

Appendix B

Cumulative impact assessment project long list

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Table B-1 Long list of projects with potential cumulative impacts for benthic ecology

Project	Proponent	Type	Brief description	Timing	Status	Tier
Blue Mackerel North	Parkwind	Offshore Wind	Received feasibility licence. 1GW project off the coast of Seaspray	Construction from 2029 - operations from 2032	Proposed	Tier 3
Blue Mackerel North Offshore Wind Farm Marine Surveys	Parkwind	Offshore Wind	Marine survey investigations which includes the following activities: Geophysical investigations Geotechnical investigations Metocean surveys Environmental surveys	Details unknown	Approved	Tier 1
Aurora Green	Iberdrola Australia	Offshore Wind	Received feasibility licence. 3GW project 25km off the coast	Details unknown	Proposed	Tier 3
Aurora Green Offshore Wind Farm Preliminary Surveys	Iberdrola Australia	Offshore Wind	The offshore investigations will comprise: Metocean surveys – remote sensing, buoys, and other sensor technology (including FLIDAR). Geophysical surveys Benthic surveys Geotechnical surveys	The proposed activities are estimated to commence in late 2024 through to 2025. The duration is estimated to be around 70 days to 120 days per package of works. With geophysical and benthic surveys in 2024 and hydrographic, unexploded ordnance (UXO) top up and pre-clearance surveys and geotechnical surveys in 2025. Metocean monitoring would be conducted initially over 12 month period commencing in late 2024 or early 2025 and may require additional campaigns subject to the quality of data collected.	Approved	Tier 1
Great Eastern Offshore Wind Farm	Corio - previously Macquarie Green Investment Group	Offshore Wind	Received feasibility licence. Up to 2.5GW fixed-bottom offshore wind farm approx 22 km off the central Gippsland coast, Vic	Details unknown	Seeking approval	Tier 2
Great Eastern Offshore Wind Farm - Preliminary Site Investigations	Corio - previously Macquarie Green Investment Group	Offshore Wind	The proposed action is the Preliminary site (marine geophysical and geotechnical - Preliminary G&G) investigations required for the proposed development of the Project: Geophysical investigations including: Multi-beam echo sounder (MBES) Side scan sonar (SSS)	The geophysical program will take up to 10 weeks (65 days, with approximately 15 days of weather downtime included) Originally proposed to be carried out between 1 August 2024 and	Approved	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
			Sub-bottom profiling (SBP) Magnetometer.	December 2025 - still not approved so exact dates tbd		
			Geotechnical investigations including: Cone Penetrometer Tests (CPT) Shallow Piezo CPT Deep Seabed CPT Downhole CPT Thermal CPT / In-situ Thermal Probe Vibrocoring Boreholes Rotary coring Composite boreholes (CPTs with alternate Borehole Sampling) Continuous sampling Grab sampling In-situ thermal conductivity testing.			
Novocatrian Offshore wind farm	Oceanex Energy	Offshore Wind	Received feasibility licence for project - 2GW floating offshore wind farm from south of Newcastle, 20km off coast of NSW	Construction in 2028 - completion in 2031	Proposed	Tier 3
Spinifex Offshore Wind Farm	Alinta Energy	Offshore Wind	1 GW+ offshore wind farm planned to power the Portland aluminium smelter Applied for feasibility licence	Feasibility licence submitted in 2024, no outcome as of yet	Proposed	Tier 3
Spinifex Offshore Wind Farm - Offshore Investigations	Alinta Energy	Offshore Wind	The offshore investigations will comprise: Vessel-based geophysical investigations of the offshore investigation area to gain a preliminary understanding of shallow geology and constraints and hazards from manmade, natural and geological features. The results of this investigation will also inform benthic habitat description and assist with scoping of marine ecological surveys for the environmental impact assessment of the OWF Project. Vessel-based geotechnical investigations of the offshore investigation area to inform foundation design and specific export cable route selection.	The preliminary geophysical investigations would not commence before 1 November 2024. The full program of offshore investigations is targeted to be complete by 30 April 2029, which includes contingency.	Seeking approval	Tier 2

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Gippsland Offshore Wind Farm 1	Ørsted	Offshore Wind	Received feasibility licence. Two project sites comprising of two 2.84GW projects - with totaling 5.4GW	Projects to be delivered in phases, with phase 2 capitalising off the first phase. The first project is expected to be completed in the early 2030s	Proposed	Tier 3
Gippsland Offshore Wind Farm 2	Ørsted	Offshore Wind	Received feasibility licence. Two project sites comprising of two 2.84GW projects - with totaling 5.4GW	Projects to be delivered in phases, with phase 2 capitalising off the first phase.	Proposed	Tier 3
Gippsland Offshore Wind Farm Marine Survey Investigations	Ørsted	Offshore Wind	This EPBC referral is intended to cover the marine field investigations that include: the marine geophysical (GP) and geotechnical (GT) surveys to be undertaken within the offshore marine environment. This will inform the impact assessments and approvals for the Project as well as the engineering design for the Project. the marine surveys required to inform the impact assessments. wind measurement surveys using Floating LiDAR (buoy/uncrewed surface vessel (USV)) to establish turbine locations for optimum Annual Energy Production (AEP).	tbd	Approved	Tier 1
High sea wind	Ocean Winds (EDP Renewables & ENGIE)	Offshore Wind	Received feasibility licence. 1.28GW project in the south east of the declared area.	Details unknown	Proposed	Tier 3
Gippsland Skies	AGL & Mainstream Renewable Power & Reventus Power & Direct Infrastructure	Offshore Wind	Received feasibility licence. 2.5GW project with fixed foundations. Includes details of \$400 million package to support workforce and supply chain development	First phase operational in 2032	Proposed	Tier 3
Gippsland Skies Offshore Wind Project marine surveys (investigations)	AGL & Mainstream Renewable Power & Reventus Power &	Offshore Wind	Marine survey investigations which includes the following activities: Geophysical investigations Geotechnical investigations	Surveys from early 2025 over multiple campaigns until 2029 (phase 1) and 2032 (phase 2 & 3)	Seeking approval	Tier 2

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Project	Proponent	Type	Brief description	Timing	Status	Tier
	Direct Infrastructure		Benthic habitat surveys Wind and oceanography surveys			
Navigator North	Origin Energy & RES	Offshore Wind	Received feasibility licence. 1.5 GW project with an area of 700 km ² , 34 km off the coast	Details unknown	Proposed	Tier 3
Navigator North Offshore Wind Farm – Early Marine Survey Investigations	Origin Energy & RES	Offshore Wind		Phase 1 – initial geophysical and geotechnical survey scheduled to begin from Q3-2025 onwards. Geophysical survey: duration up to 12 weeks; Geotechnical survey: duration up to 12 weeks. FLiDAR is also planned to be installed during this phase from Q3-2025 for a period of up to two years. Phase 2 – scheduled from Q3-2026. Geophysical survey: duration approximately up to 16 weeks; Geotechnical survey: duration approximately up to 16 weeks.	Seeking approval	Tier 2
BMG Closure Project, Phase 2	Cooper Energy Limited	Oil & Gas	Two phase campaign. Phase one = plug and abandon 3x fields (Basker, Manta, Gummy - 7 wells) by end 2023. Phase two = full equipment removal by end 2026. EP under assessment since submitted in June 2022 - approved in Feb 2024	Commence 2024 - duration of 50 days (planning end 2026, all decommissioning activities (e.g. monitoring) to be completed by end 2027).	Approved	Tier 1
Gelliondale wind farm	Synergy Wind Pty Ltd	Onshore Wind	80 MW wind farm, 13 turbines in Gelliondale, west Gippsland Planning application submitted to the Vic gov in August 2023 - still in the approval process, no decision made yet	Unknown	Seeking approval	Tier 2
Minerva Field Decommissioning Program	Woodside	Oil & Gas	Plug and abandonment activities, approximately 11 km south-west of Port Campbell, Vic EP under assessment since submitted in June 2022 - Further to this, a Management Environmental Plan was published and is now under assessment with NOPSEMA	Q3 2023 to end Q2 2025.	Approved	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Otway Offshore Operations	Cooper Energy Limited	Oil & Gas	Operation and management activities (inspection, maintenance and repair) of the Otway offshore assets - located in water depths of 55 - 100 m deep. EP under assessment since submitted in July 2022 - accepted in Dec 2024	Indicative timing between Q4 2022 - Q4 2027.	Approved	Tier 1
(West Seahorse-3)	Carnarvon Hibiscus Pty Ltd	Oil & Gas	Non-production operations phase	-	Operational	Tier 1
Kut-Wut Brataualung	CIP	Offshore Wind	Received feasibility licence. Up to 2.2GW, 45km off the coast	Details unknown	Proposed	Tier 3
Bass Strait Development	Esso Australia resources Pty Ltd	Oil & gas	Operation of a facility; Operation of a petroleum pipeline; recovery of petroleum using a subsea installation	currently operational. Start decommissioning 2021	Operational	Tier 1
Cape Hardy Deep Sea Port	Iron Road Limited	Port	Port development, road corridor and working village to service an iron ore mine near Wuddina on the Eyre Peninsula	Construction to commence (no later) 3rd May 2027, completion of works (no later) 3 May 2028. (extension received)	Approved	Tier 1
Kent Offshore Wind	RWE	Offshore Wind	Received feasibility licence. 2GW project with an area of 412 km ²	Details unknown	Proposed	Tier 3
CarbonNet	CarbonNet	Carbon capture and storage	Sequestration of carbon under the seabed, exploration area directly under SOTS. Not actively pursuing area under SOTS. Pelican reservoir	Planned FID 2024; operation late 2020's	Proposed	Tier 3
Decommissioning of Bass Strait assets	Esso Australia resources Pty Ltd	Oil & Gas	Plug and abandon 260 of 400 wells by 2026 (underway). Heavy lift campaign to remove further infrastructure from 2027	Underway since 2020	Under construction	Tier 1
Decommissioning Campaign #1 - Onshore Reception Centre early works	Esso Australia resources Pty Ltd	Oil & Gas	The full decommissioning of offshore oil and gas assets in Gipplsand. This will include onshore work at Barry beach marine terminal, ranging from site preparation to onshore dismantling of components.	13 months to complete, with construction planned to commence in January 2026	Seeking approval	Tier 2
Delburn wind farm	OSMI Australia	Onshore Wind	Onshore wind farm, 33 turbines, Strezlecki ranges, to the south of Latrobe Valley. Was challenged by community but ultimately has been approved	Construction expected to commence in 2024. Full power in 2026	Approved	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Eastern Rise	Blue Float Energy + Origin Energy	Offshore Wind	Referred project, waiting on FLA results before continuing approvals work and site studies. Pending FLA - assumed did not received one	Proposed approvals to start 2024, construction to begin in 2029 with full power by 2031	Seeking approval	Tier 3
Leeuwin Offshore Wind Farm	Copenhagen Energy	Offshore Wind	3 GW fixed bottom project	Details unknown	Seeking approval	Tier 2
Gippsland Offshore Operations	Cooper Energy Limited	Oil & Gas	Operation of a petroleum pipeline; Any other petroleum-related activity	-	Operational	Tier 1
Gippsland Regional Port Project	Qube Energy Pty Ltd	Port	Development of a regional port; construction/reconstruction of other port facilities. Includes dredging	Proposed start Oct 2022; proposed end Apr 2024	Proposed	Tier 3
Golden Beach-2 Gas Project	GB Energy	Oil & Gas	Offshore drilling and gas extraction; construction and operation of subsea infrastructure, pipeline, inland gas processing facility; conversion of gas field to gas storage facility	Drilling of an appraisal well completed (winter 2023) Two - four years extraction; 40 year design life (inc. gas storage).	Approved	Tier 1
Hazelwood Battery Energy Storage System (BESS)	ENGIE	Battery	150 MW/150MWh BESS at Hazelwood power station. 20 year expected lifespan	Commisioning completed in 2022 and now fully operational	Operational	Tier 1
Hazelwood Rehabilitation Project	ENGIE	Mine	Mine pit rehabilitation including lake filling to +45m AHD. Located immediately south of Morwell	EES Consultation plan released. EES process to conclude in 2024	Seeking approval	Tier 2
Midwest Offshore Wind Farm	Copenhagen Energy	Offshore Wind	3 GW fixed bottom project	Details unknown	Seeking approval	Tier 2
Samphire Offshore Wind Farm	Copenhagen Energy	Offshore Wind	3 GW fixed bottom project	Details unknown	Seeking approval	Tier 2
Cape winds Offshore Windfarm	Australis Energy & Skyborn Renewables (JV)	Offshore Wind	Construction, operation and decommissioning of an offshore windfarm and associated infrastructure. 25km west of Portland	Proposed construction start 2024. Operation 2026 for min. 30 years	Seeking approval	Tier 3
Longford Gas Conditioning plant	Esso Australia resources Pty Ltd	Oil & Gas	Gas conditioning plant to process natural gas from Bass Strait	-	Operational	Tier 1
Longtom Gas	SGH Energy VICP54 Pty Ltd	Oil & Gas	Operation of a petroleum pipeline (gas); construction and installation of a facility	-	Operational	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Loy Yang Battery Energy Storage System	AGL	Battery	200MW, two-hour grid-scale battery at Loy Yang power station.	Targeting FID in 2026	Approved	Tier 1
Marinus Link	Marinus Link Pty Ltd (TasNetworks)	Transmission	Undersea and underground electricity connection connecting Gippsland to Tasmania	Construction proposed start early 2025; proposed end Dec 2071	Seeking approval	Tier 1
Bass Offshore Wind Energy project	Nexsphere	Offshore Wind	1 GW offshore wind farm located 30 km off north-eastern Tasmania, feasibility application underway	Timing no longer provided	Proposed	Tier 3
Gippsland Offshore Wind Transmission 2GW Project	VicGrid	Transmission	Proposed 2GW transmission line from the latrobe valley connecting to a shared terminal station (being named a connection hub) in Giffard. Area of investigation has been identified and follows SOTS's previously proposed route - next steps is further consultation before announcing a connection hub location along with a refined route for environmental investigations	Minimum 2GW capacity by 2032 and up to 9GW capacity by 2040	Seeking approval	Tier 2
Patricia-Baleen Gas Plant (Longtom) Upgrade	Santos Ltd	Oil & Gas	Additional plant to be constructed within the existing gas plant area	-	Completed	Tier 1
Robbins Island & Jim's Plain Wind	ACEN Australia	Onshore Wind	Wind farm to generate up to 900MW of energy on Robbins Island (and Jim's Plain) Continuously stuck in courts due to environmental concerns - still no approval from the commonwealth Distant - Tasmania	Construction expected to commence in 2023 - delayed due to approvals issues	Seeking approval	Tier 2
Seaspray Solar Farm	BNRG Leeson	Solar farm	4.95MW DC Solar Power Farm in Stradbroke Victoria	Construction mid 2025	Seeking approval	Tier 2
South East Australia Carbon Capture and Storage Project (SEA CCS Project)	Esso Australia resources Pty Ltd	Carbon capture and storage	A facility to compress, dehydrate, transport and store carbon dioxide (CO2) in the depleted Bream oil and gas reservoir. New pipeline on land between Longford and Dutson Downs Lodged in 2023, suspended in June 2024 for 30 days - still no updates	Targeting 2025	Seeking approval	Tier 2

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Project	Proponent	Type	Brief description	Timing	Status	Tier
South Victorian Offshore Petroleum Exploration	BHP Petroleum Pty Ltd	Oil & Gas	Drilling of two exploration wells Ref no: 2001/286	-	Operational	Tier 1
Turrum Phase 2 Development Project	Esso Australia resources Pty Ltd	Oil & Gas	Drilling of six wells; Installation of a new platform; Installation of seperation, gas processing and water-handling facilities Ref no: 2008/4191	-	Operational	Tier 1
Jack-Up Turrum Phase 3 Drilling	Esso Australia resources Pty Ltd	Oil & Gas	manage the environmental impacts and risks associated with jack-up rig (JUR) Turrum Phase 3 Drilling activities, to be completed by a JUR within the Petroleum Safety Zone (PSZ) at the Marlin B Platform in the Gippsland Basin.	Q3 2025	Seeking approval	Tier 3
Viva Energy Gas Terminal Project	Viva Energy	Oil & Gas	Operation of a gas terminal using a Floating Storage and Regasification Unit (FSRU) and associated infrastructure Delays due to requests for further details on EES from minister	Proposed construction start 2023; operation 2024 for 20 years Delays due to EES process. No updated timelines	Seeking approval	Tier 2
Otway Exploration Drilling Program	ConocoPhillips Australia	Oil & Gas	Located to the South-West of the state in the Otway Basin. Exploration activites - drilling up to 9 locations	Scheduled to commence no earlier than 1st of April 2024 and will be completed no later than 31st of December 2028	Approved	Tier 1
Regia MSS (marine seismic survey)	CGG Services Australia	Oil & Gas	Located to the South-West of the state in the Otway Basin. Exploration activites - seismic surveys	Any month except January, February, and March. Exact timing unknown	Seeking approval	Tier 2
Offshore Gas Victoria Geophysical and Geotechnical Seabed Survey	Beach Energy (Operations) Limited	Oil & Gas	geophysical and geotechnical seabed surveys within the Otway and Bass Basins in Commonwealth waters	Seabed surveys will be carried out no earlier than the 1st February 2024 and no later than the 31st December 2028	Operational	Tier 1
Otway Offshore Gas Victoria Project	Beach Energy (Operations) Limited	Oil & Gas	Up to 6 new wells may be drilled and completed (if successful) The proposed scope of the Project consists of: Seabed surveys (geotechnical and geophysical) Exploration, appraisal and development	Initial drilling to commence in 2025 - installation of subsea facilities in 2026. Successful wells have operational lives of up to 30 years	Seeking approval	Tier 2

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Project	Proponent	Type	Brief description	Timing	Status	Tier
			drilling Completion of successful wells Subsea infrastructure installation Commissioning Operations and maintenance Future tiebacks Decommissioning			
Decommissioning of the Minerva Pipeline in Victorian state waters	Woodside	Oil & Gas	Subsea decommissioning activities for the Minerva field. Removal of the Minerva pipeline bundle and stabilisation materials in Victorian State Waters. Activities include use of a DP vessel and the use of hydraulic shears for cutting the pipeline while decommissioning activities are undertaken	October 2024 to March 2025	Approved	Tier 1
Minerva Decommissioning and Field Management	Woodside	Oil & Gas	Activities covered by the Minerva Decommissioning and Field Management Environment Plan include: • Ongoing field management activities (inspection and monitoring) for the Minerva subsea and well infrastructure until final decommissioning. • Removal of the Minerva gas pipeline bundle in Commonwealth waters. The pipeline comprises of approximately 4.9 km of 10-inch concrete coated rigid-steel flowline, banded with an electro hydraulic umbilical and two 2-inch steel chemical injection lines and stabilisation materials. • Removal of Minerva subsea infrastructure within VIC-L22 in Commonwealth Waters comprising of five inline pipeline structures, five tie-in spools, and associated equipment and stabilisation material.	Planned to commence as early as Q4 2024 and require approximately three to five months, subject to vessel availability and weather constraints.	Approved	Tier 1
Jack-Up Rig Kipper Stage 1B Drilling	Esso Australia resources Pty Ltd	Oil & Gas	Drilling of a new well at the Kipper well. Activities include JUR positioning, drilling, completion installations, subsea tree installation, flying lead installation, support vessels activities, remotely operated vehicle (ROV) activities and use of helicopters.	Expected to be in 2025 with potential for some remedial work to occur in 2026 or early 2027	Approved	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Gippsland Basin Geophysical and Geotechnical Investigations	Esso Australia resources Pty Ltd	Oil & Gas	Esso plans to continue to undertake Geophysical and Geotechnical investigations within existing production licence and retention lease areas. The investigations will consist of a number of individual campaigns to inform a number of prospective future activities in the Gippsland basin. These include: - development of new and existing gas fields - development around existing facilities - plug and abandonment - decommissioning; and - drilling.	Surveys will be carried out during the life of the EP 5 years from the date of accepted EP	Seeking approval	Tier 2
Jack-Up Rig Plug and Abandonment	Esso Australia resources Pty Ltd	Oil & Gas	Esso has developed this Environment Plan (EP) to manage the environmental impacts and risks associated with Plug & Abandonment of the 21 platform wells and five subsea wells, to be completed by a Jack up rig at 12 locations in the Gippsland basin	Starting in the fourth quarter of 2024 with the expected completion at the start of 2026.	Approved	Tier 1
West Seahorse Oil Development	Carnarvon Hibiscus Pty Ltd	Oil & Gas	Drilling two production wells; Installation and commissioning of associated infrastructure Ref no: 2013/6973	-	Operational	Tier 1
SMAP telecommunications submarine cable installation	SUBCO SOUTH PTY LTD	Telecommunications	Build the Sydney, Melbourne, Adelaide and Perth (SMAP) telecommunications submarine cable network, providing international connectivity to Australia. The purpose of this cable project is to provide the first fully armoured long-haul cable system in Australia.	Cable installation is scheduled to begin in March 2025 and be completed by March 2026.	Approved	Tier 1
Tasmanian gas pipeline	Owned by Palisade Investment Partners (PIP) and operated by the Zinfra Group	Oil & Gas	a transmission pipeline operating and transporting gas from southern Victoria to northern Tasmania. 740 km in length, including approximately 300km of sub-sea pipeline. It has a forward haul capacity of 129 TJ/day and a back haul capacity of 129 TJ/day. The TGP consists of a mainline that links Longford in Victoria with Bell Bay, Rosevale and Springfield near Launceston, and Bridgewater near Hobart in Tasmania	Operational	Operational	Tier 1

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Project	Proponent	Type	Brief description	Timing	Status	Tier
Offshore Gas Victoria Drilling and P&A Activities	Beach Energy (Operations) Limited	Oil & Gas	<p>Drilling and Plug-and-Abandon (P&A) Activities include:</p> <p>Drilling of up to five wells in Otway, consisting of:</p> <ul style="list-style-type: none"> o One exploration well in exploration licence VIC/P43 o One appraisal well in exploration licence production licence VIC/L35 (formerly part of VIC/P43) o One exploration or appraisal well in production licence VIC/L36 (formerly part of VIC/P73) o Up to two exploration wells in exploration licence T/30P. • Plugging, abandonment and removal of well infrastructure above the mudline for five legacy suspended subsea exploration wells: <ul style="list-style-type: none"> o Thylacine 1 in T/L2 o Geographe 1 in VIC/L23 o Trefoil 1 in T/L5 o Yolla 1 in T/L1 o White Ibis 1 in T/RL4 	To be undertaken within the period of 1 January 2025 to the 31 December 2028.	Approved	Tier 1
2025 Victorian Renewable Energy Terminal	Port of Hastings Corporation	Port	<p>PoHC proposes to develop and operate additional infrastructure within the existing port to serve as a laydown and assembly area for the development of Offshore Wind (OSW) along the coast of Victoria, to support meeting State and Commonwealth renewable energy generation targets. The Project would include onshore development, land reclamation, construction of a quay wall and apron and dredging. The Project would consist primarily of heavy-duty pavements or concrete decking on existing and reclaimed land and supported by piles. The Project would allow for storage of cargo and associated handling equipment for the pre-assembly of OSW components.</p>	50 year design life	Seeking approval	Tier 2

