

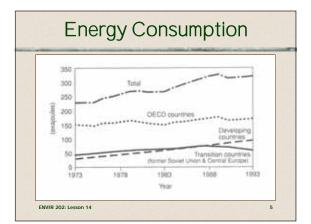
Lesson Overview	
 ❖ Energy ➤ Generation ➤ Distribution ➤ Consumption ➤ Health Effects ❖ Case Example: MTBE ❖ Course Paper 	
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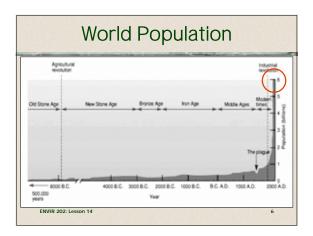
Human Energy Needs ❖ Basic human needs ➤ Heat, Light, Cooking ❖ Agriculture ➤ Irrigation, mechanization ❖ Urbanization ➤ Basic services ❖ Transportation ❖ Industrial Production

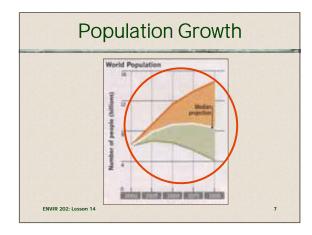
Energy Risks

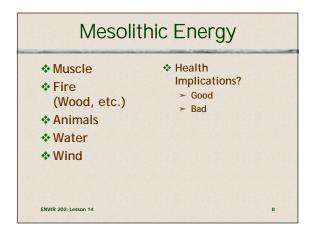
- Material acquisition and construction
- Emissions from material acquisition and production
- Operation and maintenance
- Energy back-up systems
- Energy storage systems
- Transportation
- ❖ Waste Management

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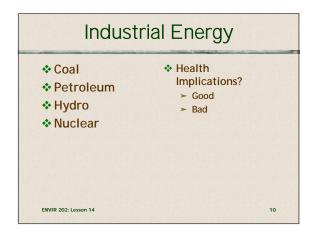


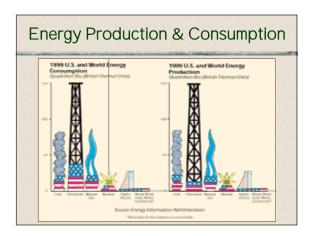


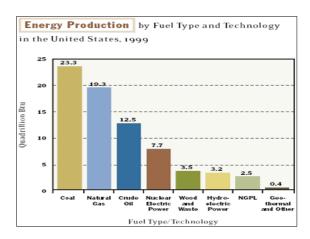


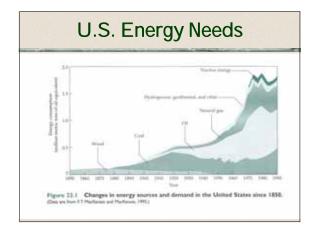


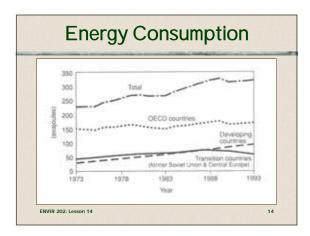
Early Industrial Energy				
◆ Water◆ Steam◆ Coal◆ Oil◆ Natural Gas	 Health Implications? Good Bad			
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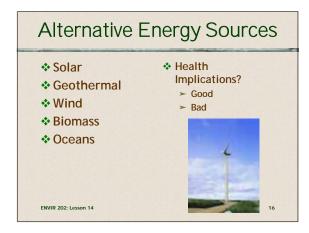






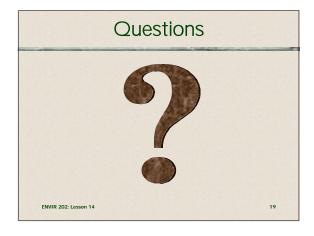












Course Paper				
 General Outline: The class will select a topic from a limited list Each student will pick a diff stakeholder group to repre paper 	ferent			
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Potential Topics *Genetically modified foods *Vermiculite mining, Libby Montana *Norovirus on cruise ships

Stakeholders

- Protagonist
- ◆ "Victim"
- Government
- Citizen's Group
- Trade Association

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For Example: PVC

- Protagonist
 - E.g., Manufacturer of vinyl chloride, B.F. Goodridge, Louisville, Kentucky.
- "Victim"
- ➤ Workers in the B.F. Goodridge PVC plant
- Government
 - ➤ OSHA
- Citizen's Group
 - ➤ Louisville PTA
- Trade Association
 - ➤ Chemical Manufacturers Association

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Paper Contents

- Identify who you are, i.e., your name and the stakeholder group you are representing.
- Describe the problem from the perspective of your stakeholder group.
- Present the argument(s) of your stakeholder group.
 - Be sure to support your arguments with evidence data, facts, opinions of experts, etc.
- Step back from your stakeholder's position and critically assess their argument.
 - What are the strengths of their position? What are the weaknesses?

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ENVIR 20	2: Popula	ation &	Heal	th
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Mechanics

- The papers should be 10-15 pages in length, including references and bibliography.
- Text should be double spaced.
- Cover page, stapled in the upper left hand corner - no covers, binders, etc...
- Graphics are encouraged, but be sure to properly reference them.
- Bibliogrpahy and references use any accepted style manual (Chicago, MLA, etc.). But be consistent!

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