

BEAD Program: A Framework to Allocate Funding for Broadband Availability

State Broadband Report: New Hampshire

January 2024





1 Eligible Locations

How many unserved/underserved locations are eligible for BEAD funding?

7%
34K LOCATIONS
OF NEW HAMPSHIRE LOCATIONS LACK HIGH-SPEED BROADBAND IN JUN 2023
VS. 9% STATE/TERRITORY AVERAGE

UNSERVED LOCATIONS, JUN. 2024



15.1K
LOCATIONS

Are estimated to lack broadband access at **25/3 Mbps**

UNDERSERVED LOCATIONS, JUN. 2024



8.7K
LOCATIONS

Are estimated to lack broadband access at **100/20 Mbps**

These locations are primarily in rural areas and are eligible for BEAD funding to deploy broadband service.

2 Total Funding

How much capital funding is the State/Territory estimated to have?

\$197M
IN BEAD FUNDING HAS BEEN ALLOCATED TO NEW HAMPSHIRE
VS. \$743M STATE/TERRITORY AVERAGE

ESTIMATED BEAD FUNDING:

BEAD Funds allocated by NTIA **\$197M**

Estimated Provider Match **\$71M**

Estimated Total Capital **\$268M**

The provider match is estimated using a high-level service provider business case. See national summary deck for full details.

3 Deployment

How many locations can be covered with fiber and other technologies?

\$104M-\$197M
OF BEAD FUNDS IS REQUIRED TO BUILD HIGH-SPEED BROADBAND TO ALL ELIGIBLE LOCATIONS

DEPLOYMENT SCENARIOS:

Baseline Fiber

100% LOCATIONS REACHED
64% FIBER LOCATIONS

\$175M
TOTAL CAPITAL COST





\$93M
REMAINING BUDGET

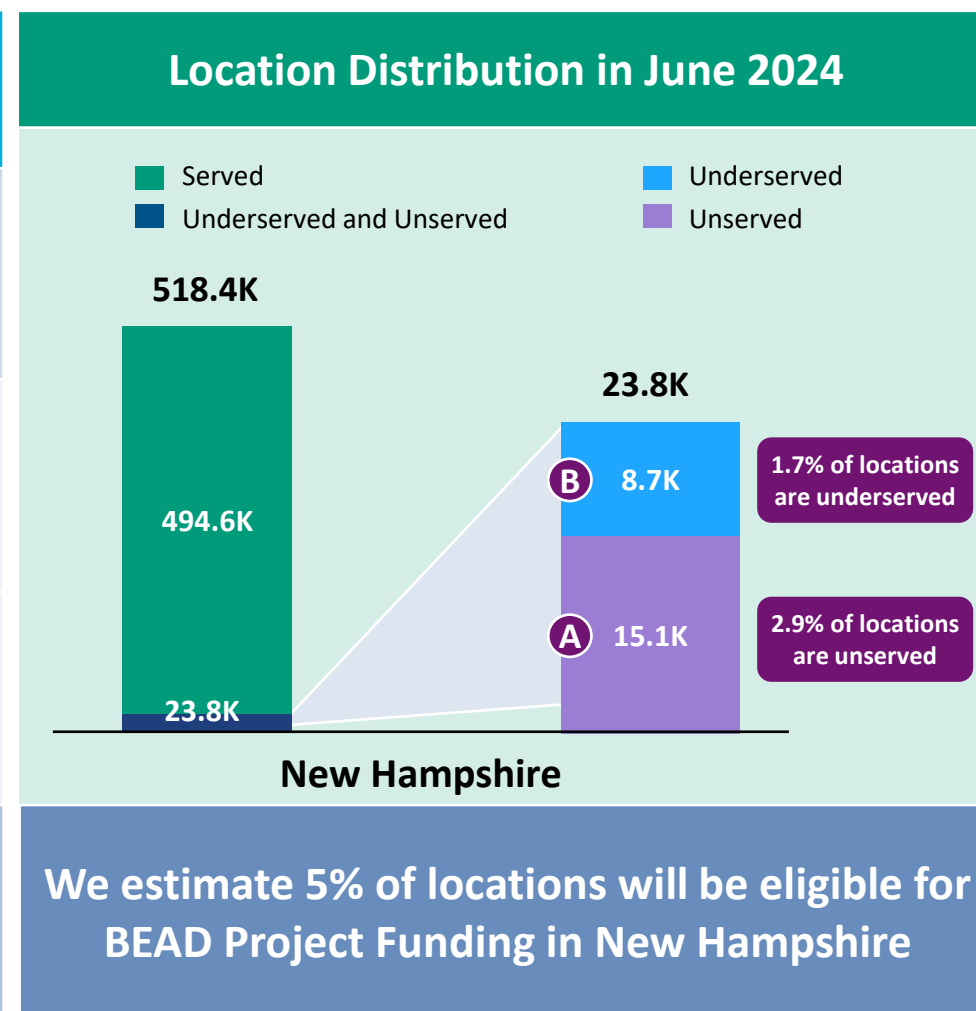
Maximum Fiber

100% LOCATIONS REACHED
99% FIBER LOCATIONS

\$268M
TOTAL CAPITAL COST

\$--M
REMAINING BUDGET

 June 2023 FCC Broadband Locations	Unserved <i>(less than 25Mbps/3Mbps)</i>	Underserved <i>(less than 100Mbps/20Mbps)</i>
 Subsidy Program Funded Locations ¹	5.4K	2.2K
 Incremental Build ² (13% annual build, for 12 months)	2.3K	--
 Jun. 2024 Estimated Eligible Locations	15.1K A	8.7K B



1. Locations with "commitments" to receive support from federal subsidy programs

2. Given the uncertainty around the magnitude of locations moving from unserved to underserved, we have not made incremental builds adjustments to underserved locations

BEAD eligible locations does not account for state-specific eligibility rules set forth in Initial Proposals

Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)

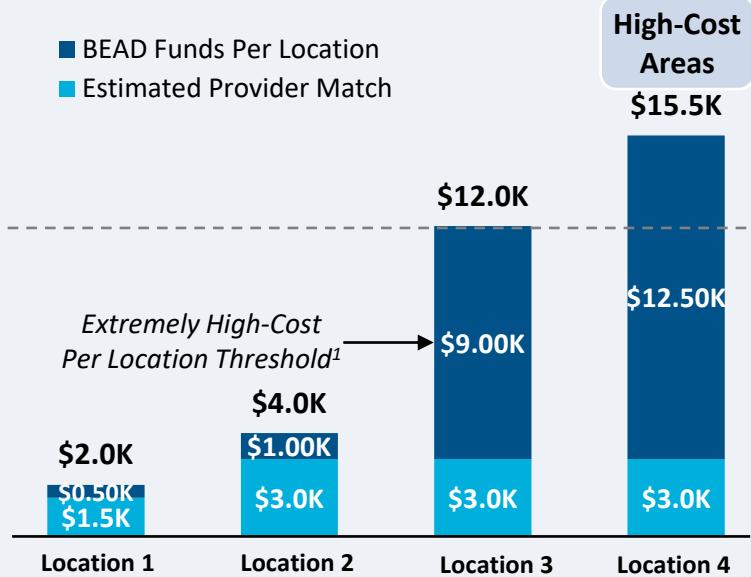
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New Hampshire | BEAD Funding & Estimated Provider Match

Provider Match Examples

Total Deployment Cost per Location

- BEAD Funds Per Location
- Estimated Provider Match

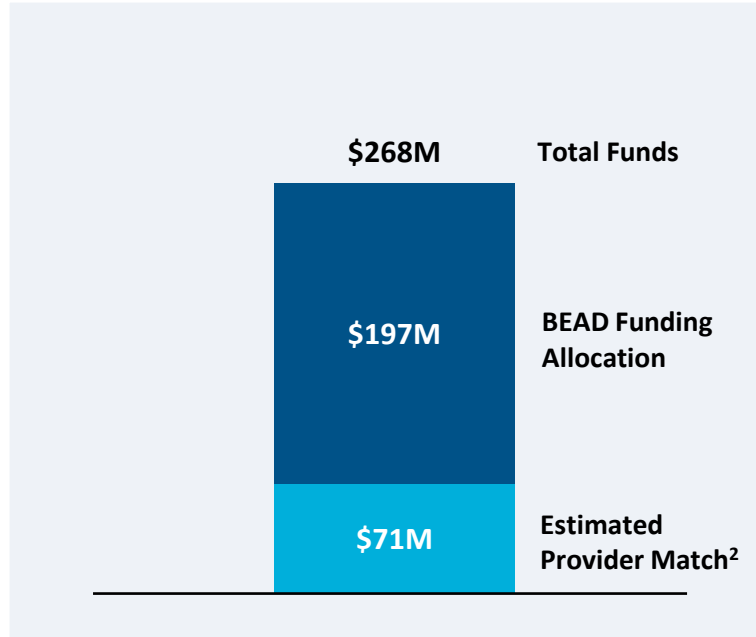


Provider Match %

75% 75% 25% 19%

To be conservative, we assume provider match amounts have a maximum of 75% and a minimum of 25%, except in high-cost areas

Total Capital Available - New Hampshire



\$268M in total capital is estimated to be available to serve unserved/underserved New Hampshire locations (combining BEAD funding and estimated provider match)

Provider Match - New Hampshire

Total Estimated Provider Match: **\$71M**

Total Estimated Eligible Locations: **23.8K**

Average Provider Match: **\$2,996 PER LOCATION**

We estimate the average provider match will be \$2,996 – provider matches will be 75% where cost to deploy is less than \$4K

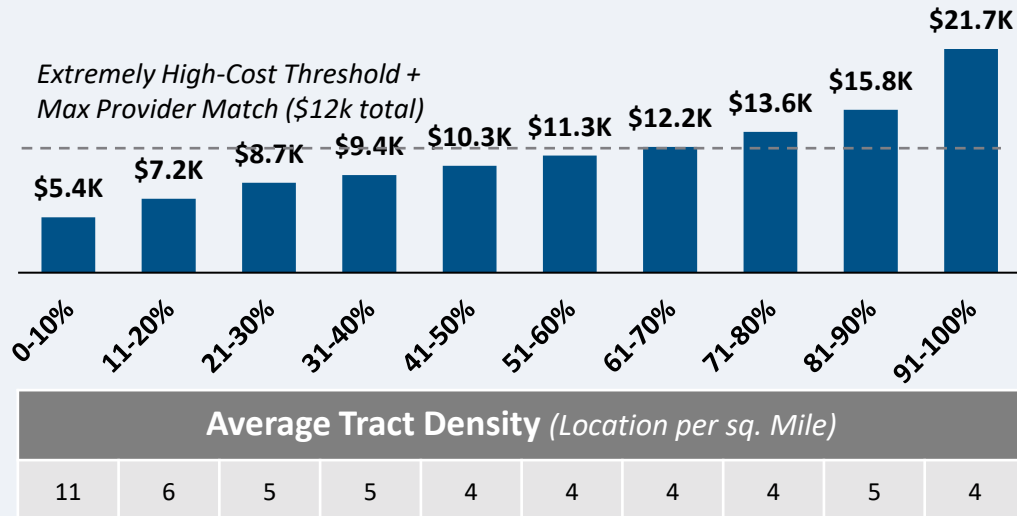
1. The model uses a \$9k threshold, however, States/Territories will individually need to determine their appropriate extremely high-cost threshold
 2. In reality, providers will determine the viable level of match funding for each project using a business case model. They will be willing to contribute a greater match in some locations and less in others. Locations which are hardest to serve may need to be fully funded by BEAD with no match. Competitive bidding should drive provider matches towards this level.

New Hampshire | Cost to Deploy Fiber by Decile

CAPEX Fiber Deployment Cost per Location Segmented by Cost Deciles¹

Unserved Locations

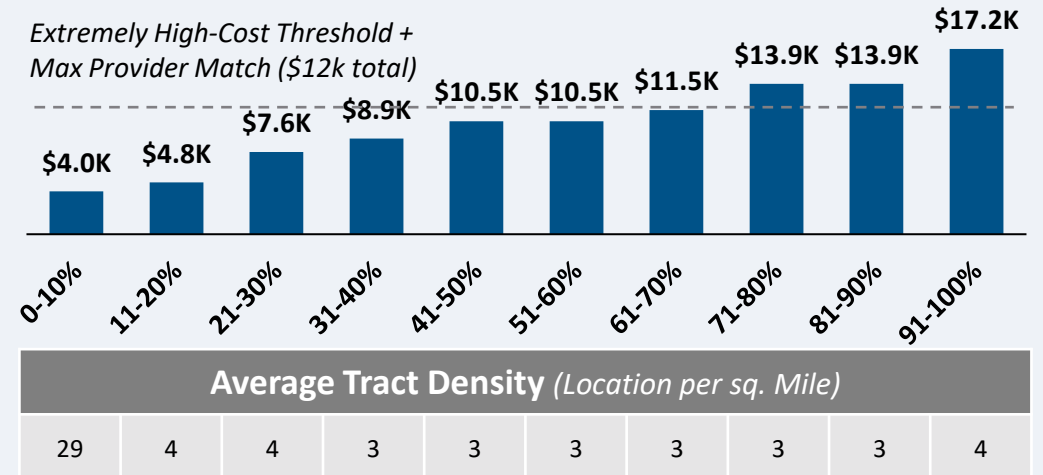
Overall Average Cost per Location: \$11,679



15.1K Locations

Underserved Locations

Overall Average Cost per Location: \$10,951

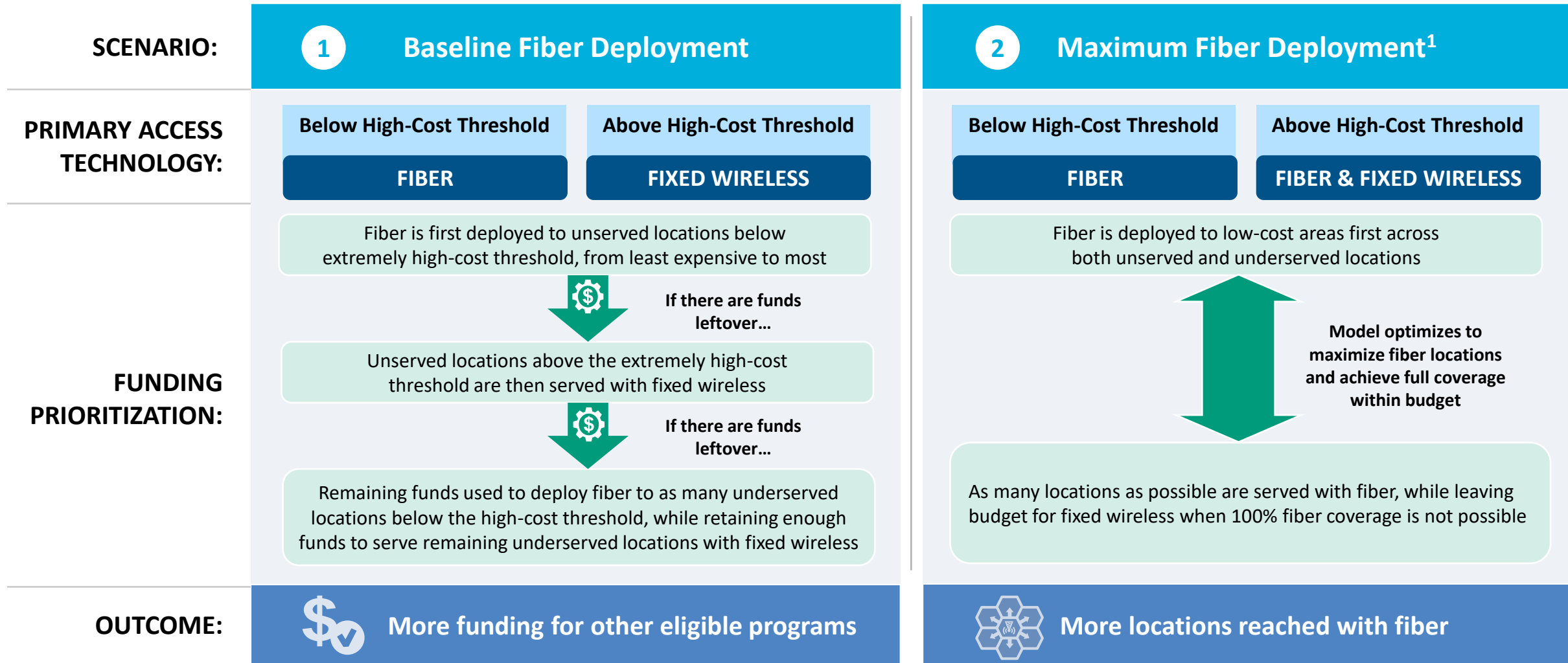


8.7K Locations

Over 60% of locations are estimated to fall below the High-Cost Threshold + Provider Match

1. Chart values are average cost per location for each decile bucket
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023)
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New Hampshire | Fiber Preferencing Scenarios



1. Scenario 2 deploys fiber beyond the extremely high-cost threshold
 Source: Cartesian
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3 Develop Deployment Scenarios

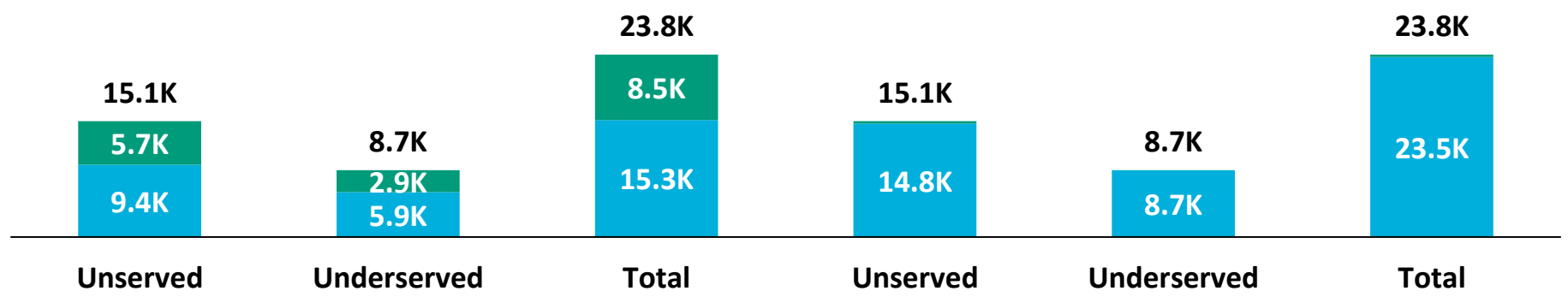
New Hampshire | Scenario Analysis Results

SCENARIO:

1 Baseline Fiber Deployment

2 Maximum Fiber Deployment

■ Fixed Wireless
■ Fiber



	Scenario 1	Scenario 2
Capex Required per Locations ¹	\$7,387	\$11,210
BEAD Funds Available to State	\$197M	\$197M
+ Estimated Provider Match	\$71M	\$71M
= Total Available Capital	\$268M	\$268M
- Capex Required to Build	\$175M	\$268M
= Remaining Funds	\$93M	\$--M
% of Locations Reached	100%	100%
% of Locations Reached with Fiber	64%	99%

1. Funding to deploy fiber before the maximum \$3k provider match per location
 Source: Cartesian, FCC National Broadband Map (June 2023 data, released in November 2023), Benton, NTIA
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New Hampshire | Conclusion



Funding Summary

New Hampshire is expected to receive

\$197M in BEAD funding



\$71M in estimated provider matching

We estimate the funding is sufficient to reach all of New Hampshire's 23.8k eligible locations with high-speed broadband



Key Findings

New Hampshire will need to decide how far to deploy fiber while considering the trade-off of having higher fiber coverage vs. retaining funds for other BEAD eligible programs

A Baseline Fiber Deployment...



Maximizing Fiber...

- Leaves \$93M additional funds for affordability programs
- Reaches 64% of locations with fiber
- Requires 36% to be reached with other tech.

- Exhausts funds without leaving additional funds for affordability programs
- Reaches 99% of locations with fiber
- Requires 1% to be reached with other tech.

States/Territories will set their own extremely high-cost threshold and may choose a threshold or funding paradigm different from these two scenarios

New Hampshire | ACA Connects Members

Member Name
Atlantic Broadband
Citizens Cablevision, Inc.
Consolidated Communications, Inc.
TDS Telecom
Vermont Telephone Company, Inc.



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