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Glossary

Term	Definition
ABS	Australian Bureau of Statistics
AFC	Automatic fare collection
Agglomeration	The concentration of related or similar activities within a common geographic area such as a city centre.
AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
Airborne noise	Airborne noise is the most common form of noise experienced by people. Airborne noise results from noise propagating between the source and the receiver, primarily through the air.
Aquifer	A geological formation that is made up of porous materials such as sand and gravel that allows the storage and transmission of significant volumes of water.
ATC	Australian Transport Council
Automatic Train Control (ATC)	An automatic system used to control the trains.
Automatic Train Operation (ATO)	The system which automatically controls the operation of the train from a remote location.
Automatic Train Protection (ATP)	The automatic system which protects the train from a possible collision.
BCR	Benefit/cost ratio
BRT	Bus rapid transit
Bulk supply point (BSP)	A vital step in the transmission of electricity is decreasing the transmission line voltage using transformers. This is performed at a large substation called a Bulk Supply Point owned and operated in NSW by TransGrid.
Bulk power	Electrical supply points from Distribution Network Service Provider(s) to provide electrical energy.
Carbon dioxide equivalent (CO ₂ -e)	A measure used to standardise the global warming potential of different greenhouse gases to that of carbon, the most common greenhouse gas.
Cavern construction	Construction that is tunnelled out from the shaft excavations from the surface.
CBA	Cost benefit analysis
CBD	Central business district
CCTV	Closed Circuit Television
CO	Carbon monoxide
COAG	Council of Australian Governments
Concourse level	The second level above the platform and the first level below street level.

Term	Definition
Construction Environmental Management Plan (CEMP)	A document setting out the management, control and monitoring measures to be implemented during construction of a development, to avoid or minimise the potential environmental impacts identified during an environmental impact assessment process.
CMS	Construction Method Statements
Construction site	Land required for construction activities associated with the project (including storage, amenities, site offices, etc), and may be required for the construction and commissioning phases.
CPRS	Carbon Pollution Reduction Scheme
Crime Prevention Through Environmental Design (CPTED)	These principles provide guidelines to the environment around stations to minimise the opportunity for crime.
Crossover	Points and track enabling a train to switch from one track to another, made up of two connected turnouts.
CTMP	Construction Traffic Management Plan
Cut and cover	Method of construction for underground structures where a hole is excavated from the surface down, the structure is built and then covered.
dBA	Decibel
DCP	Development control plan
DECC	Department of Environment and Climate Change
Director-General's requirements (DGRs)	Requirements for an environmental assessment issued by the Director-General of the Department of Planning in accordance with the <i>Environmental Planning & Assessment Act 1979</i> .
Down line	Direction on rail network away from Sydney CityRail Central Station.
Dyke	A vertical sheet of intrusive igneous rock.
Economic Multipliers	Relates to economic activity in one industry and the flow on benefits to other industries.
ECRTN	Environmental Criteria for Road Traffic Noise
EEC	Endangered ecological communities
ENMM	Environmental Noise Management Manual
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
EPB	Earth Pressure Balance
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EPI	Environmental planning instrument
Ecologically Sustainable Development (ESD)	Using, conserving and enhancing the community's resources so that the ecological processes, on which life depends, are maintained and the total quality of life, now and in the future, can be increased.
ESL	Eastern Suburbs CityRail Line
FAQs	Frequently asked questions
FSR	Floor space ratio

Term	Definition
Framework traffic management plan (FTMP)	Strategies for proposed traffic management measures that will be established and practiced throughout the construction period of a project.
Geotechnical	Of or related to the soil and bedrock.
GGBFS	Ground granulated blast furnace slag
GIS	Gas Insulated Switchgear
Greenhouse gas	A gas that absorbs and emits reflected infrared radiation (heat) from the Earth's surface.
Green Star rating	A voluntary environmental rating system for buildings in Australia.
Ground-borne noise	Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces.
Ground-borne vibration	Generated by wheel/rail interaction and is transmitted from the trackbed, through the tunnel structure, via the ground and into the adjacent building structures.
Groundwater	Water located under the earth's surface in underground streams and aquifers.
GWh	Gigawatt hour
Heavy rail	The structures and vehicles of railways not falling under the description of trams, light rail, medium capacity system, or rapid transit.
HTS	Household travel survey
HV	High voltage
IGANRIP	Interim Guideline for the Assessment of Noise from Rail Infrastructure Projects
INP	Industrial Noise Policy
In-situ	In the ground, undisturbed.
Integrated Metro Operations (IMO)	Design, construction, delivery and commissioning of all (the track, rolling stock, equipment, systems, utilities, services, facilities (including an operations control centre and a stabling and maintenance facility), station structures and fitout for the long term operation and maintenance of the CBD Metro.
Integrated ticketing	Allows a person to make a journey that involves transfers (within or between different transport modes) with a single ticket that is valid for the complete journey.
IPCC	Intergovernmental Panel on Climate Change
JTW	Journey-to-Work
Kiss and ride	Where a car passenger is dropped off at a public transport station/bus interchange by a private car. This is generally by a family member, hence the 'kiss' goodbye.
L_{Aeq}	The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.
L_{Amax}	The maximum A-weighted noise level.
LALC	Local Aboriginal Land Council



Term	Definition
Launch site	The site where a tunnel boring machine is assembled and lowered into a shaft (or down a drive) to commence excavation of the tunnel.
LEP	Local environmental plan
LGA	Local government area
Light Rail	A form of urban rail public transportation that generally has a lower capacity and lower speed than heavy rail and metro systems, but higher capacity and higher speed than street-running tram systems
LV	Low voltage
Master plan	A plan that describes and maps the overall development concept for an area or precinct, including present and future land use, detailed urban design and landscaping, built form, infrastructure and service provision.
Metro railway	A guided system designed to transport passengers on a railway track, together with its infrastructure and associated sidings, that: (a) Provides high-frequency commuter and other passenger service. (b) Is operated using automated systems, that are integrated with trains, from one or more central control point. (c) Is operated using dedicated rail infrastructure facilities that are not operationally connected with other types of rail infrastructure facilities.
Metro railway system	(a) a metro railway and its rail infrastructure facilities, and (b) stations, platforms, maintenance facilities, depots and other transport interchanges, works, structures and facilities associated with or incidental to the metro railway or rail infrastructure facilities (including commercial and retail facilities).
Mezzanine level	The first level above the platform.
Monorail	A rail-based transportation system based on a single rail, which acts as its sole support and its guideway.
NCLG	Network Co-ordination Liaison Group
NICCARA	National Infrastructure Climate Change Adaptation Risk Assessment
NML	Noise management level
NO _x	Nitrogen oxides
O ₃	Ozone
OHW	Overhead wiring
ONVMP	Operational noise and vibration management plan
Operations Control Centre (OCC)	The building from where the metro trains would be controlled from.
OTR	Other than rock
Overhead traction power	An overhead network that supplies electricity to the metro train system.
OWS	Overhead wire system
PAD	Potential archaeological deposit
PCF	Penetrating Cone Fracture
PEA	Preliminary environmental assessment

Term	Definition
PEA Act	<i>Protection of the Environment Administration Act 1999</i>
Permanent Route Infrastructure (PRI)	Design and construction of tunnels, station excavations, cross passages and associated civil works.
PFP	Privately financed project
Piles	Postlike foundation members made of timber, steel, or concrete that are driven into the ground to support a structure.
PFP	Privately financed project
Platform Screen Doors	Automatically controlled doors located at the edge of the platform to improve safety and make control of the station environment easier. The doors are linked to the train control system to ensure they align with the train doors when the train stops.
PM ₁₀	Particles less than 10 micrometres in diameter
POEO Act	<i>Protection of the Environment Operations Act 1996</i>
PPA	Power Purchase Agreement
PPE	Personal protective equipment
Precautionary principle	Where there is a threat of serious or irreversible environmental damage, the absence of full scientific certainty should not be used as a reason to postpone measures to prevent environmental degradation.
Precinct	Metro stations and land in vicinity of the stations, including station design and amenity, integrated transport facilities, pedestrian links and access facilities, traffic and parking, public domain amenities and improvements, retail and commercial development associated with metro, other development, and other matters ancillary to the operation of metro/associated transport.
PSD	Platform screen doors
PTIPS	Public Transport Information and Priority System
Regenerated noise	Where energy is converted to noise away from the primary source.
Regenerative braking	A system that allows some of the kinetic energy generated during train braking to be captured and returned to the traction power supply and used elsewhere within the electrified metro system.
RET	Renewable Energy Target
Retrieval site	The site where a tunnel boring machine is extracted from the tunnel (usually via a shaft) on completion of the tunnel excavation.
RL	Reduced level
RMU	Ring Main Unit
Roadheader	Excavation plant consisting of a boom mounted rotating cutter head mounted on tracks or rails
Rolling stock	Standard single deck metro trains used on the metro railway.
RTA	Roads and Traffic Authority
Running tunnels	The portion of tunnel that would house the operational alignment. Other tunnel types include tunnels for crossovers and turnbacks, cross passages and connections to maintenance facilities.



Term	Definition
SEPP	State Environmental Planning Policy
SF ₆	Sulfur hexafluoride
Shaft	Vertical or inclined access to the surface
SHFA	Sydney Harbour Foreshore Authority
SIR	Sustainability Initiatives Register
Sheet pile walls	Constructed by driving prefabricated sections into the ground and connecting the joints of adjacent sheet pile sections to form a wall.
Shoring	The process of supporting a structure in order to prevent collapse so that construction can proceed.
SO ₂	Sulfur dioxide
Spoil	Material produced by tunnelling, caverns and station excavation activities.
Stabling and maintenance depot	A depot including buildings and facilities for the stabling and maintenance of the metro system, including rolling stock and the infrastructure.
Station planning	Process to ensure the long-term integration and compatibility of land use surrounding each of the stations.
STM	Strategic Travel Model
STS	Sub-transmission substation
Stub tunnels	A short section of tunnel which links to a main tunnel.
Substation	A facility that controls the flow of electricity by switching, changing, or regulating electric voltage.
SWL	Sound power level
Sydney Metro	Sydney Metro is the NSW Government agency constituted under the <i>Transport Administration Act 1988</i> to develop a metro railway system, including procuring the CBD Metro and possible future extensions of it.
TCP	Traffic control plan
TDC	Transport Data Centre
TDS	Total dissolved solids
TMP	Traffic management plan
Tunnel boring machine (TBM)	Machines used to excavate tunnels with a circular cross section through a variety of soil and rock strata.
TOM	Traffic Operations Manager
TSC Act	<i>Threatened Species Conservation Act 1995</i>
TSP	Total suspended particles
TTLG	Traffic and Transport Liaison Group
Turnback	Configuration of tracks allowing a train to terminate a service and return to its starting point.
Up line	Direction on the rail network toward Sydney CityRail Central Station.
UTS	University of Technology Sydney

Term	Definition
Virgin excavated natural material (VENM)	Natural material (such as clay, gravel, sand, soil and rock) that: (a) is not mixed with any other type of waste; and (b) has been excavated from areas of land that are not contaminated.
Vkt	Vehicle kilometres travelled.
VOC	Vehicle operating costs

