

BUILDING A GREENER FUTURE

Brought To You By Broadband

Broadband-enabled technologies will play a central role in helping industries and consumers adopt more ecofriendly and sustainable practices.

USTELECOM

THE BROADBAND ASSOCIATION

TELEHEALTH

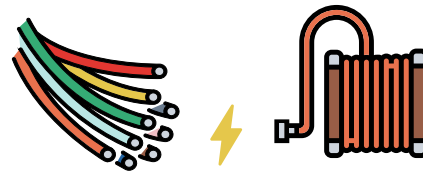


Telemedicine appointments result in a **40-70x decrease** in carbon emissions



MODERNIZING NETWORKS

Fiber lines use **12x less energy** than copper



Fiber uses 1 watt to send data **over 300 meters** compared to Copper's 3.5 watts to send data **just 100 meters**

AUTOMATED TRANSPORTATION



Connected, automated vehicles save **23% fuel/energy** in high traffic

PRECISION AGRICULTURE

Broadband helps farmers use less:



- 🔥 Chemicals by up to **80%**
- 💧 Water by up to **50%**
- ⛽ Fuel by **40%**

SMART HOMES

Smart water sensors help prevent **1 trillion gallons** in leaks per year



Smart LED bulbs use **75% less** energy

SOURCES:

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MODERNIZING NETWORKS: Otelco, "Fiber Optic Broadband: A Greener Internet Solution," April 2019

AUTOMATED TRANSPORTATION: Whitepaper, "Cooperative eco-driving automation improves energy efficiency and safety," Michigan Technological University, March 2021

SMART HOMES: EPA, "Fix a Leak Week,"

SMART HOMES: NY Times, "How to Save Money and Energy With Smart Home Devices," May 2019

[USTelecom.org/green](https://www.ustelecom.org/green)