





## Meeting Energy Needs — Optimization Worksheet

### Instructions

Please fill in the chart below with what you think is the best *source* of energy for each energy *need*. Different needs can be met with different sources, so think carefully about the best option for each need. For each type of need, you may use the same source or a combination of different sources — the decision is up to you.

<p><b>Need:</b> Cooking  <b>Options:</b> coal, biomass, LPG, biodigester, solar power  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>	<p><b>Need:</b> Cooking  <b>Options:</b> coal, biomass, LPG, biodigester, solar power  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>
<p><b>Need:</b> Cooking  <b>Options:</b> coal, biomass, LPG, biodigester, solar power  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>	<p><b>Need:</b> Heating  <b>Options:</b> coal, biomass, LPG, geothermal  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>
<p><b>Need:</b> Heating  <b>Options:</b> coal, biomass, LPG, geothermal  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>	<p><b>Need:</b> Heating  <b>Options:</b> coal, biomass, LPG, geothermal  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>
<p><b>Need:</b> Lights and other electricity  <b>Options:</b> coal, hydropower, solar power, wind, biodigester  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>	<p><b>Need:</b> Lights and other electricity  <b>Options:</b> coal, hydropower, solar power, wind, biodigester  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>
<p><b>Need:</b> Hot water  <b>Options:</b> coal, biomass, LPG, solar hot water, biodigester  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>	<p><b>Need:</b> Hot water  <b>Options:</b> coal, biomass, LPG, solar hot water, biodigester  <b>Choice:</b> _____  <b>Emissions:</b> _____  <b>Cost:</b> _____</p>

Energy Source	Cost (\$)	Emissions
<b>coal</b> 	100	500
<b>biomass</b> 	0	300
<b>LPG</b> 	200	200
<b>biodigester</b> 	100	50
<b>geothermal</b> 	500	0
<b>hydropower</b> 	50	100
<b>solar power</b> 	400	0
<b>wind</b> 	100	0
<b>solar hot water</b> 	50	0

