stewarding responsible water management

we conserve and protect water resources using a risk-based approach

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Abdul Sule
Water Operations Supervisor

"Turning what was before wastewater into a reusable resource is good water management, is good for the Permian and is good for our business. It's an exciting leap forward."

protecting natural resources

Clean water is a fundamental societal, environmental and economic resource. It is essential for the communities where we operate and our business. We protect this critical natural resource through our risk-based water management systems, processes and standards. Using water responsibly is an important part of being a good partner in the communities where we work.

99%+

Today, in the Permian, Chevron uses 99 percent nonfresh water for completions, which now includes recycled water.

To use water responsibly, we:

- Consider water conservation and efficiency in key decisions.
- Strive to conserve, reuse and recycle.
- Use appropriate metrics to report on water use.
- Engage with governments, partners, local communities and other stakeholders on significant water resource issues in areas where we operate.
- Build partnerships and contribute to industry initiatives to promote best practices, develop industry standards and shape policy for water resources.

Above: Chevron personnel in the Mid-Continent business unit in Texas use our Water Operations Management Tool to enter water composition and volume levels, which captures when sufficient recycled water is ready for reuse in oil operations.

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Norm James
Water and Regulatory Specialist

"At one operating site in the Kaybob Duvernay, we were able to use nearly 100 percent of the water produced that would have otherwise been disposed of as waste."

sharing expertise to use water responsibly

In 2019, Chevron led multiple efforts to develop and share best practices in responsible water management both across our company and within the industry. Engineers and Health, Environment, and Safety specialists from our U.S. refineries joined with water specialists from Chevron Energy Technology Company to form a new network focused on sharing best practices to improve effluent treatment operations. For example:

- Employees from our Latin American Unit in Argentina visited our Mid-Continent business unit (MCBU) in the United States to learn about water transfer methods, including best practices for transferring brackish water, water produced during oil and gas extraction, and recycled water from containment structures.
- At the 2019 Society of Petroleum Engineers Symposium in Kazakhstan, Tengizchevroil shared freshwater management strategies with the industry to advance sustainable water practices in the region.

managing water use responsibly

Chevron strives to responsibly manage our water usage. For example, in the Permian Basin we have increased the reuse of water produced during oil operations. Chevron has implemented innovative produced water recycle strategies for drilling and completions that decrease reliance on other water sources. Research shows this reuse of produced water is not detrimental to well longevity because the chemistry of the underground formation undergoes fewer changes. Reuse of produced water for these operations is sensible and fit for purpose.

Likewise, our Canada business unit invested in freshwater storage and pipeline infrastructure in Kaybob Duvernay, Alberta, to reduce our operational footprint and reliance on river water during low-flow periods in summer and winter.

Above: Chevron is operating in the Duvernay shale formation near Fox Creek, Alberta, approximately 260 kilometers northwest of Edmonton, Alberta, applying best practices to reduce our operational footprint.

Carlos Algarra
Chevron Argentina Facilities Engineering Manager

"The future challenge is to identify reliable sources of water through an approach that includes water reuse and management strategies."

additional resources

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