

LESSON PLAN: Mercury Emissions

Student Handout: Mercury Emissions “Cap and Trade”

Balance Sheet for plant #: _____

Student name: _____ Company Name: _____

Age of Plant: _____ Location: _____ Type of coal used: _____

Operating costs (\$/ 50Mw): _____ Cost to upgrade (\$/ lb): _____

Year	Emissions	Allowance	Emission profit/loss	Operating costs	Capital improvements	Electric Price	Yearly profit/loss	Total profit/loss
2005		142				1000		
2006		136				1000		
2007		132				1000		
2008		129				1000		
2009		121				1000		
2010		113				1000		
2011		96				1000		
2012		58				1000		
2013		44				1000		

After the balance sheet is filled, reflect on your experience and answer these questions:

1. Do you have a profit or a loss in the year 2013?
2. Can you think of a way to profit from selling emission credits?
3. In the year 2013, would the average coal-fire plant be older or newer than the average plant in 2005? (The average in our game is 33 years)
4. Perform a survey of who carried a total profit in 2013.
 - a. How old is their plant?
 - b. What type of coal did they use?
 - c. Which market forces had an effect, good or bad?