# NREL’s Hydrogen Dispenser Hose Reliability Robot (Text Version)

This is the text version of the video NREL’s Hydrogen Dispenser Hose Reliability Robot. It shows NREL’s robotic arm testing fueling equipment to predict failures in a safe, controlled environment.

[Insert video: <https://www.youtube.com/embed/XaM5m-zYPuo>]

[Music plays]

Challenge: How to predict potential fueling equipment failures—including those incurred through common use—in a safe, controlled environment.

Solution: Robots.

[A robotic arm autonomously connects and disconnects a hydrogen fuel pump in a laboratory.]

NREL completed more than 3,250 full-pressure, low-temperature fills in approximately six months. Results identified potential leak patterns and system vulnerabilities in fueling equipment.

NREL’s data helps equipment manufacturers improve reliability and determine condition-based maintenance schedules.

Learn more at [https://www.nrel.gov/hydrogen](https://www.nrel.gov/hydrogen/).

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