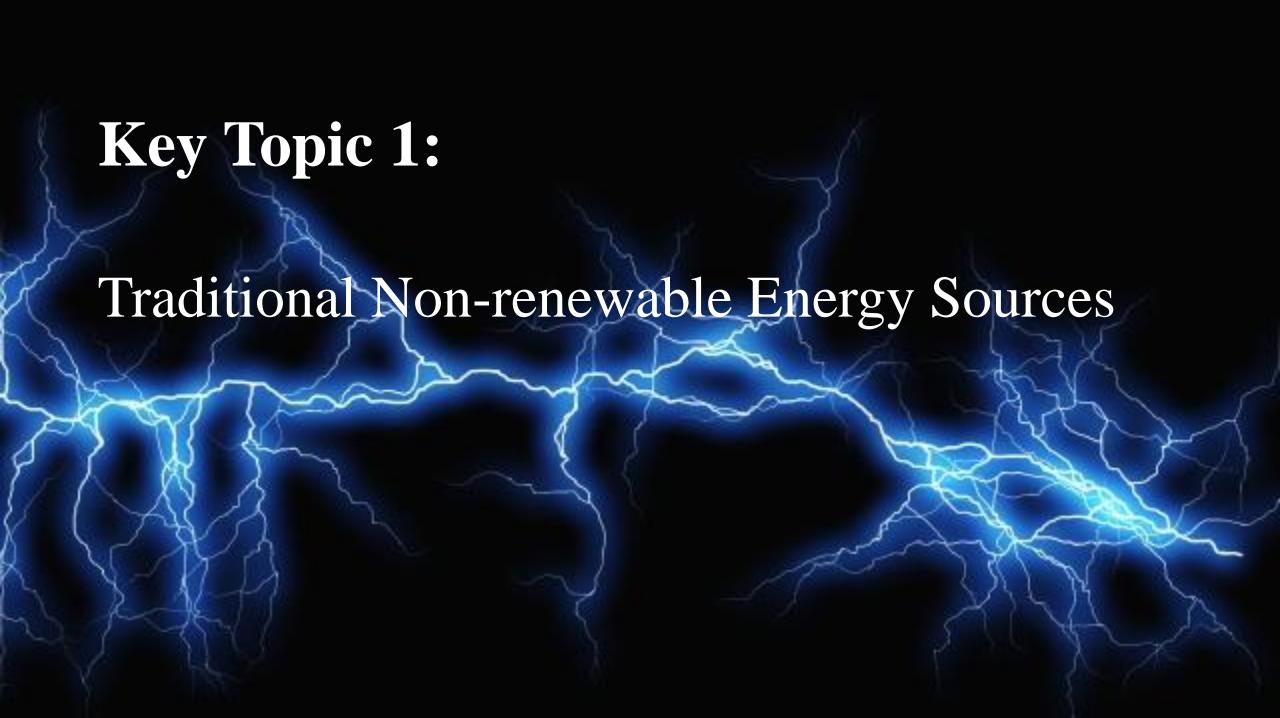
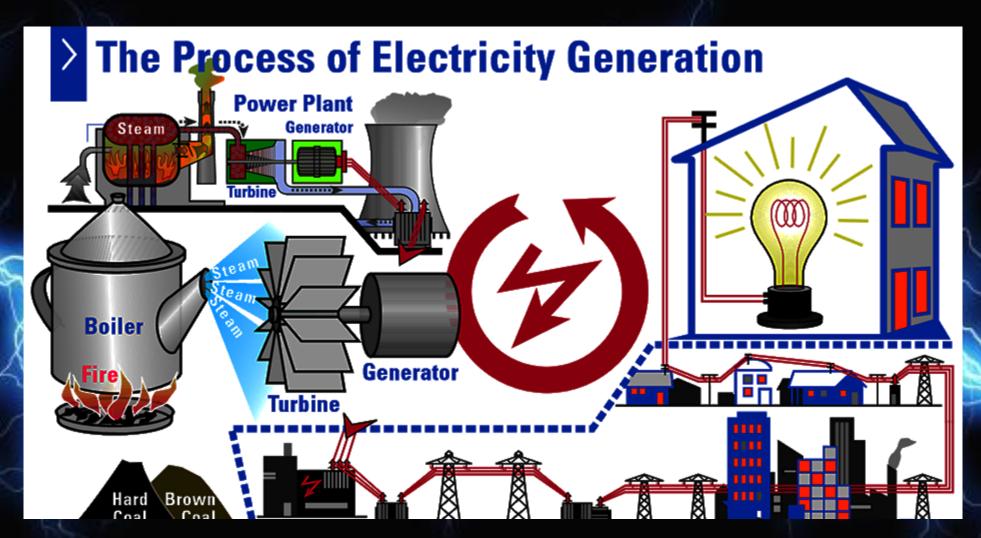


There will be 5 Key Topics Covered

- Traditional Non- renewable Energy Sources
- Renewable and Alternative Energy sources
- Technological Advancements and Transition Challenges
- Changing roles and responsibilities in the making energy decisions
- Vulnerabilities and Opportunities



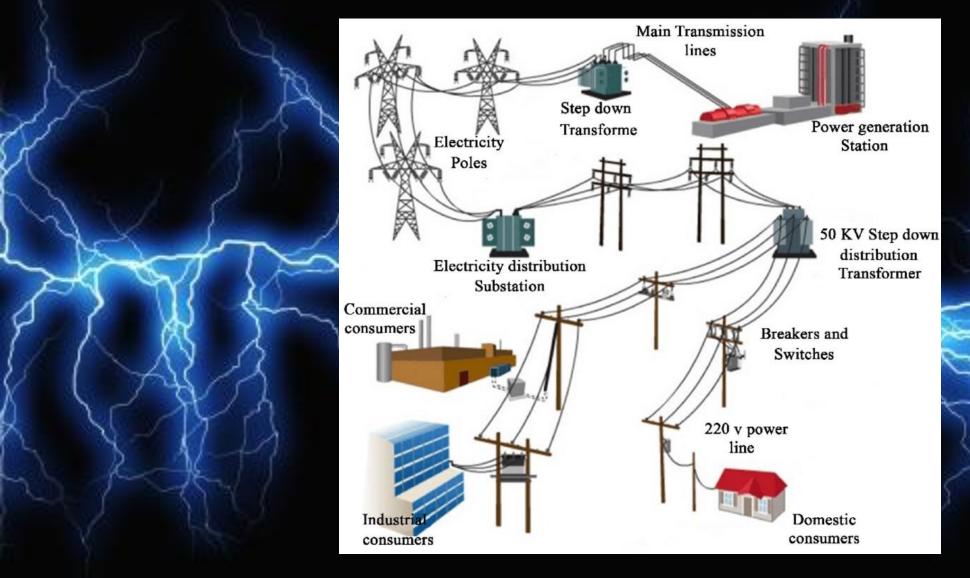
1. Explain how Oil, Natural Gas and Coal Systems Generate Electricity and Potential Issues with Expanding production to meet future needs.



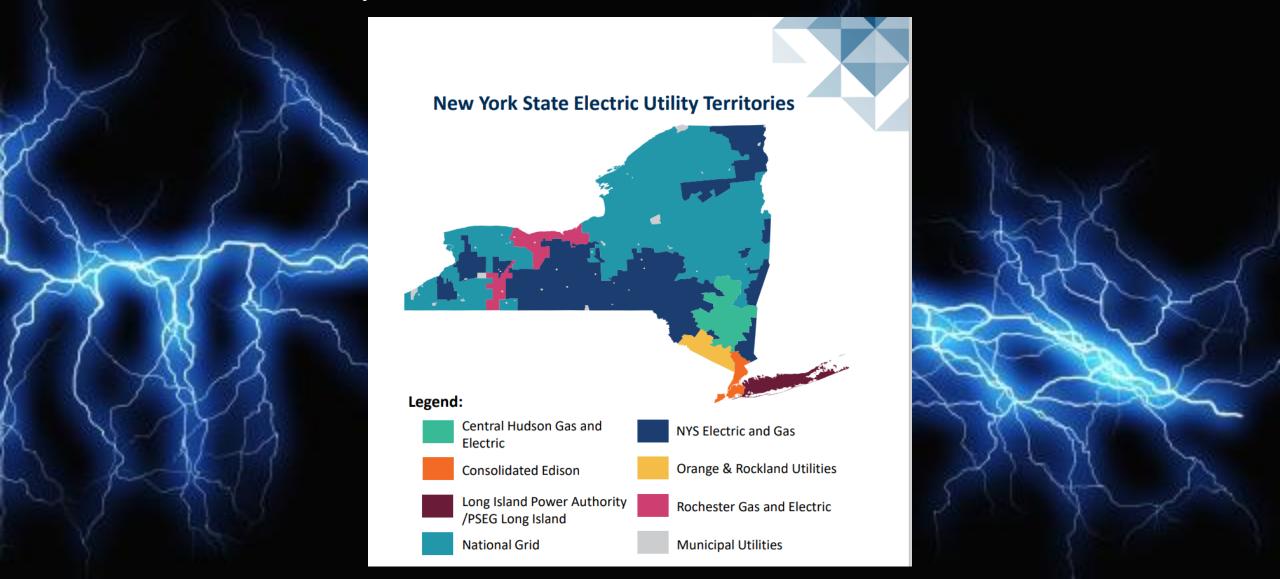
Identify the environmental, social, and economic, advantages and disadvantages of each source, including short-term impacts.

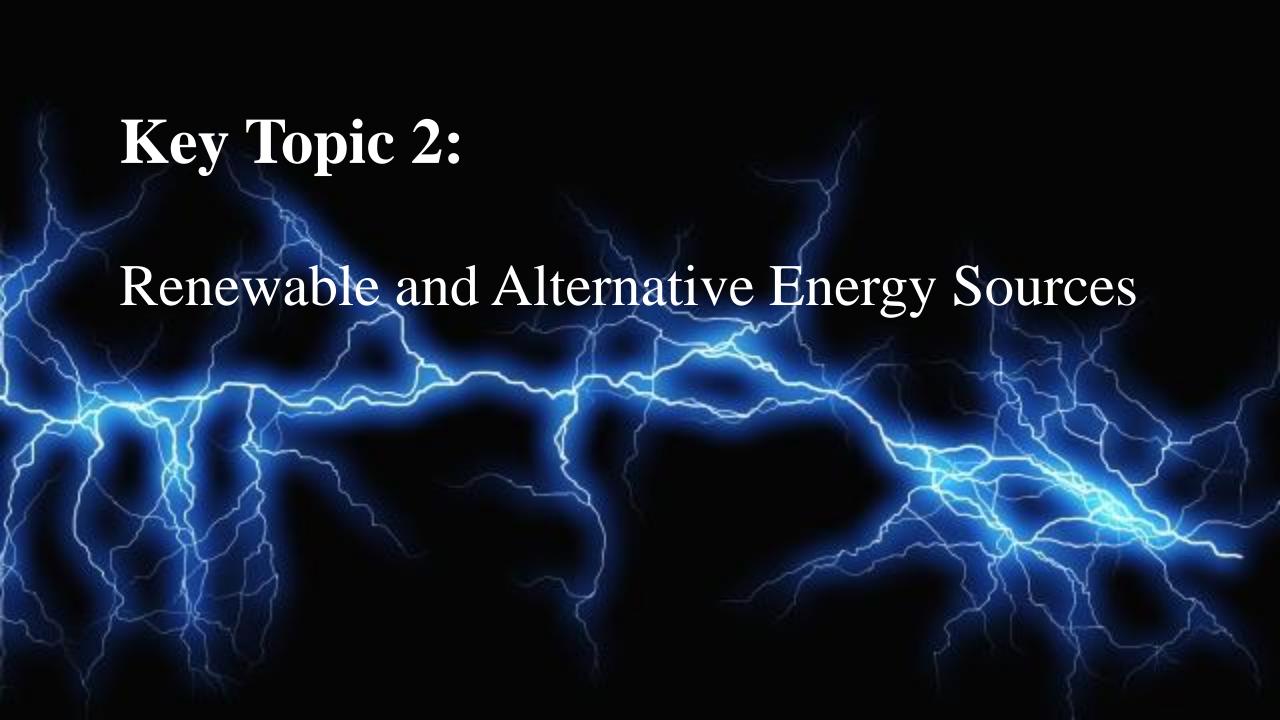


3. Explain the setup and design of traditional energy infrastructure and distribution systems.

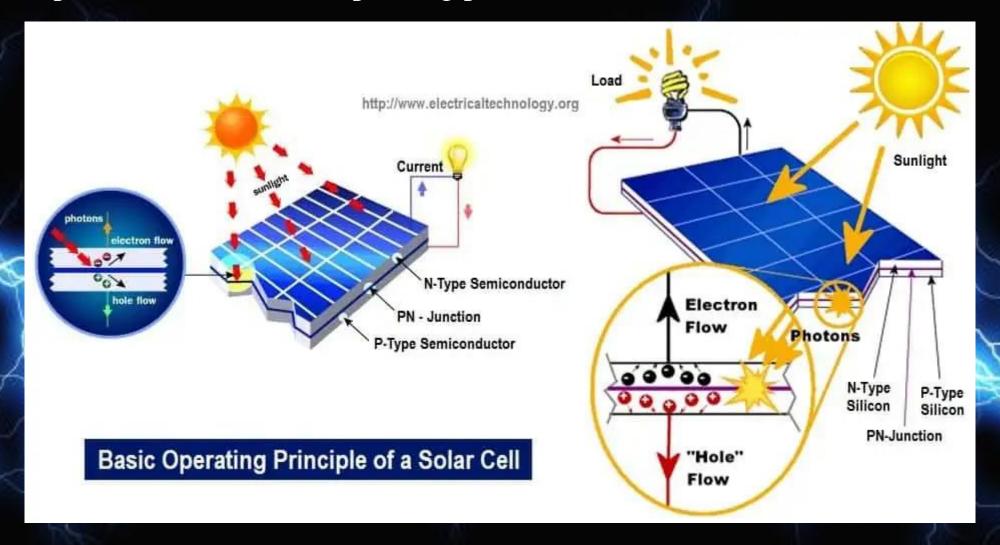


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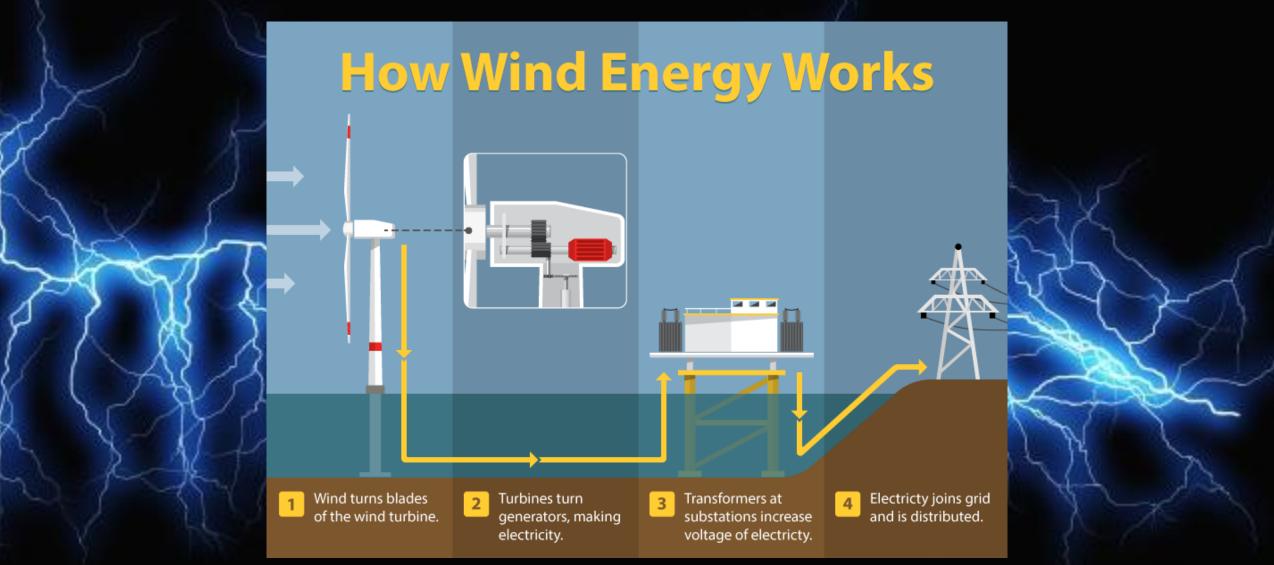




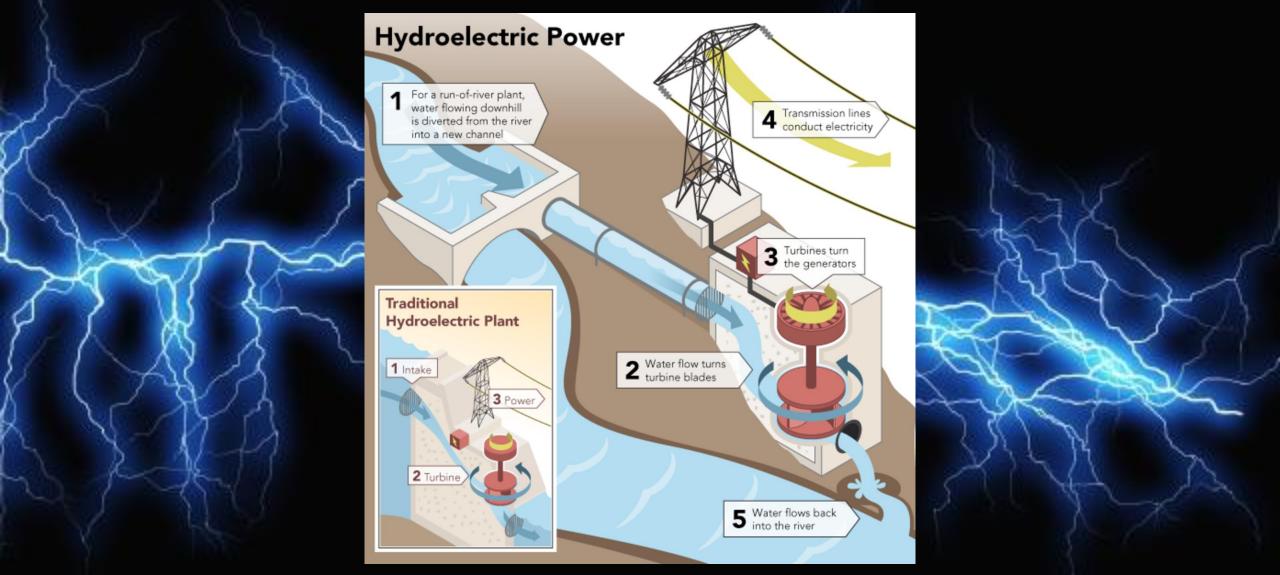
4. Explain how Solar, Wind and Hydroelectric systems generate electricity and potential issues with expanding production to meet future needs.



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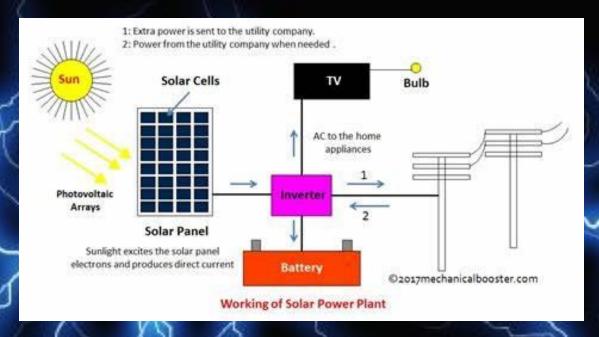
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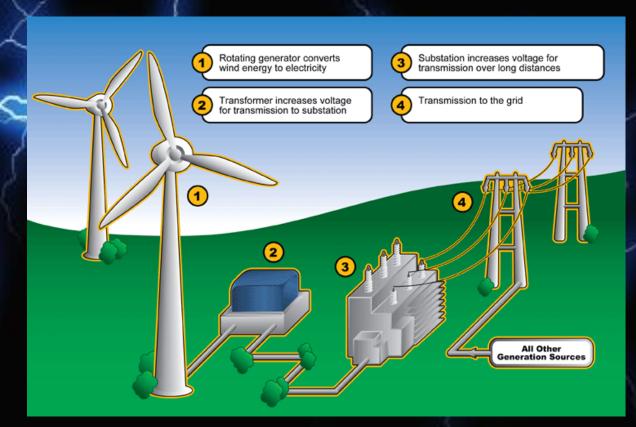


5. Identify the environmental, social, and economic advantages and disadvantages of each source, including short-term and long-term impacts.



6. Explain the setup and design of renewable/alternative energy infrastructure and distribution systems.



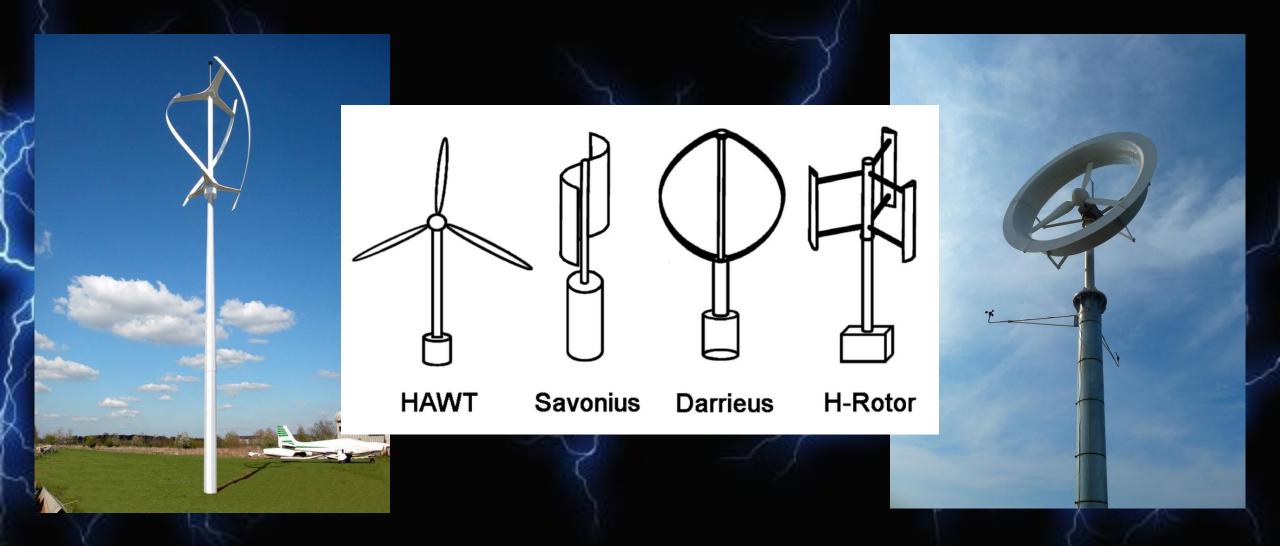




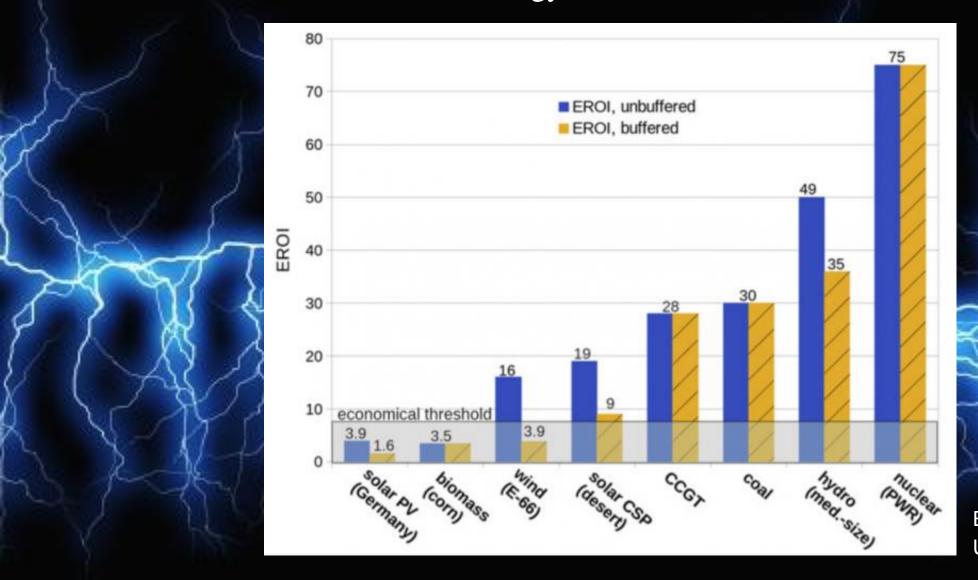
7. Describe recent technological advancements within the solar, wind and hydroelectric energy fields including infrastructure and distribution systems.



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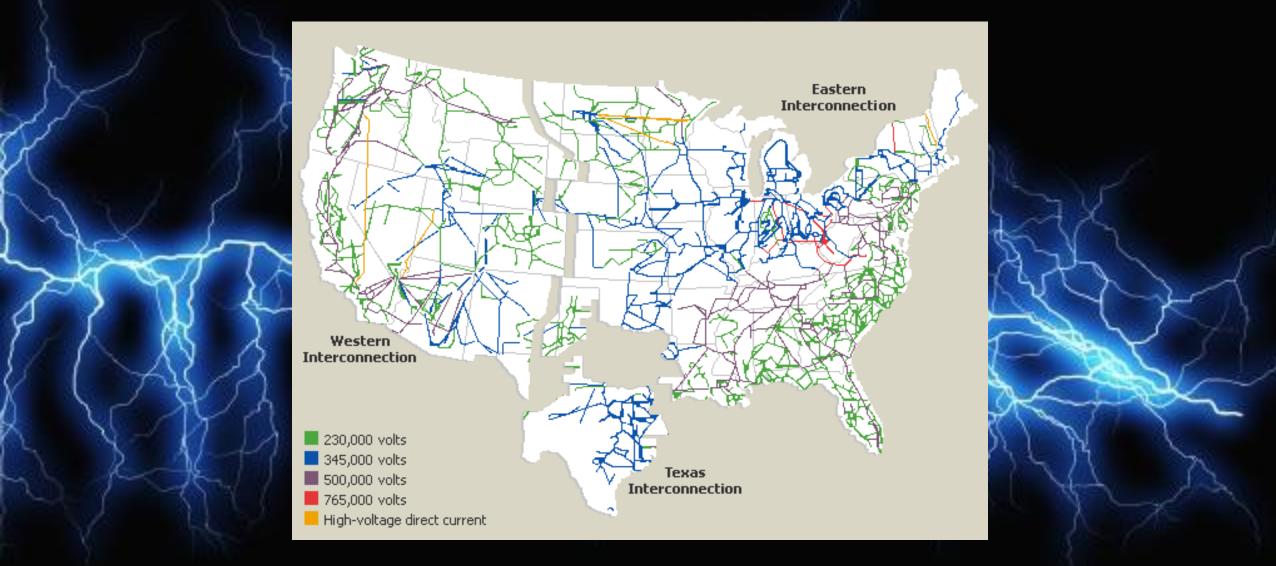


8. Describe the challenges associated with transitioning to renewable/alternative energy sources.

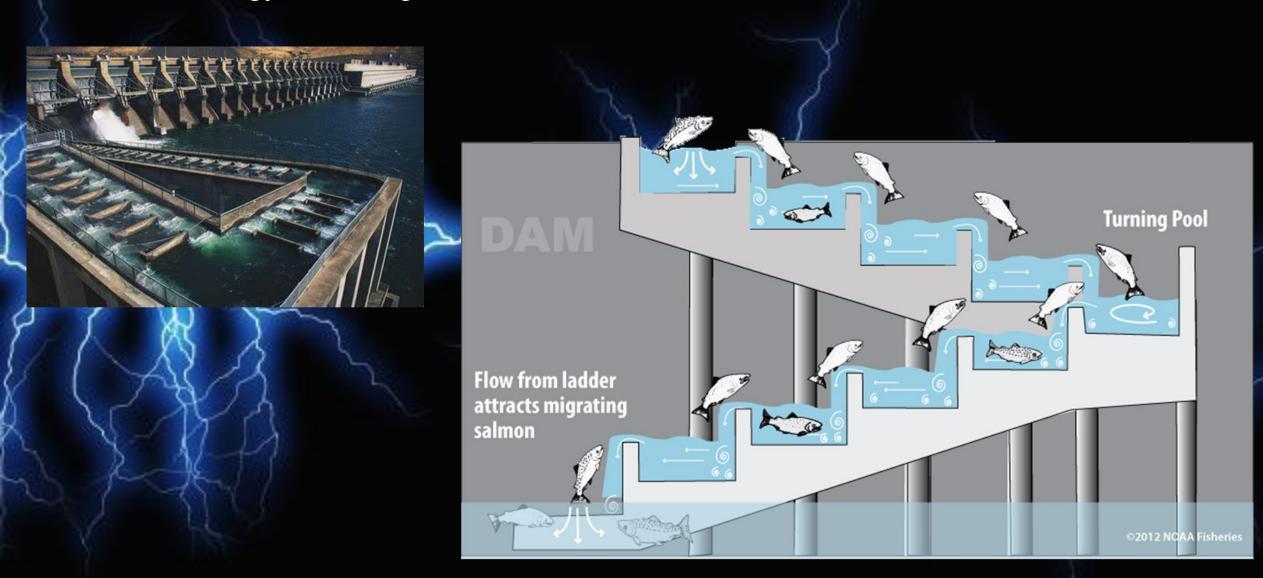




8. Describe the challenges associated with transitioning to renewable/alternative energy sources.



9. Identify solutions to the challenges associated with renewable/alternative energy, including environmental, social, and economic incentives.



Key Topic 4:

Changing roles and responsibilities in making energy decisions

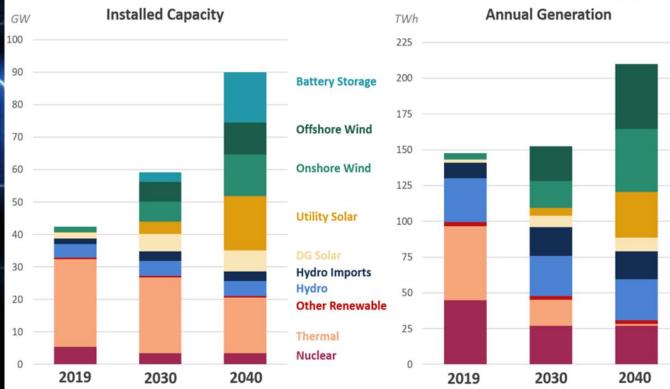
10. Describe how energy regulations are created at the local, state/provincial, and international levels and how these regulations impact producers and consumers.



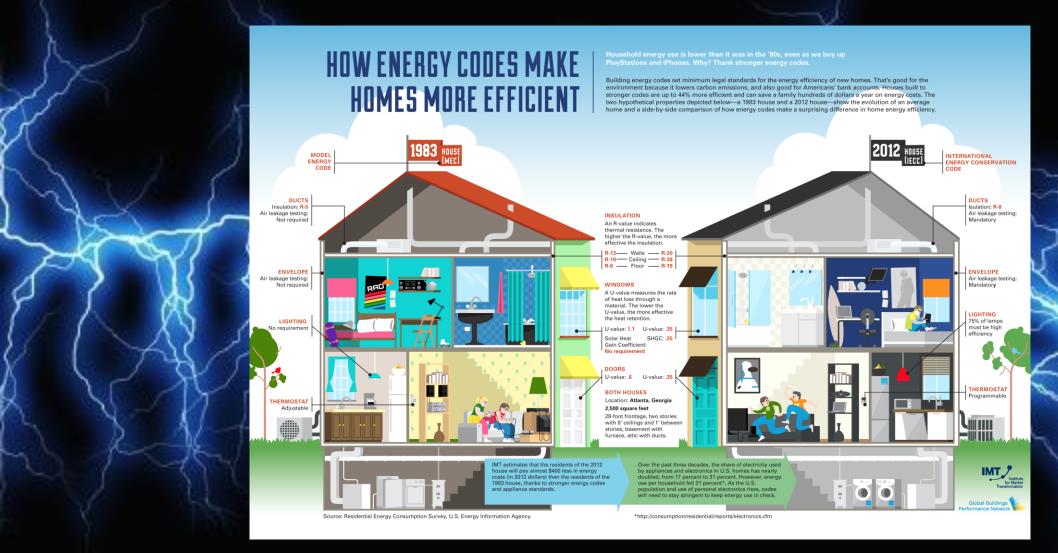
Initial Scenario: Capacity and Generation by Technology

OPPORTUNITY.

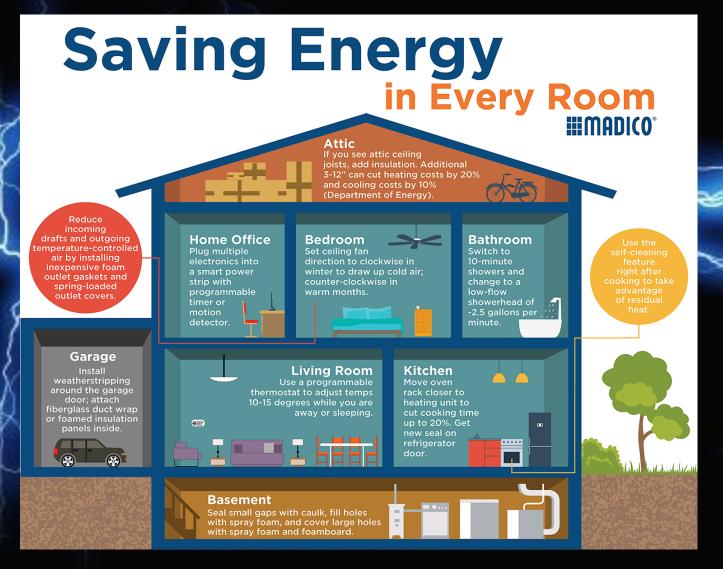
Department of Public Service



10. Describe how energy regulations are created at the local, state/provincial, and international levels and how these regulations impact producers and consumers.



11. Identify what energy use decisions can be made on an individual/household level.









1 CLEAN THE BACK OF THE FRIDGE FOR MAXIMUM EFFICIENCY



2 REPLACE THE A/C FILTER EVERY 30 DAYS



3 CLEAN THE DRYER VENT HOSE



INSTALL A
PROGRAMMABLE
THERMOSTAT



5 CLOSE CLOSET/ROOM DOORS TO AVOID HEATING AND COOLING UNUSED SPACE



6 REPLACE REGULAR BULBS FOR LED LIGHT BULBS



7 LOWER WATER HEATER TEMPERATURE



8 ADD INSULATION OR RADIENT SHIELD TO YOUR ATTIC



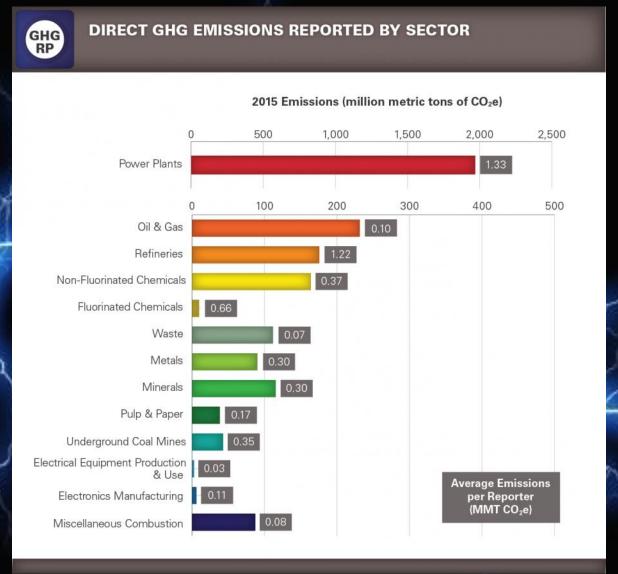
UNPLUG UNUSED ELECTRIC DEVICES



10 USE BLINDS OR CURTAINS TO ELIMINATE SOLAR HEAT IN THE SUMMER

Explain the accountability process for pollution/emissions related to energy generation and distribution at the local, state/provincial, and international levels.



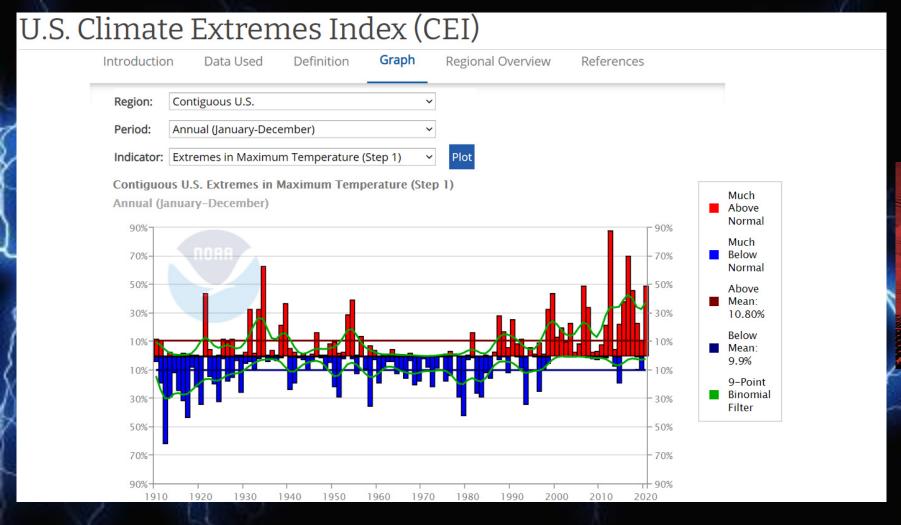


13. Describe how financial incentive programs work in the green energy space and explain the socioeconomic and environmental impacts of carbon offset credits, renewable energy credits, and other trade-off programs.

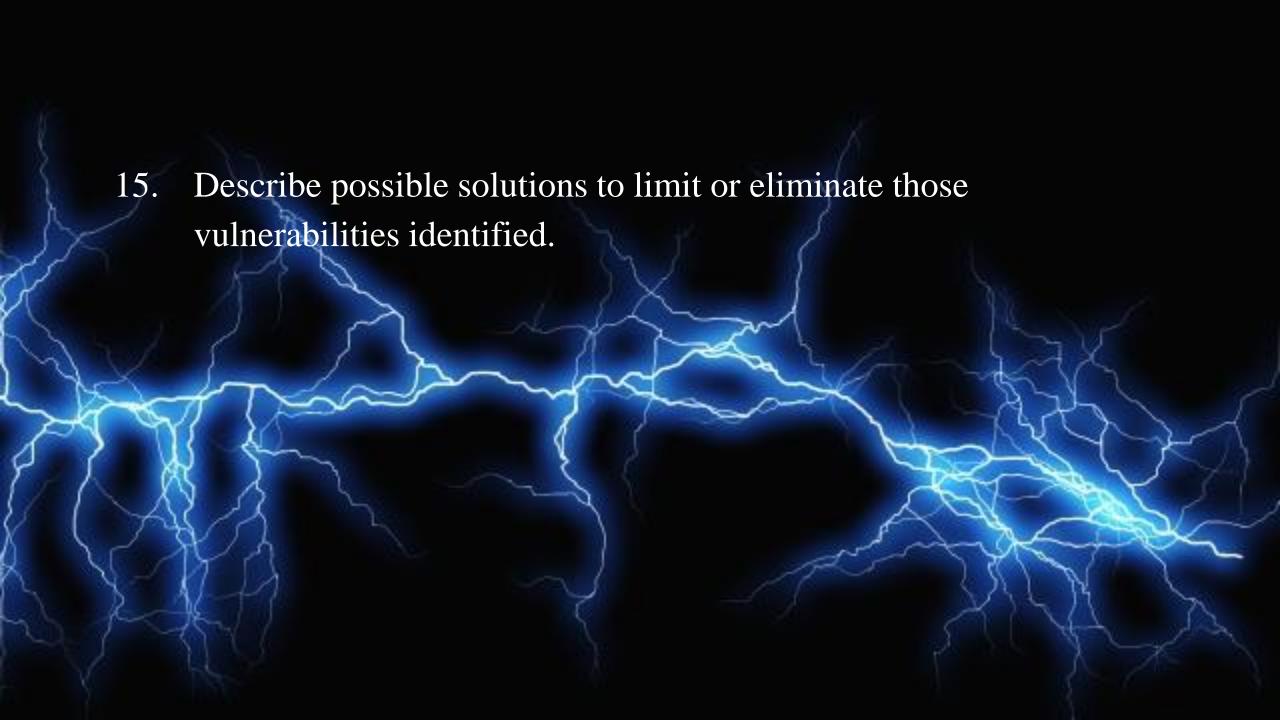




14. Identify vulnerabilities inherent with an increased demand for alternative energy sources: (such as weather conditions, Solar flares, human disruption).











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