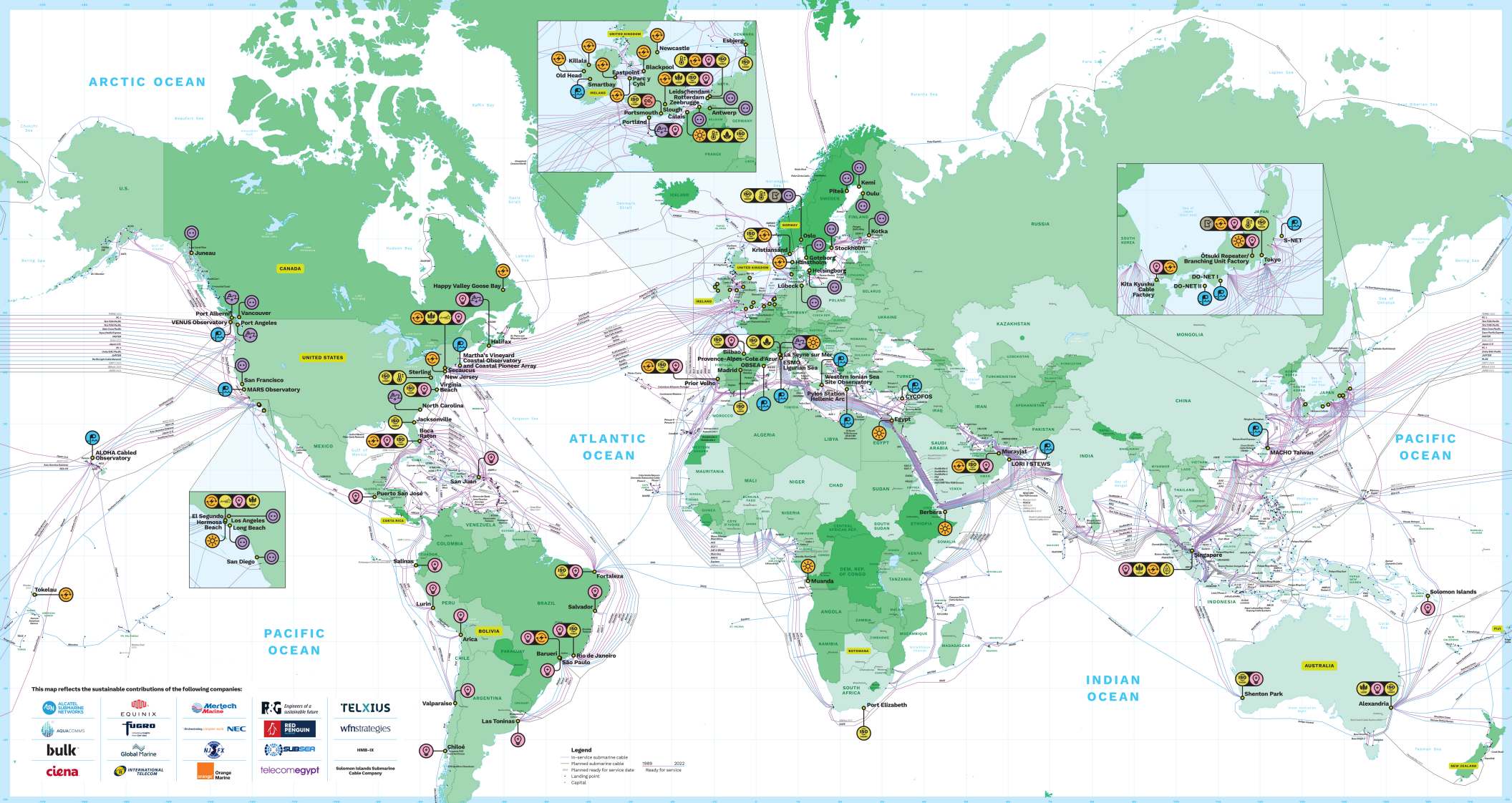


Sustainable Subsea Networks Map

Designed and produced by

TeleGeography

In partnership with



This map reflects the sustainable contributions of the following companies:



What makes a network sustainable?

Extend Lifetime

The more years a cable is in operation, the more sustainable it generally is.

Sustainability Award

Bravo Hopper is the highest capacity registered cable service.

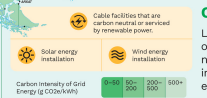
Max capacity: 392,000 Gbps



Increase Bandwidth

The more capacity, the more sustainable the network.

Upgrading capacity, as Ciena has with WaveLogic 5, means avoiding the construction of new cables.



Plug into Shore Power

When shore-side electric power is available for cable ships, they do not have to burn CO2 emitting-fuel.

Connect to Green Energy

Locating data centers and cable landings on green grids, purchasing carbon neutral power, and building renewable installations all reduce carbon emissions.

Be Regulation-Conscious

These countries have established environmental regulation for data centers and/or landing stations.

Lend Cables to Science

Scientists use ocean observatories and SMART cables to monitor ocean and climate conditions.

Offset Emissions

Companies can offset their emissions and should favor durable carbon removals over tree planting and conservation offset efforts.

Meet Standards, Obtain Certifications, Commit to Targets

Companies engaged in carbon offsetting.

Be Energy Efficient

Facilities and ships that have undertaken energy efficient retrofits and upgrades.

Account and Disclose

Companies can track their carbon emissions and disclose them to the public.

Protect Cables

A well-protected cable, and regulations that restrict cable damaging activities, leads to fewer repairs and less CO2 emissions.

Recycle Cables

Recycling returns cable materials to the circular economy and saves CO2 emissions.

Material	Amount (t)	GHG emissions (t CO2e)
Copper	22,048	71,208
Steel	55,435	133,816
Polyethylene	38,011	105,280
Aluminum	3,082	43,371
Total	129,584	352,584

Recycling cables' materials is the equivalent of saving 7,033 gas-powered cars off the road for a year.

*Figures represent the embodied CO2e in material extraction and manufacturing, but does not include emissions associated with recovery and reprocessing.