# LIFE AND TIMES OF A WIND TURBINE **Cradle to the Grave**

# Australia's \$1 Billion Electricity Bill Foreign Owned Wind Farm Windfall

#### By MIA SCHLICHT

"The federal government's wind farm subsidies are enriching foreign corporates and leaving Australians worse off, all in an effort to prop up unreliable and inefficient renewable energy projects," said Mia Schlicht, Research Fellow at the Institute of Public Affairs. Today, the IPA released new research detailing how the federal government's

Large-scale Renewable Energy Target (LRET) guarantees a river of gold for predominantly foreign owned wind farms and how the cost is transferred to electricity consumers. The research found:

- In 2024, through the LRET subsidy scheme, a total of \$1.04 billion was paid by electricity consumers to the 50 largest wind farms operating in Australia.
- 35 of Australia's 50 largest wind farms, 70 per cent, are entirely

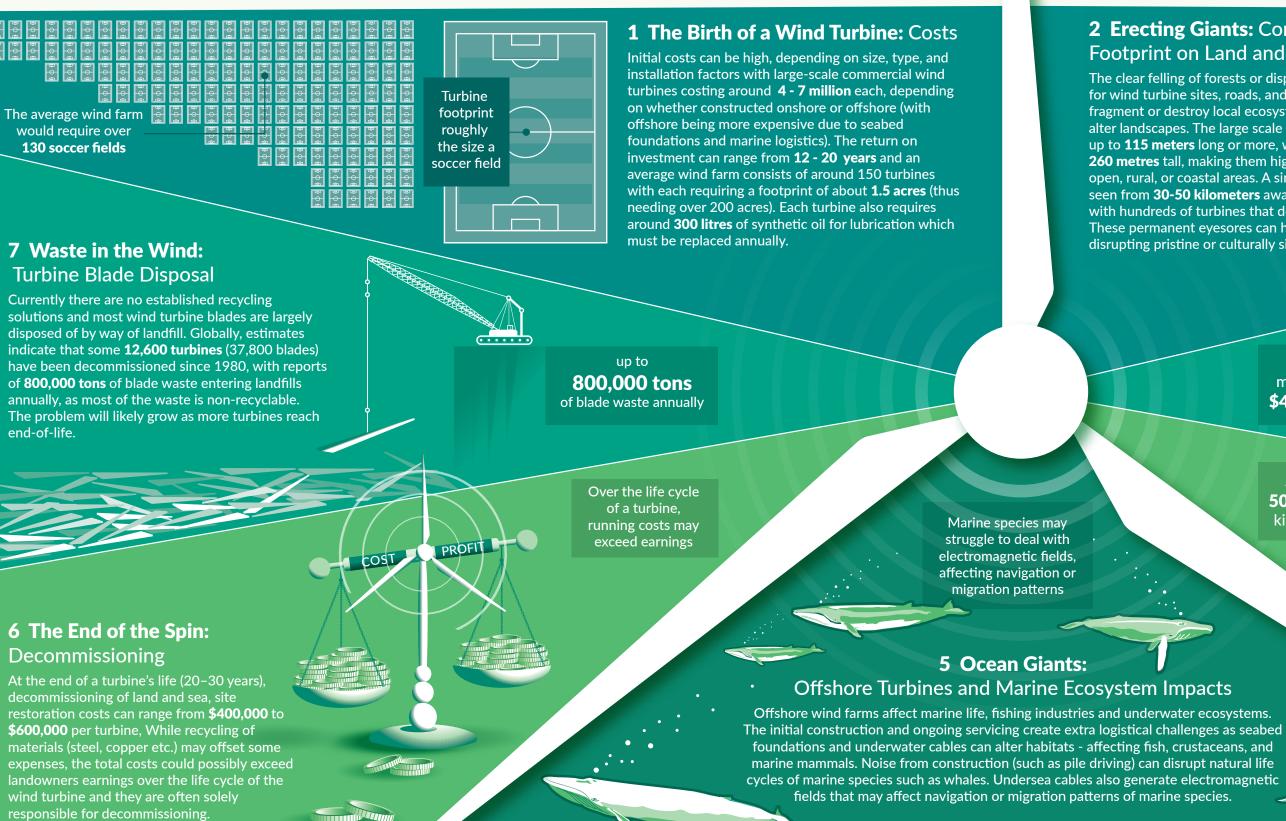
#### or partially foreign owned.

 Australian energy consumers were forced to pay \$689 million to foreign owned wind farms.

"In the middle of a cost-of-living crisis, the federal government is forcing Australian electricity consumers to hand over \$1 billion through hidden charges on their power bills to largely foreign owned companies, all in the name of net zero," said Ms Schlicht. "How can the Prime Minister, having broken

his promise to cut household power bills, justify sending over \$689 million to foreign companies when mainstream Australians cannot afford their power bills?" To meet economy wrecking emissions reduction targets, the federal government forces electricity retailers to purchase large-scale generation certificates from renewable energy producers. This artificially inflates the demand for renewables, with added costs

passed on to consumers. "Australia has previously benefited from some of the lowest consumer electricity prices in the industrialised world, but it now has some of the highest. Decades of poor decision making, based on flawed and misleading advice and ideology, is crushing the most productive sectors of our economy and household budgets," said Ms Schlicht. "We are consistently told that renewable energy is the cheapest form of



### **2 Erecting Giants:** Construction's Footprint on Land and Sea

generation, yet it simply cannot stand on its own two feet without outrageous levels of subsidies Australians pay through their taxes and their bills." Previous IPA research has shown that Total System Cost calculations make clear that an energy system led by variable renewable generation is by far the most expensive approach government could take. "The lowest cost power system is the baseload, coal-generation system Australia

already has. The next lowest cost system would be one built on new baseload power plants, whether they be coal or nuclear. It is time Australians were given the facts," said Ms Schlicht. "Australia must recognise that national security is not achievable without energy security. Building an energy system which is affordable and provides sustainably priced 24-7 baseload power is vital for our future success." "Forcing Australians

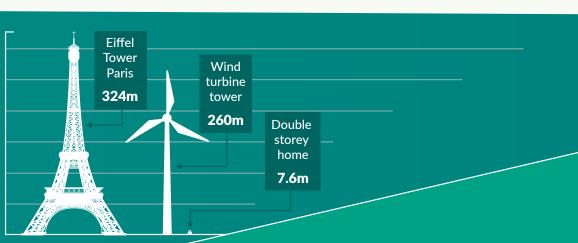
to line the pockets of foreign corporates demonstrates how out of touch the federal government is with mainstream Australia," said Ms Schlicht.

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Right: Western Australian fisherman says no to wind turbines. Photo by SCORPION MEDIA GROUP



The clear felling of forests or displacing agricultural land for wind turbine sites, roads, and infrastructure can fragment or destroy local ecosystems and significantly alter landscapes. The large scale turbine blades can span up to **115 meters** long or more, with towers reaching **260 metres** tall, making them highly visible, especially in open, rural, or coastal areas. A single turbine can be seen from **30-50 kilometers** away and large wind farms with hundreds of turbines that dominate entire skylines. These permanent eyesores can hurt tourism by disrupting pristine or culturally significant landscapes.



Turbine annual maintenance costs \$40,000 - \$100,000

As much as 500.000 birds killed annually

## **3 Whizzing Through Time:** The Operational Life of a Turbine

Operation and maintenance costs constitute a sizeable share of the total annual costs and a new turbine can easily make up **20-25 per** cent of the total levelised cost per kilowatt-hour produced over the turbine's average lifespan of 20 years. Costs range from estimates of \$40,000 -**\$60.000** annually for onshore turbines and up to **\$100,000** of offshore turbines. Maintenance includes blade repairs. gearbox replacements (every 5 - 10 years) and each gearbox of a wind turbine initially requires around **3000 litres** of synthetic oil with added annual consumption of **300 litres**.

### 4 Silent Hum: Inside the Kill Zone -Infrasound & Effects on Health & Wildlife

The constant low-frequency noise from turbines is a virtual kill zone within close proximity. This noise wrecks local ecosystems and negatively impacts livestock, wildlife, plant life and human health. The blades also kill wildlife directly, particularly birds and bats through collisions with blades or towers. Studies in the US estimate that wind turbines kill between **140,000** and **500,000** birds annually, with bats also significantly affected. Raptors, songbirds, and migratory species are particularly vulnerable and offshore turbines pose risks to marine birds with potential impact on migratory patterns of marine mammals.