

## National Energy Education Development (NEED.org) Information Sheets

The Infobooks are very good. CT Energy Education suggests using the Intermediate level books for lower level readers or for more superficial coverage of a topic. For more comprehensive coverage, facts and technologies, use the Secondary Infosheets.

### **Intermediate Infobooks**

#### **Energy: General Information**

Intro to Energy: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/IntroI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/IntroI.pdf)

Energy Consumption: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/ConsI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/ConsI.pdf)

Electricity: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/Elec1I.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/Elec1I.pdf)

History of Electricity: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/Elec3I.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/Elec3I.pdf)

Energy Efficiency: <http://www.need.org/needpdf/EfficiencyI.pdf>

Lighting: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/LightI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/LightI.pdf)

Measuring Electricity: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/Elec2I.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/Elec2I.pdf)

Greenhouse Effect: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/GreenI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/GreenI.pdf)

#### **Fossil Fuels and Nuclear**

Petroleum : [http://www.need.org/needpdf/infobook\\_activities/IntInfo/PetroI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/PetroI.pdf)

Coal: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/CoalI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/CoalI.pdf)

Natural Gas: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/NGasI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/NGasI.pdf)

Propane: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/PropaneI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/PropaneI.pdf)

Uranium: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/UraniumI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/UraniumI.pdf)

#### **Renewables**

Biomass: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/BiomassI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/BiomassI.pdf)

Solar: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/SolarI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/SolarI.pdf)

Hydrogen: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/HydrogenI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/HydrogenI.pdf)

Hydropower: [http://www.need.org/needpdf/infobook\\_activities/IntInfo/HydroI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/HydroI.pdf)

Wind : [http://www.need.org/needpdf/infobook\\_activities/IntInfo/WindI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/WindI.pdf)

Geothermal:

[http://www.need.org/needpdf/infobook\\_activities/IntInfo/GeothermalI.pdf](http://www.need.org/needpdf/infobook_activities/IntInfo/GeothermalI.pdf)

## Secondary Info books

### Energy General Information

History of Electricity: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/Elec2S.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/Elec2S.pdf)  
Global Climate Change: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/GlobalS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/GlobalS.pdf)  
Lighting: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/LightS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/LightS.pdf)  
Measuring Electricity: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/Elec3S.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/Elec3S.pdf)  
Energy Consumption: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/ConsS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/ConsS.pdf)  
Energy Efficiency: <http://www.need.org/needpdf/EfficiencyS.pdf>  
Electricity: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/Elec1S.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/Elec1S.pdf)  
Intro to Energy: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/IntroS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/IntroS.pdf)

### Fossil Fuels and Nuclear

Petroleum: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/PetroS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/PetroS.pdf)  
Coal: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/CoalS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/CoalS.pdf)  
Natural Gas: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/NGasS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/NGasS.pdf)  
Propane: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/PropaneS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/PropaneS.pdf)  
  
Uranium: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/UraniumS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/UraniumS.pdf)

### Renewables

Biomass: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/BiomassS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/BiomassS.pdf)  
Solar: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/SolarS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/SolarS.pdf)  
Hydrogen: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/HydrogenS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/HydrogenS.pdf)  
Hydropower: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/HydroS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/HydroS.pdf)  
Wind : [http://www.need.org/needpdf/infobook\\_activities/SecInfo/WindS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/WindS.pdf)  
Geothermal: [http://www.need.org/needpdf/infobook\\_activities/SecInfo/GeothermalS.pdf](http://www.need.org/needpdf/infobook_activities/SecInfo/GeothermalS.pdf)

## Secondary Activity Sheets

**Forms of Energy** (fill in the blank worksheet)

[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SForms.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SForms.pdf)

**Sources of Energy**, Advantages and Disadvantages (2 part, 5 pages for Sources 1. Short answer sheet for students to use with the energy info sheets and 3 worksheets in Sources 2)

[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SSources1.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SSources1.pdf)

[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SSources2.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SSources2.pdf)

**Electricity Worksheets-** Electricity fill in the blank, and Electric Generation  
[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SElec1.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SElec1.pdf)

Electricity Crossword, Famous Names in Electricity, Electric Math  
[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SElec2.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SElec2.pdf)

Transporting Electricity, Measuring Electricity  
[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/SElec3.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/SElec3.pdf)

Teacher Guide and Answer Key  
[http://www.need.org/needpdf/infobook\\_activities/SecondaryActivities/STeacher.pdf](http://www.need.org/needpdf/infobook_activities/SecondaryActivities/STeacher.pdf)

### **Energy Rounds**

Cards (30 per set) to be used in a classroom energy conversation. Print off 2 copies, cut one set for the cards and keep one as the progressive answer key.

Transportation in the Round:  
<http://www.need.org/needpdf/EnergyRounds/TransportationintheRound.pdf>

Solar in the Round: <http://www.need.org/needpdf/EnergyRounds/SolarintheRound.pdf>

Energy Forms in the Round: <http://www.need.org/needpdf/EnergyRounds/FormsintheRound.pdf>

Energy in the Round: <http://www.need.org/needpdf/EnergyRounds/EnergyintheRound1.pdf>

Conservation in the Round:  
<http://www.need.org/needpdf/EnergyRounds/ConservationintheRound.pdf>

**Printable Energy Graphics:** <http://www.need.org/TransparentGraphics/>  
Transportation Fuels: The Future is Today: 2-5 day lesson set  
<http://www.need.org/needpdf/AlternativeFuels.pdf>

### **Secondary Solar Energy Guides**

Teacher Guide: <http://www.need.org/needpdf/secondarysolarteacher.pdf>  
Student Guide: <http://www.need.org/needpdf/secondarysolarstudent.pdf>

### **Schools Going Solar**

Activities for schools with solar installations <http://www.need.org/needpdf/schoolsgoingsolar.pdf>

**Energy Geography:** 27 pages of maps and energy resources by location, including population, energy consumption, production, generation, and resources. May be copied to transparencies.  
<http://www.need.org/needpdf/Geography.pdf>