

Clean Energies

Your Mission: You are energy innovators working for the Future Grid Taskforce. Your mission: explore how the world produces energy today, and design ideas for a cleaner, fairer, and more sustainable tomorrow

Pre-Visit Activity

Hook	15 mins	Interactive Map/Website: Our World in Data – Share of Electricity from
HOOK	10111113	Renewables
		Quick Think-Pair-Share:
		Which countries are leading in renewables?
		Which are lagging? Why might that be?
Our World	10 mins	Interactive Map / Website: Electricity production by source
in Data		Questions:
		Which energy sources dominate today?
		Which energy sources are growing?
		Which are declining?
		What patterns surprise you and why?
Data Dive	15 mins	Students work in pairs to select 2–3 countries.
Challenge		Create a short infographic (Canva, Google Slides, or hand-drawn)
		comparing their energy mix (solar, wind, hydro, fossil, nuclear).
		Prompt : What factors (geography, policy, technology, economics) explain
		the differences?
Future	30 mins	Scenario: "It's 2035 and your city must run on 80% clean energy."
Brainstorm		In groups, sketch a mini-plan: What mix of solar, wind, hydro, batteries, or
		new tech would you propose?
Share and	10 mins	In teams, you have 60-seconds to share your mini-plan with the class.
reflect		











Post-Visit Activity

Your Mission: You are now clean energy advisors pitching solutions to schools, businesses, or governments. Your task is to use what you learned to inspire action and create future-ready energy solutions.

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Hook	10 mins	Example: "How Australia could run on 100% renewables" (short
		explainer, e.g. TED-Ed or ABC Catalyst clip).
		Question : What's one surprising insight that challenges what you thought
		about energy?
Student	45 mins	Option A – Mini TikTok/Video
Challenge		In groups, create a 1-minute explainer answering:
		 "How does clean energy affect everyday life?"
		"What's one myth about renewables we can bust?"
		Option B – Data Analysts
		Analyse exported workshop results (or teacher-provided sample
		data).
		Create bar graphs, averages, and short conclusions about renewable
		efficiency or preferences.
		Prompt: "Is the data reliable? How could we improve it?"
		Option C – Futures Pitch
		Teams role-play as Energy Startups.
		2-minute pitch to class: "Our innovation will help Australia reach
		100% renewables by 2050."
Reflection	10 mins	Discussion:
and Ethics		Should every country commit to phasing out fossil fuels, even if it
		slows their economy?
		Who should pay more for the clean energy transition — wealthy
		nations, corporations, or individuals?
		What new careers will exist in a clean energy future?







