

Tonga Communication Optical Cable Case Study



Overview

We're working with the Governments of Tonga and New Zealand to build a new international undersea telecommunications cable to Tonga. The project will see the construction of a 383-kilometre long cable from a branching unit on the Hawaiki Cable to the existing cable . 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 Compensation and Resettlement Framework – Tonga Connectivity is a document prepared by Tonga Cable Limited in relation to its fibre optic cable project to connect Tonga to Southern Cross Cable in Fiji.



Article Content

Apr 17, 2026

Launch of Cable Project to Boost Tonga's International Connectivity

The establishment and operation of the 827-km submarine cable system, which will run from Tonga to the Republic of Fiji, will provide Tonga's population of 100,000 with affordable,

Jun 08, 2026

The Limited Communication Cables for Pacific Island Countries

The volcanic eruption severed Tonga's sole undersea communication cable, which carries international telephone calls and internet traffic.

Jun 03, 2026

135074187_pp.pdf

Abstract—Submarine communications cables are essential in-frastructure in modern society, but they are also vulnerable to unpredictable disasters, and their breakage may have dire social and

Nov 23, 2025

Tonga's Vulnerable Network: Lessons from the Recent

The cable, which had only been in operation for a week and a half following a previous costly repair, has now been severed 41 kilometers from

Feb 16, 2026

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 (514mi) long and was activated in 2013.

Aug 11, 2025

Tonga Cable Limited – Tonga

Tonga Cable Limited (TCL) owns and manages the fibre-optic submarine cable, connecting Tonga to Fiji, which was commissioned in August 2013. The cable

Jun 07, 2026

20210622 PVR Grant 0256 TON Tonga Fiji Submarine Cable Project

The project aimed to support the development and operation of the submarine communication cable system linking Tonga to Fiji where an existing international submarine cable network was to give

Jan 31, 2026

Tonga Cable A Post Deployment Case Study

Tonga Cable Management Tonga Cable Management Perspective Operating 12 months by Aug 1st 2014 No Service Affecting Alarms so far Minor Alarms due to fluctuating of Optical Power

Dec 23, 2025

Tonga's High-Speed Revolution

Project Result / Case Study 10 August 2016 An undersea fiber-optic cable network is banishing Tonga's long-standing isolation and ushering in the

Jan 07, 2026

44172-012: Tonga-Fiji Submarine Cable Project

The proposed project will support the Government of Tonga to develop and operate a submarine fibre optic cable for communications. Complementing the due diligence activities by the

Jul 18, 2025

World Bank Document

A new cable station located in Sopo, Nuku'alofa, will provide facilities for downstream service providers to connect their domestic networks to the cable on a "level playing field" basis. The two current retail

Feb 28, 2026

Tonga Cable A Post Deployment Case Study

Tonga Cable Limited Established 2009 Public Enterprise Wholesaling ISP services to local ISPs and Telecom operators Tonga Cable was launch in August 2013

Sep 05, 2025

44172-022: Tonga-Fiji Submarine Cable Project

The Tonga cable traffic may be interrupted by changes in Fiji's domestic communication arrangement unless it is connected to FINTEL's backhaul in parallel to Fiji's domestic connection.

Jan 16, 2026

EFA: Tonga: Tonga-Fiji Submarine Cable Project

The Tonga-Fiji Submarine Cable Project will invest in a new submarine fiber optic cable link to the Southern Cross Cable Network (SCCN) in Fiji. This will provide a substantially higher initial capacity

Nov 06, 2025

Tonga Cable: Fiji to Tonga 827 km Pacific Submarine Cable

Tonga Cable is the 827 km submarine cable linking Suva (Fiji) and Nukualofa (Tonga). Operated by Digicel Tonga and Tonga Communications, RFS 2013. Live latency.

Jun 11, 2026

Tonga : Tonga-Fiji Submarine Cable Project

The Tonga-Fiji Submarine Cable Project will provide a submarine fiber optic cable system linking Tonga to Fiji where an existing international submarine cable system will provide onward cost-effective

Jul 26, 2025

How engineers will reconnect Tonga's broken internet

The South Pacific nation of Tonga was all but cut off from the world after an undersea communications cable was severed following the massive

Dec 14, 2025

Tonga Cable

The Tonga-Fiji Submarine Cable System (also known as Tonga Cable) is a 827km fiber optic submarine cable system linking Nuku'alofa, Tonga and Suva, Fiji, and connects to the Southern Cross Cable

Dec 13, 2025

World Bank Document

It was designed to finance a submarine fiber-optic cable connection from Tonga to Fiji, to connect Tonga to the global telecommunications network to meet Tonga's immediate- and medium-term demand for

Apr 12, 2026

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

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Jul 07, 2025

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

Tonga currently has one international undersea cable, connecting Fiji to Tongatapu, and a domestic cable connecting Tongatapu and Vava'u. With completion expected in mid-2026, the second

Oct 11, 2025

World Bank Document

The main objective of this project is to provide fast, reliable, economical and efficient way of communication for people of Tonga. The project will connect Tonga via a repeatered cable to Suva, Fiji.

Jan 24, 2026

IEEE COMMUNICATIONS MAGAZINE 1 Designing Cost-Effective

Communications Cable Path: Lessons From the Tonga Volcano Disaster Xinyu Wang, Zengfu Wang, Tianjiao Wang, and Moshe Zukerman, Life Fellow, IEEE
Abstract—Submarine communications

Dec 07, 2025

Developing nations: The dilemma surrounding Tonga's

In January 2022, the undersea fibre optic communications cable facilitating internet access in the South Pacific Island nation of Tonga was

Oct 23, 2025

A Volcanic Eruption Severed Communications in Tonga.

A volcanic eruption in the South Pacific Ocean in January 2022 caused a tsunami and damaged an undersea fiber-optic telecommunication cable that connects

Aug 09, 2025

The Day the Internet Died: How an Underwater Cable

A single garden hose-sized cable connected Tonga to the world until a natural disaster sent the country back to 1880. And it could happen to anyone.

Jul 13, 2025

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.

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