

# CASE STUDY

## ICHTHYS 2021 TURNAROUND PLANNING AND EXECUTIONS

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# VERTECH

## INTRODUCTION

Over a two-year period, an extensive project was undertaken to review and analyse every item of pressure equipment requiring internal inspection. The aim was to assess inspection suitability, coverage, and the necessary tools. Vertech led this effort, ensuring inspections were effectively delivered during the plant's shutdown across all key facilities.

## PROCESS

A tailored execution strategy was developed for Remote Digital Visual Inspection (RDVI), forming the backbone of the inspection phase. Vertech supplied RDVI teams for the three primary facilities – the onshore LNG plant, the FPSO, and the CPF offshore platform. Collaborating closely with other inspection teams, Vertech deployed the latest generation of camera and crawler systems, alongside custom-built tools.

At the ILNG plant alone, 66 pressure vessel inspections and 186 Fin Fan inspections were completed, including complex locations like inlet/outlet header boxes and selected tubes. Crucially, this approach eliminated the need for 252 manned confined space entries, significantly reducing risk, time, and cost.

## OUTCOME

This project stands as one of the largest turnarounds in the southern hemisphere. Vertech's involvement was central, deploying one of the region's most comprehensive RDVI operations. Their team included 43 IRATA rope access trades, 15 certified in-service plant inspectors, and a strong NDT supervisory presence.

In addition to managing confined space and height access ERT tasks, Vertech also supported the Frame 7 Turbine Change and provided remote robotic inspection and advanced camera system teams. Their delivery ensured safe, efficient inspections while exceeding the client's expectations for innovation and execution.

