



# Project Sustainability Commitment

**Perth Airport has a significant role to play in the prosperity and well-being of Western Australia and its people. We aspire to be a sustainability leader, and commit to act ethically, sustainably and responsibly in our commercial operations.**



Our highly engaged workforce must represent the global community in which we live. We acknowledge and respect the traditional custodians of the land on which Perth Airport operates, and commit to working in partnership with them and the broader communities we serve. We commit to sustainable development principles and understand that our success goes hand-in-hand with operating sustainably and meeting today's challenges while planning for the future.

## **ESPG TARGET: Sustainability certification for all material infrastructure projects**

### **INFRASTRUCTURE SUSTAINABILITY COUNCIL OF AUSTRALIA (ISCA)**

The IS Rating Scheme (IS) is Australia and New Zealand's only comprehensive rating system for evaluating economic, social and environmental performance of infrastructure across the planning, design, construction and operational phases of infrastructure assets. The scheme can assess the sustainability performance of infrastructure at the individual assets level, for portfolios or networks, or even at a regional scale.



# Multi-Storey Car Park

**Perth Airport has partnered with local contractor Georgiou to deliver its first multi-storey car park. With sustainability at its core, the project aligns with Perth Airport's commitment to developing and implementing SMART targets that aim to reduce environmental impacts, improve social outcomes, and support long-term growth.**

## Project overview

- The six-level car park will be located on the western side of the existing Short Term car park, in front of Terminal 1, and will be linked to the Skybridge, providing a covered walkway to the terminal and will greatly increase parking capacity close to the terminals.
- The project includes new dedicated pick-up and drop-off point for the terminals, replacing the current forecourt road, and will significantly improve the way people access the airport by road.
- The access and egress at Terminal 2 will also be realigned as part of this project.

## Sustainability Targets

The following targets relate to the first multi-storey car park and related road network works. Construction of this project commenced in 2024.



## RESILIENCE

The Resilience category enhances infrastructure to address community needs, adapt to climate change, and withstand shocks. It emphasises stakeholder engagement and the role of assets in supporting interconnected urban systems.



### Sustainability Targets

#### Climate Change and Natural Hazards Risks

*'Identification, assessment and treatment of risks to the asset associated with climate change and natural hazards.'*

– Res-1, Infrastructure Sustainability Council Ver2.1.

#### Design

The design approach will prioritise climate resilience to ensure long-term sustainability and risk mitigation through workshops with multi-disciplinary teams and relevant stakeholders.

#### Construction

The project will address all high-risk construction methodology controls to prioritise safety and strengthen resilience.

#### Operation

Operational requirements will be maintained to optimise preparedness and response planning.

#### Resilience Planning

*'To develop resilient infrastructure that contributes to broader community resilience.'*

– Res-2, Infrastructure Sustainability Council Ver2.1.

#### Design

The project design focuses on long-term service, capacity, and resilience by identifying potential challenges, assessing risks and opportunities, and implementing high-risk design controls to enhance durability and adaptability.

#### Construction

The resilience plan will be followed to prioritise safety and enhance overall resilience.

#### Operation

The project will focus on maintaining operational requirements to optimise efficiency and ensure long-term resilience of the asset.

## ENERGY & CARBON

The Energy and Carbon category promotes reducing energy demand and GHG emissions across the infrastructure lifecycle, prioritising efficient design, renewable energy, and carbon offsets.



### Sustainability Targets

#### Carbon

*'To reduce energy use and carbon emissions across the infrastructure life cycle and drive towards net zero carbon.'*

– Ene-1, Infrastructure Sustainability Council Ver2.1.

#### Design

To promote sustainable energy practices, the project will identify risks and opportunities, and evaluate the benefits through multi-criteria analysis and integrate at least one high-impact energy initiative into the design.

#### Construction

Targeting Scope 3 emissions from personnel travel can be challenging, but it's crucial for reducing the project's overall environmental impact. Perth Airport promotes and provides access to public transport infrastructure including rail.

#### Operation

Minimising long-term energy demand is essential for sustainability. The project will incorporate design initiatives aimed at reducing energy use by 5% over 50 years.

#### Renewables

*'To drive towards net zero carbon by increasing the development and use of renewable energy.'*

– Ene-2, Infrastructure Sustainability Council Ver2.1.

#### Design

A workshop will be conducted to assess energy-related risks, analyse high-risk controls for sustainability, and integrate impactful opportunities into the design process.

#### Construction

Renewable energy opportunities with a payback period of two years or less will be incorporated into the design.

#### Operation

Operational requirements will be upheld to complement design initiatives, aiming for a 5% increase in project-supplied renewable energy, factoring in both construction and operational energy demand over 50 years.

## ENVIRONMENTAL

The Environmental category evaluates the effectiveness of management practices in mitigating environmental discharges (air, water, land), promoting natural capital restoration, and ensuring best practices across varying projects, while recognising the importance of stakeholder engagement and legal compliance.



## Sustainability Targets

### Water Quality

*'To maintain or improve the environmental quality of local streams, rivers and water bodies.'*

– Env-1, Infrastructure Sustainability Council Ver2.1.

### Design

Water risks specific to the project will be evaluated, with designs focused on reducing operational water quality impacts. A construction environmental management plan will be implemented to address potential water quality issues, aligning with the goal of preserving natural resources for future generations.

### Construction

The construction environmental management plan will be followed, with scheduled audits and inspections completed to ensure compliance and minimise environmental impact.

### Operation

Requirements designed to reduce the project's operational water quality emissions will be maintained to ensure ongoing environmental protection.

### Noise

*'To manage noise impacts and improve amenity for noise receptors.'*

– Env-2, Infrastructure Sustainability Council Ver2.1.

### Design

Ambient noise conditions will be investigated, a noise management plan will be developed for activities exceeding 75dB, and methods to reduce construction noise impacts will be explored.

### Construction

Noise emissions will be monitored throughout construction, with all unplanned exceedances of noise thresholds reported.

### Operation

Requirements to reduce the project's operational noise emissions will be maintained to minimise long-term impacts on the surrounding environment.

### Vibration

*'To manage vibration impacts and improve amenity for vibration receptors.'*

– Env-3, Infrastructure Sustainability Council Ver2.1.

### Design

Ambient vibration conditions will be assessed, with a vibration management plan developed for activities exceeding 5mm/s. Methods to reduce vibration impacts will be explored, and dilapidation surveys will be conducted to evaluate potential construction-related damage.

### Construction

Vibration emissions will be monitored during construction with all unplanned exceedances being navigated through the relevant regulators.

### Operation

Requirements to reduce the project's operational vibration emissions will be maintained to minimise impact throughout the asset's lifecycle.

### Air Quality

*'To manage air quality impacts and improve air quality for receptors.'*

– Env-4, Infrastructure Sustainability Council Ver2.1.

### Design

Ambient air quality conditions will be assessed, with a management plan developed for activities exceeding PM2.5 levels of 25µg/m<sup>3</sup> or PM10 levels of 50µg/m<sup>3</sup>. Strategies to minimise construction-related air quality impacts will also be explored.

### Construction

Air quality emissions will be monitored during construction, with 100% of exceedances over air quality thresholds reported.

### Operation

All requirements aimed at minimising these emissions will be maintained throughout the project's lifecycle.

### Light Pollution

*'To minimise light pollution and improve amenity for light receptors.'*

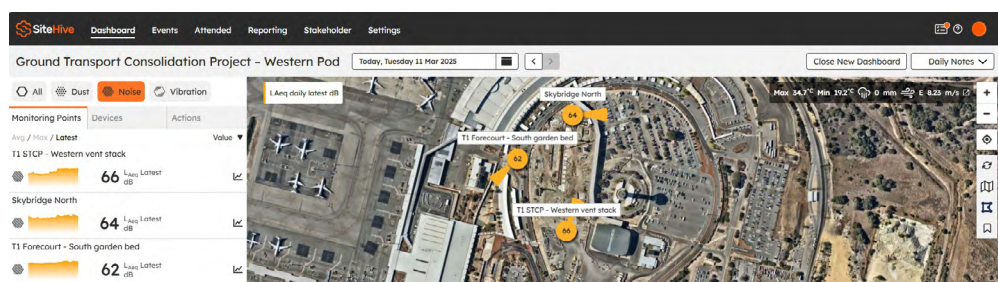
– Env-5, Infrastructure Sustainability Council Ver2.1.

### Design

Light audits will be conducted to assess current conditions, and a 2 Lux and 2% upward light ratio limit will be incorporated into the asset lighting design as part of the GTCP development to comply with these requirements.

### Operation

A defects inspection and lighting audit will confirm that the 2 Lux and 2% upward light ratio limit has been achieved.





## WATER

The Water category promotes water efficiency by reducing use, substituting potable water, minimising local water extraction impacts, and encouraging data sharing for benchmarking, with credits focused on the water management hierarchy and fit-for-purpose use. It addresses water efficiency and reuse, while environmental impacts are covered under the Environmental Impacts category and aquatic ecosystems under the Ecology category.



### Sustainability Targets

#### Water Use

*'To reduce water demand across the life cycle of the infrastructure asset.'*

– Wat-1, Infrastructure Sustainability Council Ver2.1.

#### Design

Efficient water use is essential for long-term sustainability. Water demand will be modelled with opportunities to reduce consumption identified and integrated into the design.

#### Construction

We will implement water demand reduction opportunities during construction with a payback period of two years.

#### Operation

Maintenance requirements will be upheld to minimise water consumption throughout the asset's operation.

#### Water Sources

*'To use water sources of suitable quality for the project's water end uses, while minimising demand on potable water supply, protecting the environment and supporting the use of alternative water sources.'*

– Wat-2, Infrastructure Sustainability Council Ver2.1.

#### Design

In aligning with the State's efforts of reducing dependency on scheme water, alternatives will be assessed based on environmental, social, technical, and economic factors, with at least one solution integrated into the design to supplement the water demand throughout the project's lifecycle.

#### Construction

We will implement at least one opportunity to supplement water demand during construction works.

#### Operation

Maintenance requirements will be upheld to ensure the continued effectiveness of the opportunities integrated into the project design.

## RESOURCE EFFICIENCY

The Resource Efficiency category promotes resource efficiency and zero waste to landfill through improved materials management, including reuse, design optimisation, recycling, and waste avoidance, aligning with UN SDG 12 to increase resource efficiency and reduce waste.



### Sustainability Targets

#### Resource Strategy

*'To identify, implement and manage resource efficiency expectations for each phase of the infrastructure life cycle and to achieve positive circular economy outcomes.'*

– Rso-1, Infrastructure Sustainability Council Ver2.1.

#### Design

The goal is to achieve a 5% reduction in material use in the design, using the IS Materials Calculator. A project-specific resource efficiency strategy will be developed, with a workshop held to identify opportunities for raw material reduction.

#### Construction

The resource efficiency strategy will be followed, with annual reviews conducted with the project team. Progress on material reductions will be reported using the IS Materials Calculator.

#### Operation

Design aspects promoting resource reductions during the project's operation will be upheld through the project's lifecycle.

#### Contamination

*'To eliminate or control risks to people and the environment from contaminated material and to maximise use of sustainable remediation options for the management of such material.'*

– Rso-2, Infrastructure Sustainability Council Ver2.1.

#### Design

Site contamination can pose significant environmental risks if not properly managed. To mitigate these risks, assess project-specific contamination factors, implement design measures to minimise impact, and develop a construction environmental management plan to address potential contamination issues.

#### Construction

Audit 70% of at-risk organic material from site enabling works for potential reuse, reuse at least 50% of site material for fill, and adhere to the project environmental management plan.

#### Operation

Maintain requirements designed to enhance the project's resilience to environmental contamination.



### Acid Sulfate Soils

*'To minimise adverse impacts on people and the environment when addressing the risks associated with acid sulfate soils.'*

– Rso-3, Infrastructure Sustainability Council Ver2.1.

#### Design

We aim to reduce the risk of acid sulfate soil contamination and leaching by assessing project-specific environmental factors, implementing design controls to minimise disturbance, and developing a construction environmental management plan.

#### Construction

Our target is to divert at least 85% of acid sulfate soils from landfill and reuse 50% within Perth Airport Pty Ltd's developments.

#### Operation

Maintain requirements to enhance the project's resilience to environmental contamination.

### Resource Recovery

*'To drive beneficial reuse of resource outputs and reduce the volume of resources sent to landfill.'*

– Rso-4, Infrastructure Sustainability Council Ver2.1.

#### Design

Investigate waste minimisation and recycling opportunities and implement at least two initiatives.

#### Construction

Our target is to divert at least 85% of clean excavation spoil (50% reused onsite), 60% of office outputs, and 70% of other inert resources from landfill.

#### Operation

Diversion of at least 85% of clean excavation spoil, 60% of office outputs, and 85% of other inert resources from landfill.

### Adaptability

*'To plan for the adaptation of infrastructure assets as their utilisation requirements change and for sustainable disassembly of infrastructure assets at end of life.'*

– Rso-5, Infrastructure Sustainability Council Ver2.1.

#### Design

While addressing immediate project needs is essential, integrating future developments can enhance long-term efficiency. We will conduct a workshop to identify adaptability initiatives and incorporate at least two into the project's design.

#### Operation

We will implement strategies that support post-development functionality and future adaptability initiatives.



### Materials Lifecycle

*'To design and construct the project in ways that reduce the environmental impacts of materials across the life cycle of the infrastructure asset.'*

– Rso-6, Infrastructure Sustainability Council Ver2.1.

#### Design

Understanding material impacts over a project's lifecycle is key to sustainable development. We will conduct a lifecycle assessment of materials in the Base Case design and refine the model to align with the IFC design.

#### Construction

Maintain records of materials used for the project.

#### Operation

Update the project materials lifecycle assessment to incorporate changes from AsCon audits.

### Eco Materials

*'To utilise sustainability labelled products and supply chains to address supply chain risks and opportunities.'*

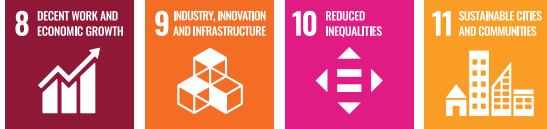
– Rso-7, Infrastructure Sustainability Council Ver2.1.

#### Design/ Construction/Operation

Incorporating sustainable materials enhances the project's environmental performance. We will prioritise sustainably labelled products, ensuring they make up at least 5% of the total dollar value for the GTCP's development.

## OPTIONS ASSESSMENT

The Options Assessment category rewards thorough project option assessments, evaluating risks, whole-of-life financial and economic viability, and net impacts, while considering social, economic, and environmental factors, including externalities and whole-of-life costs.



### Sustainability Targets

#### Decision Making

*'To incorporate sustainability criteria and whole of life considerations into decision making processes for significant project initiatives developed in the design and construction phases and hence increase sustainability outcomes.'*

– Ecn-1, Infrastructure Sustainability Council Ver2.1.

#### Design/Construction/Operation

Embedding sustainability into every stage of the project enhances long-term value and environmental performance. We will establish sustainability parameters for design, construction, and operation, identifying key initiatives within the project team. A sustainability decision-making tool will be developed to integrate these considerations, ensuring at least 50% of significant project decisions are assessed through this framework to drive a sustainable approach.



## STAKEHOLDER ENGAGEMENT

The Stakeholder Engagement category focuses on creating tailored, high-quality engagement strategies that allow key stakeholders to influence project outcomes, ensuring sustainable benefits that meet community needs, with a flexible, principles-based approach to accommodate the unique challenges and opportunities of each project phase.



### Sustainability Targets

#### Community Engagements

*'To design and implement a stakeholder engagement strategy which recognises key stakeholder and community values, interests and concerns, and promotes inclusive, participatory approaches.'*

– Sta-1, Infrastructure Sustainability Council Ver2.1.

#### Design

Understanding stakeholder dynamics is crucial for effective project delivery. We will assess stakeholder characteristics throughout the project lifecycle, develop a stakeholder management plan based on these insights, and identify risks and opportunities arising from engagement activities.

#### Construction

We will ensure adherence to the stakeholder management plan and review the stakeholder characteristics assessment to ensure comprehensive coverage throughout the construction phase.

#### Operation

We will adhere to and refine stakeholder engagement procedures to align with the principles outlined in the PAPL ESGP strategy.

#### Stakeholder Collaborations

*'To implement high quality stakeholder engagement where key stakeholders can contribute to and have influence on project outcomes.'*

– Sta-2, Infrastructure Sustainability Council Ver2.1.

#### Design

We will investigate concerns related to local activities, assess and prioritise each issue, and collaborate with relevant stakeholders to address at least three high-priority concerns throughout the project's lifecycle.

#### Construction

The team will investigate construction-related stakeholder concerns, assess and rank them by priority, and address at least three high-priority concerns during the project's construction phase.

#### Operation

To ensure seamless project execution, we will uphold operational requirements by ensuring that controls for the project's concerns are consistently followed and effectively maintained throughout the process.

## LEADERSHIP

The Leadership category aims to foster a holistic approach to sustainability by integrating sustainable practices into governance and performance, promoting a culture of sustainability, aligning with the UN Sustainable Development Goals, addressing risks and opportunities, and encouraging knowledge sharing for improved outcomes and long-term returns.



## Sustainability Targets

### Integration

*‘To embed the project’s sustainability commitment, objectives and targets into governance and continuous improvement processes, and to publicly commit to and report on progress.’*

– Lea-1, Infrastructure Sustainability Council Ver2.1.

### Design

The project will pinpoint key sustainability areas, set specific goals, and develop a comprehensive Sustainability Management Plan with a monitoring framework for both the construction and operation phases. Progress on the GTCP’s sustainability efforts will be reported quarterly within the project team for progress monitoring.

### Construction

We will implement the Sustainability Management Plan and report on the GTCP’s sustainability progress quarterly.

### Operation

We will ensure all operational requirements are met as outlined in the Sustainability Management Plan, maintaining compliance throughout the project.

### Risk & Opportunity

*‘To identify, assess and manage key sustainability risks and opportunities relevant to the project context and meaningful to affected stakeholders.’*

– Lea-2, Infrastructure Sustainability Council Ver2.1.

### Design

To ensure sustainability is embedded throughout the project lifecycle, we will conduct a workshop to assess sustainability risks and opportunities across design, construction, and operation. This will allow us to evaluate the Risks & Opportunities register, integrate high-risk controls into the design, and review the register quarterly with project senior management to ensure effective management and mitigation of risks.

### Construction

All high-risk controls related to construction methodology will be implemented, and the Risks & Opportunities register will be reviewed quarterly with project senior management.

### Operation

Operational requirements for design-based risk controls and opportunities will be maintained.

## Transparency

*‘New or updated knowledge on issues and outcomes important to infrastructure sustainability is shared between projects and more widely within industry.’*

– Lea-3, Infrastructure Sustainability Council Ver2.1.

### Design/Construction/Operation

The project will document and deliver relevant environmental monitoring data to the respective regulators and conduct at least two instances of sharing project knowledge beyond project boundaries.

## PLACE

The Place category focuses on delivering strategically aligned and contextually appropriate infrastructure through collaborative planning, design, construction, and operation, ensuring it integrates into its physical and social context while preserving cultural, environmental, and community values, supporting economic activity, and fostering vibrant, sustainable communities.



## Sustainability Targets

### Urban Planning

*‘To create infrastructure that has been influenced by the local context, fits its setting, and meets the needs of the people that will use it, while preserving and enhancing scenic, aesthetic, cultural, community and environmental resources and values.’*

– Pla-2, Infrastructure Sustainability Council Ver2.1.

### Design

To enhance the project’s environmental and cultural impact, we will formulate an Urban and Landscape Design Plan, develop a corresponding Urban & Landscape Maintenance Program, and explore opportunities for incorporating indigenous content into the asset.

### Construction

The project will adhere to the Urban and Landscape Design Plan to ensure consistency and alignment with design objectives.

### Operation

A corresponding maintenance program, upholding project commitments into the assets use, will be adopted to ensure ongoing care and sustainability of the design elements.



# Aviation Support Precinct [ASP] & T2 Apron Expansion

**With regional passenger numbers continuing to surge, Perth Airport has started work on key projects in the Airport Central precinct that will help cater for WA's growing regional aviation sector.**

## Project overview

The ASP & T2 Apron Expansion project includes:

- Expanding the current Terminal 2 apron to deliver a 45 per cent increase in capacity for aircraft parking in the precinct.
- An Aviation Support Precinct (ASP) which will cater for important support services such as in-flight catering, maintenance, ground service equipment maintenance, and freight facilities. Such support services are fundamental to the operations of Perth Airport and will increase operational efficiency and productivity while providing a more enjoyable passenger experience.

## Sustainability Targets

These projects will be designed and will be built to achieve an IS Essentials v2.1 Pilot Bronze rating.

Perth Airport has set the following targets for the project:

- Identify at least three and implement a minimum of two opportunities to reduce embodied carbon through material selection and minimisation in design and construction phase, respectively
- Identify a minimum of three waste reduction and onsite material reuse opportunities during design phase
- More than 85 per cent clean/inert excavation spoil diverted from landfill (including >50 per cent onsite reuse)
- More than 60 per cent office resource outputs (office and kitchen based) diverted from landfill
- More than 80 per cent other inert and non-hazardous resource outputs diverted from landfill
- In line with Perth Airport's ESG target, a minimum of 75 per cent resource recovery rate of operational waste by 2030
- Undertake a climate change and natural hazard risk assessment for the project during the design phase, implement all feasible mitigations in design and address all high or above risks during construction
- Identify and implement feasible water reduction and appropriate water sourcing opportunities
- Ensure the 2030 water usage for operation does not exceed 2019 scheme water demand
- Identify and implement feasible energy reduction and renewable energy opportunities.
- Achieve a 15 per cent reduction in Scope 1 & 2 operation emissions by 2030

