

## Reference Sheet 1

Input energy source	Efficiency when converted to electricity	Advantages	Disadvantages
Solar energy	15%	Inexhaustible source	Need a large surface area. Not effective in areas with large percent cloud cover.
Hydro	80%	Inexhaustible source	Impacts the ability of fish to travel up or downstream. A dam is typically required.
Wind	30%	Inexhaustible source	Need constant winds of at least 12mph.
Natural Gas	30%	Readily available	Produces air pollution and gases that add to the green house effect. Drilling impacts the land.
Coal	30%	Readily available	Produces air pollution and gases that add to the green house effect. Mining impacts the land. Sulfur emissions create acid rain.
Oil	30%	Readily available	Produces air pollution and gases that add to the green house effect. Drilling impacts the land. Sulfur emissions create acid rain.