of the ecological planning process.



## 4.6 COMMUNITY INVESTMENT

### 4.6.1 Background

Community Investment at Barangaroo South will address:

- The provision of a diversity of housing types and affordable housing at Barangaroo South including ongoing management
- The provision of affordable office and retail space at Barangaroo South including ongoing management
- Place management at Barangaroo South, including organisational and financial planning, delivery and management of community focused infrastructure, programs, events and activities
- Estate Levy funding for sustainable programs and the Barangaroo Community Carbon Fund, including an ongoing management model
- The metrics, measurement process and schedule for reporting Social Return on Investment
- The measurement of wellbeing goals and indicators for the Barangaroo South Community.
- Programs to better link social enterprise and the finance sector and leverage social investment for community development.



#### 4.6.2 Project Aspirations

*Through innovative and sustainable place management, building partnerships and the range of uses, Barangaroo South will foster equity, inclusion and social enterprise*

- Barangaroo South will target development of a diverse and inclusive community
- To contribute to the long term economic, social, cultural and environmental sustainability of Barangaroo South and the broader Sydney City by increasing housing options at Barangaroo South.
- Contribute to housing diversity, including key worker affordable housing
- Provide a percentage of affordable retail and office space to support young businesses and foster social enterprise.
- Through our innovative and sustainable business model for place management (including coordination of the estate levy) guide the ongoing sustainable development and delivery of community focused infrastructure, programs, events and activities at Barangaroo South.
- To forecast and measure our Social Return on Investment (SROI)
- To drive incremental change in community wellbeing through identified priorities.
- To identify and support programs to better link social enterprise and the finance sector and leverage social investment for community development.
- Provide opportunities for minority supply of goods and services.

#### 4.6.3 Strategy

Our proposed Active and Healthy Living Strategy includes;

- Delivery of a diversity of housing types including affordable housing for key workers equivalent to 2.3% of residential GFA in Barangaroo South, when not less than 75% of the total residential developable GFA is complete
- Affordable retail and office space to help foster social enterprise
- Assisting the Authority in delivery of a Social Return on Investment (SROI) for Barangaroo and others to use, to measure return on investment and clearly communicate value of social outcomes
- Develop wellbeing goals, indicators and measures for the Barangaroo South Community.
- The establishment of a business model for the ongoing management of community infrastructure, services and events, including the Estate Levy contributions and the Community Carbon Fund
- Foster programs to better link social enterprise and the finance sector and leverage social investment for community development.
- Engage minority supply groups

#### 4.6.4 Key Initiatives

- Develop and implement a Community Development Strategy, including:
  - Affordable Housing Strategy

- Mixed Use Strategy
- Business Model
- SROI tool
- Wellbeing Indicators
- Social Enterprise support plan
- Provide multipurpose cultural, community and learning facilities (total community space 10,000m2).

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NATURE COMMITMENTS

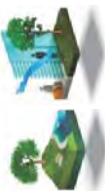
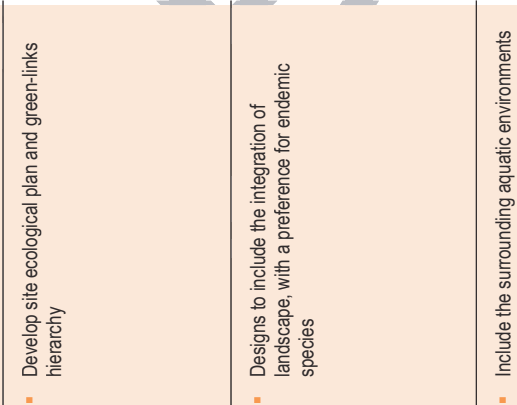



In summary, the Climate Positive Initiatives related to Nature are:

CLAUSE	INITIATIVE	MEASURED
9.13, Schedule 4	<ul style="list-style-type: none"><li>Develop the Barangaroo South parkland and domain to promote a healthy, bio-diverse community.</li></ul>	



## NATURE ACTION PLAN

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>An ecological planning regime will be developed at the beginning of the project and a green-links hierarchy will be established to create a highly connected, legible and diverse network of open space</p> 	<ul style="list-style-type: none"> <li>Develop site ecological plan and green-links hierarchy</li> </ul>		Prepared by Lend Lease	Evidence: Plan
<p>Open space planning will provide a variety of built form, streetscapes and larger open spaces for integration of landscaping that will include the use of endemic plant species eg green roofs, walls, street tree plantings and smaller parklands.</p> 	<ul style="list-style-type: none"> <li>Designs to include the integration of landscape, with a preference for endemic species</li> </ul>		Prepared by Lend Lease	Evidence: Design / visual inspection
<p>Enhancement of marine habitat included in ecological planning</p>	<ul style="list-style-type: none"> <li>Include the surrounding aquatic environments as a component of the ecological plan. Sea wall design to include consideration of the protection and enhancement of marine ecology</li> </ul>		Prepared by Lend Lease	Evidence: Reports / design

## COMMITMENTS – SOCIAL & COMMUNITY

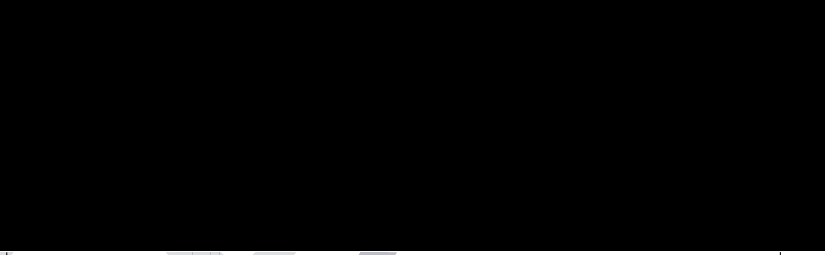


In summary, the Climate Positive Initiatives related to Social are:

CLAUSE	INITIATIVE	MEASURED
9.17	<ul style="list-style-type: none"> <li>Deliver 50 of the community and learning and skilling programs, outlined in Appendix E of Vol. 3 of Returnable Schedule 5 of the Final Proposal (or other relevant programs)</li> </ul>	



## ACTION PLAN – SOCIAL & COMMUNITY

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
Develop a Community Plan	<ul style="list-style-type: none"> <li>Prepare Plan of the Community Plan for the Concept Plan Mod 4</li> </ul>		Prepared by Lend Lease and the Authority	Evidence: The Community Plan
Develop a Community Development Strategy	<ul style="list-style-type: none"> <li>Delivery of the Community Development Strategy incorporating plans for cultural facilities including the "Barangaroo Innovation Centre".</li> </ul>			The Community Development Strategy
(This is an overarching plan and includes many of those items listed individually below and could include a Skilling & employment action plan, or Indigenous engagement and participation it will be determined by the initial stages of the community development strategy).	<ul style="list-style-type: none"> <li>Identify and deliver respective strategies and action plans.</li> </ul>			Human & Community Infrastructure & Services plan
	<ul style="list-style-type: none"> <li>Develop a Culture and Public Art Plan.</li> </ul>			The Public Art plan
	<ul style="list-style-type: none"> <li>Roll out of wellbeing indicators</li> </ul>			Wellbeing report card
	<ul style="list-style-type: none"> <li>Prepare a Human &amp; Community Infrastructure &amp; Services plan</li> </ul>			Place activation plan
Develop a brief for the Cultural/Community and Learning facilities proposed	<ul style="list-style-type: none"> <li>Complete Community Plan (note)</li> </ul>		Prepared by Lend Lease and the Authority	Evidence: The Community Plan


ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
	<ul style="list-style-type: none"> <li>Complete the Community Development Strategy.</li> <li>Cultural audit complete and provided by the Authority</li> <li>Develop funding and operational model</li> <li>Determine Governance</li> </ul>			<p>The Community Development Strategy</p> <p>Brief for cultural/ community facilities</p>
Develop program and performance strategy	<ul style="list-style-type: none"> <li>Develop a place activation strategy.</li> </ul>		Prepared by Lend Lease and the Authority	Evidence: Plan
Interpretive Design and Engagement	<ul style="list-style-type: none"> <li>Deliver Interpretation Strategy</li> </ul>		Prepared by Lend Lease	Evidence: Design Briefs
Develop an ICT & WiFi Plan	<ul style="list-style-type: none"> <li>Deliver ICT &amp; WiFi Plan</li> </ul>		Prepared by Lend Lease	Evidence: Design Briefs



## ECONOMY COMMITMENTS




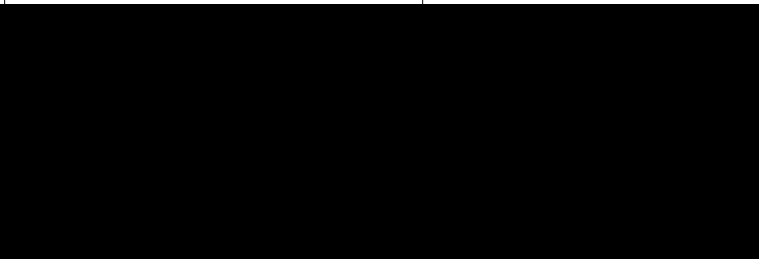

In summary, the Climate Positive Initiatives related to economy are:

CLAUSE	INITIATIVE	MEASURED
9.17	<ul style="list-style-type: none"><li>Deliver 50 of the community and learning and skilling programs, outlined in Appendix E of Vol. 3 of Returnable Schedule 5 of the Final Proposal (or other relevant programs)</li></ul>	





## ACTION PLAN –ECONOMY

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<ul style="list-style-type: none"><li>Develop a Community Plan.</li><li>Develop a Community Development Strategy (This is an overarching plan and includes many of those items listed individually below and could include a Skilling &amp; employment action plan, or Indigenous engagement and participation it will be determined by the initial stages of the community development strategy).</li></ul> 	<ul style="list-style-type: none"><li>Prepare Plan of The Community Plan for the Concept Plan Mod 4</li><li>Delivery of the Community Development Strategy.</li><li>Roll out of wellbeing indicators</li></ul>		Prepared by Lend Lease and the Authority	Evidence: The Community Plan  Strategies and Programs
<ul style="list-style-type: none"><li>Develop a brief for the Cultural/Community and Learning facilities proposed</li></ul> <p>Deliver Lifelong Learning Objectives</p> 	<ul style="list-style-type: none"><li>Complete Community Development Strategy</li><li>Complete skilling and employment plan</li><li>Complete the Barangaroo Skills Exchange (incorporating Green Skills) scoping and development brief (other plans maybe encompassed within the overall frame work of the BSX).</li></ul>		Prepared by Lend Lease and the Authority	Evidence: Community Development Strategy and respective plans set out in same.  The BSX action plan.

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
	<ul style="list-style-type: none"> <li>Complete an Indigenous skilling &amp; employment Plan - ATSI</li> <li>Complete an education plan.</li> <li>Cultural audit complete and provided by the Barangaroo Delivery Authority</li> <li>Develop funding and operational model</li> <li>Determine Governance</li> </ul>	[REDACTED]		
Develop a Children's Services Plan	<ul style="list-style-type: none"> <li>Complete Community Development Strategy</li> </ul>		Prepared by Lend Lease	Evidence: Strategy
Deliver Key worker Housing equivalent to 2.3% of the residential GFA	<ul style="list-style-type: none"> <li>Complete Community Development Strategy</li> <li>Complete an affordable housing strategy</li> </ul>		Prepared by Lend Lease and the Authority.	Evidence: Delivery of Key Worker Housing
Develop a Community Investment framework	<ul style="list-style-type: none"> <li>Support the completion of the Community Development Strategy in the area's which include the following action plans</li> <li>Mixed use strategy</li> <li>Business models to support activities</li> </ul>		Prepared by Lend Lease and the Authority.	Evidence: The Community Investment action plans, or integrated briefs.

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
	<ul style="list-style-type: none"> <li>▪ SROI tool</li> <li>▪ Social Enterprise</li> </ul>			

Barangaroo

## HEALTH AND WELLBEING COMMITMENTS




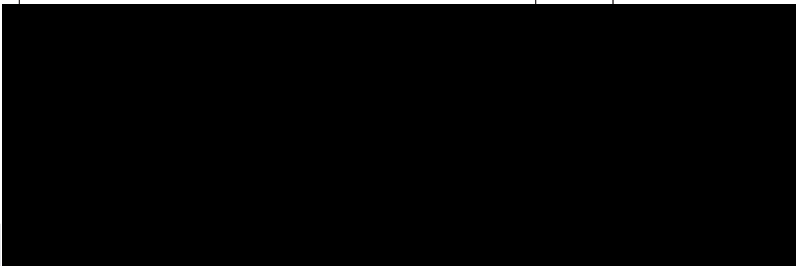

In summary, the Climate Positive Initiatives related to health and wellbeing are:


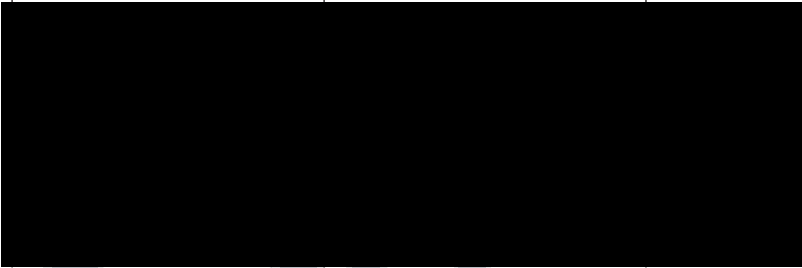


CLAUSE	INITIATIVE	MEASURED
9.17	<ul style="list-style-type: none"><li>Deliver 50 of the community and learning and skilling programs outlined in Appendix E of Vol. 3 of Returnable Schedule 5 of the Final Proposal (relevant programs)</li></ul>	

This is included as part of the Community and Social Plan covered under 8.11 Statement of Commitments.



## HEALTH & WELLBEING ACTION PLAN

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Deliver Healthy Lifestyle facilities and programs providing active and passive recreation for residents, workers and visitors, including (but not limited to):</p> <ul style="list-style-type: none"><li>Walk to work and cycle to work days</li><li>Bike hub/hire/support centre</li><li>Bike sharing program/hub (as part of CBD – wide scheme)</li><li>Walking and cycling maps/routes (including paper + signs + digital collateral)</li><li>Walking challenges and competitions using pedometers for residents and workers</li><li>Hire schemes for bikes, boats, scooters, electric cars, roller blades, etc.</li></ul> 	<ul style="list-style-type: none"><li>Prepare as part of the Community Development Strategy.</li><li>Prepare the Green Travel Plan/s (refer Sustainable Transport section for other sustainable transport initiatives)</li><li>Prepare a Healthy &amp; Active living Plan</li></ul>		Prepared by Lend Lease	Evidence: Active & Healthy Living Plan Green Travel Plan Healthy & Active living Plan
<p>Equal access and mobility is provided for as well as CPTED principles integrated into design brief</p>	<ul style="list-style-type: none"><li>Building and public domain plans</li></ul>		Prepared by Lend Lease	Evidence: Design documentation
<p>Develop a Community Development Strategy</p> 	<ul style="list-style-type: none"><li>Prepare Plan of The Community Plan</li><li>Delivery the Community Development Strategy</li><li>Roll out of wellbeing indicators</li></ul>		Prepared by Lend Lease and the Authority.	Evidence: The Community Development Strategy and associated action plans  Strategies and Programs

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
Development of sustainable retail options e.g. organic fresh food retailers, health retail options, farmers markets etc including education programs for the community 	<ul style="list-style-type: none"> <li>Development of retail options supporting healthy, local and sustainable food options</li> <li>Farmers markets etc</li> <li>Community education programs</li> <li>Investigation of sustainable cafe options including e.g. 100 mile cafe</li> </ul>		Prepared by Lend Lease	Evidence: Retail strategy Evidence
Provision of area for local food production e.g. green roof space, community gardens, urban nursery 	<ul style="list-style-type: none"> <li>Provision of space</li> </ul>		Prepared by Lend Lease	Evidence: Design documentation
Develop a brief for the Cultural/Community and Learning facilities proposed 	<ul style="list-style-type: none"> <li>Completion and integration into the community</li> <li>Cultural audit complete and provided by the Authority</li> <li>Develop funding and operational model</li> <li>Determine Governance</li> </ul>		Prepared by Lend Lease	Evidence: Visual inspection/ annual report
			Prepared by Lend Lease and the Authority	Brief for cultural/community facilities

## 5.0 SUSTAINABILITY IN DELIVERY

### 5.1 BACKGROUND

Lend Lease is committed to ensuring our sustainability principles are integrated into the design and construction phase of the Project. The following section outlines the specific innovative environmental and social sustainability initiatives to be followed during the design and construction phase.

### 5.2 PROJECT ASPIRATIONS

Key sustainability aspirations during the delivery phase of the development are:

- Promoting education and participation through the supply chain
- Promoting workforce education, skilling and new job creation
- Creating a positive connection with the local community and broader CBD
- Developing a process of active transport management
- Developing a construction waste management plan
- Developing sustainable site facilities and management practices
- Exceeding NSW Government's targets for Aboriginal participation in construction





### 5.3 STRATEGY

Our proposed sustainability in delivery strategy is based on the following processes:

- a) Provision of learning, skilling and employment programs
- b) A comprehensive community and stakeholder engagement strategy
- c) Utilising sustainability principles in site establishment
- d) Reduction of construction environmental impacts including transport and waste management
- e) Development of Community Plan – based on wellbeing frameworks

### 5.4 INITIATIVES

The following Climate Positive Initiatives relevant to our Sustainability in Delivery Strategy (in accordance with CI 9.13 and the referenced Schedule 4, Delivery) are:

- a) Encourage workforce sustainability skills development through implementation of:
- b) Barangaroo Skills Exchange (incorporating Green Skills);
- c) 20% of trade work contracted will be undertaken by apprentices in appropriate trades. Must be reached once 25% contracted work is complete;
- d) All Lend Lease project construction staff undertaking a sustainability core skills program (or equivalent sustainability training).
- e) Commence a community engagement strategy during the delivery phase through:
  - a. A comprehensive stakeholder management plan
  - b. Information displays / message boards
  - c. A public viewing platform
  - d. Art work incorporated into hoarding
  - e. Webcam coverage
- f) Divert 97% of construction site waste (measured by weight) from landfill
- g) Develop a green travel plan for the construction phase
- h) Develop site establishment using sustainable design principles
- i) In addition, Community Delivery and Aboriginal participation plans will be developed.

## SUSTAINABILITY IN DELIVERY – ACTION PLAN ENVIRONMENTAL

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
97% of construction site waste (measured by weight) diverted from landfill	<ul style="list-style-type: none"> <li>For each package of works, set contractor targets to achieve an overall site goal of 97%</li> <li>Set waste minimisation requirements in procurement processes</li> <li>Provide for on-site waste segregation</li> </ul>	[REDACTED]	Prepared by Lend Lease	Evidence: Annual report
Develop a green travel plan for the construction phase	<ul style="list-style-type: none"> <li>Plan developed for construction phase</li> </ul>		Prepared by Lend Lease	Evidence: Plan
Develop site establishment using sustainable design principles	<ul style="list-style-type: none"> <li>Set up site accommodation in accordance with project sustainability principles</li> </ul>		Prepared by Lend Lease	Evidence: Visual inspection / Annual Report

## SOCIAL

ACTION	MECHANISM	COMPLETED BY	WHO	DOCUMENTED
<p>Encourage workforce sustainability skills development through implementation of:</p> <ul style="list-style-type: none"> <li>(i) A Barangaroo Skills Exchange (BSX) incorporating Green Skill development;</li> <li>(ii) 20% of skilled trade work on site by apprentices;</li> <li>(iii) All Bovis Lend Lease project staff undertaking a sustainability core skills program (or equivalent sustainability training); and</li> <li>(iv) Exceed by 10% the NSW Government's Aboriginal participation in construction guidelines.</li> </ul> 	<ul style="list-style-type: none"> <li>▪ Workforce planning</li> <li>▪ Selection of partners and service providers</li> <li>▪ Contracts include requirements for skilling and partnerships – bespoke for each trade.</li> <li>▪ Appointment of BSX</li> <li>▪ Aboriginal Participation Plan</li> </ul>			
<p>Commence a community engagement strategy during the delivery phase through:</p> <ul style="list-style-type: none"> <li>(i) A comprehensive stakeholder management plan</li> <li>(ii) Information displays / message boards</li> <li>(iii) A public viewing platform</li> <li>(iv) Artwork incorporated into hoarding</li> <li>(v) Webcam coverage</li> <li>(vi) A Community Plan – based on wellbeing framework</li> </ul> 	<ul style="list-style-type: none"> <li>▪ Prepare Communication &amp; Stakeholder engagement plan</li> <li>▪ Prepare Communications Protocols</li> <li>▪ Prepare a Community Plan</li> <li>▪ Prepare External &amp; Integrated Public Art Strategy – part of Overarching Cultural &amp; Public Art Strategy.</li> </ul>			
			<p>Prepared by Lend Lease</p>	<p>Evidence: Plan/ Protocols</p> <p>Evidence: Strategy</p>

## APPENDIX A – Updated estimates of sustainability metrics

DRAFT

Stage 1 (Barangaroo South)  
Appendix F Energy and Carbon Summary

Lease Lease

Scenario Name		Tenant assumptions aligned to the bid phase carbon outcome, but with base building assessed to schedule 5 heat loading assumptions. Residential accounts for occupied areas only																																																																																	
BID	BID	Updated areas, residential emissions adjusted upwards, revised commercial MGR with tenant electricity use assumptions aligned to EE. Lift adjusted upwards to reflect revised lift target.																																																																																	
A	FDA Scheme 3	Based on financial services tenant operating profiles adjusted for higher intensity in office areas and IT intensive areas.																																																																																	
B	Intense Commercial Tenant + MGR / MGR & Supplementary loading	As per Option B with onsite cogeneration for central plant																																																																																	
C	Intense Commercial Tenant + District Cogeneration																																																																																		
Carbon Coefficients		Electricity kgCO <sub>2</sub> e/kWh Natural Gas kgCO <sub>2</sub> e/kWh	<table><tr><td>0.94</td><td>0.94</td><td>0.94</td><td>1.06</td><td>1.06</td></tr><tr><td>0.25</td><td>0.25</td><td>0.25</td><td>0.47</td><td>0.47</td></tr></table>	0.94	0.94	0.94	1.06	1.06	0.25	0.25	0.25	0.47	0.47																																																																						
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Scenario Commercial Assumptions		<table><tr><th>PDA Schedule 5</th><th>Intense Commercial Tenant + MGR / MGR &amp; Supplementary loading</th><th>B + District Cogeneration</th><th>B - Revised Coefficient</th><th>C - Revised Coefficient</th></tr><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>After Hours AC Requests (area weighted hrs/week)</td><td>0</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Occupancy (m<sup>2</sup>/p Design / Operational)</td><td>10 / 14</td><td>10 / 16</td><td>10 / 16</td><td>10 / 16</td></tr><tr><td>Light &amp; Power Heat Loading (W/m<sup>2</sup> Design / Operational)</td><td>20 / 13</td><td>20 / 13</td><td>20 / 13</td><td>20 / 13</td></tr><tr><td>Supplementary Cooling W/m<sup>2</sup> (Design / Yearly Hours) / After hours</td><td>15 / 1.4 / 1.0</td><td>15 / 0 / 4.0 / 5.1</td><td>15 / 0 / 4.0 / 5.1</td><td>15 / 0 / 4.0 / 5.1</td></tr><tr><td>Lift Assumption (kWh/m<sup>2</sup> pa)</td><td>3.25</td><td>7</td><td>7</td><td>7</td></tr></table>	PDA Schedule 5	Intense Commercial Tenant + MGR / MGR & Supplementary loading	B + District Cogeneration	B - Revised Coefficient	C - Revised Coefficient	A	B	C	B - Rev	C - Rev	After Hours AC Requests (area weighted hrs/week)	0	2	2	2	Occupancy (m <sup>2</sup> /p Design / Operational)	10 / 14	10 / 16	10 / 16	10 / 16	Light & Power Heat Loading (W/m <sup>2</sup> Design / Operational)	20 / 13	20 / 13	20 / 13	20 / 13	Supplementary Cooling W/m <sup>2</sup> (Design / Yearly Hours) / After hours	15 / 1.4 / 1.0	15 / 0 / 4.0 / 5.1	15 / 0 / 4.0 / 5.1	15 / 0 / 4.0 / 5.1	Lift Assumption (kWh/m <sup>2</sup> pa)	3.25	7	7	7	<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>202,372</td><td>202,372</td><td>202,372</td><td>202,372</td><td>202,372</td></tr><tr><td>269,477</td><td>269,477</td><td>269,477</td><td>269,477</td><td>269,477</td></tr><tr><td>86,180</td><td>86,180</td><td>86,180</td><td>86,180</td><td>86,180</td></tr><tr><td>23,836</td><td>23,836</td><td>23,836</td><td>23,836</td><td>23,836</td></tr><tr><td>33,000</td><td>33,000</td><td>33,000</td><td>33,000</td><td>33,000</td></tr><tr><td>31,000</td><td>31,000</td><td>31,000</td><td>31,000</td><td>31,000</td></tr></table>	A	B	C	B - Rev	C - Rev	202,372	202,372	202,372	202,372	202,372	269,477	269,477	269,477	269,477	269,477	86,180	86,180	86,180	86,180	86,180	23,836	23,836	23,836	23,836	23,836	33,000	33,000	33,000	33,000	33,000	31,000	31,000	31,000	31,000	31,000										
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Energy Demand Reduction Against BAU (excluding onsite initiatives)		<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>77%</td><td>77%</td><td>77%</td><td>77%</td><td>77%</td></tr><tr><td>75%</td><td>57%</td><td>57%</td><td>57%</td><td>57%</td></tr><tr><td>59%</td><td>59%</td><td>59%</td><td>55%</td><td>55%</td></tr><tr><td>57%</td><td>57%</td><td>57%</td><td>53%</td><td>53%</td></tr><tr><td>49%</td><td>49%</td><td>49%</td><td>46%</td><td>46%</td></tr><tr><td>Site Wide Reduction</td><td>72.4%</td><td>64.1%</td><td>64.1%</td><td>64.1%</td></tr></table>	A	B	C	B - Rev	C - Rev	77%	77%	77%	77%	77%	75%	57%	57%	57%	57%	59%	59%	59%	55%	55%	57%	57%	57%	53%	53%	49%	49%	49%	46%	46%	Site Wide Reduction	72.4%	64.1%	64.1%	64.1%	<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>840</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr><tr><td>Microgeneration (MWh)</td><td>840</td><td>840</td><td>840</td><td>840</td></tr></table>	A	B	C	B - Rev	C - Rev	840	840	840	840	840	Microgeneration (MWh)	840	840	840	840	Microgeneration (MWh)	840	840	840	840	Microgeneration (MWh)	840	840	840	840	Microgeneration (MWh)	840	840	840	840	Microgeneration (MWh)	840	840	840	840	Microgeneration (MWh)	840	840	840	840					
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Carbon Reduction Initiatives (Onsite) - Tonnes CO <sub>2</sub> e		<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>739</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr><tr><td>Microgeneration (MWh)</td><td>739</td><td>739</td><td>739</td><td>739</td></tr></table>	A	B	C	B - Rev	C - Rev	739	739	739	739	739	Microgeneration (MWh)	739	739	739	739	Microgeneration (MWh)	739	739	739	739	Microgeneration (MWh)	739	739	739	739	Microgeneration (MWh)	739	739	739	739	Microgeneration (MWh)	739	739	739	739	Microgeneration (MWh)	739	739	739	739	<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>35,306</td><td>49,654</td><td>49,654</td><td>56,753</td><td>41,736</td></tr></table>	A	B	C	B - Rev	C - Rev	35,306	49,654	49,654	56,753	41,736																														
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Estimated RECs - MWh/pe (assuming electricity grid coefficient and weighting gas into an electricity equivalent, including 10% RET benefit)		<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>30,486</td><td>42,760</td><td>42,760</td><td>42,760</td><td>42,760</td></tr></table>	A	B	C	B - Rev	C - Rev	30,486	42,760	42,760	42,760	42,760	<table><tr><th>A</th><th>B</th><th>C</th><th>B - Rev</th><th>C - Rev</th></tr><tr><td>30,486</td><td>42,760</td><td>42,760</td><td>42,760</td><td>42,760</td></tr></table>	A	B	C	B - Rev	C - Rev	30,486	42,760	42,760	42,760	42,760																																																												
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Area		Stage 1 private Buildings (GFA)	Stage 1 private Buildings (GFA)
			Jan-12
Commercial	m <sup>2</sup>		316,182
Residential	m <sup>2</sup>		99,763
	Number of apartments		783
Retail	m <sup>2</sup>		26,055
Hotel	m <sup>2</sup>		33,000
	Number of rooms		200
Park Area	m <sup>2</sup>		
Total Area m <sup>2</sup>			475,000
Upper Limit - Waste generated without waste minimisation strategies		Generation Rate T/sqm	
Commercial		0.00681	2,154
Residential		0.00775	773
Retail		0.09982	2,601
Hotel (tourist use)*		0.01538	507
Community Use		0.009429	0
Total			6,035
Lower Limit		Generation Rate T/sqm	
Commercial		0.00477	1,507
Residential		0.00548	547
Retail		0.08982	2,340
Hotel (tourist use)*		0.01384	457
Community Use		0.00657	0
Total			4,851
Zero Waste Community			
Construction waste diversion	%		97
Overall operational waste recycling	%		>80
Residual waste Year 1 building operation	Tonnes		0
Operational waste diversion year 1	%		>80
Operational waste diversion by 2020	%		>80
Waste GHGE			
Residual waste Year 1 building operation	Tonnes		0
GHGE reduction	%		95
Residual GHGE (generated from yearly waste)	Tonnes CO <sub>2</sub> e		0
Waste to energy (Abated CO <sub>2</sub> from elec generation)	Tonnes CO <sub>2</sub> e		376
Net Emissions	Tonnes CO <sub>2</sub> e		115



		Stage 1 private Buildings (GFA)	Stage 1 private Buildings (GFA)
<b>TRANSPORT</b>			
<b>Transport BAU</b>			Jan-12
Commercial	m <sup>2</sup>		316,182
Residential	m <sup>2</sup>		99,763
	Number of apartments		783
Retail	m <sup>2</sup>		26,055
Hotel	m <sup>2</sup>		33,000
	Number of rooms		200
Park Area	m <sup>2</sup>		
Total Area m <sup>2</sup>			475,000
<b>Emissions Factor</b>			
Transport emissions per m <sup>2</sup>	kgCO <sub>2</sub> /m <sup>2</sup>		23.67
Commercial	Tonnes CO <sub>2</sub>		7,484.03
Residential	Tonnes CO <sub>2</sub>		2,361.39
Retail	Tonnes CO <sub>2</sub>		616.72
Hotel	Tonnes CO <sub>2</sub>		781.11
<b>Total</b>	<b>Tonnes CO<sub>2</sub></b>		<b>11,243.25</b>
<b>Transport BAU</b>			
Car	trips p.a.		1,725,954
Car GHGE	tonnes CO <sub>2</sub> e		6,320
Bus	trips p.a.		1,907,580
Bus GHGE	tonnes CO <sub>2</sub> e		1,736
Train	trips p.a.		4,269,394
Train GHGE	tonnes CO <sub>2</sub> e		6,450
Ferry	trips p.a.		181,711
Ferry GHGE	tonnes CO <sub>2</sub> e		43
Motorcycle	trips p.a.		181,711
Motorcycle GHGE	tonnes CO <sub>2</sub> e		107
Total Transport Trips BAU	trips p.a.		8,266,350
Total Transport GHGE BAU	tonnes CO <sub>2</sub> e		14,656
<b>Transport</b>			
GHGE improvement in transport efficiency assumptions			
Green travel action plan assumptions			
<b>Transport</b>			
Car	trips p.a.		363,337
Car GHGE	tonnes CO <sub>2</sub> e		1,178
Bus	trips p.a.		817,571
Bus GHGE	tonnes CO <sub>2</sub> e		790
Train	trips p.a.		5,086,965
Train GHGE	tonnes CO <sub>2</sub> e		8,583
Ferry	trips p.a.		817,571
Ferry GHGE	tonnes CO <sub>2</sub> e		387
Motorcycle	trips p.a.		181,711
Motorcycle GHGE	tonnes CO <sub>2</sub> e		55
Total Transport Trips	trips p.a.		7,267,155
Total Transport GHGE	tonnes CO <sub>2</sub> e		10,993
% GHGE reduction from BAU	%		25%
Contingency allowance	tonnes CO <sub>2</sub> e		—
Residual Transport GHGE to offset	tonnes CO <sub>2</sub> e		10,993

## APPENDIX B – Current Climate Positive Work Plan Program

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## **Annexure N – NSW Waste Classification Guidelines**

# **Waste Classification Guidelines**

## **Part 1: Classifying waste**

[www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)

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59–61 Goulburn Street, Sydney  
PO Box A290  
Sydney South NSW 1232

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