

CHI Challenge 2025 - Study Guide

Here are some articles to get you started on exploring the topic of Singapore's Green Energy Pathway. The green energy problem is complicated and multidisciplinary, so these resources range from the scientific to policy. Of course you are encouraged to follow your curiosity and study beyond these materials!

1. [The world's energy transitions: a history told in infographics | World Economic Forum](#)
How did the world's energy system get to where it is today? Read about it in this article.
2. [Renewable Energy Explained](#)
A brief introduction to renewable energy sources: hydropower, wind, solar, biomass, and geothermal. Participants are encouraged to read about their history, how each technology works, their advantages and disadvantages, and their potential applications in the Singapore context.
3. [Quantifying energy changes in chemical reactions - Student Academic Success](#)
An example calculation of energy released from the combustion of fuels.
4. [What is green hydrogen and will it power the future? - CNBC](#)
An introduction to green hydrogen, why countries are interested in it, and which sectors hydrogen may play a bigger role in.
5. [Fuel Cell Basics](#) - Fuel Cell and Hydrogen Energy Association
Learn about the different kinds of fuel cells that can be used to create clean energy electrochemically.
6. [Singapore's National Hydrogen Strategy](#)
Read this page and the e-brochure attached to learn how hydrogen will play a role in Singapore's energy future.
7. [SG Green Plan - Energy Reset](#)
What are the key focus areas in Singapore's green energy plan?
8. [10 Things You Should Know About Singapore's Energy Story - EMA](#)
What efforts is Singapore taking to make a more sustainable energy future?
9. [Overview of Singapore Climate Targets](#)
An overview of Singapore's vision to achieve net-zero emissions by 2050