



**SUBURBAN
RAIL LOOP**
AUTHORITY

Sustainability Objectives and Targets

29 August 2024





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Acknowledgement of Country

Suburban Rail Loop Authority acknowledges the Traditional Owners of the land, sky and waters across Victoria and pays respect to their Elders past and present. We proudly recognise the strength and enduring connection to Country as the world's longest living culture and the profound wisdom, resilience, and contributions of First Peoples and their communities.

We are committed to the ongoing journey of reconciliation by embedding self-determined Aboriginal ways of knowing and doing across the lifespan of the SRL project.

Our approach to sustainability

Suburban Rail Loop Authority (SRLA) has bold ambitions to embed sustainability across all parts of the project. This includes reaching net zero emissions to align with the Climate Change Act 2017.

Suburban Rail Loop (SRL) provides an opportunity to deliver climate positive and resilient transport infrastructure, alongside liveable, future-proofed places. SRL can support the capability of Victoria's design and construction industry, embedding circular economy principles and reducing upfront Greenhouse Gas (GHG) emissions.

SRLA is committed to being a progressive leader and encourages innovation across all aspects of our program including during design, implementation, and through working with our delivery partners.

Our approach is guided by SRLA's **Sustainability Policy** and formalised through the **SRL East Environmental Management Framework** including the 10 Environmental Performance Requirements relating to sustainability.

Our sustainability objectives and targets






SRL East objectives and targets are established within nine sustainability categories. These are mapped against the United Nations Sustainability Development Goals (SDGs) that set benchmarks for sustainability performance, promote innovation, and drive positive outcomes.




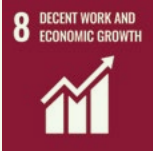


SRLA reports progress in these key areas in the **Annual Sustainability Report**.




SDGs aligned with SRLA's sustainability objectives and targets



SRLA sustainability category	Aligned SDGs	SRLA sustainability objectives	SRLA sustainability targets
Leadership	 	<ul style="list-style-type: none"> - Sustainability rating systems will be used to drive, verify and benchmark progress in sustainability during planning, design and construction - SRLA will work with delivery partners and stakeholders to develop innovative approaches, technologies and industry capacity in particular to realise emission reduction opportunities.. 	<p>Minimum sustainability ratings of:</p> <ul style="list-style-type: none"> - Infrastructure Sustainability Council of Australia IS v2.1 (or later) – Gold rating – for infrastructure scope - Green Building Council of Australia GS Buildings v1A or later- minimum 5 Star rating- for each station and operational control centre - National Australian Built Environment Rating System (NABERS) Energy rating of 6-star for the operational control centre. <p>Contractual targets to drive improvements and innovation.</p>









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Energy & carbon	    	<ul style="list-style-type: none"> - In line with Victoria's Climate Change Strategy (2021), SRL East will reduce energy use and carbon emissions during construction and operation. SRL East will support innovative and cost effective approaches to passive design, energy efficiency, on and off-site renewable energy sources and procurement. 	<p>In construction:</p> <ul style="list-style-type: none"> - Reduce upfront or embodied emissions from materials and the supply chain by at least 20% and develop the markets low carbon construction capabilities - 20% reduction in Construction GHG emissions - All electrical fixed construction plant (i.e. site accommodation, lighting, ventilation, water treatment plant) to be powered with 100% renewable electricity - All tunnel boring machines (TBMs) to be powered with 100% renewable electricity - Maximise the use of electrical construction plant - Maximise the use of alternative low carbon fuel sources. <p>An offsets strategy will be developed to consider the role of offsets in further mitigating the construction and upfront emissions footprint.</p> <p>In operation:</p> <ul style="list-style-type: none"> - Minimum 20% reduction in operational energy use - All rail infrastructure, stations and buildings will be powered with 100% renewable electricity, in line with Victorian Government commitments - SRL East buildings and rail infrastructure will be designed to operate fossil fuel free - A minimum of 20% energy for stabling facility operation will be sourced from onsite renewable sources - SRL East will be carbon neutral in operation and SRLA will prepare a Carbon Neutrality Strategy for operations, using Australian Carbon Credit Units (ACCUs) or other equivalent quality offsets recognised by the Victorian Government.

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Water	   	<ul style="list-style-type: none"> - SRL East will be designed to minimise the use of potable water, and maximise opportunities for reuse of rainwater, stormwater, wastewater and groundwater - All above ground sites will be designed to deliver integrated water management (IWM) solutions and water sensitive urban design (WSUD). 	<p>Potable water usage reduction (Construction and Operation)</p> <ul style="list-style-type: none"> - 10% potable water replaced with non-potable water during construction and during operation - 45% potable water operational demand reduction (stations) - 80% potable water replaced with non-potable water (stabling facility train wash). <p>Stormwater management</p> <ul style="list-style-type: none"> - The Integrated Water Management Strategy for SRL East sets objectives, targets, and requirements aligned with this objective.
Materials & waste	  	<ul style="list-style-type: none"> - SRL East will reduce the environmental impact of material use by embedding a circular economy philosophy and exploring opportunities for reducing embodied impacts of materials selection - Material resource efficiency in the design, construction and operational phases will be pursued, along with opportunities for reducing the embodied impacts in material selection and maximising the beneficial reuse of spoil and other waste materials. 	<p>Operational waste:</p> <ul style="list-style-type: none"> - Recycle or reuse 80% of the waste generated during operations - 60% by volume of office waste (includes paper, cardboard, plastics and food waste) is diverted from landfill . <p>Reduce material's environmental impact</p> <p>Reduce waste during the construction phase:</p> <ul style="list-style-type: none"> - Divert at least 95% of construction and demolition waste from landfill, and reuse topsoil and fill where possible. <p>SRLA will reduce the impacts of materials across SRL East by:</p> <ul style="list-style-type: none"> - Reducing the amount of cement in concrete by at least 35% - Measuring and reducing material lifecycle impacts by at least 15% as measured by the appropriate IS or Green Star materials lifecycle calculator - 80% steel will be sourced from responsible makers - 95% timber will be sourced from certified source or reused. <p>Seek opportunities to include recycled and reused content via the Recycled First Plans and Materials Innovation Plans.</p>

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Transport & mobility	  	<ul style="list-style-type: none"> - SRL East will promote improved public transport patronage by maximising connectivity and interchange capabilities between modes of transport and walking and cycling - Urban design principles, objectives, measures and benchmarks will be implemented to ensure active transport is prioritised and the design of the public realm spaces maximises connections to precinct walking and cycling routes - Opportunities for electric bike charging infrastructure will be considered in the detailed design stage. 	<ul style="list-style-type: none"> - 15% of parking at the stabling facility is dedicated to (and marked for) fuel-efficient vehicles (<5 L/100 km efficiency), with a minimum of 5% for motorcycle parking - 5% of parking at the stabling facility is dedicated to electric vehicles (EVs) and charging infrastructure is provided for each space - Provision of infrastructure at each station cycle hub to allow at least 5% of cycle parking spaces to charge electric bicycles at the same time at Day 1, with future allowance to allow at least 10% of parking spaces to charge electric cycles at the same time.

SRLA sustainability category	Aligned SDGs	SRLA sustainability objectives	SRLA sustainability targets
Community & social legacy	        	<ul style="list-style-type: none"> - SRL East will create jobs and add significant social and economic value to the Victorian economy. SRL East will promote equality, diversity and inclusion and deliver a legacy of skills, learning, expertise and experience - SRL East will provide a positive legacy to the local and wider community. Ongoing engagement is integral to SRL East's development - SRL East will minimise negative impacts on the community and local businesses during construction and operation - SRLA and its contractors will maximise opportunities for employing underrepresented groups and procuring from social benefit suppliers - Support the Victorian Government's commitment to social procurement, gender equality and Aboriginal self-determination. 	<p>Legacy</p> <ul style="list-style-type: none"> - Identify places of historical and cultural significance and commit to apply appropriate protection and interpretation strategies - Develop project wide legacy aspirations and outcomes that leverage benefits for the local community and local Aboriginal peoples¹ - Actively engage with Aboriginal community and Traditional Owners on SRLA-wide matters - Support job creation for priority groups and add value to Victoria's economy by supporting social benefit suppliers. <p>In addition, the Social Procurement Plans for SRL East will set targets, approaches, and requirements for this objective that are reflective of relevant government policies including:</p> <ul style="list-style-type: none"> - Victoria's Social Procurement Framework - Building Equality Policy - Local Jobs First Policy. <p>Corresponding commitments and initiatives will be developed with industry, relevant service providers, formally recognised Traditional Owners and community organisations, and will be informed by market analysis. Progress will be monitored through embedded contractual targets and regular reporting.</p>

¹The term Aboriginal acknowledges the formally recognised Traditional Owners of the Country in the project area. The term used in this context is inclusive of Aboriginal and/or Torres Strait Islander peoples who live, work, and learn in the project area.

SRLA sustainability category	Aligned SDGs	SRLA sustainability objectives	SRLA sustainability targets
Health & wellbeing	  	<ul style="list-style-type: none"> - SRL East will provide well-designed buildings that are comfortable, accessible, safe, and attractive - Buildings will be designed with a high-quality internal and external environment considering acoustic, thermal and visual comfort as well as air quality, promoting health, productivity and occupant well-being. 	<p>To provide a healthy indoor environment:</p> <ul style="list-style-type: none"> - Good indoor air quality will be provided to primary workspaces and passenger areas - Natural light will be maximised to station entrances and concourses - Stabling facility workspaces will have high daylight factors.
Environmental protection & enhancement	     	<ul style="list-style-type: none"> - SRL East will strive to protect and enhance the environment, minimise and control emissions to air, land and water, and better manage the human-environment relationship - SRL East will actively seek to avoid, minimise and mitigate environmental harm through compliance with environmental obligations outlined in applicable planning approvals, supported by robust Environmental Management Systems - Urban design principles, objectives, measures and benchmarks will be developed and implemented to ensure that opportunities for ecosystem enhancement and green infrastructure are investigated and where possible, habitat created, and biodiversity enhanced to complement connected and adjoining sites. 	<p>Light pollution:</p> <ul style="list-style-type: none"> - Lighting design complies with AS 4282 'Control of the Obtrusive Effects of Outdoor Lighting' and lighting within the public realm to include luminaires that have an upward light output ratio (ULOR) <5%. <p>Ecological considerations:</p> <ul style="list-style-type: none"> - SRL East will replace double the amount of tree canopy removed as a result of construction in each local government area by 2050 (refer to the relevant EPR and Tree Canopy Replacement Plan). <p>EPR compliance obligations for SRL East will set targets, strategies and plans for this objective.</p>

SRLA Sustainability Category	Aligned SDGs	SRLA Sustainability Objectives	SRLA Sustainability Targets
Resilience & climate change	   	<ul style="list-style-type: none"> - SRL East will be designed to be resilient to climate change and natural hazards and to support a resilient transport network that can adapt and thrive in changing circumstances. <p>To achieve this, SRL East will:</p> <ul style="list-style-type: none"> - Identify and implement adaptation measures to manage climate change and natural hazard risks across design, construction and operations - Investigate opportunities to support or enhance broader resilience of the transport network. <p>Delivery partners will:</p> <ul style="list-style-type: none"> - Update the SRL climate change and natural hazards risk assessment and develop an adaptation plan applicable to their scope of work, and - Treat all 'very high' and 'high' risks. <p>To provide a healthy outdoor environment, and minimise the urban heat island effect:</p> <ul style="list-style-type: none"> - The proportion of the station sites and stabling facility surface areas comprised of vegetation or other reflective features will be maximised. 	<p>Climate Change Resilience</p> <ul style="list-style-type: none"> - Undertake a climate change and natural hazards risk assessment and develop an adaptation plan applicable to their scope of work - Adaptation measures to treat all 'very high' and 'high' risks are identified and implemented, with no residual 'very high' or 'high' risks remaining after treatment. <p>Urban Heat Island Effect (UHIE)</p> <ul style="list-style-type: none"> - The proportion of the station sites and stabling facility surface areas comprised of vegetation or other reflective features will be maximised.

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