

# Green Port Checklist

## Development Details

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Address of Development:	Foreshore Road, Port Kembla
Description of the proposed development:	Port Facilities and Bulk Liquid Storage

## Identification of Environmental Issues

Environmental Issue	When it applies	Applicable (Yes / No)
1. Sustainable Environmental Management	As part of the project/development design and operation	Yes
2. Materials Selection	As part of the project/development design and operation	Yes
3. Waste Management	As part of the project/development design and operation	Yes
4. Water Use and Quality	As part of the project/development design and operation	Yes
5. Energy Use and Greenhouse Gas Emissions	As part of the project/development design and operation	Yes
6. Green Buildings and Indoor Environments	As part of the project/development design and operation	Yes
7. Outdoor environment/landscaping	As part of the project/development design and operation	Yes
8. Amenity (noise, light, odour)	As part of the project/development design and operation	Yes

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## Green Port Checklist

Environmental Aspect	Objective	Measures	Yes/No
1. Sustainable Environmental Management	Implement and promote a triple bottom line approach to sustainability	To achieve this objective, the following measures will be included in the project/development:	
		A written policy committed to managing negative environmental, social and economic impacts	Yes
		Identified and reportable sustainability targets for the project/development	No
		Public notification of sustainability commitments, policies and targets	Yes
		Preparation or incorporation of an Environmental Management System (EMS) compliant with ISO 14001	Yes
		Certification of the EMS to ISO 14001	No
		A stakeholder engagement strategy to proactively engage stakeholders and encourage feedback regarding the project	Yes
		A formal public complaints procedure	Yes
		If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)	
	2. Materials Selection	Decrease the carbon footprint of the development and the ongoing maintenance/replacement of materials/equipment	To achieve this objective, the following measures will be included in the project/development:
Set targets to reduce material use (such as % of recycled materials used)			No
Reuse of the existing building/facility components			No
A green procurement policy, including purchasing re-used or recycled furniture and other items			No
Low maintenance and durable materials			Yes
A Life Cycle Assessment of materials to be used			No
Specification and procurement of locally sourced materials			Yes
Replacement of Portland cement with supplementary cementitious material			Yes
Low-emission and low-irritant materials, including low-TVOC paints, carpets and sealants/adhesives and low formaldehyde wall and floor coverings			Yes
Refrigerants and/or insulants with an Ozone Depleting Potential (ODP) of zero and/or a Global Warming Potential (GWP) of 10 or less		No	
If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)			
3. Waste Management	Reduce total operational waste consumption	To achieve this objective, the following measures will be included in the project/development:	
		A waste management plan which identifies opportunities to reduce the amount of waste sent to landfill	Yes
		A policy to instruct contractors and suppliers to select materials with less packaging	No
		Adequate storage areas for recycling of all materials, including likely future increases	Yes
	Monitoring of the quantity (volume and weight) of waste disposal and recovery	No	
If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)	Waste generation will be minimal, we utilise local council waste disposal bins.		
4. Water Use and Quality	Reduce total operational water consumption and minimise the impact on local water quality	To achieve this objective, the following measures will be included in the project/development:	
		Water efficient fixtures, fittings and appliances (AAA rating system and above)	Yes
		Water sub-meters for all major uses, such as cooling towers, irrigation, hot water systems and for separate tenancies.	No
		Onsite rainwater and or recycled water for landscaping and other uses	Yes
		A water efficient irrigation system, including subsoil drip systems and automatic timers	Yes
		A rainwater harvesting system, e.g. Rainwater tanks	Yes
		Greywater collection and treatment system for water reuse	No
		Blackwater collection and treatment system for water reuse	No
		Water sensitive urban design measures such as permeable surfaces, swales and wetlands	Yes
		Best practice stormwater drainage and treatment systems including first flush, oil separators and a water quality monitoring system	Yes
		A flood risk and/or potential water table risk assessment and implementation of recommendations	Yes
		If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)	
	5. Energy Use and Greenhouse Gas Emissions	Minimise the total amount of greenhouse gas emissions of the development	To achieve this objective, the following measures will be included in the project/development:
Low energy and energy efficient terminal and operational equipment (such as retrofits for diesel oxidation catalysts)			Yes
Low energy and energy efficient lighting on timers for non-critical areas			Yes
Low energy and energy efficient appliances			Yes
Separate electrical and gas sub-meters for energy uses (such as car parks, lifts, common area lighting) and for separate tenancies			No
Renewable energy generated onsite and excess returned to the grid (such as solar power or gas-fired co and tri generation)			No
Purchase of renewable or green energy such as 100% accredited GreenPower			No
Alternative cleaner and less greenhouse intensive fuels for operations			No
Ship to shore power connection options			No
If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)			
6. Green Buildings and Indoor Environments	Improve the quality of the indoor environment and the environmental performance of buildings	To achieve this objective, the following measures will be included in the project/development:	
		Minimum 4 Star Green Rating (or the equivalent) for Buildings	Yes
		Certification of the Green Star Rating for Buildings	Yes
		A facilities or building guide and training for occupants/management team on minimising environmental impacts	No
		Passive solar and microclimate design through orientation, shading, natural lighting, ventilation and insulation	Yes
		Outside air inflow rates in excess of the requirements of AS 1668.2-1991 for mechanical ventilation	
		Natural ventilation in accordance with AS1668.2-2002	
		Options for external green walls (e.g. Facade planting/landscaping)	Yes
		Maximisation of natural lighting through the design and location of windows, glazed doors and skylights, and blinds/screens	Yes
		Refrigerant and/or vapour leak detection and recovery systems	No
		Cyclist paths and facilities including secure storage, showers and change facilities	Yes
		A Hazardous Materials Survey including asbestos, lead and polychlorinated biphenyles (PCBs) identification, and removal where possible	Yes
	If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)	We will attempt to comply with AS1668 as mentioned above, however requirements for odour removal for the lab and sensory room may prevent this.	
7. Outdoor environment	Enhance the visual and ecological amenity of the Port	To achieve this objective, the following measures will be included in the project/development:	
		Preparation and implementation of a Landscape Management Plan	Yes
		Local provenance native species used in the landscaping areas	Yes
		Ecological offsets and/or biobanking to offset the impact of the development	No
		Incorporation of existing vegetation into the development	No
		Removal and control any noxious weeds on site	Yes
		Non-chemical/poison control measures for weeds and pests	No
	If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)		
8. Amenity	Minimise the impact of the development on sensitive receivers and other Port users	To achieve this objective, the following measures will be included in the project/development:	
		Isolation of noisy equipment/systems with insulation and/or sound absorbing materials	Yes
		Emission stacks and outlets located away from sensitive receivers and other port users	Yes
		Air pollution control measures such as scrubbers	Yes
		No reversing beepers on vehicles, plant and equipment (owned and leased)	No
		Turning off vehicles/plant/equipment when not in use	Yes
		Installation of noise walls	Yes
		The location of activities, plant and equipment should optimise attenuation effects through measures such as topography, natural and purpose built barriers.	Yes
		Enclosed light fittings and positioning to reduce light spill	Yes
	If none of the suggested measures apply, how will the project/development achieve this objective? (include any innovation measures)		