

Name: _____ Period: ____ Date: _____

Environmental Science

#10-2: The Wedges Game

In this activity, you will play The Wedges Game that we saw in the “NOVA: Power Surge” video. The goal is to reduce total fossil fuel emissions by eight billion tons per year within the next fifty years. Try to pick a variety of strategies that will satisfy the most stakeholder groups without costing too much!

- I. Record your strategies in the table below using eight wedges.
- 1 “wedge” = 1 billion tons of carbon per year that we can avoid emitting
 - you may use a strategy (wedge) more than once, but no fractions!
 - you may use a maximum of:
 - 6 electricity wedges (E) ⚡
 - 5 transportation wedges (T) 🚗
 - 5 heat or fuel use wedges (H) 🏠
 - you must justify the selection of each wedge in the table by explaining why you chose it

#	Strategy	Sector				Cost (\$)	Justification (why is this strategy a good idea?)
		E	T	H	B		
1							
2							
3							
4							
5							
6							
7							
8							
TOTALS							

- II. Predict the score each group would give this overall strategy on a scale of 1 to 10 (10 = happiest).

Stakeholder group	Score	Reason for score
Taxpayers/Consumers		
Energy Companies		
Environmental Groups		
Manufacturers		
Industrialized country gov'ts		
Developing country gov'ts		
Overall Average Score		

Stabilization Wedge Gameboard

- 1. Pick red, blue, yellow or green wedges to represent the major wedge categories of the **8 strategies** to be used (Fossil-Fuel, Nuclear, Efficiency & Conservation, or Renewables & Biostorage).
- 2. Label wedges to indicate specific strategies.

