# RISKY BUSINESS: Stop Woodside's Burrup Hub

(Cover Image) Woodside Energy's North West Shelf gas project on the Burrup Peninsula © Greenpeace.

Landscape and Marine Life off Western Australia from above © Alex Westover

#### Acknowledgements

Greenpeace Australia Pacific Limited acknowledges the Traditional Owners of Country throughout Australia and the Indigenous peoples of the Pacific Islands, and recognises their continuing connection to land, waters, and culture. We pay our respects to their Elders past and present.

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Published October 2024 by Greenpeace Australia Pacific. For more information contact <u>media.au@greenpeace.org</u>. Woodside's Burrup Hub gas project is the nation's biggest fossil fuel threat. If approved, it will jeopardise 32 vulnerable species, spew out 6.1 billion tonnes of CO<sub>2</sub> and generate 13 times Australia's annual emissions. Environment **Minister Tanya Plibersek** has the power to stop this dangerous project from going ahead and define Labor's legacy on nature.

Woodside dredging in endangered sea turtle habitat near the Dampier Archipelago © Alex Westover

### SUMMARY Shut down The burrup Hub

Woodside's Burrup Hub is Australia's largest proposed fossil fuel project, posing an unparalleled threat to our oceans, wildlife, and climate. Woodside, an oil and gas company renowned for its flimsy environmental and safety record, plans to extract gas from six fields off the coast of Western Australia. The project would involve a 900km pipeline through protected environmental areas, and extend the life of existing gas plants until 2070, undermining our clean energy targets.

#### A disaster in the making

**Carbon costs** Greenpeace's analysis has revealed that Woodside's Burrup Hub is Australia's biggest climate threat, with the project belching out 6.1 billion tonnes of greenhouse gas emissions over its proposed 50-year lifetime.<sup>1</sup> The scale of this is off the charts —lifetime emissions from the Burrup Hub would amount to more than 13 times Australia's annual emissions from all sources, and more than 73 times New Zealand's annual emissions.<sup>2</sup> The increase in greenhouse gases will worsen global heating, intensifying extreme weather events and rising sea levels. At a time when the International Energy Agency and the United Nations have called for developed countries to rapidly phase out fossil fuels to keep the world within 1.5 degrees of warming, the Burrup Hub is incompatible with Australia's commitment to climate action.

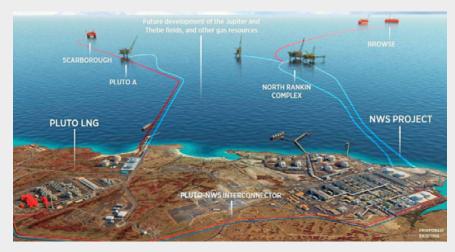
**Nature hazards** Drilling for up to 50 gas wells is planned just over 2km from pristine ecosystems such as Scott Reef, home to endangered species like the green sea turtle and pygmy blue whale. Heavy shipping and drilling activities jeopardise whale migration pathways, while gas flaring and lights disrupt turtle nesting. Subsidence is another major concern – where gas extracted from reservoirs causes the seafloor to sink and threatening Sandy Islet, a critical nesting site for sea turtles that could face ocean inundation. A disaster, such as an oil spill at a project site, could devastate marine ecosystems and coastlines

Woodside's Burrup North-west Shelf Plant in Western Australia © Luke Sweet / Conservation Council Western Australia as far as East Timor and Indonesia, causing lasting environmental damage. This comes after the WA Environmental Protection Authority effectively deemed Browse too risky to proceed.<sup>3</sup> In August 2024, a preliminary view from the environmental regulator suggested the proposal was "unacceptable" on nature grounds.

**Safety risks** Woodside has a worrying history of neglect, as the company is responsible for at least six major incidents in the last decade, including an explosion, an oil spill, and a whale calf collision. Woodside repeatedly fails to clean up its waste, leaving massive pieces of rusted, toxic infrastructure to rot in the ocean. Given this track record, why should we expect the Burrup Hub to be any different?

#### TANYA PLIBERSEK HAS THE POWER TO STOP THE BURRUB HUB-AND SO DO YOU. HERE'S HOW:

- **1. Support renewable energy** Advocate for solar, wind, and wave energy projects to reduce emissions and secure a sustainable future.
- 2. Speak up in caucus Stand up in caucus meetings and impart the importance of this issue to your constituents and advocate for the rejection of the Burrup Hub
- **3. Stand up and speak in Parliament** against Woodside's Burrup hub project. Give a speech and speak for your constituents.
- **4. Meet with Minister Plibersek** and impress on her how important this is to your electorate.



Woodside's Scarborough development plans © Woodside

### WHAT IS WOODSIDE'S Gas mega Project?

Woodside's Burrup Hub is Australia's dirtiest and most polluting fossil fuel proposal, dwarfing all similar projects in scale, environmental risk, and carbon costs. If approved, it will become the largest new fossil fuel project in the Southern Hemisphere.<sup>4</sup>

The Burrup Hub project comprises a plan to drill the Scarborough and Browse gas field and extend the life of a huge gas plant called the North West Shelf LNG Plant, which processes gas for export. In essence, this will add two new gas fields to WA's pristine coastline, exploiting reserves from six untapped fields and drilling up to 80 offshore wells. It's no surprise this project poses a major threat to wildlife and the World Heritage-listed Ningaloo Coast. Drilling is planned just 2km from ecologically sensitive areas, such as Scott Reef, which is home to endangered species such as the green sea turtle and pygmy blue whale. An incident at Browse could also pollute the waters of Argo-Rowley Terrace Marine Park, Mermaid Reef Marine Park, and Rowley Shoals Marine Park. At Scarborough, an accident could pollute Dampier Marine Park, Montebello Marine Park, Gascoyne Marine Park, and Carnarvon Canyon Marine Park.

Both Browse and Scarborough will feed into the controversial North West Shelf (NWS) gas export precinct, which includes facilities like the Karratha Gas Plant and several offshore platforms.<sup>5</sup> If approved, the Burrup Hub will prolong the lifespan of the rapidly deteriorating NWS until 2070. Extending the NWS will will fast track new gas production, locking Australia into production and export for the long haul. **Over 80% of the gas extracted from the Burrup Hub is for export purposes.** 

Aerial shot of turquoise ocean & white sand near Ningaloo Reef © Tiffany Klein If Tanya Plibersek approves the Burrup Hub, the projected emissions will be higher than all other proposed fossil fuel projects currently undergoing federal environmental approvals. It will be a monumental setback to Australia's commitment to limiting global warming to 1.5 degrees, undermining the world's progress towards phasing out fossil fuels.



Woodside's toxic, discarded oil tower near Ningaloo Reef and Exmouth Gulf, Western Australia © Greenpeace

Philippin

Mabalite

Manila

Dav

Tim

Brunei

Court China Sea

Samarinda

Indonesia

Makassar

Denpasar

WESTERN AUSTRALIA

Perth

Mapping of worst case oil spill scenarios in the Burrup Hub. © Greenpeace

### A SLIPPERY SLOPE WHAT GOULD GO WRONG?

#### 1. Seabed subsidence on Scott Reef

Seabed subsidence, caused by extracting gas from underground reservoirs, could jeopardise Scott Reef.<sup>10</sup> When gas is extracted, it leads to a drop in pressure in the reservoir under the earth, which can trigger the seafloor above to sink. As the Browse gas field is directly under Scott Reef, this sinking of the seafloor poses risks to the integrity of the reef and the animals who nest there. Even a small case of sinking from subsidence could mean crucial nesting grounds for endangered sea turtles are lost under the ocean. Seabed subsidence can disrupt marine habitats, increase seismic activity, and endanger the fragile ecosystem of Scott Reef and its inhabitants.

#### CASE STUDY: SCOTT REEF'S STRUGGLING SEA TURTLES

Sea turtles are one of the most vulnerable species in the path of the Burrup Hub. Seabed subsidence, combined with the aggressive glow of gas flares and lights from vessels and infrastructure, could drastically alter turtle nesting grounds. At the heart of Scott Reef's fragile ecosystem is Sandy Islet, a tiny sandbar barely two metres above sea level, which is an essential location for green sea turtles to nest. If Sandy Islet is washed away, their precious habitat and eggs could be lost at sea. This would jeopardise the populations' reproductive cycles, nesting and hatching success, and could lead to a dip in population.

#### 2. The risk of oil spills and at-sea accidents

Woodside's data reveals how close the Burrup Hub's infrastructure is to critical marine habitats and coral reefs.<sup>6</sup> A blowout at one of Woodside's gas wells could see Scott Reef and neighbouring Sandy Islet covered in oily pollution, which could impact the surrounding habitats of Rowley Shoals Marine Park, Adele Island, and even reach Indonesian waters. This wouldn't be the first time. In 2016, a 10,500-litre spill occurred at the Cossack field on the North West Shelf, leaking a bathtub's worth of oil into WA waters every day for two months.<sup>7</sup> A worst-case scenario well blowout, spill or vessel rupture at the Burrup Hub could pollute the waters of multiple protected marine parks.

#### CASE STUDY: THE WORST-CASE SCENARIO

Woodside's own modelling suggests the risk of a well blowout is credible. For example, a blowout at the Torosa reservoir could result in 142,154 cubic metres of toxic condensate leaking into the ocean over 77 days.<sup>8</sup>

A total of 33 species could be directly impacted if disaster strikes at a Burrup Hub site. Among these are protected birds, sharks, snakes, fish and turtles<sup>9</sup> including their threatened status listings:

#### Birds

Abbott's booby Australian fairy tern Australian lesser noddy Bar-tailed godwit Campbell albatross Curlew sandpiper Eastern curlew Great knot Greater sand plover Indian Ocean Red-tailed Tropicbird Lesser sand plover Red knot Southern giant petrel

#### Turtles

Green turtle Loggerhead turtle Hawksbill turtle Olive ridley turtle Flatback turtle Leatherback turtle

#### Snakes

Short-nosed sea snake	
Dusky sea snake	
Leaf-scaled sea snake	

#### Rays

- Green sawfish Largetooth sawfish
- Dwarf sawfish

#### Sharks

Grey nurse shark (west coast population) Great white shark Whale shark

#### Northern river shark

#### Whales

Blue Whale (including Pygmy Blue Whale) Sei whale Fin whale Southern right whale

Key:



Threatened species status as per the Environment Protection and Biodiversity Conservation Act 1999.

#### 3. Light pollution throws nesting and migration off course

Gas flares and lights from structures like oil rigs and ships disorient sea turtles and confuse the migratory patterns of birds and fish. Newly hatched sea turtles rely on natural light cues to navigate to the ocean, but artificial lights can lead them away from the water and diminish their chances of survival. Changes in light conditions also affect plankton distribution, disrupting food chains. Artificial illumination impacts coastal communities, dimming night skies and causing navigational challenges for maritime industries.

#### 4. Offshore drilling jeopardises marine ecosystems

Offshore drilling disrupts the ocean floor through sediment displacement and pollution from operations, such as releasing toxic chemicals in drilling muds. These pollutants can indirectly harm coral reefs and marine life, leading to long-term ecological damage.

Noise pollution from drilling interferes with the communication and hunting behaviours of whales and dolphins, disturbing their natural activities. Offshore drilling platforms also emit greenhouse gases and pollutants, degrading air quality and accelerating climate change – risking both marine life and human health.



Green sea turtle, near Sandy Islet on the West Hook of Scott Reef © Alex Westover

## WOODSIDE'S TROUBLING TRACK RECORD

Woodside's credentials are chequered by gas explosions, oil spills, infrastructure neglect and dubious environmental decisions. Given this history, can they be trusted with a mega-project like the Burrup Hub? Some of their recent blunders include:

Whale calf collision In August 2023, a tugboat operated by a Woodside contractor collided with a whale calf in the Port of Dampier. The incident was confirmed by the Department of Biodiversity, Conservation and Attractions (DBCA) only after media inquiries.

**Explosion at Pluto LNG plant** In May 2023, an explosion rocked the Pluto LNG plant forcing a shutdown. Despite prior warnings about flaring gas and dark smoke, Woodside was accused by unions of downplaying the incident.<sup>11</sup>

**Northern Endeavour clean-up debacle** Woodside wriggled out of responsibility for the abandoned Northern Endeavour oil platform in the Timor Sea by selling it to a one-person operation. The 274-metre rust-riddled platform was shut down in 2020 amid safety warnings, leaving the offshore oil and gas industry to shoulder the \$325-million decommissioning cost.<sup>12 13</sup>

**Cost-cutting maintenance** Despite warnings from offshore regulator NOPSEMA about corrosion, Woodside announced a 30% cut in operating costs over three years starting in 2021, focusing on maintenance costs. As a result, there were serious structural integrity issues at multiple Woodside facilities.<sup>14</sup>

Woodside Energy Group Ltd operated Pluto LNG Park © Lewis Burnett **Abandoned infrastructure** After halting oil extraction in the Enfield field in 2018, Woodside left behind the Nganhurra Riser Turret Mooring (RTM), an 83-metre-long, 2,452-tonne piece of infrastructure. Following an order from NOPSEMA to remove it, Woodside proposed to sink the toxic RTM near the World Heritage-listed Ningaloo Reef. It was finally removed in October 2023.<sup>15</sup>

**Oil spill in Cossack field** In 2016, a Woodside oil rig in the Cossack field leaked over 10,500 litres of oil into the ocean due to a degraded seal. Woodside claimed there was "no lasting impact to the environment"—a statement that was widely contested.<sup>16</sup>

Would you trust Woodside? We wouldn't.



The Northern Endeavour, which became the responsibility of the federal government after its former owner went into liquidation © Boiling Cold

### A TIMELINE OF NEGLECT WA Oil and Gas Blunders

From exploding pipelines to environmental carelessness, here's a rundown of incidents that have rocked WA's oil and gas industry, in which Woodside features heavily.



FEBRUARY 2020 –	NORTHERN ENDEAVOUR, TIMOR SEA
	Woodside sells its abandoned Northern Endeavour oil platform, leaving taxpayers to shoulder over \$1 billion of decommissioning costs
OCTOBER 2019 —	NINGALOO COAST
	Woodside's degraded Nganhurra Riser Turret Mooring (RTM) is found, triggering concerns about sinking highly toxic materials near Ningaloo Reef.
APRIL, 2016 —	COSSACK FIELD, TIMOR SEA
	An unnamed rig in Woodside Petroleum's Cossack Field leaks 10,500 litres of oil over a two-month period.
21 AUGUST 2009 —	TIMOR SEA
	PTTEP's West Atlas rig in the Montara oil field suffers a massive blowout, sparking an uncontrolled fire.
3 JUNE 2008 —	VARANUS ISLAND
	A ruptured gas pipeline at Apache Energy's facility causes an explosion, sparking an energy shortage in WA and costing the state's economy billions.



Fire at the West Atlas rig and Montara well head © PTTEP ERG Media

Gorgon LNG Plant on Barrow Island, WA © Lewis Burnett

## THE BURRUP HUB'S COST TO OUR PLANET

**It's a climate threat** The Burrup Hub project isn't just another development. Over its 50-year lifespan, it's projected to spew a staggering 6.1 billion tonnes of greenhouse gases into the atmosphere. This makes it Australia's most climate-polluting fossil fuel project by far, with the predicted emissions from Woodside's Burrup Hub higher than all other proposed fossil fuel projects currently undergoing federal environmental approvals.

**It blows our carbon budget** Beyond carbon dioxide, the project will unleash substantial methane emissions throughout its lifetime. Methane is a potent greenhouse gas, which is 84 times more impactful than carbon dioxide over a 20-year period. If approved, the Burrup Hub would produce gas until around 2070 — 20 years after global climate commitments to reach net zero by 2050.

**It doesn't benefit WA communities** Despite the Burrup Hub's massive carbon footprint, Western Australians aren't the ones profiting. Over 80% of its gas will be exported as LNG, largely to Asian markets such as Japan, China, South Korea and Taiwan. Ironically, Japan, our largest customer, may not even need our LNG, as demand has plummeted and is projected to continue falling. Japan profits by reselling our LNG while we shoulder the environmental burden.<sup>17</sup> The project overshadows the progress made by WA households to harness clean energy by installing solar panels on their roofs. Instead of embracing green exports as part of a sustainable future, this project will bind WA into prolonged gas dependency.<sup>18</sup>

**It will slow the switch to renewable energy** As nearly 90% of Australians support the renewable energy transition,<sup>19</sup> greenlighting new fossil fuel projects like the Burrup Hub is a backward step. Extending gas exports until 2070 delays the urgent transition to renewables that our planet desperately needs. Gas is a dangerous and polluting fossil fuel that is driving the climate crisis, and is a roadblock to a clean, green future.

### **FOR THE LOVE OF NATURE!** ACT NOW TO STOP THE BURRUP HUB

Woodside's Burrup Hub, Australia's largest proposed fossil fuel development, poses a monumental threat to our environment and climate. If approved, it will emit 6.1 billion tonnes of CO2 over its lifespan – 13 times Australia's annual emissions.

The project would undermine global climate action and endanger our magnificent oceans.

To stop this environmental disaster, we must urge our Environment Minister, Tanya Plibersek, to reject Woodside's plans. As the key decision-maker, it's now up to Tanya Plibersek to define the government's legacy on nature. Your support is crucial.

- **1. Support renewable energy** Advocate for solar, wind, and wave energy projects to reduce emissions and secure a sustainable future.
- 2. Speak up in caucus Stand up in caucus meetings and impart the importance of this issue to your constituents and advocate for the rejection of the Burrup Hub
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- **4. Meet with Minister Plibersek** and impress on her how important this is to your electorate.

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Clownfish near Scott Reef, Western Australia © Wendy Mitchell

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