

ESSO FACILITIES

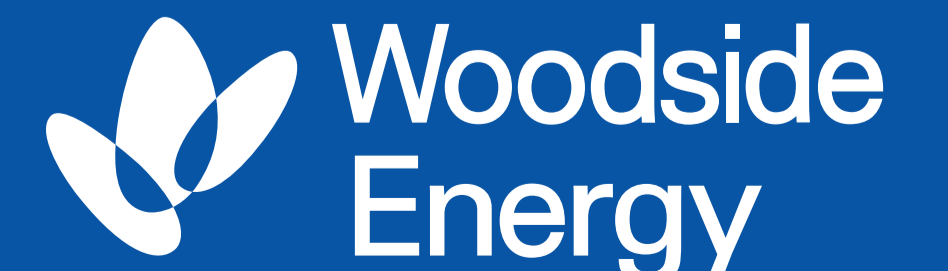
- - - - - PRIMARY PIPELINE (OIL)
- PRIMARY PIPELINE (GAS)
- SECONDARY PIPELINE
- PLATFORM
- SUBSEA FACILITY
- ▲ VALVE SITE

- LOCALITY
- STATE WATERS
- COMMONWEALTH WATERS
- BATHYMETRY (WATER DEPTH)

NOTE: Some changes made to improve visibility of pipelines. Facility icons do not indicate facility size.



Bass Strait pipeline network



Bass Strait pipeline network

Esso's offshore oil and gas pipeline network consists of:

- 34 primary pipelines (~650 kilometres total length)
- 11 secondary pipelines (~190 kilometres total length) including 3 secondary pipelines (CBA2/100-MKA (North and South) and MKA25-CBA2) previously cut and flushed as part of pipeline replacement/repair activities.
- 5 subsea isolation valve control umbilicals (~0.5 kilometres total length excluding platform risers)
- 8 electrical and/or hydraulic umbilicals (~105 kilometres total length)
- 22 flexible pipe jumpers (~2 kilometres total length)
- 2 sections of primary pipeline (FLA250-TNA, MKA300-HLA) previously cut and flushed as part of pipeline replacement/repair activities (~10 kilometres total length)
- 2 unused subsea vent gas lines (~0.5 kilometres total length)
- various ancillary subsea property.

Specifically, the ancillary subsea property includes:

- anode sleds installed along KFB500-HLA, HLA600-Shore and MLA500-Shore, and a small anode skid near Cobia 2
- repair clamps on CBA300-HLA, MKA300-HLA and FLA250-TNA
- tee tie-in assemblies with valves and flanges, including the:
 - tee for MLA300-HLA600Tee tie-in including protection frame and grout bags
 - tee for MLA100-HLA/MKA, including three manual valves, where branch to Halibut connects
 - tee for the BTW300-BTA450Tee tie-in
 - side valve assemblies in CBA300-HLA and FTA300-HLA including protection frames
 - flanged piggable wyes in MLA150-KFB/KFA/WKF and Y-shaped tees near Dolphin to connect the platform to PCA/DPA300-Shore and Shore-PCA/DPA100

- subsea isolation valve in lifting/protection frames in: BMA350-Shore tie-in spools near Bream A; MLB450-SNA near Snapper; and MLA150-KFB/KFA/WKF tie-in spools at Marlin A, Kingfish B, Kingfish A and West Kingfish
- flanged tie-in spools, some with crossing supports or stabilization mattresses in MKA300-HLA, BMA350-Shore, BMB250-BMA, MLA100-HLA/MKA, MLA150-KFB/KFA/WKF, WTN250-TNA, TNA100-WTN, KPA350-WTN (North), KPA350-WTN (South), WTN450-MLB and MLB450-SNA
- nearshore tie-in spool in BMA350-Shore
- umbilical termination assemblies at well ends of the electrical/hydraulic umbilicals at Seahorse, Tarwhine, Blackback and West Barracouta

- Blackback A1a temporary guide base (below seabed level) and the Seahorse and Tarwhine well base plates (installed below seabed)
- pipeline end manifold at platform end of Blackback pipelines (all ~400 metres deep)
- West Barracouta pipeline end termination and BTA450-Shore tie-in assembly
- tow sleds at platform ends of CBA300-HLA, HLA100-CBA, FTA300-HLA, HLA100-FTA and WKF300-KFA pipelines
- pipeline pull-in assembly at Bream A end of BMA400-WKF
- pipeline crossings with concrete sleeper or mattress supports and stabilisation
- miscellaneous clamps around pipelines (for connecting anode sled cables or for bottom tow buoyancy tank attachment)
- pipeline freespans, some with grout bag supports, mostly in South East Reef or nearshore reef areas or in BMA350-Shore and KPA350-WTN (North and South) lines sandwave areas
- concrete blocks or concrete block mattresses or grout mattresses for added stabilisation on some pipelines.

PRIMARY PIPELINES

Primary pipelines are licenced pipelines that carry petroleum products. Esso's network uses 34 primary pipelines (including seven shore crossings) for the transport of a variety of oil and gas products.

BTW300-BTA450Tee	KFA400-KFB	KFB500-HLA	MKA300-HLA	TNA300-MLA	TNA200-MLA	MLA300-HLA600Tee	WKF300-KFA	CBA300-HLA
License: VIC/PL1 Type: Primary From: Flexible export pipeline To: West Barracouta subsea facility Length: ~5.6 kilometres Diameter: 300 millimetres Product: Gas Installed: 2021 Installed by: Reel lay Coatings: N/A	License: VIC/PL6 Type: Primary From: Kingfish A platform To: Kingfish B platform Length: ~4.6 kilometres Diameter: 400 millimetres Product: Oil Installed: 1971 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL7 Type: Primary From: Kingfish B platform To: Halibut platform Length: ~27.0 kilometres Diameter: 500 millimetres Product: Oil Installed: 1969 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL8 Type: Primary From: Mackerel platform To: Halibut platform Length: ~8.6 kilometres* Diameter: 300 millimetres Product: Oil Installed: 1978 Installed by: S-lay/Bottom tow Coatings: CTE + CWC/FBE + CWC/ Yellowjacket + CWC <small>*Includes a ~4-kilometre replacement section joined by a flexible jumper</small>	License: VIC/PL9 Type: Primary From: Rigid export pipeline To: Marlin A platform Length: ~18.7 kilometres Diameter: 300 millimetres Product: Oil Installed: 1979 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL10 Type: Primary From: Rigid export pipeline To: Marlin A platform Length: ~18.7 kilometres Diameter: 300 millimetres Product: Oil Installed: 1975 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL11 Type: Primary From: Rigid export pipeline To: Marlin A platform Length: ~18.7 kilometres Diameter: 300 millimetres Product: Oil Installed: 1975 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL14 Type: Primary From: Rigid export pipeline To: West Kingfish platform Length: ~3.5 kilometres Diameter: 300 millimetres Product: Oil Installed: 1982 Installed by: Bottom tow Coatings: FBPE + CWC	License: VIC/PL15 Type: Primary From: Rigid export pipeline To: Cobia platform Length: ~5.5 kilometres Diameter: 300 millimetres Product: Inhibited seawater (formerly oil) Installed: 1983 Installed by: Bottom tow Coatings: FBPE + CWC
CBA150-HLA	FTA300-HLA	FLA250-TNA (West)	FLA250-TNA (East)	SNA250-MLA	BMA400-WKF	SHA150-BTA	TWA200-BTA	WTA250-SNA
License: VIC/PL15 Type: Primary From: Flexible export pipeline To: Halibut platform Length: ~5.3 kilometres Diameter: 150 millimetres Product: Oil Installed: 2018 Installed by: Reel lay Coatings: N/A <small>*Replaced section of CBA300-HLA</small>	License: VIC/PL16 Type: Primary From: Rigid export pipeline To: Fortescue platform Length: ~17.0 kilometres Diameter: 300 millimetres Product: Oil Installed: 1983 Installed by: Bottom tow Coatings: FBPE + CWC	License: VIC/PL17 Type: Primary From: Rigid export pipeline To: Tuna platform Length: ~17.0 kilometres* Diameter: 250 millimetres Product: Gas (previously oil) Installed: 1984 Installed by: S-lay/Bottom tow Coatings: CTE + CWC/FBE + CWC <small>*Includes two ~3.5-kilometre replacement sections joined by flexible jumpers</small>	License: VIC/PL18 Type: Primary From: Rigid export pipeline To: Tuna platform Length: ~17.0 kilometres Diameter: 250 millimetres Product: Oil (previously gas) Installed: 1984 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL19 Type: Primary From: Rigid export pipeline To: Marlin A platform Length: ~18.0 kilometres Diameter: 250 millimetres Product: Oil Installed: 1985 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL20 Type: Primary From: Rigid export pipeline To: West Kingfish platform Length: ~11.3 kilometres Diameter: 400 millimetres Product: Oil Installed: 1988 Installed by: Bottom tow + S-lay Coatings: FBPE + CWC	License: VIC/PL22 Type: Primary From: Rigid export pipeline To: Snapper subsea facility Length: ~17.3 kilometres Diameter: 200 millimetres Product: Inhibited seawater (formerly oil) Installed: 1989 Installed by: Reel lay Coatings: FBE	License: VIC/PL23 Type: Primary From: Rigid export pipeline To: Seahorse subsea facility Length: ~17.3 kilometres Diameter: 200 millimetres Product: Inhibited seawater (formerly oil) Installed: 1989 Installed by: Reel lay Coatings: FBE	License: VIC/PL24 Type: Primary From: Rigid export pipeline To: Whiting platform Length: ~14.6 kilometres Diameter: 250 millimetres Product: Inhibited seawater (formerly oil) Installed: 1989 Installed by: Reel lay Coatings: FBE
WTA200-SNA	BMB250-BMA	TNA100-WTN	WTN250-TNA	BKA200-MKA	KPA350-WTN (North)	KPA350-WTN (South)	WTN450-MLB	MLB450-SNA
License: VIC/PL25 Type: Primary From: Rigid export pipeline To: Whiting platform Length: ~14.6 kilometres Diameter: 200 millimetres Product: Inhibited seawater (formerly gas) Installed: 1989 Installed by: Reel lay Coatings: FBE	License: VIC/PL26 Type: Primary From: Rigid export pipeline To: Bream B platform Length: ~2.6 kilometres Diameter: 250 millimetres Product: Gas Installed: 1996 Installed by: Bottom tow Coatings: FBPE + CWC	License: VIC/PL27 Type: Primary From: Rigid export pipeline To: Tuna platform Length: ~18.0 kilometres Diameter: 100 millimetres Product: Gas Installed: 1996 Installed by: Bottom tow Coatings: FBE	License: VIC/PL28 Type: Primary From: Rigid export pipeline To: West Tuna platform Length: ~3.6 kilometres Diameter: 250 millimetres Product: Oil Installed: 1996 Installed by: Bottom tow Coatings: FBPE + CWC	License: VIC/PL29 Type: Primary From: Rigid export pipeline To: Blackback subsea facility Length: ~2.5 kilometres Diameter: 200 millimetres Product: Inhibited seawater (formerly oil) Installed: 1999 Installed by: S-lay Coatings: 3LPE	License: VIC/PL39 Type: Primary From: Rigid export pipeline To: Kipper platform Length: ~32.0 kilometres Diameter: 350 millimetres Product: Gas Installed: 2011 Installed by: S-lay Coatings: FBPE + CWC	License: VIC/PL39 Type: Primary From: Rigid export pipeline To: West Tuna platform Length: ~18.1 kilometres Diameter: 350 millimetres Product: Gas Installed: 2011 Installed by: S-lay Coatings: FBPE + CWC	License: VIC/PL40 Type: Primary From: Rigid export pipeline To: West Tuna platform Length: ~18.1 kilometres Diameter: 450 millimetres Product: Gas Installed: 2011 Installed by: S-lay Coatings: FBPE + CWC	License: VIC/PL41 Type: Primary From: Rigid export pipeline To: Marlin B platform Length: ~14.6 kilometres Diameter: 450 millimetres Product: Gas Installed: 2011 Installed by: S-lay Coatings: FBPE + CWC
BTA450-Shore	MLA500-Shore	BTA150-Shore	HLA600-Shore	SNA600-Shore	PCA/DPA300-Shore	BMA350-Shore		
License: VIC/PL1 (Cwith) VIC/PL1(V) (State) Type: Primary From: Rigid export pipeline To: Barracouta platform Length: ~24.5 kilometres (total) ~18.95 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 450 millimetres Product: Gas Installed: 1969 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL2 (Cwith) VIC/PL2(V) (State) Type: Primary From: Rigid export pipeline To: Marlin A platform Length: ~52.6 kilometres (total) ~47.85 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 500 millimetres Product: Gas Installed: 1968 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL4 (Cwith) VIC/PL4(V) (State) Type: Primary From: Rigid export pipeline To: Barracouta platform Length: ~24.5 kilometres (total) ~18.95 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 150 millimetres Product: Oil Installed: 1969 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL5 (Cwith) VIC/PL5(V) (State) Type: Primary From: Rigid export pipeline To: Halibut platform Length: ~77.0 kilometres (total) ~71.45 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 600 millimetres Product: Oil Installed: 1969 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL13 (Cwith) VIC/PL13(V) (State) Type: Primary From: Rigid export pipeline To: Snapper platform Length: ~37.0 kilometres (total) ~31.45 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 600 millimetres Product: Gas Installed: 1990 Installed by: S-lay Coatings: CTE + CWC	License: VIC/PL21 (Cwith) VIC/PL21(V) (State) Type: Primary From: Rigid export pipeline To: Bream and Dolphin platforms Length: ~32.0 kilometres (total) ~26.4 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 300 millimetres Product: Oil Installed: 1989 Installed by: Reel lay Coatings: FBE	License: VIC/PL32 (Cwith) VIC/PL32(V) (State) Type: Primary From: Rigid export pipeline To: Bream A platform Length: ~46.9 kilometres (total) ~41.35 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 300 millimetres Product: Gas Installed: 1999 Installed by: S-lay Coatings: FBPE + CWC		
CBA2/100-MKA (South)	Shore-PCA/DPA100							
From: Cobia 2 subsea facility To: Mackerel platform Length: ~4.5 kilometres Diameter: 100 millimetres Product: Inhibited seawater (formerly oil) Installed: 1979 Installed by: Reel lay Coatings: Yellowjacket	Type: Secondary From: Gas lift To: Shore Length: ~32.0 kilometres (total) ~26.45 kilometres (Cwith) ~5.55 kilometres (State) Diameter: 100 millimetres Product: Gas lift Installed: 1989 Installed by: Reel lay Coatings: FBE							

CTE = Coal Tar Enamel; CWC = Concrete Weight Coating; FBE = Fusion Bonded Epoxy; FBPE = Fusion Bonded Polyethylene; PE = Polyethylene; 3LPE = Three-Layer Polyethylene; Yellowjacket = adhesive + PE

