

AFFORDABLE AND CLEAN ENERGY

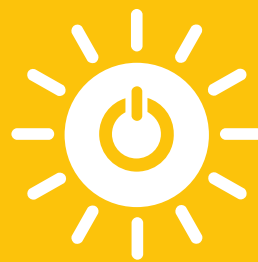
Sustainable Development Goal 7



TOOLS FOR T
Tools for becoming a T-Shaped professional



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Sustainable Development Goal 7



Lessoncard Guide:



Lesson Overview:

In this overview you can find everything that you need and/or have in your packet to teach about the seventh Sustainable Development Goal (SDG): Affordable and clean energy.



Learning Objectives:

- What is affordable and clean energy
- Why is having clean energy important
- What we are already doing to change that



Key Objective:

Getting the students into motion so they think about the Sustainable Development Goal and how they can improve themselves to make a contribution to it.



What to find in this lesson card:

- Informational video's
- Questionnaires
- Interesting facts
- An immersive VR experience

Empowering Progress: Achieving Universal Access to Sustainable Energy

Sustainable Development Goal 7 (SDG 7) aims to ensure that everyone has access to affordable, reliable, and sustainable energy. This goal recognizes the importance of energy in areas like poverty reduction, health care, education, and environmental protection. By promoting clean and efficient energy sources, SDG 7 seeks to drive economic development, raise living standards, and combat climate change on a global scale.



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Learn more: Videos

The UN's goal to provide affordable electricity and clean energy for everyone by 2030 is essential as global energy needs continue to rise. Despite advancements, 1.2 billion people still lack access to electricity, highlighting the urgency of transitioning to renewable sources like solar and wind power. Encouraging progress, such as the expansion of solar projects in California and innovative technologies, is leading the shift towards a cleaner and more sustainable energy future. Let's unite to drive this energy revolution and achieve our goals by 2030.



Source: Understand Goal 7: Affordable Clean Energy (Secondary) <https://www.youtube.com/watch?v=jlWfQoycRPE>

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Questions

- What is the United Nations doing to make sure everyone can get affordable electricity and clean energy by 2030?
- Why is it a problem that 1.2 billion people don't have electricity, and how are solar power and wind turbines helping?
- How do fossil fuels and nuclear power affect the environment, and why do we need more renewable energy?
- What are some ways we're making progress in using renewable energy, like in California and London?



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For more information...



Source: Affordable and Clean Energy 🌍♻️ SDG 7 ⚡
Sustainable Development Goals for Kids
<https://www.youtube.com/watch?v=IVgvK8Kfxwc>



Source: Understand Goal 7: Affordable and Clean Energy (Primary)
<https://www.youtube.com/watch?v=6QrO7r0yrro>



Source: Sustainable Development Goal 7 - Affordable and Clean Energy - Alistair Sproul
<https://www.youtube.com/watch?v=HyjNKnpjRvU>



Source: SDG 7 Affordable & Clean Energy - UN Sustainable Development Goals - DEEP DIVE
<https://www.youtube.com/watch?v=e3D7QyFLmKs>

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Did you know?



Around 1.2 billion people worldwide lack access to electricity, with a significant portion residing in Sub-Saharan Africa and Asia. Sustainable Development Goal 7 (SDG 7) strives to guarantee universal access to affordable, reliable, and modern energy services by 2030.

As of 2019, renewable energy made up 17.3% of the total global energy consumption. SDG 7 aims to boost the proportion of renewable energy in the global energy mix, advocating for sustainable energy sources such as solar, wind, and hydropower.



Approximately 2.6 billion people, mainly in developing nations, continue to depend on traditional and inefficient cooking methods like open fires and solid fuels. SDG 7 aims to enhance access to clean cooking facilities, tackling health and environmental issues linked to traditional cooking practices.

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Digital + Renewable Energy - The GE Store

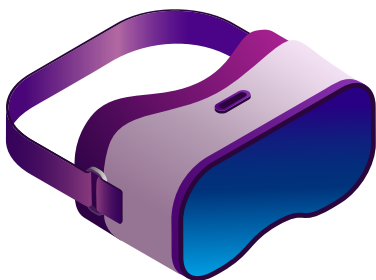
GE Digital and GE Renewable Energy are presented collaborating to create digitally-connected and efficient wind farms utilizing digital twin technology. Digital twin technology, which harnesses Big Data, facilitates turbine speed adaptation and optimization, as well as optimal turbine placement predictions based on physical conditions. constant real-time data monitoring through Digital Twin software leads to no unplanned downtime, decreased costs, and increased productivity over the wind farm's lifespan. By innovating with smarter wind farms, GE is not only pushing technological boundaries but also developing software that maximizes wind turbine performance.

How to get there

Visit the virtual experience by clicking the following link: [Digital + Renewable Energy - The GE Store](#) or by scanning the QR code.



Source: <https://www.youtube.com/watch?v=o7VdVqy5gLk>



Instructions for VR goggles

If you have a VR-headset you can watch this video in VR.

1. Put on VR goggles and open the web browser in the VR-set.
2. Type in or enter the link in the address bar.
3. Look around, listen well and enjoy the video!

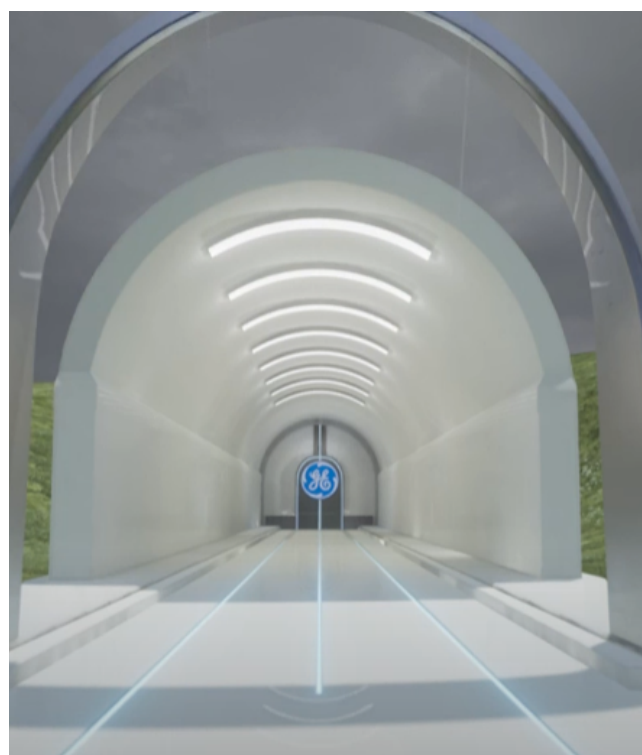
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Questions

- In what ways does GE Store contribute to the development of wind farms?
- What role does Big Data play in digital twin technology?
- Is the utilization of clean energy significant in your opinion? Explain your reasons for or against its importance?



What you can do

Advocate for Renewable Energy: Encourage the adoption and investment in renewable energy sources like solar, wind, and hydropower. Advocate for policies that facilitate the development and integration of renewable energy technologies into existing energy systems.

Promote Energy Efficiency: Support and implement energy-efficient practices in households, businesses, and industries. This involves using energy-efficient appliances, adopting sustainable building designs, and implementing measures to minimize energy wastage.

Support Access Initiatives: Contribute to initiatives aimed at providing affordable and reliable access to electricity in underserved regions. Support projects that introduce clean and sustainable energy solutions to communities lacking access, thereby enhancing their quality of life and economic opportunities.

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