

Environmental Management Plan

This environmental management plan outlines Red Bus Services objectives and strategies for protecting the environment. This plan sets out how Red Bus Services intends to comply with government standards and contractual obligations of the Sydney Outer Metropolitan Bus Service Contract.

TASK 1: REDUCE THE GREENHOUSE IMPACT OF ENERGY USE

Objective: To reduce the consumption of energy and the emission of greenhouse gases associated with Red Bus Services activities.

Target: To maintain or where possible to reduce greenhouse gas emissions within Red Bus Services depot.

TASK 2: COMPLIANCE WITH ENVIRONMENTAL LEGISLATIVE AND OTHER REQUIREMENTS

Objective: To ensure compliance with legislative requirements regarding environmental protection including, noise, stormwater, pollution, liquid trade waste discharge and waste management.

Target: No incidences or complaints reported highlighting non-compliance with legislation.

TASK 3: MINIMISE WATER CONSUMPTION IN RED BUS SERVICES

Objective: To maintain or where possible reduce water consumption across Red Bus Services activities.

Target: To maintain or where possible reduce water use

TASK 4: MINIMISE WASTE SENT TO LANDFILL

Objective: To reduce the generation of waste from Red Bus Services activities.

Target: To reduce generation of waste.

TASK 5: PREVENT STORMWATER, SOIL AND GROUNDWATER POLLUTION

Objective: To prevent the pollution of stormwater, soil, groundwater from Red Bus Services activities and to ensure compliance with relevant environmental legislation.

Target: No incidents or complaints received.

TASK 6: MINIMISE EMISSIONS

Objective: To ensure emissions are kept to a minimum.

Target: To reduce emissions.

TASK 7: PROMOTE CONTINUAL ENVIRONMENTAL IMPROVEMENT

Objective: To ensure that the Business Management System complies with all requirements of ISO 14001:2004 and staff have a high awareness of Red Bus Services environmental management system.

Target: Maintain certification

TASK 1: REDUCE THE GREENHOUSE IMPACT OF ENERGY USE

Objective: To reduce the consumption of energy and the emission of greenhouse gases associated with Red Bus Services activities.

Target: To maintain or where possible to reduce greenhouse gas emissions within Red Bus Services depot.

Action No.	Action	Activities	Responsibility	Timeframe
1	Monitor fuel consumption of all vehicles.	Maintain a database for recording fuel use of vehicles to ensure efficient consumption.	Depot and Fleet Manager	Ongoing
2	Monitor energy consumption.	Input energy consumption data into the Australian Government's National Greenhouse and Energy Reporting (NGER) framework to keep track of energy use. No need to submit to the government annually due to consumption is under the threshold.	Contract Compliance Manager	Quarterly
3	Implement energy efficiency opportunities to reduce energy consumption.	<ul style="list-style-type: none"> • Purchasing Policy – to purchase energy efficient equipment where possible. • Replacement Policy – to purchase energy efficient equipment where possible • Install auto switch-off timers where possible. 	Depot and Fleet Manager General Manager	Ongoing
4	Incorporate best practice energy efficiency standards into new or renovated depot buildings.	When renovating depot buildings or purchasing new buildings incorporate energy best practices.	Managing Director	As required
5	Investigate options for renewable energy generators	In time install solar units and when required replace hot water systems with solar systems.	Managing Director	Long term
6	Educate staff and raise awareness about energy efficiency within depot.	Develop signage around depot	Depot and Fleet Manager	December 2014

TASK 2: COMPLIANCE WITH ENVIRONMENTAL LEGISLATIVE AND OTHER REQUIREMENTS

Objective: To ensure compliance with legislative requirements regarding environmental protection including, noise, stormwater, pollution, liquid trade waste discharge and waste management.

Target: No incidences or complaints reported highlighting non-compliance with legislation.

Action No.	Action	Activities	Responsibility	Timeframe
7	Comply with; <ul style="list-style-type: none"> • Protection Environment Operations Act 1997. • Protection of the Environment Operations (General) Regulation 2009. • Protection of the Environment Operations (Waste) Regulation 2005. • Protection of the Environment Operations (Clean Air) Regulation 2010. • Protection of the Environment Operations (Noise Control) Regulation 2008. • Wyong Shire Council Urban Stormwater Quality Management Plan. 	<ul style="list-style-type: none"> • Spill clean-up kits are placed throughout the depot and inspected regularly and kept stocked. • Workshop staff are educated through toolbox meetings on emergency procedures for major spills at on-road breakdowns and in the depot. • All hazardous, liquid waste (coolant, oils, water and fuels), waste batteries and waste tyres are collected by licensed waste transporters for appropriate disposal. • Parts washer equipment are maintained by licensed waste transporters. • Discharge liquid wastewater to sewer is accordance to Wyong Shire Council Urban Stormwater Quality Management Plan. Stormwater discharge is regularly checked by Wyong Shire Council representative. • Paints and Solvents are stored in secured containers in bunded area. • Paints and chemical waste are maintained by licensed waste transporters. 	Depot and Fleet Manager	Ongoing

TASK 3: MINIMISE WATER CONSUMPTION IN RED BUS SERVICES

Objective: To maintain or where possible reduce water consumption across Red Bus Services activities.

Target: To maintain or where possible reduce water use.

Action No.	Action	Activities	Responsibility	Timeframe
8	Monitor water consumption.	Maintain water consumption data from water rates to note any increase of water use.	Contract Compliance Manager	Quarterly
9	Maintain recycle water unit for bus washing facility.	Maintain recycle water unit for bus washing facility.	Depot and Fleet Manager	Ongoing
10	Water use	<ul style="list-style-type: none"> All storm water drainage other than the water collected off the fuel bay into the 80,000 litre water tank is directed underground to the main water retention pond for filtration. Water to operate the bus washer and steam bay comes from the 80,000 litre water tanks on site. 	Depot and Fleet Manager	Ongoing
11	Only purchase water efficient devices	Purchasing policy – only purchase water efficient devices where possible throughout the depot.	Depot and Fleet Manager	Ongoing
12	Landscaping of depot	<ul style="list-style-type: none"> Purchasing Policy – only purchase drought tolerant plant species for depot. Sprinkler systems around the depot receive their water from the retention pond. 	Depot and Fleet Manager	Ongoing

TASK 4: MINIMISE WASTE SENT TO LANDFILL

Objective: To reduce the generation of waste from Red Bus Services activities.

Target: To reduce generation of waste.

Action No.	Action	Activities	Responsibility	Timeframe
13	Monitor the amount of waste sent to landfill from Red Bus Services depot.	<ul style="list-style-type: none"> Collate amount of waste sent to landfill (by metred bin) from waste collection contractors. Conduct a waste audit in order determines waste reduction strategies and cost saving opportunities. 	Contract Compliance Manager	December 2014
14	Use of Recycling facilities at depot.	Educate staff through toolbox meetings of the importance of using the provided bins for types of waste to reduce the land fill.	Depot and Fleet Manager	Ongoing
15	Encourage the purchase of goods with minimal packaging.	Investigate procurement policies to reduce the amount of products that are packaged.	Depot and Fleet Manager	Ongoing
16	Ensure hazardous and high risk waste is disposed through a licensed waste contractor.	Engage and EPA licensed waste contractor to collect hazardous and high risk waste (oil, coolant, waste water, batteries, waste chemicals, paints and tyres) and complete EPA waste Transport Certificate.	Depot and Fleet Manager	Ongoing

TASK 5: PREVENT STORMWATER, SOIL AND GROUNDWATER POLLUTION

Objective: To prevent the pollution of stormwater, soil, groundwater from Red Bus Services activities and to ensure compliance with relevant environmental legislation.

Target: No incidents or complaints received.

Action No.	Action	Activities	Responsibility	Timeframe
17	All buses to be washed in designated wash bay area.	Waste water from washing process to be treated via oil/water separator and recycled. Waste water and/or oil is never discharged into sewer. Waste water and oil are separated and stored in separate holding units to be removed by licensed liquid waste transporter.	Depot and Fleet Manager	Ongoing
18	All oils, fuels, batteries and chemicals are stored in bunded areas.	Comply with the Australian Standard AS1940:2004: The Storage and Handling and Flammable and Combustible Liquid.	Depot and Fleet Manager	Ongoing
19	Waste liquid storage tanks to be monitored	Monitor waste oil, coolant and water tanks/drums for quantity levels.	Depot and Fleet Manager	Weekly
20	Contain and clean up all liquid spills	<ul style="list-style-type: none"> • Ensure spill response materials (kits) are located in all workshops areas, fuel bays and on-road support services vehicles. • Ensure all workshop staff are trained in spill response. 	Depot and Fleet Manager	<ul style="list-style-type: none"> • Weekly • Ongoing
21	Hazardous and toxic substances to be stored and disposed of appropriately.	<ul style="list-style-type: none"> • Comply with Red Bus Services Safe Working Procedures for storing of hazardous substances. • Store dangerous goods in appropriate storage facilities. • Material Data Safety Sheets (MSDSs) to be up-to-date and available for all hazardous products. 	Depot and Fleet Manager	Ongoing

TASK 6: MINIMISE EMISSIONS

Objective: To ensure emissions are kept to a minimum.

Target: To reduce emissions.

Action No.	Action	Activities	Responsibility	Timeframe
22	Training of drivers to reduce emissions.	All drivers to be trained to have ‘ownership’ of good driving practices. Which include but not be restricted to; <ul style="list-style-type: none"> • Energy saving driving techniques. • Environmentally friendly acceleration and deceleration. • Lowering centrifugal forces when cornering. • Defensive driving in traffic. • Minimisation of idling in built up areas. 	General Manager	Ongoing
23	Clean Fleet Program Participant	Committed Clean Fleet Program participant. Red Bus vehicles comply under an Emissions Management System and are renewed on a bi annual basis to ensure compliance.	General Manager	Annually
24	Driver Performance	Evaluate each driver’s driving practices in relation to safety, economy and comfort on a continuing basis.	General Manager	Annually
25	Purchase of Euro 5 or higher buses	Purchase Policy – purchase of efficient emission control buses – Euro 5 or higher.	Depot and Fleet Manager	Ongoing
26	Fuel and Engine Systems	<ul style="list-style-type: none"> • Energy management to include actions to reduce fuel use, regularly monitor processes, use of high quality fuel and operating buses to test cycle emission standards. • Install environmentally friendly technology, such as ultra-fine fuel and oil filters, enhanced braking and propulsion systems and computerised fuel 	Depot and Fleet Manager	Ongoing

		and engine management systems.		
27	Purchase of fuels and oils with low emissions.	<ul style="list-style-type: none"> • Purchase only Ultra low Sulphur Power Diesel or a better alternative. • Purchase only Delo 400 oils or a better alternative. 	Depot and Fleet Manager	Ongoing
28	Maintain a fuel filtration system	<ul style="list-style-type: none"> • Service cycle management of fuel filter replacements. • Service of bowser filtration system. 	Depot and Fleet Manager	Quarterly
29	Maintain vehicle servicing according to Manufacturers service manuals.	<ul style="list-style-type: none"> • Vehicles are to be service regularly as per the Manufacturers service manual. • Maintain maintenance records to achieve environmental strategies. 	Depot and Fleet Manager	Ongoing

TASK 7: PROMOTE CONTIUNAL ENVIRONMENTAL IMPROVEMENT

Objective: To ensure that the Business Management System complies with all requirements of ISO 14001:2004 and staff have a high awareness of Red Bus Services environmental management system.

Target: Maintain certification

Action No.	Action	Activities	Responsibility	Timeframe
29	Develop an Environmental Management System in accordance with the requirements of ISO 14001:2004	<ul style="list-style-type: none"> Identify environmental aspects associated with Red Bus Services activities and develop control measures to reduce impact. Develop a suite of procedures in consultation with relevant staff to address activities and tasks that have an impact on the environment. 	General Manager	December 2014
30	Develop staff skills register	Create register of staff skills and environmental knowledge required for relevant staff to conduct their roles to comply with environmental legislation etc.	General Manager	December 2014
31	Develop a staff training program	<ul style="list-style-type: none"> Identify environmental training requirements for relevant staff. Implement an environmental awareness program for new staff as part of induction process. 	General Manager	December 2014
32	Conduct regular internal environmental audit of depot	Conduct audits on environmental procedures, relevant environmental legislation and against the ISO 14001:2004: Standard to ensure compliance.	Contract Compliance Manager	Ongoing
33	Engage external accredited auditor to audit the EMS	Engage external auditor to audit the EMS in conjunction with auditing the Safety and Quality Systems to ensure compliance with ISO 14001:2004.	Managing Director	Annually