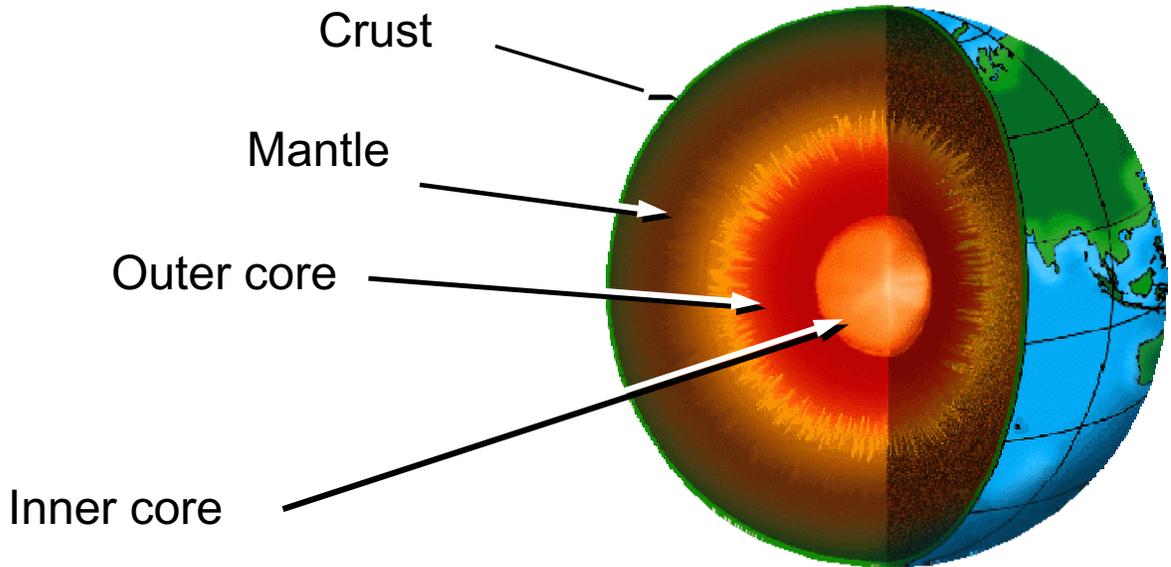
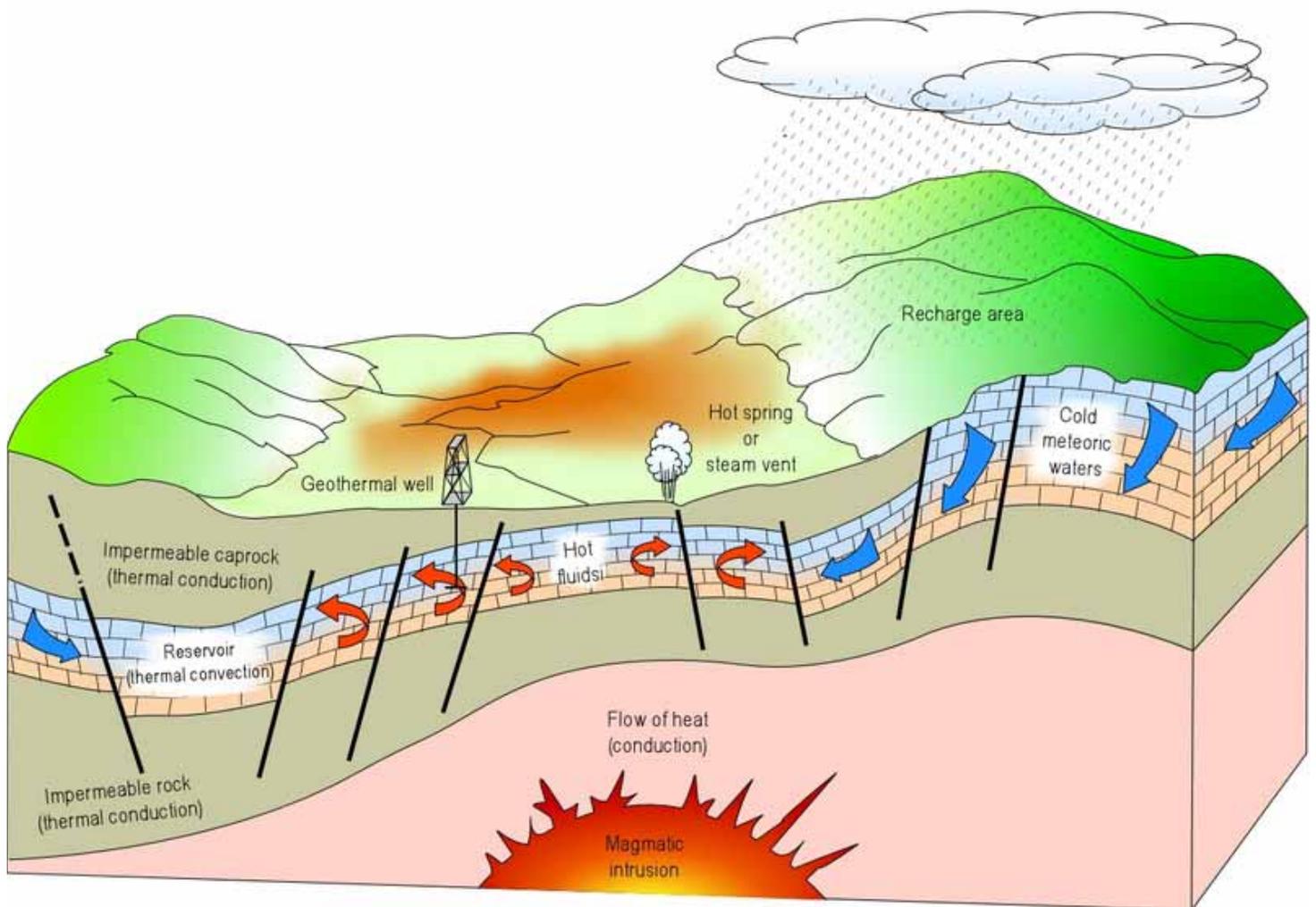


What are Geothermal Resources?

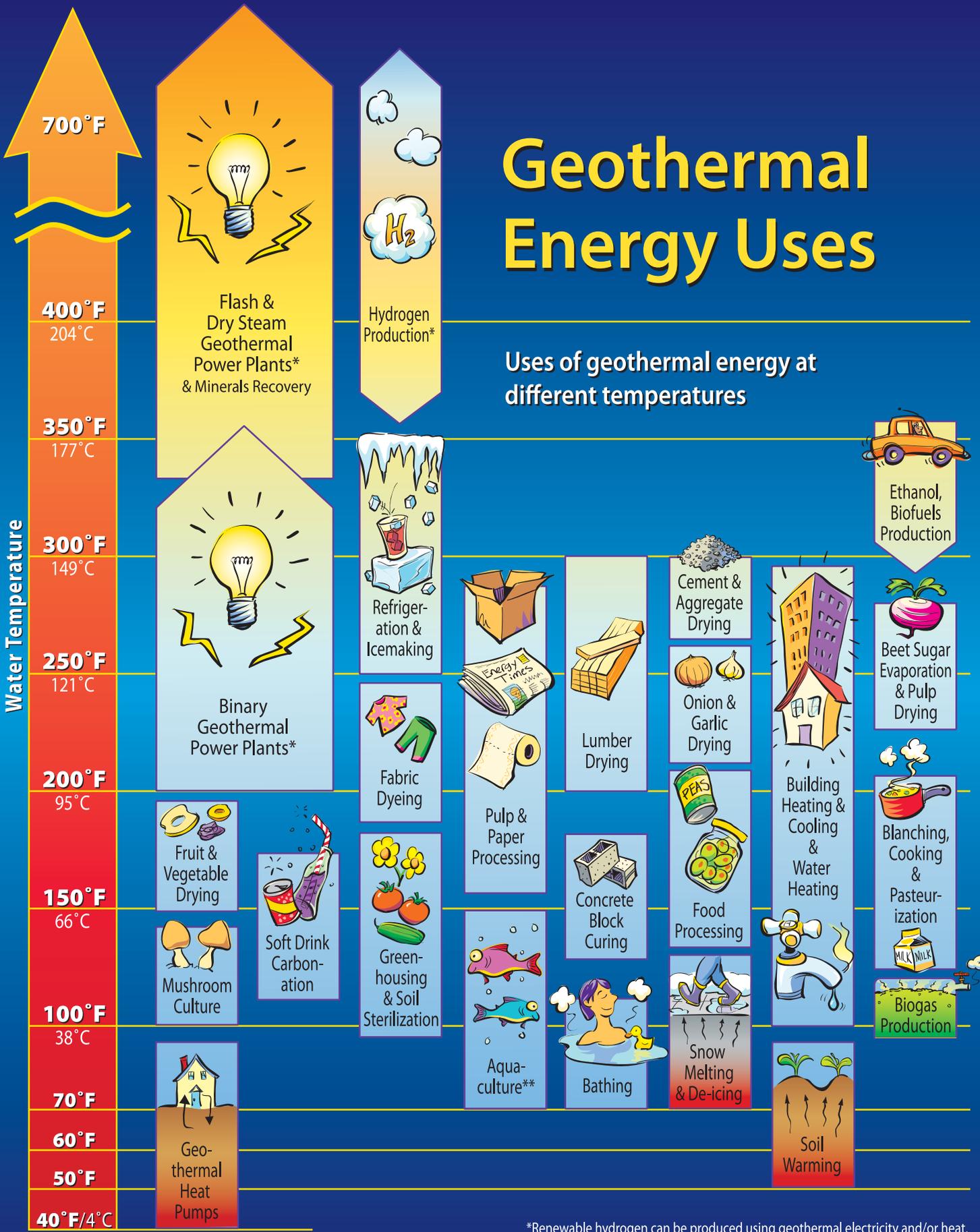


Heat flows outward from Earth's interior. The crust insulates us from Earth's interior heat. The mantle is semi-solid and semi-molten rock, the outer core is liquid, and the inner core is solid.

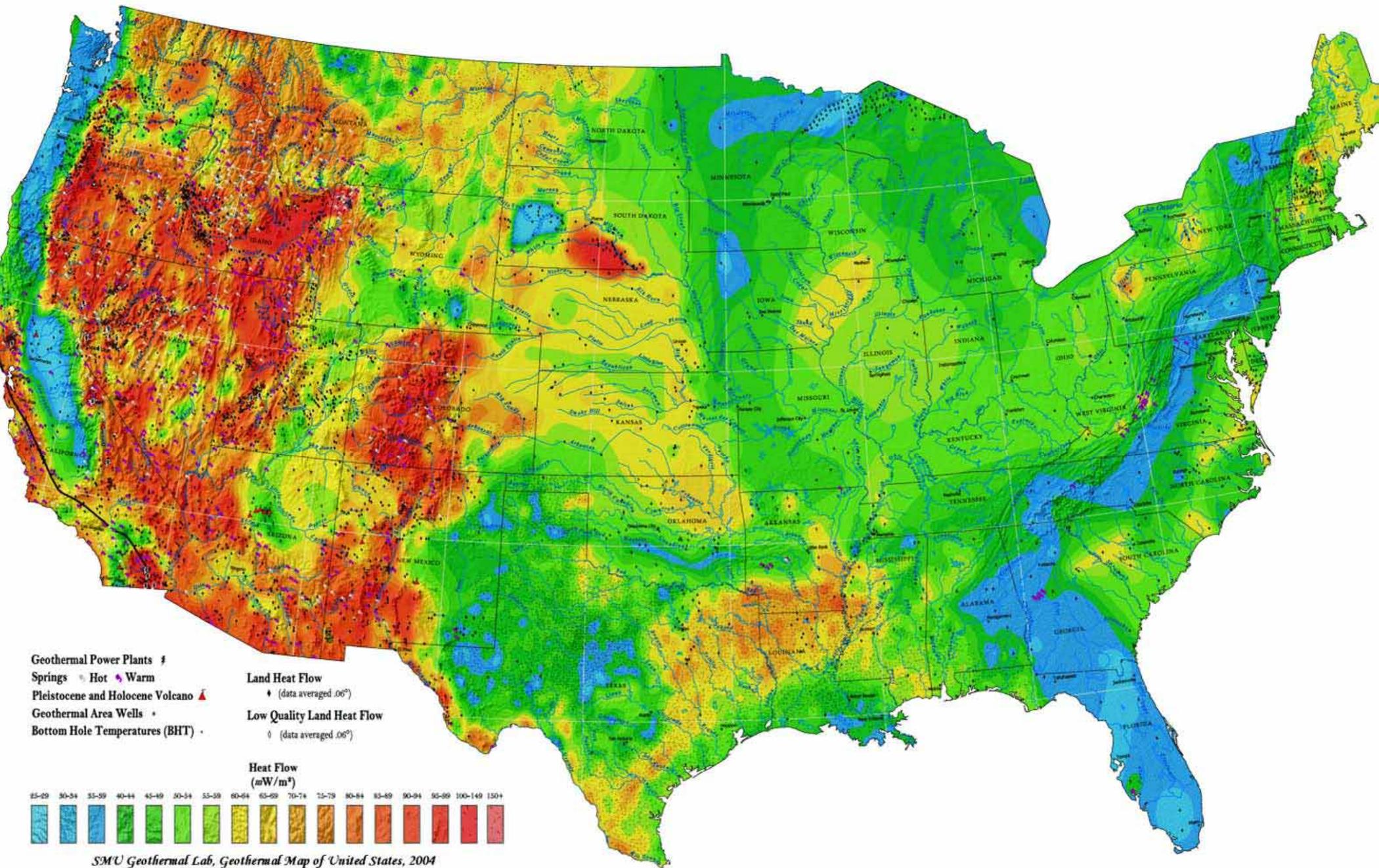


Geothermal Energy Uses

Uses of geothermal energy at different temperatures



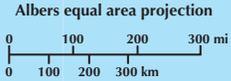
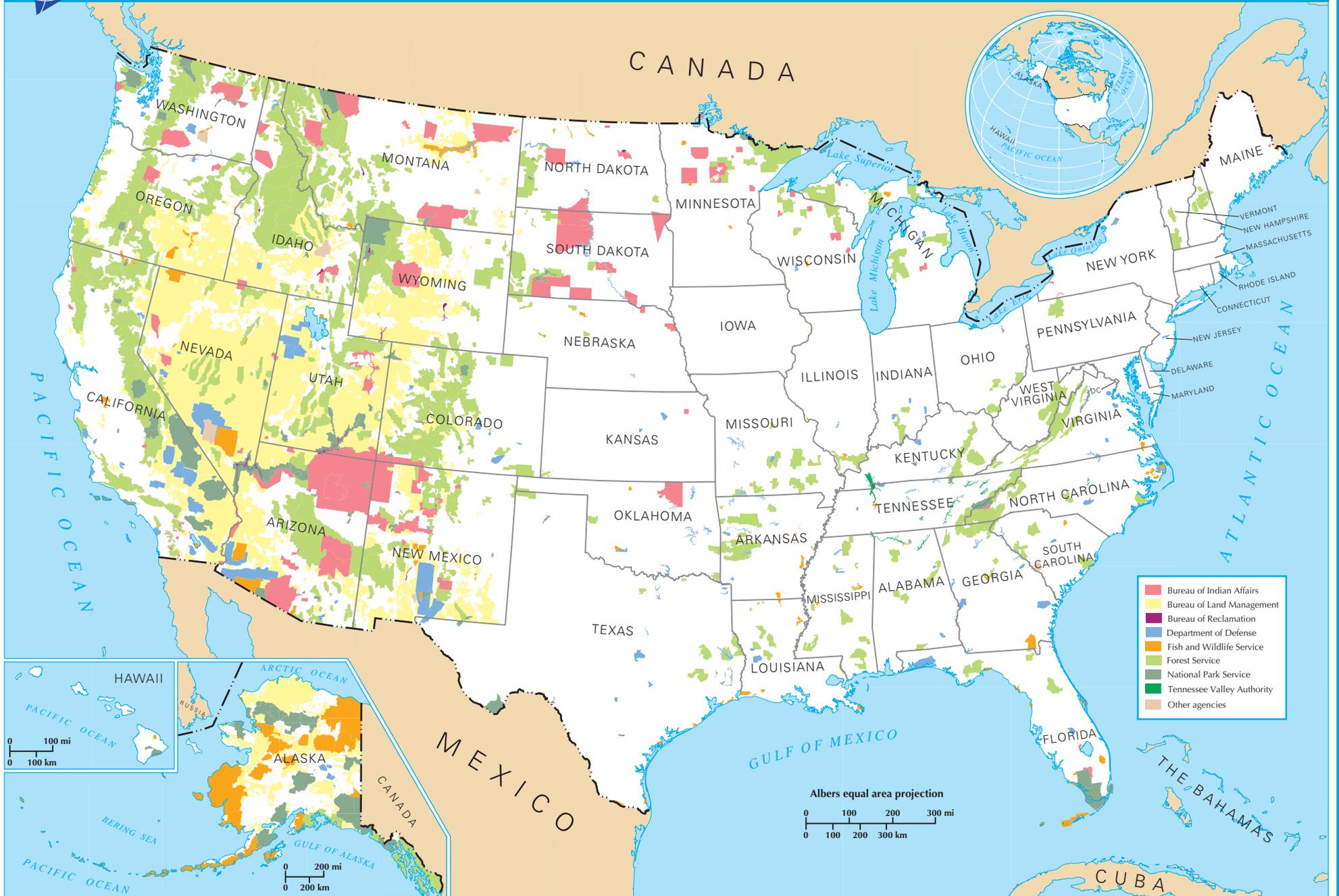
*Renewable hydrogen can be produced using geothermal electricity and/or heat.
 **Cool water is added as needed to make the temperature just right for the fish.



SMU Geothermal Lab, Geothermal Map of United States, 2004



FEDERAL LANDS AND INDIAN RESERVATIONS



GEOTHERMAL RESOURCES LEASING PEIS THE NEPA PROCESS

What is NEPA?

The National Environmental Policy Act of 1969



What is the NEPA process & why do it for this project?

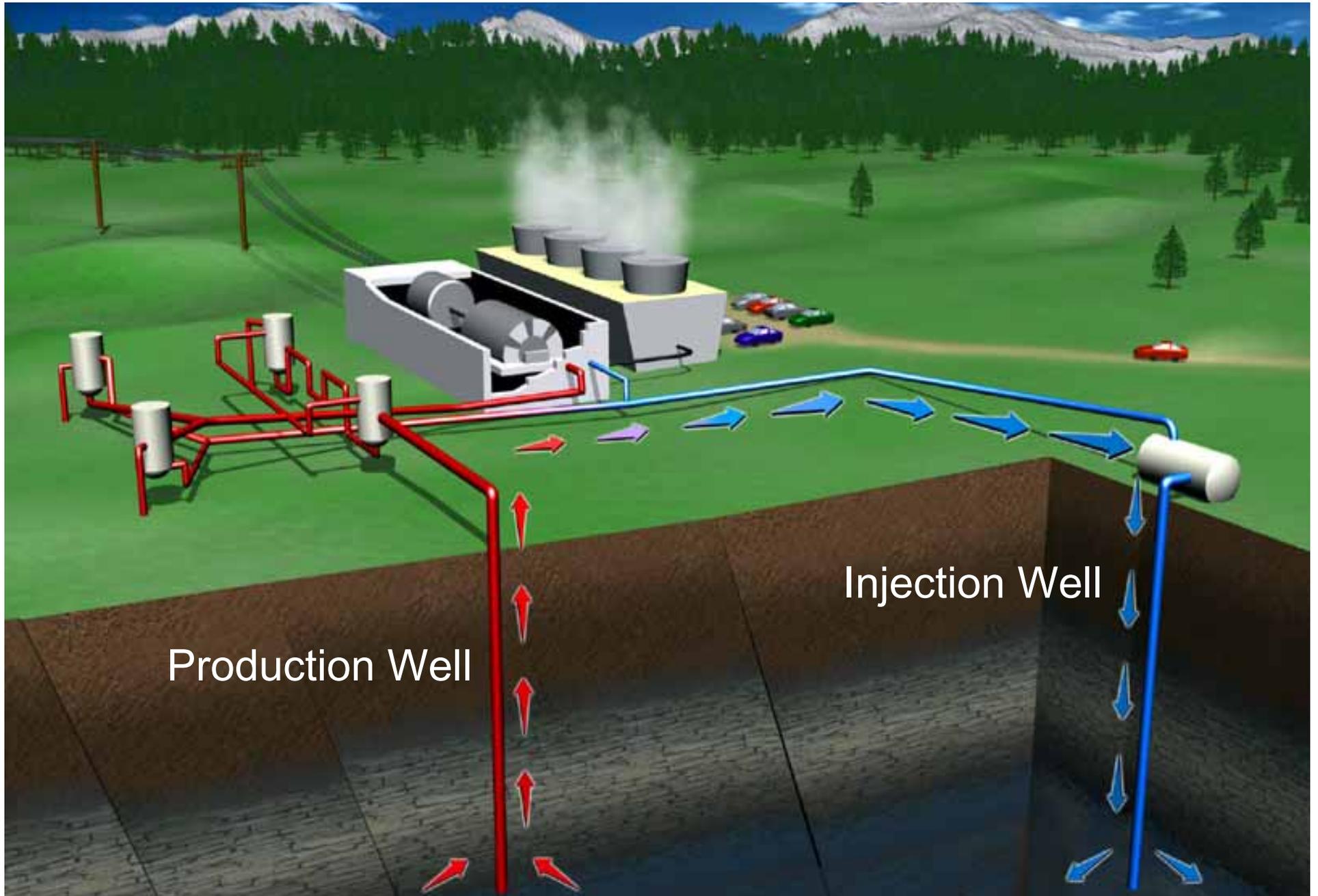
- Documents possible environmental effects
- Elicits public input and feedback on the project
- Required when federal activity or funding are involved
- Provides a logical framework for developing project implementation plans

Steps to Fulfill NEPA

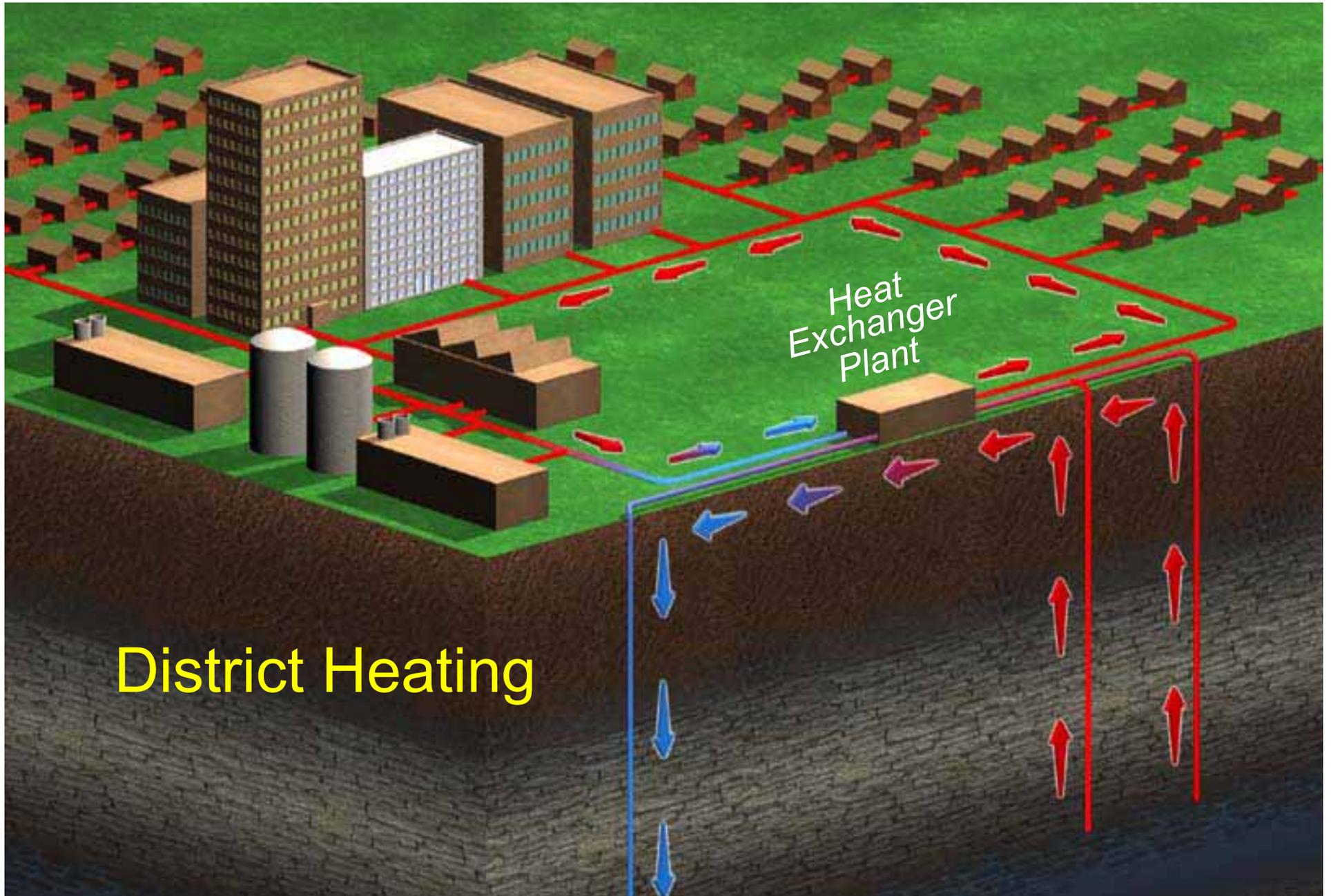
Steps to Fulfill NEPA								
1. Public Scoping of Issues and Alternatives	2. Prepare Draft EIS	3. Public Review of Draft EIS	4. Final EIS	5. Record of Decision (ROD)				
<ul style="list-style-type: none"> • Inform Public of Intent to Conduct Project • Conduct Open Houses • Collect Comments 	→	<ul style="list-style-type: none"> • Analyze Comments • Develop Alternatives • Collect Data • Analyze Impacts • Prepare Document 	→	<ul style="list-style-type: none"> • Inform Public of EIS Availability • Conduct Public Meetings • Collect Comments 	→	<ul style="list-style-type: none"> • Address Comments • Identify Alternatives with Least Impacts • Recommend Actions 	→	<ul style="list-style-type: none"> • Implement action

Other Environmental Laws that Must be Complied with During the Planning Process Include...

- | | |
|--|--|
| <ul style="list-style-type: none"> • Endangered Species Act • Fish and Wildlife Coordination Act • Clean Water Act • Clean Air Act | <ul style="list-style-type: none"> • Executive Orders (ex. Environmental Justice, Tribal Consultation) • Native American Graves Protection and Repatriation Act • Farmlands Protection Policy Act • National Historic Preservation Act |
|--|--|



Indirect Use: Electricity Generation



District Heating

Direct Use: Heating