

Green 1

87%

91%

Budget Rubric

Check all that apply

T	S	Exceptional	T	S	Proficient	T	S	Not Yet Proficient	T	S	Experiencing Difficulty
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Very organized and informative	<input type="checkbox"/>	<input type="checkbox"/>	Organized and informative	<input type="checkbox"/>	<input type="checkbox"/>	Somewhat organized and informative	<input type="checkbox"/>	<input type="checkbox"/>	Not organized or informative
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All statistics are completely accurate and taken from data provided to your group.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All statistics are accurate.	<input type="checkbox"/>	<input type="checkbox"/>	Most statistics are accurate.	<input type="checkbox"/>	<input type="checkbox"/>	Some statistics are inaccurate.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All math equations have been written out and are completely accurate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All math equations are completely accurate.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Most math equations are accurate.	<input type="checkbox"/>	<input type="checkbox"/>	Math equations are lacking in accuracy.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	All purchases have been accounted for and are described in terms of cost.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Most purchases have been accounted for and are described in terms of cost.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Most purchases have been accounted for.	<input type="checkbox"/>	<input type="checkbox"/>	Some purchases have been accounted for, but some may be missing from budget.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Budget stays within means of spending, or loans have been applied for in a timely manner and received.	<input type="checkbox"/>	<input type="checkbox"/>	Budget stays within means of spending, or loans have been applied for and received.	<input type="checkbox"/>	<input type="checkbox"/>	Budget stays within means of spending, or loans have been attempted.	<input type="checkbox"/>	<input type="checkbox"/>	Budget does not stay within means.

Comments:

Your accounting sheet is off due to your balance being incorrectly recorded.

* Great work with your math recorded on the last page
* Your entire balance sheet needs to be redone because of a mistake at the beginning

Due 14

Develop A Budget

Ideally cities develop a budget that is well within their means. If this project your group has been given a city to construct from scratch. It is rare that a city would build a power grid from the ground up.

As leaders of your city it is your responsibility to use only the funds available to you. Given that the cities revenues are the result of taxes.

And that your cities have expense outside of build a power grid. It is more then far to assume that 10% of your revenues are lost!

Group Number, Color & Name: Green FBKUDH YYS		
Population	541,947	
Growth	-0.449%	7
GDP	\$462.2 million	
Tax Revenues %	33.690	
Total Revenues: (Math: GDP *Tax)	15,571,518.00	
Electric Production kWh	199 million kWh	
Electric Consumption kWh	176.7 million kWh	

Divide Total Tax Revenue by 10 - To find budget

Budget Available:	1,557,151.80
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Change kWh to Mega Watt divide by 1000

MWh of Current Consumption:	176,700
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Loans

If your city runs out of money then there is only one option apply for a loan from the Federal Reserve Bank. Loans are not just 'given' out. Loans must be justified. A team applying for a loan must prove that the money will be: 1) Well spent, 2) Not lost, 3) Wise, and 4) Profitable.

Geothermal 40% MWh 40% Geothermal MWh

$$176,700 \times 0.40 = 70,680$$

Main Energy source

\$6,007,800

Geothermal cost per MWh MWh Price

$$85 \times 70,680 = 6,007,800$$

Wind 30% MWh 30% Wind MWh

$$\text{Supplemental Energy source } 176,700 \times 0.30 = 53,010$$

\$4,145,382

Wind cost per MWh MWh Price

$$78.2 \times 53,010 = 4,145,382$$

Hydro 30% MWh 30% Hydro MWh

$$\text{Supplemental Energy source } 176,700 \times 0.30 = 53,010$$

\$3,063,978

Hydro cost per MWh MWh Price

$$57.8 \times 53,010 = 3,063,978$$

Advanced Coal 10% MWh 10% AC MWh

$$\text{Backup energy source } 176,700 \times 0.10 = 17,670$$

\$1,835,913

AC cost per MWh MWh Price

$$103.9 \times 17,670 = 1,835,913$$

Nice work!

	Date	Transaction	Credit	Debit	Balance
1	1/11/13	Geo thermal		600 7800	9,563,718
2	1/11/13	Wind		4,145,382	5,418,336
3	1/11/13	hydro		3063978	2,354,358
4	1/11/13	Advanced coal		1835913	518,445
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

This #
does not
match your
math on
the next
page

This is
Correct
You have
started with
the wrong #

1-14-13

Date

Pay to the
Order of

Mr. Advanced Coals

\$

1835913

One million eight hundred thirty-five
thousand nine hundred thirteen

Dollars

For

advance coal

|:122105278|:

6724301068"

2400"

territory manager
Cathy Rinkal

1-14-13

Date

Pay to the
Order of

Harry's Hydro

\$

3,063,978

three million sixty-three thousand nine
hundred seventy-eight

Dollars

For

Hydro

|:122105278|:

6724301068"

2400"

territory manager
Cathy Rinkal

1/14/13

Date

Pay to the
Order of

Garry's geothermal

\$

6,007,800

Six million Seven thousand eight hundred
One hundred twenty

Dollars

For

Geothermal

|:122105278|:

6724301068"

2400"

territory manager
Cathy Rinkal

1/14/13

Date

Pay to the
Order of

Uncle Wally's wind turbines

\$

4,145,382

four million one hundred forty-five thousand
three hundred eighty-two

Dollars