



Goal 9: Build resilient infrastructure, promote sustainable industrialization, and foster innovation

Goal 9 Targets:

9.1) **Develop** quality, reliable, sustainable and resilient **infrastructure**, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.

9.2) Promote **inclusive and sustainable industrialization** and, by 2030, significantly **raise industry's share of employment and gross domestic product**, in line with national circumstances, and double its share in least developed countries.

9.3) **Increase the access of small-scale industrial and other enterprises**, in particular in developing countries, **to financial services**, including affordable credit, and their integration into value chains and markets.

9.4) By 2030, **upgrade infrastructure and retrofit industries to make them sustainable**, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

9.5) **Enhance scientific research, upgrade the technological capabilities of industrial sectors** in all countries, in particular developing countries, including, by 2030, **encouraging innovation and substantially increasing the number of research and development workers** per 1 million people and public and private research and development spending.

9.a) Facilitate **sustainable** and resilient **infrastructure development in developing countries** through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States.

9.b) Support **domestic technology development, research and innovation in developing countries**, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities.

9.c) Significantly **increase access to information and communications technology** and strive to provide **universal and affordable access to the Internet** in least developed countries by 2020.

See pages 4-5 for further resources on Goal 9.

Take action toward achieving goal 9

Take action locally:

- **Congregational actions:** *Engage members of your congregation in action either through volunteering, advocacy, exercises, or wider congregational changes.*
 - **Take a volunteer trip with your congregation for [Habitat for Humanity](#)** and help build houses for low-income families across the world, contributing directly to infrastructure development.
 - **Lobby your local government against urban sprawl.** If your community is undergoing infrastructural developments that entail increasing sprawl, attend local government meetings and lobby to move construction plans in a more sustainable direction.
 - **Support companies that are making changes toward becoming more eco-friendly and sustainable** (often identified by their [green label](#)) at your congregation by limiting supplies purchased for coffee hour, events, and fundraisers, to these parameters.
 - **Hold a cell phone drive or a printer cartridge collection** at your congregation to give a second life to modern technological devices and to increase equality in access to technology in your community or region.
- **Petitions:** *Sign the following petitions advocating for innovations in industry and infrastructure in the U.S. and Canada. Collect signatures at your congregation by book a table during coffee hour.*
 - **[Tell the U.S. Federal Communications Commission \(FCC\) to expand programming for affordable internet access across the U.S.](#)** to bridge the digital divide and the homework gap for students.
 - **[Urge the U.S. government to offer a computer science course in all public schools](#)** in the country, increasing access to information and technology and contributing to goal 9.c.
 - **[Tell the U.S. Environmental Protection Agency \(EPA\) to ban neonicotinoids,](#)** an insecticide that kills bees, in a step toward making the mass farming industry more sustainable.
- **Films for screening:** *Host a film screening and discussion of any of the following documentaries on innovations in industry and infrastructure in the U.S. and Canada at your congregation.*
 - **[Cyber-Seniors:](#)** A Canadian documentary that follows teenagers as they aim to bridge the digital divide by introducing senior citizens to the internet.
 - **[The Human Experiment:](#)** A documentary uncovering the dangerous chemicals found in everyday products and their effects on human health, calling for increased regulations for corporations and a movement toward sustainable industry in the U.S. that free of dangerous chemicals.
 - **[Ted Talk: Put a Value on Nature!](#)** -- Pavan Sukhdev, green economist, discusses placing a value on environmental resources and the impact this would have on the environment and the global economy.
 - **[One Nation, Disconnected](#)** – A short documentary produced by a [Harvard University student filmmaker](#) on digital inequality in North America, following the life of a young student who has grown up her entire life without access to internet.

- **Book club reads:** *Consider forming a book club with a few members of your congregation to read and discuss any of the following books on innovations in industry and infrastructure in the U.S. and Canada.*
 - **[Eco-Economy](#)** – Lester Brown discusses the need for a shift in thinking about the environment as part of the economy, outlining his solution for restructuring the global economy to allow sustainable development with minimal environmental impact.
 - **[The Upcycle: Beyond Sustainability--Designing for Abundance](#)** – William McDonough and Michael Braungart outline their vision for the future of sustainable architecture and rethink the eco-friendliness of everyday, mass-produced infrastructure like tables and chairs.
 - **[Virtual Inequality: Beyond the Digital Divide](#)** – Karen Mossberger explores the intersecting aspects of the digital divide in the U.S., and how unequal access to the internet, information, and technology intersects with other pervasive issues of inequality, including wealth and race.
 - **[Clean Disruption of Energy and Transportation: How Silicon Valley Will Make Oil, Nuclear, Natural Gas, Coal, Electric Utilities and Conventional Cars Obsolete by 2030](#)** – Tony Seba depicts a future in the U.S. in which more environmentally-friendly transportation innovations, like self-driving cars and solar and wind energy, have replaced transportation technology as we know it today.
 - **[Latinnoating: Green American Jobs and the Latinos Creating Them](#)** – Graciela Tiscareno-Sato tells the success stories of Latino-led innovation and entrepreneurship in the green economy in the U.S.

- **NGOs working toward the cause:** *Hold a fundraiser or collection plate for any of the following NGOs working toward innovations in industry and infrastructure in the U.S. and Canada.*
 - **Support your local library (in the [U.S.](#) and [Canada](#)) and its collection of computers and digital media**, as these often serve as the only point of internet access for low-income citizens and students who rely on them to complete their schoolwork.
 - **[The On It Foundation](#)**: An organization in the U.S. that provides donated refurbished computers to low-income families to bridge the digital divide and allow low-income students to fairly compete in school.
 - **[Natural Resources Defense Council's Clean By Design](#)** program: An audit program that reviews and makes recommendations for large factories (initially in China, now in the U.S.) for energy and water consumption savings, working toward sustainable mass industrialization.

Take action internationally:

- **Petitions:** *Sign the following petitions advocating for innovations in industry and infrastructure across the globe. Collect signatures at your congregation by booking a table during coffee hour.*
 - **[Call on global leaders](#) to work toward achieving universal internet access across the world.**
 - **[Tell the government of South Africa](#) to provide free Wi-Fi for all in public spaces.**
 - **[Urge David Cameron](#), UK Prime Minister, to ban microbeads from face scrubs and cosmetics in a step toward achieving greater environmental consciousness and sustainability in the cosmetics and hygiene industries.**

- **Films for screening:** *Host a film screening and discussion of any of the following documentaries on innovations in industry and infrastructure across the world at your congregation.*

- [Let's bridge the digital divide](#) – Aleph Molinari's Ted talk on the state of the digital divide and his method of addressing it.
 - [Web](#) – A documentary that follows the experiences of children in the Peruvian Amazon as they experience the internet for the first time, highlighting the benefits and complications from this increasing worldwide connectivity.
 - [Our Daily Bread](#) -- A film on mass industrialized agriculture and the technology used in European factories. The filmmakers aim to allow viewers to form their own opinions on sustainable farm and farm technology by relying solely on sounds and imagery in lieu of words.
- **Book club reads:** *Consider forming a book club with a few members of your congregation to read and discuss any of the following books on innovations in industry and infrastructure across the world.*
 - [mHealth in Practice: Mobile technology for health promotion in the developing world](#) – Jonathan Donner and Patricia Mechael review existing mobile health (mHealth) technology, and research on what works and what doesn't to evaluate the role that mobile health plays in health infrastructure innovation in the developing world.
 - [India: The Road Ahead](#) – Mark Tully aims to uncover the future of India's economy and infrastructure in a time of rapid political development and change.
 - [The Leap: How to Survive and Thrive in the Sustainable Economy](#)– Chris Turner creates a field guide for moving past the current system of energy supply toward a sustainable model of technology and infrastructure development, using case studies from Europe and the U.S. as examples.
 - **NGOs working toward the cause:** *Hold a fundraiser or collection plate for any of the following NGOs working toward innovations in industry and infrastructure across the world.*
 - [Barefoot College](#): An entirely solar-powered school in the Indian village of Tilonia that was founded to train local community members as teachers, solar power engineers, and specialists in other fields. Support this eco-friendly infrastructure development effort that was founded locally as a means to empower a communities in development.
 - [Center for Digital Inclusion](#): An international NGO that aims to familiarize members of vulnerable communities (including low-income and indigenous groups, psychiatric clinics, and hospitals for the mentally and physically disabled) to technology and to build technological competency in communities across the world.
 - [Close the Gap](#): An NGO that collects and refurbishes used IT equipment from companies and organizations, then installs them in low-income communities in developing countries and trains their users on how to use them.

Further resources on goal 9 and education:

- [Goal 9 targets and related publications](#) on sustainable infrastructure and technology.
- [UN facts and figures](#) on Goal 9 and the state of innovation, infrastructure and technology worldwide.
- [Global Goals images](#) relating to Goal 9: Pass these around at your congregation to raise awareness of the ninth goal!
- [UN Development Program's \(UNDP\) role in achieving goal 9](#), and recent work related to infrastructural, industrial, and technological development across the world.
- [Global Citizen Report on international progress made to reach goal 9](#) and the future steps necessary to continue toward its achievement.
- [UN Environmental Program's \(UNEP\) agenda for sustainable construction in developing nations](#).