Chevron

protecting the environment

we protect the environment through innovative and responsible operations

human energy®

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We are committed to pursuing innovations that improve our environmental performance and reduce the potential environmental impacts of our operations.

This commitment is built into the way we manage our operations. Our Operational Excellence Management System establishes standards and objectives that extend from the corporate level to local management, allowing our businesses to focus on the risks and potential environmental issues that affect specific operating locations.

innovating to reduce our environmental impact

Innovative technologies help us assess and manage our environmental performance. Here are some examples from across our company.

Leak imaging
Leak imaging provides real-time visuals to help find gas and liquid leaks that might otherwise go undetected. Hand-held, portable leak imagers, also called gas detection cameras, are used for proactive leak detection and regulatory compliance. Chevron is an industry leader in piloting new automated leak detection imagers that monitor around the clock. This technology enables earlier detection, more ground coverage and better source identification than traditional methods, improving Chevron's environmental performance.

Remote sensing
Remote sensing from satellites and aerial platforms provides crucial data to support effective oil spill responses. In 2018, we conducted an oil spill drill in the Gulf of Mexico that tested remote sensing approaches to evaluate their capabilities and enhance our ability to respond. Technologies tested included:

- Satellite radar and optical sensors
- A high-resolution real-time aerial imaging system
- An airborne multispectral oil imaging sensor
- Robotic aerial systems
- Aerostat-based capabilities

This drill provided emergency responders with hands-on experience in how to use and incorporate these technologies into our operations.

environmental DNA

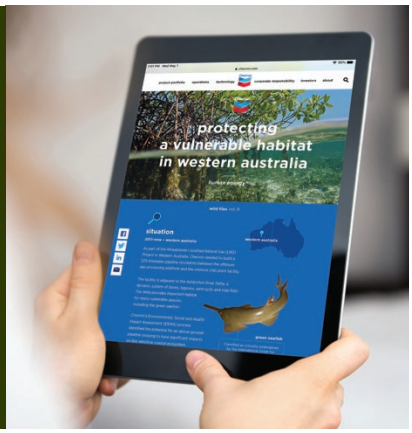
Chevron uses biodiversity monitoring to identify and manage the potential impacts of our operations on sensitive biological resources.

Traditional methods rely on observation or collection of species, both of which are labor-intensive and are representative only of the point in time they were taken. Recent advances in rapid DNA sequencing technology have unveiled a powerful biodiversity monitoring tool called environmental DNA (eDNA). By analyzing DNA fragments in seawater, fresh water, soil and sediment, eDNA can provide advanced warning of potential threats, such as invasive species and changes in biodiversity composition well before they could be detected by traditional methods. Chevron is using this technology to more efficiently and effectively:

- Develop pre-operational baseline assessments
- Detect rare, endangered and/or invasive species
- Monitor subterranean fauna

explore how we protect the environment in australia

chevron.com/habitat



Previous page: Mangroves are a group of trees or shrubs in tropical coastal areas that are flooded at high tide. Their roots typically form dense thickets and support a wide variety of species. In Australia, our engineers developed a unique micro-tunneling technique to bore underneath the Ashburton River Delta and protect this habitat while connecting the Wheatstone production field with the liquefied natural gas facility.