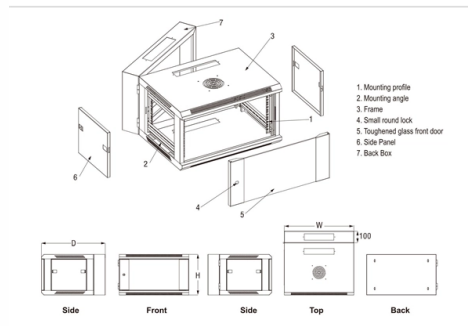


Tonga Communication Fiber Optic KVM Project



Overview

Tonga Cable System is a system connecting with, where it connects to other international networks. It is 827 kilometres (514 mi) long and was activated in 2013. It has at Sopo, a suburb of in, and, Fiji. The project was funded by and the. An extension of the cable to and was commissioned in April 2018.

Key Takeaways

The Tonga Communication Fiber Optic KVM Project involves constructing a second international undersea fiber-optic cable to enhance Tonga's connectivity, resilience, and digital infrastructure. Project Overview

The project aims to build a 383-kilometre undersea cable connecting a branching unit on the Hawaiki Cable to the existing cable landing station in Vava'u, Tonga. This will serve as Tonga's second international submarine cable, providing critical redundancy to the existing Tonga-Fiji cable system, which has historically been vulnerable to natural disasters such as the 2022 Hunga Tonga-Hunga Ha'apai volcanic eruption . Completion is expected in mid-2026, enhancing the reliability of international telecommunications and supporting Tonga's national digitalisation and economic goals .

Historical Context



Tonga's first international cable, the Tonga-Fiji Submarine Cable System, spans 827 km and was activated in 2013, with extensions to Ha'apai and Vava'u commissioned in 2018 . This cable has experienced multiple disruptions due to seismic and volcanic activity, including outages in 2019 and 2022, highlighting the need for a redundant and resilient connectivity solution . Satellite communications have been used as a temporary backup during these outages, but they are less reliable and slower than fiber-optic connections .

Funding and Partnerships

The project is co-funded by the Australian Government through the AIFFP with a grant of AUD 35.6 million and the New Zealand Government contributing AUD 19 million . The total estimated cost is approximately 80 million pa'anga, with additional annual operational overheads projected at around 100,000 (currency unconfirmed), . The initiative is part of a broader effort to strengthen Tonga's digital infrastructure and disaster resilience.

Strategic Importance

- **Redundancy and Reliability:** The second cable reduces the risk of total outages, ensuring continuous international connectivity even during natural disasters .
- **Economic and Social Benefits:** Improved connectivity supports e-commerce, education, healthcare, and government services, contributing to national development .
- **Digital Resilience:** The project includes considerations for online safety and accessibility, particularly for women, girls, and people with disabilities .
- **Regional Integration:** By linking to the Hawaiki Cable, Tonga gains more robust access to international networks, enhancing regional ICT integration .

Challenges and Considerations

Tonga's seismically and volcanically active environment poses ongoing risks to submarine cable infrastructure, making maintenance and rapid repair critical . While the new cable will improve resilience, complementary solutions such as satellite broadband may still be necessary to ensure uninterrupted connectivity during extreme events . Additionally, the project entails long-term operational costs and requires careful management to maximize benefits for the Tongan population.

Conclusion

The Tonga Communication Fiber Optic KVM Project represents a major step forward in securing Tonga's digital future, providing redundancy, improving disaster resilience, and supporting economic and social development. By addressing historical vulnerabilities and leveraging international partnerships, the project aims to deliver reliable, high-speed connectivity to the people of Tonga while strengthening the nation's ICT infrastructure .

Article Content

Tonga Cable System

Tonga Cable System is a submarine fiber-optic cable system connecting Tonga with Fiji, where it connects to other international networks. It is 827 kilometres (514 mi) long and was activated in 2013. It has cable landing points at Sopo, a suburb of Nuku'alofa in Tonga, and Suva, Fiji. The project was funded by Asian Development Bank and the World Bank. An extension of the cable to Ha'apai and Vava'u was commissioned in April 2018.

Expanding digital connectivity in Tonga via a second international ...

We partnered with the Governments of New Zealand and Tonga to build a new international undersea telecommunications cable to

SSA: Tonga: Tonga-Fiji Submarine Cable Project

Tonga Power has a plan for carrying fiber-optic cables on its power poles and offering wholesale capacity to interested parties. It

PAM: Tonga: Tonga-Fiji Submarine Cable Project

PROJECT DESCRIPTION The Tonga-Fiji Submarine Cable Project will support the development and operation of a submarine fiber

FACT SHEET Expanding digital connectivity in Tonga via a

About the project Australia, through the Australian Infrastructure Financing to an existing cable landing station in Tonga's outer

Fiber Optic Coverage and Internet Usage Statistics in Tonga (2026)

An overview of Tonga's fiber optic network expansion and internet usage projections for 2026, highlighting digital connectivity progress.

Tonga National Infrastructure Investment Plan 2021-30 HTHH

The destruction of the international and national fiber-optic cable connection cut the outer islands off from Tongatapu, and the

20210622 PVR Grant 0256 TON Tonga Fiji Submarine Cable

The project aimed to support the development and operation of the submarine communication cable system linking Tonga to Fiji

fibre optic cable | Matangi Tonga

Tonga's domestic fibre optic telecommunications cable was torn apart by tremendous forces and deeply buried under volcanic debris

Tonga Cable System Explained

Tonga Cable System is a submarine fiber-optic cable system connecting Tonga with Fiji, where it connects to other international

Tonga Cable Limited – Tonga

Tonga Cable Limited (TCL) owns and manages the fibre-optic submarine cable, connecting Tonga to Fiji, which was commissioned

RRP: Tonga: Tonga-Fiji Submarine Cable Project

Under the proposed project, the Asian Development Bank (ADB) and the World Bank will support the development and operation of

Digital transformation and innovation for a sustainable and

This involves broadband access across the country, as fiber optic deployment, satellite connectivity, and wireless technologies.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

