

## ENERGY CITY ONLINE PROJECT

DUE DATE: \_\_\_\_\_

[http://content3.jason.org/resource\\_content/content/digitallab/8250/misc\\_content/public/popup.html](http://content3.jason.org/resource_content/content/digitallab/8250/misc_content/public/popup.html)

Purpose: Students will craft an urban energy portfolio to balance economic, social and environmental issues using what they have learned about energy in science class.

### PREGAME - LISTENING

- ❖ Open Energy City
- ❖ Click on "Learn More"
- ❖ Read and/or listen. Make sure to read/listen to ALL of the text.
- ❖ Answer the questions true (T) or false (F). Circle the letter of the correct answer.

1) There are four stakeholders: students, scientists, the health council, and the business community.

T / F

2) You can keep the local air quality high by using conservation strategies.

T / F

3) You can keep your global environmental health metric high by using coal.

T / F

4) The problem with renewable energy sources is that they are getting more and more difficult to find.

T / F

5) Inexhaustible resources provide unlimited energy.

T / F

6) Conservation strategies lead to a reduction of energy use.

T / F

7) You can provide energy to your city by clicking on power plants.

T / F

8) It can take up to four turns to build facilities.

T / F

9) Upgrading an existing facility causes more environmental damage.

T / F

10) You should let your metrics bottom out (reach zero) if you want to win the game.

T / F

Worth 10 pts: \_\_\_\_\_ pts

### How do you play Energy City?

- ❖ Open "Energy City."
- ❖ Click on "Begin."
- ❖ Select the Beacon Plains scenario and click on "Play Normal."
- ❖ Click on "Next" and follow the directions.
- ❖ Then **explain what each of the numbered sections of the screen represents. The first one has been done for you as an example.**



1. *This is a power plant. When you click on it, it sends energy to your city.*
- 2.
- 3.
- 4.
- 5.
- 6.

Worth 6 pts: \_\_\_\_\_ pts

Play a **TEN YEAR** game in energy city. You can choose **ANY** location. You must **COMPLETE** the game. Get your teacher's signature or parent's signature when you complete a game to earn credit. If you do not finish you must play again. If you have time try to improve your scores.

**COMPLETED ENERGY CITY GAME (Worth 10 pts)**

Teacher or Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

If you have time try to keep improving your score. When you have finished your **BEST** game complete the following information.

**My location was:** \_\_\_\_\_






**The advantages of my location were: (Hint: Check out the first screen.)**

**The disadvantages of my location were: (Hint: Check out the first screen.)**

**At the end of the game my CITY PERFORMANCE was**

|                           |  |
|---------------------------|--|
| Global Health Environment |  |
| Local Air Quality         |  |
| Budget                    |  |

**My NEGOTIATIONS**

|   | How they felt about me | Offers Completed | Score |
|---|------------------------|------------------|-------|
|  |                        |                  |       |
|  |                        |                  |       |
|  |                        |                  |       |
|  |                        |                  |       |
|  |                        |                  |       |

**My total score was:** \_\_\_\_\_

**Use graph paper to create a graph to show your energy diversity. Use the graph from the game as a model.**

Write a conclusion about how you completed a successful game of energy city. Make sure to include information (DATA) contained on your score sheet.

**RUBRIC FOR ENERGY CITY ONLINE PROJECT**

|                      | Points Possible | Points Earned |
|----------------------|-----------------|---------------|
| Pre-Game / Listening | 10 pts          |               |
| How do you play?     | 6 pts           |               |
| Completed Game       | 10 pts          |               |
| Data                 | 12 pts          |               |
| Graph                | 6 pts           |               |
| My summary           | 6 pts           |               |

**TOTAL POINTS:** \_\_\_\_\_ / 50 pts