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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, March 25, 2013, 2:40 PM  
**To:** Lindsay Barron  
**Subject:** RE: KenergyREV.pptx  
**Attachments:** KenergyREV.pptx

Lindsay,

Attached is a revised presentation for Kenergy. In addition to changing the wording on slide 3, I've revised the amounts in the table on slide 2. The rule averaging the number of customer in years 2013-2016 was off by a month, so the number of customers and average use per customer change slightly. Overall energy and peak forecast is the same.

John

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**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Monday, March 25, 2013 3:26 PM  
**To:** John Hutts  
**Subject:** FW: KenergyREV.pptx

**RECEIVED**  
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COMMISSION

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, March 28, 2013 12:41 PM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Big Rivers forecast  
**Attachments:** Model Tables.xlsx

I'll present the attached file for discussion during our call today. I thought you might want to take a look at it beforehand. I'll need to update it to include 2028.

**John W. Hutts | Principal**  
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770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, April 01, 2013 6:36 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Long-term forecast file  
**Attachments:** Model Tables\_v2.xlsx; Big Rivers Range Forecasts-2013.xlsx

Attached are the forecast tables file and the range forecast file. The most obvious change to the forecast tables file is adding the DSM/EE impacts, energy or demand w/o DSM/EE, and energy or demand with DSM/EE. We also hid rows with data before 2002, and updated the rules for the average growth summaries at the bottom of each sheet. The range forecast reflects energy and demand with DSM/EE. We will continue with documenting the report.

John

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
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---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, April 01, 2013 12:26 PM  
**To:** Michael Mattox; Lindsay Barron  
**Cc:** Eric Hebble  
**Subject:** RE: Long-term forecast file  
**Attachments:** Big Rivers Direct Serve 2013-2016\_Final.xlsx

I don't understand why in some instances, an Excel file has to have other files open to avoid the linkage problem. I have to have the two files, plus the attached, open in order for the Models Tables\_v2 file to display all cells.

---

**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Monday, April 01, 2013 12:04 PM  
**To:** John Hutts; Lindsay Barron  
**Cc:** Eric Hebble  
**Subject:** RE: Long-term forecast file

John,

I am trying to do my due diligence found the following when trying to open the various spreadsheets.

Cell references in "Model Tables\_v2.xlsx" pointing to "BigRiversMonthlyOutput\_v4.xlsx" are not aligning. If I try to have both files open at the same time, the ModelTable file falls apart.

For example in ModeTables cell BG28 references OutPutv4 cell AV579. The MonthlyOutputv4 I have only goes to row 369. Not sure if there are other instances of this problem.

Mike

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, April 01, 2013 6:36 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Long-term forecast file

Attached are the forecast tables file and the range forecast file. The most obvious change to the forecast tables file is adding the DSM/EE impacts, energy or demand w/o DSM/EE, and energy or demand with DSM/EE. We also hid rows with data before 2002, and updated the rules for the average growth summaries at the bottom of each sheet. The range forecast reflects energy and demand with DSM/EE. We will continue with documenting the report.

**John**

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067

770.425.8100 (Office) | 770.799.2419 (Direct)

[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, April 03, 2013 2:47 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron; Eric Hebble  
**Subject:** RE: DSM

Corrected the link you identified. We have already updated the DSM file as you did.

---

**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Wednesday, April 03, 2013 3:09 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron; Eric Hebble  
**Subject:** DSM

Big Rivers Forecast\_2013-2016\_v4.xlsx, Data tab cells M98:M109, should reference \$H\$11 not \$H\$9.

Model Tables\_v3, xlsx, cell CB43 is zero because we had Russ update the DSM spreadsheet only thru 2027.

I just extended his formulas he put in for 2027 to 2028 as you can see on the attached spreadsheet.

Mike

Michael J. Mattox  
Director, Resources & Forecasting  
Big Rivers Electric Corporation  
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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, April 03, 2013 3:12 PM  
**To:** Michael Mattox  
**Cc:** Eric Hebble; Lindsay Barron  
**Subject:** RE: Replacement Load

Updated for leap year

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**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Wednesday, April 03, 2013 2:32 PM  
**To:** John Hutts  
**Cc:** Eric Hebble; Lindsay Barron  
**Subject:** RE: Replacement Load

John,

Unlike the Direct Serve customers, since it will be each to calc, in the Model Tables for the Projected New Load throw in an extra 24 hours in Col F for the leap years 2016, 202, 2024 and 2028.

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, April 03, 2013 9:24 AM  
**To:** Michael Mattox  
**Cc:** Eric Hebble; Lindsay Barron  
**Subject:** Re: Replacement Load

No problem. Will update.

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Apr 3, 2013, at 10:21 AM, "Michael Mattox" <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)> wrote:

John,



Sorry about this, but I just noticed on my whiteboard 2021 at 200 MW of new load. So we need to show at total of 800 MW of new load.

Mike M.

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**From:** Lindsay Barron  
**Sent:** Tuesday, April 02, 2013 1:59 PM  
**To:** Michael Mattox  
**Cc:** John Hutts; Eric Hebble  
**Subject:** Re: Replacement Load

This should be incorporated in this LF. I like the proposed heading. Thanks!

Sent from my iPhone

On Apr 2, 2013, at 12:41 PM, "Michael Mattox" <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)> wrote:

Lindsay,

I was talking to John this morning about projections for replacing the smelter load that were discussed in my office yesterday with Bob.

You sketched out the following projections of new load on the white board as follows:

2016 – 100 MW

2017 – 100 MW

2018 – 100 MW

2019 – 100 MW

2020 – 200 MW

Due to the unknown nature of the projected load, i.e. rural, large industrial, PPA, etc a 75% load factor was assumed.

I was discussing with John how this should be incorporated in the base case Load Forecast for RUS. Since RUS requires the forecast by rate class and the class for this load is unknown and for clarity it should be listed in a separate column, with a heading such as "Projected New Load".

Please confirm that John should incorporate this in the Load Forecast that is currently being prepared vs. handling this after-the-fact.

Thanks

Mike



**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, April 04, 2013 9:21 AM  
**To:** John Hutts  
**Subject:** Residential usage becoming less predictable

#### Interesting article on residential consumption

**Residential usage becoming less predictable** - According to the Energy Information Administration, residents in the US are using more electricity for appliances, charging electronic devices and lighting compared with twenty years ago, while the amount of electricity used for space heating and cooling has declined.

That change, which makes the residential sector load less sensitive to weather patterns, could have implications for utilities and others by making electricity use harder to predict, or at least different than it had been previously.

If someone is using more electricity on appliances, televisions and charging battery-operated devices and less on heating or cooling their home, the weather-sensitive nature of the residential load has changed.

The change also means that utilities looking for demand-side management opportunities have more options around "plug load" and partnering with companies to help customers manage their usage better. More than 20 states have various types of efficiency targets or power-saving goals for utilities to meet, and utilities are looking beyond the traditional programs tied to weatherization of homes and more efficient heating, ventilation and air conditioning systems.

That was clearly evident in Washington at an event held recently by IEE, a group of investor-owned utilities and companies that focus on efficiency and innovation in the utility sector.

At IEE's latest "Powering the People" gathering, companies such as ThinkEco, Aclara, Comverge, Simple Energy, Oracle, Siemens and others touted products to help utilities and customers improve consumers' energy management and reduce usage.

Home appliances are getting more efficient and using less electricity, but there are more of them in today's homes, negating the efficiency gains, said Gabriel Romero, spokesman for Xcel Energy and its utilities. One result of having more devices plugged in within the home is the rising amount of "phantom load" or "vampire load" that comes from when a small amount of power is being used even when the devices are turned off, Romero said.

If residential load, which makes up about one-third of the power used in the US, has less of a connection to weather patterns, there may be some separation of power price movements from temperatures and seasonal weather trends, but that is not being seen yet, Romero said. "That might be seen eventually, but weather is still very relevant" in how it affects wholesale power prices, he said.

#### EPRI examines usage dynamics

The dynamics tied to the changing residential usage are being examined by the Electric Power Research Institute, though hard conclusions are not yet surfacing, said Thomas Reddoch, senior technical executive at EPRI. "There are a lot of forces at play here" within residential usage, and EPRI has been researching what the implications of a changing load profile will mean for utilities, Reddoch said.

While the amount of energy used in homes today has not changed that much over the last 30 years — the residential sector consumes 16.5 billion Btu annually — the population shift to warmer climates and changes in energy consumption have made non-weather related energy use a majority of energy use in the sector, EIA said in a series of data points last month.

In 2009, space heating and air conditioning accounted for 48% of residential energy use, compared with 58% in 1993, EIA said. The category of appliances, electronics and lighting grew to about 35% from 24% over the same period. When water heating is included, where energy use has come down a bit, non-weather related use accounts for 52% of energy use, based on EIA's residential energy consumption surveys.

For solely electricity use and not energy — energy includes natural gas use — air conditioning and space heating made up 29% of home power usage in 2011, with water heating accounting for 9% and refrigerators accounting for 7%. All other appliances, lighting and other use accounted for 55% of electricity usage, EIA said. More households (almost half) now have three or more televisions in them and computers are more prevalent, and while federal efficiency programs have improved the efficiency of many appliances, the higher number of appliances have offset the efficiency gains, EIA said.

But like many things in the power industry, and the policy discussion in Washington in particular, the EIA data and what it means is a point of contention. The Consumers Electronics Association maintains that EIA and utilities overestimate the electricity usage of various appliances and devices in homes.

The group has its own study showing that the average home is not using more electricity because of electronic devices, with that usage accounting for about 13% of electricity usage, said Doug Johnson, vice president of technology policy at CEA. The study, completed by the Fraunhofer Center for Sustainable Energy Systems in Cambridge, Massachusetts, used data from 2010, and said that the average number of consumer electronics in the US home is 25, which has not changed much in the past five years, as homeowners tend to replace electronic equipment with a newer version of the same device or similar equipment.

EIA's information in the residential energy consumption survey is not based on actual measurement of products and devices, Johnson said. "They extrapolate usage into product categories based on a survey," which is not the type of "rigorous measurement and research we are used to in our industry," he said.

"Utilities have their job to do on balancing loads. We have our job to sell products that are compelling for consumers," Johnson said. CEA does not oppose the goal of making products more energy efficient, but it prefers the market-based approach that has been successful compared with the command-and-control path preferred by some policymakers, he said.

Furthermore, the efficiency gains in flat-screen TVs seen in just the past few years is "unmatched by anything in the appliance world," Johnson said. CEA members "accomplished energy efficiency improvements in seven or eight years what it took the refrigeration sector four decades" to realize, Johnson said. It was not that long ago that utilities were predicting residential usage to go "through the roof" due to plasma TVs, he said.

Reddoch acknowledged the 60% efficiency gains of newer TV models compared with models available a few years ago, but he also pointed to bigger screens and more of them being used in homes today.

At Salt River Project, a public power and water utility in Arizona, "we've seen tremendous efficiency gains in electronics" used in the home, said Nathan Morey, senior analyst of market research at SRP. "Consumers can now power two laptops, two iPads and two smartphones with far less energy than an old desktop computer" and bulky cathode ray tube screen required, Morey said.

Given its location, SRP has more air-conditioning load than is reflected in the nationwide numbers from EIA — where air conditioning and space heating made up only 29% of power usage in 2011. "Our internal studies suggest 51% of the energy delivered to a single-family home is used for air conditioning," with 18% for appliances and electronics, 14% for hot water, 12% for lighting and 5% for water heating, Morey said.

SRP has seen anecdotal evidence that household plug load is increasing, but "it may not be as noticeable or measureable as elsewhere," he said. Like other utilities, SRP is touting Kill-A-Watt meters that measure power usage of individual appliances, appliance recycling programs and other steps to mitigate the increase in plug load, Morey noted.



A growing number of customers are managing their plug load by buying products such as electricity-saving outlets or other devices from a variety of companies. The modlet from ThinkEco saves power when appliances are plugged into it by not using electricity when they are turned off.

Many modern appliances or household devices use power even when they are turned off. The modlet shows appliance-level power usage, learns the behavior of the user and suggests schedules for programming appliances to not draw power, based on the idea that users will "set it and forget it" to save power, ThinkEco says.

Because the utility business is based on making sure there is enough electricity available at all times, with enough excess capacity to meet fluctuating loads, and regulators see to it that they do this without raising customer rates too high, utilities have a "balancing act" to adjust their power supply needs based on changing load profiles, Reddoch said. When it comes to residential usage and the changes being seen within the home, "we are trying to understand how they will influence the utility sector," he said.

Utilities may have to adjust their plans more often or add new capabilities into their systems so that they see usage trends clearly, Reddoch said.

Xcel and its utilities are seeing increased scrutiny from state regulators on how they invest in demand-side management programs, Romero said. But with more innovations around electricity monitoring coming into the home, that improves the options available to utilities. As some of the efficiencies are wrung out of the HVAC sector on home energy use, utilities can turn to a growing number of options to trim load within the home, he said.

"How much do you spend as a utility to gain the amount of energy savings that is acceptable. We are facing that question across our territory" as are other utilities, Romero said.

**Megawatt Daily**  
**Thursday, April 4, 2013**  
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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, April 17, 2013 6:29 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

Let's discuss the high range forecast when you have a minute. All other changes made.

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, April 16, 2013 10:52 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

John,

Thank you so much for your quick turn around. I had a few changes and a question...

At the bottom of page 1, the <sup>2</sup> Needed to be change from 2016 to 2018 **DONE**

On B-3, B-4, B-5 there is a #DIV/0! Error at the bottom. **DONE**

On B-6, we didn't include the leap year in years 2020, 2024, and 2028---IF THIS CREATES A LOT OF WORK, WE CAN SKIP THIS FIX. **DONE**

On C-1 C-2 and C-3, in the optimistic economic scenario, I failed to mention that we wouldn't replace more than the 800MW of load, thus we are overstating the Total System Energy and Peak. I think we should cap the total system Optimistic Economic at the Base Case. We increased the amount of load replacement we were classifying as Large Industrial, but I think we should still cap the overall replacement at the amount in the base case. We don't want to show any scenarios that would result in us having to build for the IRP. I think we can solve this problem by making the Optimistic Economic on C-1 C-2 and C-3 equal to the Base Case in every year it is currently exceeding the base case.

C-4 Charts will need to reflect the adjustments above.

And the question....why are the stats on the Meade Co Residential Use Model so much worse than Kenergy and JP? See D-9. **Model Specification values are correct. I don't know where the Summary Model Statistics came from. Will correct with amounts below.**

**Model Statistics**

Iterations 1  
Adjusted Observations 120  
Deg. of Freedom for Error 107  
R-Squared 0.987  
Adjusted R-Squared 0.985

AIC 7.112  
BIC 7.414  
F-Statistic 665.103  
Prob (F-Statistic) 0.0000  
Log-Likelihood -584.00  
Model Sum of Squares 8,840,788.76  
Sum of Squared Errors 118,523.48  
Mean Squared Error 1,107.70  
Std. Error of Regression 33.28  
Mean Abs. Dev. (MAD) 24.15  
Mean Abs. % Err. (MAPE) 1.67%  
Durbin-Watson Statistic 1.308  
Durbin-H Statistic #NA  
Ljung-Box Statistic 35.44  
Prob (Ljung-Box) 0.0622  
Skewness -0.354  
Kurtosis 4.410  
Jarque-Bera 12.443  
Prob (Jarque-Bera) 0.0020

Again, John, thank you so much!

L☺

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Tuesday, April 16, 2013 9:10 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

Please disregard the files I sent earlier this evening. I found a couple items that did not get updated, and this version includes the updated range forecast. I will be at a meeting all day Friday, so let's talk tomorrow or Thursday if possible. The Word document and report pdf are currently highlighted in the areas of the report that were updated.

John.

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, April 16, 2013 7:04 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

John,

I need one more change. On page 24, we talk about the forecast scenarios. For the direct serves, I'd like to change it to show the optimistic scenario assumes the following load replacement:

	ADD	CUMULATIVE
2016	100	100
2017	200	300
2018	200	500

I'd like to remove all mention of the smelters staying on the system—this will be contractually impossible.

Again, sorry for the fire drill!

Thanks so much!!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, April 16, 2013 5:43 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

Will get it done tonight

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, April 16, 2013 6:41 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Load Forecast  
**Importance:** High

John,

I hate to spring this change on you, but we've run into a snag on the LF. We need to push the Load Recovery from 2016 to 2018.



I need it to show up as:

2018 100  
2019 100  
2020 200  
2021 200  
2022 200

Can you please let me know when you will be able to implement this change in the report. I need it as soon as you can get it.

Sorry for the rush!

Lindsay☺

*Lindsay N. Barron, CPA  
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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, April 17, 2013 9:27 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Forecast updates

I was looking at the beginning and ending years. I'll adjust rural load factor.

-----Original Message-----

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Wednesday, April 17, 2013 10:21 AM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Re: Forecast updates

Does look like it works in 2021-2024? Am I looking wrong?

Sent from my iPhone

On Apr 17, 2013, at 9:02 AM, "John Hutts" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)> wrote:

> Looks like the changes we made to the high range economic scenario works. Take a look (range case file) and let me know if you are good to go with me updating and sending you an updated final report.

>

> John W. Hutts | Principal

> GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA.

> 30067

> 770.425.8100 (Office) | 770.799.2419 (Direct)

> [john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)<<mailto:clay.thomason@gdsassociates.com>>

>

>

> <Model Tables\_v3.xlsx>

> <Big Rivers Forecast\_2013-2016\_v4.xlsx>

> <BigRiversMonthlyOutput\_v4.xlsx> <Big Rivers Range

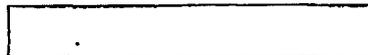
> Forecasts-2013.xlsx> <Big Rivers Direct Serve 2013-2016\_Final.xlsx>

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, May 21, 2013 1:02 PM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Load Forecast

I just received a copy of the letter approving the Load Forecast Work Plan. I haven't touched base with Greg Starheim yet about his expectations for a final report. Will send him a note today.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, June 10, 2013 10:09 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast status

Right now, anytime Thursday or Friday work for me. Given that we have the process in place to allocate rural system to the customer classes, I estimating that we could prepare load forecast reports for all three for around \$7,500.

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Monday, June 10, 2013 10:51 AM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast status

John,

We need to talk with the Members to gauge their current wants and needs. Mike—can you take care of getting with them?

When we have an idea of where they are currently parked, we'll set up a time to discuss. Hopefully late this week. Is there a time on Thursday or Friday that is best for you?

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, June 10, 2013 8:23 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** Load Forecast status

Lindsay,

I wanted to let you know that the work we completed for Kenergy has been completed. We were developing alternative forecast scenarios that addressed potential impacts of the smelters closing up. Since the deals have now been made to keep them operating, Greg said that he wanted to close out that work. We have not produced a load forecast report for Kenergy, although during the work for them I developed a process that breaks the rural system energy down by customer class and produces the tables that comprise the appendix items in the load forecast reports. I'm not sure where you wanted to go from here. Do you want to set a time to discuss?

Thanks,  
John

**John W. Hutts | Principal**

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[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, June 25, 2013 12:47 PM  
**To:** Lindsay Barron  
**Subject:** RE: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

Corrected values...

Kenergy -0.26  
MCRECC -0.25  
JPEC -0.14

-----Original Message-----

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Monday, June 24, 2013 1:56 PM  
**To:** John Hutts  
**Subject:** RE: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

Perfect. Thanks!

L:)

-----Original Message-----

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, June 24, 2013 12:51 PM  
**To:** Lindsay Barron  
**Subject:** RE: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

I'm not sure where you are headed with this, so I've responded in the form of a response to a data request. The price elasticity coefficients are derived through internal calculations in MetrixND, as are all other model coefficients and statistics, so I have not provided all the data and computations performed in MetrixND. I am attaching the MetrixND regression output, which presents the elasticity coefficients on the ELAS sheet. Hopefully the following and the attached provides what you need, but if not, let me know.

Price elasticity was derived for each of Big Rivers' three member cooperatives using regression analysis. The price elasticity coefficients for the three member cooperatives ranged from -0.16 to -0.21. A price elasticity coefficient of -0.21 indicates that a 1% change in average price causes a -.21% change in average household consumption. In theory, average electricity use per customer is inelastic with respect to price because a 1% change in price does not result in a 1%

change in average consumption.

Itron's MetrixND software was used to develop the regression models. The models are specified using monthly units in linear form and quantify the relationship between average electricity use per customer, average household income, average retail price of electricity to rural customers, weighted heating degree days, weighted cooling degree days, and binary variables for specific months. Average household income is expressed in real terms. The average retail price of electricity is expressed in real terms, and the annual average price for each year is held constant in each month of the year. Degree days are weighted by their respective appliance market shares and appliance efficiencies. The elasticity coefficients for each independent variable are computed internally in the MetrixND software package.

-----Original Message-----

From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

Sent: Monday, June 24, 2013 12:19 PM

To: John Hutts

Subject: Re: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

I'm stuck in a meeting. Instead of a call, Can you please send me a two paragraph summary of how we calculated the price elasticity in this most recent analysis. Please include the actual coefficients used in the models.

Thanks so much!!

Sent from my iPhone

On Jun 24, 2013, at 9:18 AM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

> 1 eastern is good

>

> -----Original Message-----

> From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

> Sent: Monday, June 24, 2013 10:08 AM

> To: John Hutts

> Subject: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

>

>

>

> Sent from my iPhone



>  
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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, July 05, 2013 3:05 PM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Summer Peak

I know the forecasts have been approved and that no changes to the projections can be made, but I'd like to know how the actual peaks to date are looking relative to the forecast. Can you send me rural system peak by member through June?

Thanks,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, July 23, 2013 12:11 PM  
**To:** Steve Thompson; Greg Starheim; John Newland  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** RE: 2013 Load Forecast

Thanks Steve. I'll make these changes. The next version will also include tables and graphs showing the energy and demand DSM impacts.

---

**From:** Steve Thompson [mailto:SThompson@kenergycorp.com]  
**Sent:** Tuesday, July 23, 2013 12:56 PM  
**To:** John Hutts; Greg Starheim; John Newland  
**Cc:** Lindsay Barron; Mike Mattox  
**Subject:** RE: 2013 Load Forecast

I have reviewed the report and offer the following comments:

1. Table 1.1 executive summary – It appears 2012N also reflects the reduction in the Hawesville smelter load.
2. Table 1.2 executive summary – It appears the Large Commercial %'s for 2012-2017 and 2012-2027 have the reduction in the Hawesville smelter load. If yes, the footnote should explain this item in addition to weather and DSM.
3. Section 2.4 introduction – The tariffs ...became effective September 1, 2011
4. Page A-5 The title should read Large Commercial- Total(includes direct serves and rurals)

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, July 16, 2013 12:28 PM  
**To:** Greg Starheim; John Newland; Steve Thompson  
**Cc:** Lindsay Barron; Mike Mattox  
**Subject:** 2013 Load Forecast

Attached is a draft of the 2013 Load Forecast report. You will note that this draft includes tables that present total system and rural system energy and peak demand requirements with and without DSM impacts. Total system requirements are down in 2013 due to the assumptions made on the two smelters. Number of customers and energy sales for the rural system classifications are the same as those provided in earlier emails. Let me know what questions you have or what areas you would like to see expanded.

Regards,  
John

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067

770.425.8100 (Office) | 770.799.2419 (Direct)

[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, July 25, 2013 10:50 AM  
**To:** Steve Thompson; Greg Starheim; John Newland  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** RE: 2013 Load Forecast  
**Attachments:** 2013 Load Forecast\_Kenergy\_07-25-13.pdf

Attached is an updated version, including Steve's comments. The total system and rural system tables present the DSM adjusted amounts more clearly, and the DSM impacts are now reflected in the range forecasts.

John

---

**From:** Steve Thompson [mailto:SThompson@kenergycorp.com]  
**Sent:** Tuesday, July 23, 2013 12:56 PM  
**To:** John Hutts; Greg Starheim; John Newland  
**Cc:** Lindsay Barron; Mike Mattox  
**Subject:** RE: 2013 Load Forecast

I have reviewed the report and offer the following comments:

1. Table 1.1 executive summary – It appears 2012N also reflects the reduction in the Hawesville smelter load.
2. Table 1.2 executive summary – It appears the Large Commercial %'s for 2012-2017 and 2012-2027 have the reduction in the Hawesville smelter load. If yes, the footnote should explain this item in addition to weather and DSM.
3. Section 2.4 introduction – The tariffs ...became effective September 1, 2011
4. Page A-5 The title should read Large Commercial- Total(includes direct serves and rurals)

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**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, July 16, 2013 12:28 PM  
**To:** Greg Starheim; John Newland; Steve Thompson  
**Cc:** Lindsay Barron; Mike Mattox  
**Subject:** 2013 Load Forecast

Attached is a draft of the 2013 Load Forecast report. You will note that this draft includes tables that present total system and rural system energy and peak demand requirements with and without DSM impacts. Total system requirements are down in 2013 due to the assumptions made on the two smelters. Number of customers and energy sales for the rural system classifications are the same as those provided in earlier emails. Let me know what questions you have or what areas you would like to see expanded.

Regards,  
John

**John W. Hutts | Principal**

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[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, July 25, 2013 4:11 PM  
**To:** Steve Thompson; Greg Starheim; John Newland  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** Revised Load Forecast Report  
**Attachments:** 2013 Load Forecast\_Kenergy\_07-25-13b.pdf

In preparing reports for MCRECC and JPEC, we found a couple of edits, so we went ahead and made them.

Table 5.1 – revised the growth rates to reflect the DSM adjusted amounts

Table 6.3 – revised the DSM adjustments to include distribution losses

Section 3.1 – changed “residential and commercial” to rural system

Section 4.5 – changed “areas” to “area”

I will wait for your final comments/revisions before finalizing the report.

John

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067

770.425.8100 (Office) | 770.799.2419 (Direct)

[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, July 26, 2013 10:00 AM  
**To:** Karen Brown; David Poe  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** 2013 Load Forecast  
**Attachments:** 2013 Load Forecast\_MCRECC\_07-26-13.pdf

Attached is a draft of the 2013 Load Forecast. The projections are the same as those discussed during development of Big Rivers' load forecast earlier this year. This report is similar to that provided in previous years and breaks the projections down by class. Note that projected values at the system level reflect DSM and energy efficiency program impacts. Please review and let me know if you have any questions.

Regards,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, August 07, 2013 7:54 AM  
**To:** Chuck Williamson  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** 2013 Load Forecast  
**Attachments:** 2013 Load Forecast\_JPEC\_08-06-13.pdf

Chuck,

Attached is a draft of the 2013 Load Forecast. The projections are the same as those discussed during development of Big Rivers' load forecast earlier this year. This report is similar to that provided in previous years and breaks the projections down by class. Note that projected values at the system level reflect DSM and energy efficiency program impacts. Please review and let me know if you have any questions.

Regards,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Friday, August 09, 2013 4:06 PM  
**To:** 'John Hutts'; Chuck Williamson  
**Cc:** Michael Mattox; Kelly Nuckols; Scott Ribble; Bob Berry  
**Subject:** RE: 2013 Load Forecast  
**Attachments:** KY62 2013 LF UPDATE appr v ltr.pdf

Thanks for the thoughts and responses. I concur with John's statements. Since we have already received RUS approval, JP shouldn't have to certify a load forecast to RUS for another two years. Chuck, for your reference, I am attaching the RUS approval letter of both Big Rivers' forecast, as well as JP's.

When we update the forecast next (in two years), we will have a better feel for customer rates, JP territory job statuses, and replacement load. I know this is a time of uncertainty for us all and I appreciate your concerns.

John, please include Mike and I on your call about providing a sensitivity to JP regarding the USEC job loss. We're always interested in impacts to the overall Big Rivers' forecast.

Chuck, if there is anything else we can do to assist JP, please let us know.

Thanks!

Lindsay

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Friday, August 09, 2013 3:32 PM  
**To:** Chuck Williamson  
**Cc:** Lindsay Barron; Michael Mattox; Kelly Nuckols; Scott Ribble  
**Subject:** RE: 2013 Load Forecast

Chuck,

Thanks for the response. Since Big Rivers has already submitted their forecast to RUS and received approval, we need to have the base case forecast match the projections that went into the Big Rivers base case forecast. However, it would be appropriate to add another scenario in your forecast that takes into account the factors you identified, which in essence would become your most probable scenario. Since these factors came to light after the base case forecast was completed, I don't believe you will have any problems using the additional scenario as the basis for any studies undertaken by JPEC that require an energy forecast. I suggest we have a call next week to discuss. I'm out of the office on Monday but available any other day.

Regards,  
John

---

**From:** Chuck Williamson [mailto:Chuck.Williamson@jpenenergy.com]  
**Sent:** Thursday, August 08, 2013 9:41 AM  
**To:** John Hutts  
**Cc:** Lindsay Barron; Mike Mattox; Kelly Nuckols; Scott Ribble; Chuck Williamson  
**Subject:** RE: 2013 Load Forecast

Kelly and I have done a cursory review of the draft forecast and have the following comments and concerns:

1. One of the largest employers in this area, USEC, is shutting down with an expected job loss of 1,200 at the plant and some additional number of sub-contractor jobs.. These are high paid, specialist jobs, likely averaging \$100k+. There is some chance that the government will fund a cleanup at the site which could employ potentially as many as were laid off, but with the present US budget situation this is unlikely, at least the near term.
2. We have concerns about price elasticity. Kelly has seen BREC projections which show that when the various unwind credits expire (likely 2015) the bottom line rate increase will be around 84%, not the 40% or 42% quoted in the study. There is some chance this increase will be offset if BREC is able to secure additional load but this is far from certain.

Any idea of how to proceed on these items? Our biggest concern is having to "certify" these numbers to RUS without these two items addressed.

Thanks,

Chuck

**Chuck Williamson, CPA**  
Vice President - Finance & Accounting  
Jackson Purchase Energy Corporation  
P.O. Box 4030  
Paducah, KY 42002-4030  
270.441.0825 Direct  
270.442.5337 Fax



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**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, August 07, 2013 7:54 AM  
**To:** Chuck Williamson  
**Cc:** Lindsay Barron; Mike Mattox  
**Subject:** 2013 Load Forecast

Chuck,

Attached is a draft of the 2013 Load Forecast. The projections are the same as those discussed during development of Big Rivers' load forecast earlier this year. This report is similar to that provided in previous years and breaks the projections down by class. Note that projected values at the system level reflect DSM and energy efficiency program impacts. Please review and let me know if you have any questions.

Regards,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** Lindsay Barron  
**Sent:** Monday, June 24, 2013 4:16 PM  
**To:** John Hutts  
**Subject:** Re: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

Can you confirm for me, what was the price elasticity used in the 2011 forecast? Thanks!!

Sent from my iPhone

On Jun 24, 2013, at 12:51 PM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

> I'm not sure where you are headed with this, so I've responded in the form of a response to a data request. The price elasticity coefficients are derived through internal calculations in MetrixND, as are all other model coefficients and statistics, so I have not provided all the data and computations performed in MetrixND. I am attaching the MetrixND regression output, which presents the elasticity coefficients on the ELAS sheet. Hopefully the following and the attached provides what you need, but if not, let me know.

>

>

> Price elasticity was derived for each of Big Rivers' three member cooperatives using regression analysis. The price elasticity coefficients for the three member cooperatives ranged from -0.16 to -0.21. A price elasticity coefficient of -0.21 indicates that a 1% change in average price causes a -.21% change in average household consumption. In theory, average electricity use per customer is inelastic with respect to price because a 1% change in price does not result in a 1% change in average consumption.

>

> Itron's MetrixND software was used to develop the regression models. The models are specified using monthly units in linear form and quantify the relationship between average electricity use per customer, average household income, average retail price of electricity to rural customers, weighted heating degree days, weighted cooling degree days, and binary variables for specific months. Average household income is expressed in real terms. The average retail price of electricity is expressed in real terms, and the annual average price for each year is held constant in each month of the year. Degree days are weighted by their respective appliance market shares and appliance efficiencies. The elasticity coefficients for each independent variable are computed internally in the MetrixND software package.

>

>

>

> -----Original Message-----

> From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

> Sent: Monday, June 24, 2013 12:19 PM

> To: John Hutts

> Subject: Re: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

>

> I'm stuck in a meeting. Instead of a call, Can you please send me a two paragraph summary of how we calculated the price elasticity in this most recent analysis. Please include the actual coefficients used in the models.

>

> Thanks so much!!

>

> Sent from my iPhone

>

> On Jun 24, 2013, at 9:18 AM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

>

>> 1 eastern is good

>>

>> -----Original Message-----

>> From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

>> Sent: Monday, June 24, 2013 10:08 AM

>> To: John Hutts

>> Subject: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

>>

>>

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>> Sent from my iPhone

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> <JPEC-RuralUse\_Mo.xlsx>

> <Kenergy-RuralUse\_Mo.xlsx>

> <MC-RuralUse\_Mo.xlsx>



**From:** Lindsay Barron  
**Sent:** Monday, June 24, 2013 12:56 PM  
**To:** 'John Hutts'  
**Subject:** RE: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

Perfect. Thanks!

L:)

-----Original Message-----

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Monday, June 24, 2013 12:51 PM  
**To:** Lindsay Barron  
**Subject:** RE: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

I'm not sure where you are headed with this, so I've responded in the form of a response to a data request. The price elasticity coefficients are derived through internal calculations in MetrixND, as are all other model coefficients and statistics, so I have not provided all the data and computations performed in MetrixND. I am attaching the MetrixND regression output, which presents the elasticity coefficients on the ELAS sheet. Hopefully the following and the attached provides what you need, but if not, let me know.

Price elasticity was derived for each of Big Rivers' three member cooperatives using regression analysis. The price elasticity coefficients for the three member cooperatives ranged from -0.16 to -0.21. A price elasticity coefficient of -0.21 indicates that a 1% change in average price causes a -0.21% change in average household consumption. In theory, average electricity use per customer is inelastic with respect to price because a 1% change in price does not result in a 1% change in average consumption.

Itron's MetrixND software was used to develop the regression models. The models are specified using monthly units in linear form and quantify the relationship between average electricity use per customer, average household income, average retail price of electricity to rural customers, weighted heating degree days, weighted cooling degree days, and binary variables for specific months. Average household income is expressed in real terms. The average retail price of electricity is expressed in real terms, and the annual average price for each year is held constant in each month of the year. Degree days are weighted by their respective appliance market shares and appliance efficiencies. The elasticity coefficients for each independent variable are computed internally in the MetrixND software package.

-----Original Message-----

From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

Sent: Monday, June 24, 2013 12:19 PM

To: John Hutts

Subject: Re: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

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Thanks so much!!

Sent from my iPhone

On Jun 24, 2013, at 9:18 AM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

> 1 eastern is good

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> -----Original Message-----

> From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]

> Sent: Monday, June 24, 2013 10:08 AM

> To: John Hutts

> Subject: Are you available at 1 eastern for a quick call on price elasticity in our most recent study?

>

>

>

> Sent from my iPhone

>

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**From:** Lindsay Barron  
**Sent:** Friday, June 21, 2013 1:17 PM  
**To:** John Hutts (John.Hutts@gdsassociates.com)  
**Cc:** Michael Mattox  
**Subject:** Price Elasticity

John,

Do you have a few minutes to discuss price elasticity from our April forecast this afternoon or Monday?

Thanks!

L☺

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*

---

**From:** Lindsay Barron  
**Sent:** Wednesday, June 19, 2013 1:48 PM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Load forecast

John,

We'd like you to proceed with the reports for the three coops. Please let us know how we can be of assistance.

We're up to our necks in alligators ☺

L☺

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, June 19, 2013 1:46 PM  
**To:** Lindsay Barron  
**Subject:** RE: Load forecast

Thanks for the update Lindsay. I've been on hold and will continue to be until you all are ready to proceed.

John,

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Wednesday, June 19, 2013 2:33 PM  
**To:** 'Burns Mercer'; Bob Berry  
**Cc:** Michael Mattox  
**Subject:** RE: Load forecast

Burns,

Sorry for the delayed response.....here's an update on where we are with the load forecast process....

As you know, we needed to update the load forecast for the Alcan Rate Case. Historically, we have updated all three Member coops load forecasts and Big Rivers' simultaneously. Due to time constraints associated with the filing, we developed your forecasts, but did not have time to create your load forecast reports for distribution. GDS is going to be completing those in the next month or two. We will be sharing them with you at that time. Historically, I believe your board has always approved your load forecast, just as Big Rivers' board approves the Big Rivers' load forecast.

We plan to have a new forecast report to you in the next two months. It will be your up-to-date load forecast and I don't anticipate another update for two years (as required by RUS).

Let me know if you have any questions.

Thanks!

L☺

---

**From:** David Crockett  
**Sent:** Thursday, June 13, 2013 11:56 AM  
**To:** 'Burns Mercer'; Bob Berry; Lindsay Barron  
**Subject:** RE: Load forecast

Burns,  
I will forward your question to Bob and Lindsay for a response. My staff works with the approved load forecast numbers for planning purposes, etc., but we are not involved with the load forecast updates or approval processes.  
Dave

---

**From:** Burns Mercer [<mailto:bmercer@mcrecc.com>]  
**Sent:** Thursday, June 13, 2013 9:30 AM  
**To:** David Crockett  
**Subject:** FW: Load forecast

Do the members need to approve a load forecast this year?

---

**From:** Melanie Raley  
**Sent:** Wednesday, June 12, 2013 1:27 PM  
**To:** Burns Mercer  
**Subject:** Load forecast

Burnie,

In August of 2011 we approved the Load forecast and the attached is what was placed in the board book.

Melanie

**From:** Lindsay Barron  
**Sent:** Monday, June 10, 2013 9:51 AM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast status

John,

We need to talk with the Members to gauge their current wants and needs. Mike—can you take care of getting with them?

When we have an idea of where they are currently parked, we'll set up a time to discuss. Hopefully late this week. Is there a time on Thursday or Friday that is best for you?

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Monday, June 10, 2013 8:23 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** Load Forecast status

Lindsay,

I wanted to let you know that the work we completed for Kenergy has been completed. We were developing alternative forecast scenarios that addressed potential impacts of the smelters closing up. Since the deals have now been made to keep them operating, Greg said that he wanted to close out that work. We have not produced a load forecast report for Kenergy, although during the work for them I developed a process that breaks the rural system energy down by customer class and produces the tables that comprise the appendix items in the load forecast reports. I'm not sure where you wanted to go from here. Do you want to set a time to discuss?

Thanks,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Thursday, May 02, 2013 8:06 AM  
**To:** John Hutts (John.Hutts@gdsassociates.com)  
**Cc:** Michael Mattox  
**Subject:** FW: Rates for GDS.xlsx  
**Attachments:** Rates for GDS.xlsx

This is what was provided to him back in March. Can you forward this original email to him? I'd like the caveats to accompany your response, so the easiest thing would be if you can find this original email and forward it to him. Thanks John!

L☺

---

**From:** Lindsay Barron  
**Sent:** Monday, March 18, 2013 2:19 PM  
**To:** Steve Thompson  
**Cc:** Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** Rates for GDS.xlsx

Steve,

Attached are the rates used by GDS for the rural forecast. Please keep in mind, these numbers will NOT align with the rate case increase projections. The rate case increase projections are a comparison of 2014 (with old rates) versus 2014 (with new rates). The year over year increase shown here not only takes into account the rate case increases, but also takes into account the year-over-year increases in riders. This is the appropriate information to use because it is what the customer will experience, but it doesn't match the rate case projections which have been floating around (in the 30-35% range) because the rate case projections do not account for YoverY increases in riders.

If you have any questions, please let me know.

Thanks!

Lindsay

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419*

270.844.6194 office  
270.993.1594 mobile



**From:** Lindsay Barron  
**Sent:** Wednesday, April 17, 2013 12:04 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Re: Big Rivers Range Forecasts-2013.xlsx

Looks good to me. Mike did u see any issues?

Sent from my iPhone

On Apr 17, 2013, at 9:34 AM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

> If we go to 58% load factor on Rural System, all years in optimistic case are higher than base case.  
> <Big Rivers Range Forecasts-2013.xlsx>

**From:** Lindsay Barron  
**Sent:** Wednesday, April 17, 2013 9:21 AM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Re: Forecast updates

Does look like it works in 2021-2024? Am I looking wrong?

Sent from my iPhone

On Apr 17, 2013, at 9:02 AM, "John Hutts" <John.Hutts@gdsassociates.com> wrote:

> Looks like the changes we made to the high range economic scenario works. Take a look (range case file) and let me know if you are good to go with me updating and sending you an updated final report.

>

> John W. Hutts | Principal

> GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA.

> 30067

> 770.425.8100 (Office) | 770.799.2419 (Direct)

> john.hutts@gdsassociates.com<mailto:clay.thomason@gdsassociates.com>

>

>

> <Model Tables\_v3.xlsx>

> <Big Rivers Forecast\_2013-2016\_v4.xlsx>

> <BigRiversMonthlyOutput\_v4.xlsx> <Big Rivers Range

> Forecasts-2013.xlsx> <Big Rivers Direct Serve 2013-2016\_Final.xlsx>

---

**From:** Lindsay Barron  
**Sent:** Tuesday, April 16, 2013 9:52 PM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

John,

Thank you so much for your quick turn around. I had a few changes and a question...

At the bottom of page 1, the <sup>2</sup> Needed to be change from 2016 to 2018

On B-3, B-4, B-5 there is a #DIV/0! Error at the bottom.

On B-6, we didn't include the leap year in years 2020, 2024, and 2028---IF THIS CREATES A LOT OF WORK, WE CAN SKIP THIS FIX.

On C-1 C-2 and C-3, in the optimistic economic scenario, I failed to mention that we wouldn't replace more than the 800MW of load, thus we are overstating the Total System Energy and Peak. I think we should cap the total system Optimistic Economic at the Base Case. We increased the amount of load replacement we were classifying as Large Industrial, but I think we should still cap the overall replacement at the amount in the base case. We don't want to show any scenarios that would result in us having to build for the IRP. I think we can solve this problem by making the Optimistic Economic on C-1 C-2 and C-3 equal to the Base Case in every year it is currently exceeding the base case.

C-4 Charts will need to reflect the adjustments above.

And the question....why are the stats on the Meade Co Residential Use Model so much worse than Kenergy and JP? See D-9.

Again, John, thank you so much!

L☺

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, April 16, 2013 9:10 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

Please disregard the files I sent earlier this evening. I found a couple items that did not get updated, and this version includes the updated range forecast. I will be at a meeting all day Friday, so let's talk tomorrow or Thursday if possible. The Word document and report pdf are currently highlighted in the areas of the report that were updated.

John

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, April 16, 2013 7:04 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

John,

I need one more change. On page 24, we talk about the forecast scenarios. For the direct serves, I'd like to change it to show the optimistic scenario assumes the following load replacement:

	ADD	CUMULATIVE
2016	100	100
2017	200	300
2018	200	500

I'd like to remove all mention of the smelters staying on the system—this will be contractually impossible.

Again, sorry for the fire drill!

Thanks so much!!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, April 16, 2013 5:43 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast

Will get it done tonight

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, April 16, 2013 6:41 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Load Forecast  
**Importance:** High

John,



I hate to spring this change on you, but we've run into a snag on the LF. We need to push the Load Recovery from 2016 to 2018. Attachment for Response to KIUC 1-92

I need it to show up as:

2018	100
2019	100
2020	200
2021	200
2022	200

Can you please let me know when you will be able to implement this change in the report. I need it as soon as you can get it.

Sorry for the rush!

Lindsay☺

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*

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**From:** Lindsay Barron  
**Sent:** Friday, April 12, 2013 2:00 PM  
**To:** Michael Mattox  
**Subject:** Re: Updated Forecast Report

He's not Looking that far out

Sent from my iPhone

On Apr 12, 2013, at 1:07 PM, "Michael Mattox" <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)> wrote:

The fact that "New Load" was not previously provided to Wolfram.

---

**From:** Lindsay Barron  
**Sent:** Monday, April 08, 2013 5:56 PM  
**To:** Michael Mattox  
**Subject:** Re: Updated Forecast Report

What will be different?

Sent from my iPhone

On Apr 8, 2013, at 5:11 PM, "John Hutts" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)> wrote:

The changes we discussed are included in the attached. I also added the New Load to the short-term forecast in Appendix A. This will now be different than what you provided to Wolfram, so let me know if you want to put it back the way it was.

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

<2013 Load Forecast\_BigRivers\_04-08-13.pdf>

<Appendix.pdf>

---

**From:** Lindsay Barron  
**Sent:** Monday, April 08, 2013 8:23 AM  
**To:** 'John Hutts'; Michael Mattox  
**Subject:** RE: Call this morning

We will call you. Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Monday, April 08, 2013 8:22 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Call this morning

You will be calling me? I'll have a glance session going if needed.

[www.johnh.gds.glance.net](http://www.johnh.gds.glance.net)  
session key: 1850

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Friday, April 05, 2013 6:14 PM  
**To:** 'John Hutts'; Michael Mattox  
**Subject:** RE: Load Forecast Report

How does 8:30 Central work on Monday? Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Thursday, April 04, 2013 10:52 PM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Load Forecast Report

Attached is the load forecast report. It's a draft, as I will have someone rework the model outputs in Appendix D. We may want to print the Appendices using a landscape format. I also noticed that we have not hidden rows for 1997-2001 in the Appendix B tables.

We've prepared this forecast in short order for the RUS filing, but we should consider the analysis that's been conducted and what you might need to provide to the KPSC in the IRP filing next year. I would suggest updating the projections and beefing up the report to include a scenario, analysis, or discussion of EPA impacts.

I will need to leave the office at 3 p.m. EDT on Friday, so let's schedule at time for late morning or early afternoon if you want to discuss the report. I'll be in Monday if you want to spend more time reviewing it.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Tuesday, April 02, 2013 9:14 PM  
**To:** John Hutts  
**Subject:** Re: Replacement Load

Yes. Thanks

Sent from my iPhone

On Apr 2, 2013, at 7:18 PM, "John Hutts" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)> wrote:

Is this cumulative (i.e., selling 600 MW by 2020 and every year thereafter)?

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Tuesday, April 02, 2013 2:59 PM  
**To:** Michael Mattox  
**Cc:** John Hutts; Eric Hebble  
**Subject:** Re: Replacement Load

This should be incorporated in this LF. I like the proposed heading. Thanks!

Sent from my iPhone

On Apr 2, 2013, at 12:41 PM, "Michael Mattox" <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)> wrote:

Lindsay,

I was talking to John this morning about projections for replacing the smelter load that were discussed in my office yesterday with Bob.

You sketched out the following projections of new load on the white board as follows:

2016 – 100 MW  
2017 – 100 MW  
2018 – 100 MW  
2019 – 100 MW  
2020 – 200 MW

Due to the unknown nature of the projected load, i.e. rural, large industrial, PPA, etc a 75% load factor was assumed.

I was discussing with John how this should be incorporated in the base case Load Forecast for RUS. Since RUS requires the forecast by rate class and the class for this load is unknown and for clarity it should be listed in a separate column, with a heading such as "Projected New Load".

Please confirm that John should incorporate this in the Load Forecast that is currently being prepared vs. handling this after-the-fact.

Thanks

Mike

---

**From:** Lindsay Barron  
**Sent:** Thursday, March 28, 2013 8:57 AM  
**To:** Michael Mattox  
**Subject:** Fwd: Updated Load Forecast Presentation

Sent from my iPhone

Begin forwarded message:

**From:** Greg Starheim <[GStarheim@kenegycorp.com](mailto:GStarheim@kenegycorp.com)>  
**Date:** March 28, 2013, 8:47:34 AM CDT  
**To:** Lindsay Barron <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)>, John Newland <[JNewland@kenegycorp.com](mailto:JNewland@kenegycorp.com)>, Steve Thompson <[SThompson@kenegycorp.com](mailto:SThompson@kenegycorp.com)>, David Hamilton <[DHamilton@kenegycorp.com](mailto:DHamilton@kenegycorp.com)>  
**Cc:** Bob Berry <[Bob.Berry@bigrivers.com](mailto:Bob.Berry@bigrivers.com)>, "John Hutts ([John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com))" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)>  
**Subject:** RE: Updated Load Forecast Presentation

Lindsay,

Kenergy has no additional comments to the draft Kenergy Load Forecast.

Greg

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Monday, March 25, 2013 4:38 PM  
**To:** Greg Starheim; John Newland; Steve Thompson; David Hamilton  
**Cc:** Bob Berry; Michael Mattox; John Hutts ([John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com))  
**Subject:** Updated Load Forecast Presentation

Gentlemen,

In an effort to clarify whether the rate increase impact was included in the forecast, slide 3 was tweaked. Also, John made a tweak to the average calculations on slide 2—this does not change the forecast, just the averages. If you have any questions, please feel free to give us a call.

Thanks!

Case No. 2013-00199  
Attachment for Response to KIUC 1-92  
Witness: Robert W. Berry  
Page 56 of 156

Lindsay

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, March 25, 2013 2:40 PM  
**To:** Lindsay Barron  
**Subject:** KenergyREV.pptx

Lindsay,

Attached is a revised presentation for Kenergy. In addition to changing the wording on slide 3, I've revised the amounts in the table on slide 2. The rule averaging the number of customer in years 2013-2016 was off by a month, so the number of customers and average use per customer change slightly. Overall energy and peak forecast is the same.

John

---

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**From:** Lindsay Barron  
**Sent:** Wednesday, March 27, 2013 12:45 PM  
**To:** Bob Berry  
**Cc:** Michael Mattox  
**Subject:** Fwd: Confirms

Sent from my iPhone

Begin forwarded message:

**From:** John Hutts <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)>  
**Date:** March 27, 2013, 12:39:24 PM CDT  
**To:** Lindsay Barron <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)>  
**Subject:** RE: Confirms

Lindsay, it looks like we went with most, if not all, of Kenergy's counties. We did not include retail sales in any of the forecasting models.

Area County

JPEC Ballard  
JPEC Carlisle  
JPEC Graves  
JPEC Livingston  
JPEC Marshall  
JPEC McCracken

MCRECC Breckinridge  
MCRECC Grayson  
MCRECC Meade  
MCRECC Ohio

KENERGY Caldwell  
KENERGY Crittenden  
KENERGY Daviess



KENERGY Hancock  
KENERGY Henderson  
KENERGY Hopkins  
KENERGY Lyon  
KENERGY Mclean  
KENERGY Ohio  
KENERGY Union  
KENERGY Webster

-----Original Message-----

From: Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
Sent: Wednesday, March 27, 2013 12:58 PM  
To: John Hutts  
Subject: Confirms

Can you tell me which counties are included in Kenergy's number from Moody's?

Also, you included real retail sales on slide 4. Is it included in any of your calcs? Thanks!

Sent from my iPhone

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[Redacted]

---

**From:** Lindsay Barron  
**Sent:** Tuesday, March 26, 2013 10:52 AM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** RE: Real price increase in model

This looks good. Thanks. Since we didn't use the price elasticity on the LI class, can you please delete our price projections from your spreadsheets....I don't want anyone getting confused in the future. Thanks!

L:)

---

**From:** John Hutts [John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, March 26, 2013 10:47 AM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** FW: Real price increase in model

Forgot to copy Mike

---

**From:** John Hutts  
**Sent:** Tuesday, March 26, 2013 11:47 AM  
**To:** 'Lindsay Barron'  
**Subject:** RE: Real price increase in model

No problem. This is the file you sent me early on. I've computed the real price increases using the GDP deflator obtained from Moody's. Give me a call if you want to discuss.

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, March 26, 2013 11:39 AM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Real price increase in model

John,

Greg Starheim has questioned me on the real price increase of 39% from 2012 to 2016. Can you tell me how GDP is changing over that timeframe. What is the inflation rate assumed?

thanks and sorry for all the questions. :)

L:)

---

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**From:** Lindsay Barron  
**Sent:** Friday, March 22, 2013 4:24 PM  
**To:** John Hutts  
**Subject:** Re: Total personal income

Thanks have a great weekend.

On Mar 22, 2013, at 4:23 PM, "John Hutts" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)> wrote:

Yes

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Friday, March 22, 2013 5:20 PM  
**To:** John Hutts  
**Subject:** RE: Total personal income

So to confirm, you took total personal income and divided by number of households? Correct?

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Friday, March 22, 2013 4:17 PM  
**To:** Lindsay Barron  
**Subject:** Total personal income

I was not able to reach Moody's, but I did find a couple of definitions of total personal income, which includes income received from sources other than just earnings from employers.

BEA:

**Personal income** is the income received by all persons from all sources. Personal income is the sum of net earnings by place of residence, property income, and personal current transfer receipts. **Property income** is rental income of persons, personal dividend income, and personal interest income. **Net earnings** is earnings by place of work (the sum of wage and salary disbursements, supplements to wages and salaries, and proprietors' income) less contributions for government social insurance, plus an adjustment to convert earnings by place of work to a place-of-residence basis. Personal income is measured before the deduction of personal income taxes and other personal taxes and is reported in current dollars (no adjustment is made for price changes).

**Investopedia:**

Total compensation received by an individual. Personal income includes compensation from a number of sources - salaries, wages and bonuses received from employment or self-employment; dividends and distributions received from investments; rental receipts from real estate investments; profit-sharing from a business and so on. In most jurisdictions, personal income above a certain exemption threshold is subject to taxation<image001.png>. Personal income is generally computed on a pre-tax basis

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067

770.425.8100 (Office) | 770.799.2419 (Direct)

[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



**From:** Lindsay Barron  
**Sent:** Friday, March 22, 2013 12:27 PM  
**To:** 'John Hutts'  
**Subject:** RE: Kenergy Load Forecast Summary

Could you please do modify this presentation for JP....they're asking questions now. Thank you!!

L☺

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Thursday, March 21, 2013 7:38 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Kenergy Load Forecast Summary

Please review and advise. Thank you.

---

**From:** Lindsay Barron  
**Sent:** Thursday, March 21, 2013 10:31 AM  
**To:** gstarheim@kenergycorp.com; John Newland (JNewland@kenergycorp.com); Steve Thompson; David Hamilton (DHamilton@kenergycorp.com)  
**Cc:** Bob Berry; Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** Kenergy.pptx  
**Attachments:** Kenergy.pptx

Gentlemen,

Attached is a summary presentation GDS prepared on your load forecast. If you have any questions, please let us know. Thanks!

Lindsay

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*



**From:** Lindsay Barron  
**Sent:** Thursday, March 21, 2013 8:48 AM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Kenergy Load Forecast Summary

John,

This looks great. I will forward to Kenergy. Thanks!!!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Thursday, March 21, 2013 7:38 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Kenergy Load Forecast Summary

Please review and advise. Thank you.

---

**From:** Lindsay Barron  
**Sent:** Wednesday, March 20, 2013 12:41 PM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Big Rivers load forecast

Thanks John. I'll call Gerry. I've talked with him on several occasions.

L☺

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, March 20, 2013 12:38 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** Big Rivers load forecast

Lindsay,

I got your phone message. I'll have the forecast and report for Big Rivers completed by April 3<sup>rd</sup>. You or Mike can call Gerry Moore at RUS to discuss the work plan, unless you want me to call him. We just want to make sure he has no problem developing models at the rural system level and allocating to residential, small commercial, and lighting for the member systems but keeping the Big Rivers report at the rural system and direct serve level. I'll put together a summary of the forecast for Kenergy and deliver to you for review. Thank you again for asking me to help you all on the forecast.

Thanks,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Tuesday, March 19, 2013 7:15 PM  
**To:** 'John Hutts'  
**Subject:** RE: Updated Load Forecast

I got it. Thank you!!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, March 19, 2013 6:13 PM  
**To:** Lindsay Barron  
**Subject:** RE: Updated Load Forecast

Hopefully you have received it within the last 10 minutes or so. Let me know otherwise.

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, March 19, 2013 5:51 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** FW: Updated Load Forecast  
**Importance:** High

John,

The modeling folks just left my office and have indicated they DO need the 2017 LF. Is that something you can provide tomorrow? Sorry for all the confusion. Thanks!

L☺

---

**From:** Michael Mattox  
**Sent:** Tuesday, March 19, 2013 2:17 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron  
**Subject:** RE: Updated Load Forecast  
**Importance:** High

John,

Following up on my voicemail. We just found out the output needs to extend to 2017. Please update and email the spreadsheet ASAP.

Case No. 2013-00199  
Attachment for Response to KIUC 1-92  
Witness: Robert W. Berry  
Page 68 of 156

Thanks

Mike M.

---

**From:** Michael Mattox  
**Sent:** Tuesday, March 19, 2013 1:36 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron ([Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com))  
**Subject:** FW: Updated Load Forecast

John,

It looks like "Big Rivers Forecast\_2013-2016\_v3.xlsx" is linked to an old version of the Direct Serve file. I believe your latest Direct Serve file is "Big Rivers Direct Serve 2013-2016\_Fianl.xlsx", which you emailed on March 10. You corrected a few things I emailed you about on March 8 for 2015 and leap year in 2016.

Mike

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, March 11, 2013 6:15 PM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Updated Load Forecast

I've attached the Big Rivers forecast file and the BigRiversMonthlyOutput file, which contains the individual member coop energy forecasts. Spreading the price increase over 2014-2016 softens to blow in 2014, but because we now have higher price increases in 2015 and 2016 (years that otherwise have higher average use values than 2014), the total kWh by 2016 is slightly lower than what we had in the previous run. Still, I think this forecast scenario makes more sense than assuming the entire price impact will take place in one year. Tuesday I have a meeting from 12:30 p.m. to 2:00 p.m. eastern and a call at 4:30 eastern, but otherwise am available. I'll see what I can find on Paducah Power this evening.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Tuesday, March 19, 2013 7:05 PM  
**To:** 'John Hutts'; Michael Mattox  
**Subject:** RE: Updated Load Forecast

Thanks John!!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, March 19, 2013 5:54 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** RE: Updated Load Forecast

Updated files attached. Added 2017 and changed link to current file with Direct Serve customers. The energy and demand amounts in 2015 and 2016 changed ever so slightly (e.g., rural energy in 2015 changed by 0.008%). I'm guessing I dropped or added a decimal point when re-running the models and transferring model outputs to spreadsheets. No change to the Direct Serve file other than the name.

Elasticity documents attached:

EIA\_AEO2008\_Residential.pdf see page 4 of 7 for highlight

EIA\_AEO2012\_Residential.pdf see page 32 of report

NREL.pdf see page 72

Jel052407.pdf see Table 2 at page 50 of pdf

ESPEY JAAE 20April202004.pdf see page 69 of report

NDL2011-001.pdf see top of Table 10

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Tuesday, March 19, 2013 3:17 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** RE: Updated Load Forecast  
**Importance:** High

John,

Following up on my voicemail. We just found out the output needs to extend to 2017. Please update and email the spreadsheet ASAP.

Case No. 2013-00199  
Attachment for Response to KIUC 1-92  
Witness: Robert W. Berry  
Page 70 of 156

Thanks

Mike M.

---

**From:** Michael Mattox  
**Sent:** Tuesday, March 19, 2013 1:36 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron ([Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com))  
**Subject:** FW: Updated Load Forecast

John,

It looks like "Big Rivers Forecast\_2013-2016\_v3.xlsx" is linked to an old version of the Direct Serve file. I believe your latest Direct Serve file is "Big Rivers Direct Serve 2013-2016\_Fianl.xlsx", which you emailed on March 10. You corrected a few things I emailed you about on March 8 for 2015 and leap year in 2016.

Mike

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, March 11, 2013 6:15 PM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Updated Load Forecast

I've attached the Big Rivers forecast file and the BigRiversMonthlyOutput file, which contains the individual member coop energy forecasts. Spreading the price increase over 2014-2016 softens to blow in 2014, but because we now have higher price increases in 2015 and 2016 (years that otherwise have higher average use values than 2014), the total kWh by 2016 is slightly lower than what we had in the previous run. Still, I think this forecast scenario makes more sense than assuming the entire price impact will take place in one year. Tuesday I have a meeting from 12:30 p.m. to 2:00 p.m. eastern and a call at 4:30 eastern, but otherwise am available. I'll see what I can find on Paducah Power this evening.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** Lindsay Barron  
**Sent:** Tuesday, March 19, 2013 5:50 PM  
**To:** 'Steve Thompson'; Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Cc:** Bob Berry  
**Subject:** RE: load forecast

Sounds great! Bob will likely join us so he can get a feel for the numbers as well--he has been out of the office and will appreciate the opportunity to hear John's explanation as well.

Thanks!

---

**From:** Steve Thompson [mailto:SThompson@kenegy.com]  
**Sent:** Tuesday, March 19, 2013 2:50 PM  
**To:** Lindsay Barron; Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** load forecast

Greg has indicated he is available tomorrow morning at 9am CDT.  
He would like for John Hutts to walk through the models discussing key statistical data and inputs for the variables.  
Please advise of the call in numbers.  
thanks

---

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---

**From:** Lindsay Barron  
**Sent:** Tuesday, March 19, 2013 1:07 PM  
**To:** 'John Hutts'  
**Cc:** Michael Mattox  
**Subject:** RE: Forecast results

Works for me

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, March 19, 2013 12:24 PM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** RE: Forecast results

I have a teleconference from 2-3 eastern, so anytime after then. How about 2:30 central?

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, March 19, 2013 11:50 AM  
**To:** John Hutts; Michael Mattox  
**Subject:** RE: Forecast results

Probably ☺ When are you available?

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, March 19, 2013 10:49 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Forecast results

Do we need to have a follow up on this morning's call?

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** Lindsay Barron  
**Sent:** Monday, March 18, 2013 3:06 PM  
**To:** 'Steve Thompson'  
**Cc:** Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** RE: Rates for GDS.xlsx

Yes, these include both the century and alcan rate increase.

Please note, the economics used in this forecast assume that the Century and Alcan remain in operation (thus no economic impact on West KY was assumed from the loss of jobs, etc.)

---

**From:** Steve Thompson [mailto:SThompson@kenegycorp.com]  
**Sent:** Monday, March 18, 2013 3:03 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** RE: Rates for GDS.xlsx

Thanks. Do these rates include the loss of the Alcan load?

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Monday, March 18, 2013 2:19 PM  
**To:** Steve Thompson  
**Cc:** Michael Mattox; John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** Rates for GDS.xlsx

Steve,

Attached are the rates used by GDS for the rural forecast. Please keep in mind, these numbers will NOT align with the rate case increase projections. The rate case increase projections are a comparison of 2014 (with old rates) versus 2014 (with new rates). The year over year increase shown here not only takes into account the rate case increases, but also takes into account the year-over-year increases in riders. This is the appropriate information to use because it is what the customer will experience, but it doesn't match the rate case projections which have been floating around (in the 30-35% range) because the rate case projections do not account for YoverY increases in riders.

If you have any questions, please let me know.

Thanks!

Lindsay



**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, March 21, 2013 7:38 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Kenergy Load Forecast Summary  
**Attachments:** Kenergy.pptx

Please review and advise. Thank you.

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, March 25, 2013 1:04 PM  
**To:** Eric Hebble  
**Cc:** Michael Mattox; Lindsay Barron  
**Subject:** Native Requirements

Eric,

Can you please send us native system sales, peak demand, and total requirements for 2011 and 2012? I want to make sure my amounts match yours exactly.

Thanks,  
John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** Lindsay Barron  
**Sent:** Thursday, March 14, 2013 9:36 AM  
**To:** Steve Thompson; John.Hutts@gdsassociates.com  
**Cc:** Michael Mattox  
**Subject:** Re: Load Forecast

John, can you also respond to the first question? We're still working on determining our long term approach for the forecast. Thanks!

Sent from my iPhone

On Mar 14, 2013, at 9:24 AM, "Steve Thompson" <[SThompson@kenegy.com](mailto:SThompson@kenegy.com)> wrote:

Please confirm these numbers do not include the 15 rural three phase over 1000kw customers.  
Also, Kenergy is required by RUS to prepare a ten year financial forecast as a key document in the upcoming loan application.  
Please let me know if GDS can expand the forecast horizon to include the years 2017-2022.

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Thursday, March 14, 2013 7:51 AM  
**To:** Steve Thompson  
**Cc:** Michael Mattox  
**Subject:** Load Forecast

Steve,

Attached is the updated information from Hutts. Please let us know if you have any questions. Thanks!

Lindsay

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*

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**From:** Lindsay Barron  
**Sent:** Thursday, March 14, 2013 9:34 AM  
**To:** John.Hutts@gdsassociates.com  
**Cc:** Steve Thompson; Michael Mattox  
**Subject:** Fwd: Load Forecast

John, Can u answer this for Steve? I'm in a mtg. Thanks!

Sent from my iPhone

Begin forwarded message:

**From:** Steve Thompson <[SThompson@kenegycorp.com](mailto:SThompson@kenegycorp.com)>  
**Date:** March 14, 2013, 9:16:46 AM CDT  
**To:** Lindsay Barron <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)>  
**Cc:** Michael Mattox <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)>  
**Subject:** RE: Load Forecast

Please confirm the numbers under Rural MWH column are sales and not purchases from BREC.

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Thursday, March 14, 2013 7:51 AM  
**To:** Steve Thompson  
**Cc:** Michael Mattox  
**Subject:** Load Forecast

Steve,

Attached is the updated information from Hutts. Please let us know if you have any questions. Thanks!

Lindsay

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419*

270.844.6194 office  
270.993.1594 mobile

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**From:** Lindsay Barron  
**Sent:** Wednesday, March 13, 2013 1:49 PM  
**To:** 'John Newland'; Michael Mattox; Steve Thompson  
**Cc:** John Hutts  
**Subject:** RE: Load Forecast Review Follow-Up

I'm open all day.

---

**From:** John Newland [mailto:JNewland@kenegy.com]  
**Sent:** Wednesday, March 13, 2013 1:46 PM  
**To:** Michael Mattox; Steve Thompson  
**Cc:** Lindsay Barron; John Hutts  
**Subject:** RE: Load Forecast Review Follow-Up

I'm ok except for 11-1:30

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Wednesday, March 13, 2013 1:15 PM  
**To:** Steve Thompson  
**Cc:** Lindsay Barron; John Newland; John Hutts  
**Subject:** RE: Load Forecast Review Follow-Up

Steve:  
Hutts is only available from 1 to 3pm on Mon.

How does everyone's schedule look on Tuesday?

Sent from my Windows Phone

---

**From:** Steve Thompson  
**Sent:** 3/13/2013 12:00 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron; John Newland  
**Subject:** RE: Load Forecast Review Follow-Up

I am trying to set up a meeting with Greg to discuss before we get back together.  
It would be better to have a conference call if possible. I am available for a call at 3pm on Monday.

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Wednesday, March 13, 2013 11:45 AM  
**To:** Steve Thompson  
**Cc:** Lindsay Barron  
**Subject:** RE: Load Forecast Review Follow-Up

Steve,

I saw you declined the meeting request for Monday. Do you know when you might be ready/available next week for a follow-up call with GDS?

Thanks

Mike M.

-----Original Appointment-----

**From:** Steve Thompson [mailto:SThompson@kenergycorp.com]  
**Sent:** Wednesday, March 13, 2013 10:55 AM  
**To:** Michael Mattox  
**Subject:** New Time Proposed: Load Forecast Review Follow-Up  
**When:** Monday, March 18, 2013 1:00 PM-3:00 PM (GMT-06:00) Central Time (US & Canada).  
**Where:** HQ Conference Room 4A Between Production & Fuels Area

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---

**From:** Lindsay Barron  
**Sent:** Monday, March 11, 2013 9:48 AM  
**To:** Michael Mattox; 'John Hutts'  
**Subject:** RE: load forecast

Agreed. Thanks!

---

**From:** Michael Mattox  
**Sent:** Monday, March 11, 2013 9:28 AM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron  
**Subject:** FW: load forecast

Lindsay,

I think we should have John set up Glance sessions for the calls.

---

**From:** Steve Thompson [<mailto:SThompson@kenergycorp.com>]  
**Sent:** Monday, March 11, 2013 9:23 AM  
**To:** Michael Mattox  
**Cc:** John Newland  
**Subject:** load forecast

Please add John Newland to the distribution list.

Please confirm that there is not a draft report or any information we should have for the call.

---

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**From:** Lindsay Barron  
**Sent:** Monday, March 11, 2013 8:45 AM  
**To:** John Hutts; Michael Mattox; Eric Hebble  
**Subject:** RE: Agenda for today's calls

I'm good with your approach. Did we include price elasticity in Industrials? Its fine to tell them 40% on rural. I agree with the high-level approach. Thanks!

Sent from my Windows Phone

---

**From:** John Hutts  
**Sent:** 3/11/2013 8:16 AM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Agenda for today's calls

I want to make sure I am on the same page as you all before proceeding with the calls today. It is my understanding that you will want me to discuss the respective energy forecasts and models with each coop and then the overall Big Rivers energy forecast. I'll also cover the Big Rivers peak demand model and forecast. I hope we can keep it at a high level so that we don't bog down on too many details and open to forecast up for changes that might be difficult to support during the hearing. I also don't want to put you on the spot regarding the price forecast, so let me know how much or little you want me to discuss. I think we should tell them that our retail price forecast is based on Big Rivers' analysis and that it shows about a 40% increase in 2014 and changes less than 1% in 2013, 2015-2016. Would you like for me to establish Glance sessions so that everyone can see the forecast files?

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** Lindsay Barron  
**Sent:** Wednesday, February 20, 2013 7:03 PM  
**To:** 'John Hutts'  
**Subject:** RE: Rates for GDS.xlsx

Great. Mike and I will call you. Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, February 20, 2013 6:59 PM  
**To:** Lindsay Barron  
**Subject:** RE: Rates for GDS.xlsx

3:30 central will be fine. You can reach me at 770-799-2419 whenever you are ready, or I'll be glad to call you.

John

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Wednesday, February 20, 2013 7:56 PM  
**To:** John Hutts  
**Subject:** RE: Rates for GDS.xlsx

They haven't been deflated to any base year, but they are the actual rates expected in each particular year (they have inflated costs versus today).

Does tomorrow at 3:30 Central work for you? I too share a concern...that was our main driver for the reforecast--to see if there is an impact.

Thanks!

L☺

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, February 20, 2013 6:22 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** Re: Rates for GDS.xlsx

It appears these rates are in nominal amounts. I will use the GDP deflator to express them in real terms unless you say they have already been deflated.

These are significant increases. I'm a bit concerned with the potential impacts on consumption. Are you available anytime tomorrow afternoon for a brief call?

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Feb 20, 2013, at 7:03 PM, "Lindsay Barron" <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)> wrote:

John,

Attached are the historical and estimated rates for our Members. Please note, I've included a rural rate for Meade and Kenergy and a rural rate for JP. Also, I ended up with just one industrial rate.

Please let me know if you have any questions or need any additional information.

Please don't share this with others. This is sensitive information.

Thanks!

Lindsay☺

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<Rates for GDS.xlsx>



**From:** Lindsay Barron  
**Sent:** Tuesday, February 19, 2013 9:10 PM  
**To:** John Hutts (John.Hutts@gdsassociates.com)  
**Subject:** Help with a question for the rate case, please.

John,

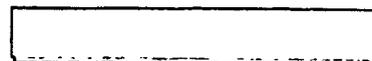
Can you please tell me if you agree with my statement below. Any edits are appreciated. Thanks!

*Item 206. Provide spreadsheets with formulas and links intact, and related documents which show how Big Rivers estimated and accounted for the effects of a) price elasticity of demand for electricity, and b) demand side management programs in its financial presentation of the rate case request (budgets, financial and operational modeling, test period results).*

Response) GDS Associates, Inc. included the price elasticity of demand as a component of Big Rivers' load forecast; however, the rate increase associated with this filing was not incorporated because the forecast was prepared prior to Century's notice of closure. Big Rivers has no spreadsheets which show the effects of price elasticity, as the calculations occur within a proprietary model used by GDS Associates.

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24*

*Henderson, KY 42419*  
*270.844.6194 office*  
*270.993.1594 mobile*



---

**From:** Lindsay Barron  
**Sent:** Wednesday, February 13, 2013 6:22 PM  
**To:** 'John Hutts'  
**Subject:** RE: Price forecast

That works for me. Thanks for your help with this!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, February 13, 2013 6:21 PM  
**To:** Lindsay Barron  
**Subject:** Re: Price forecast

We were talking four weeks, so sometime during the first week of March should work. Will that fit your schedule?

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Feb 13, 2013, at 7:17 PM, "Lindsay Barron" <Lindsay.Barron@bigrivers.com> wrote:

What is your target delivery date for demand and energy numbers? Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, February 13, 2013 6:14 PM  
**To:** Lindsay Barron  
**Subject:** Re: Price forecast

Not yet. We are making progress setting up models, so whenever you can get prices projected within the next week or so will be ok. Thanks.

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800

Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Feb 13, 2013, at 6:39 PM, "Lindsay Barron" <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)> wrote:

John,

I've run into snags on the price forecast. Am I holding you up at this point? Thanks!

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*

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**From:** Lindsay Barron  
**Sent:** Tuesday, February 12, 2013 10:43 AM  
**To:** John Hutts  
**Cc:** Michael Mattox; Eric Hebble  
**Subject:** RE: load forecast update

I'm working on this....I've been struggling with Shell Oil. JP didn't want to go with an average for industrials.

I'll have something today

Sent from my Windows Phone

---

**From:** John Hutts  
**Sent:** 2/12/2013 10:28 AM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox; Eric Hebble  
**Subject:** FW: load forecast update

Lindsay,

I asked Steve Thompson about projected revenue per kWh for years 2013-2016, and he asked me to get with you. I see the 3.3 cent adder for residential. Is this adder good for all rural customers? Also, I'll need the projected wholesale rate increases for those years.

Thank you,  
John

---

**From:** Steve Thompson [mailto:SThompson@kenegycorp.com]  
**Sent:** Tuesday, February 12, 2013 10:56 AM  
**To:** John Hutts  
**Subject:** FW: load forecast update

See the emails below. Please check with Lindsay Barron on the information you requested of me this morning.  
thanks

---

**From:** Steve Thompson  
**Sent:** Wednesday, February 06, 2013 4:21 PM

**To:** 'Lindsay Barron'  
**Subject:** RE: load forecast update

That would be fine with me. I would need to mention that Kenergy is planning on a rate increase of approximately 3% in 2016 and 4% in 2020.

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Wednesday, February 06, 2013 4:15 PM  
**To:** Steve Thompson  
**Cc:** Michael Mattox; Billie Richert; Travis Siewert; Bob Berry  
**Subject:** RE: load forecast update

Steve,

I'm working with Travis to determine an estimate for both the residential and industrial wholesale rate going forward. As you state below, it's going to be rough and based on models that were used in the Load Concentration Analysis and Mitigation Plan for Big Rivers that was completed mid-2012.

I'm glad to provide GDS an estimate for all three coops. Are you comfortable with that approach?

I would suggest taking our projected wholesale rate and adding an average adder for both residential and industrial. Are you comfortable with a 3.3 cent adder for residential and .15 cent adder for industrial?

Thanks for helping us to get this info to GDS. We appreciate you making this a priority.

Lindsay

---

**From:** Steve Thompson [mailto:SThompson@kenergycorp.com]  
**Sent:** Wednesday, February 06, 2013 3:54 PM  
**To:** Billie Richert  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** load forecast update

When talking to John Hutts today relative to the load forecast update, he requested a retail electricity price projection for the Kenergy rural & industrials excluding smelters.

Is there a new projection included in the Jan. 15<sup>th</sup> rate application?

With the Alcan termination notice, does BREC have a rough estimate of how much to add for the new rate filing?

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---

**From:** Lindsay Barron  
**Sent:** Wednesday, February 06, 2013 2:45 PM  
**To:** 'John Hutts'; Eric Hebble  
**Cc:** Michael Mattox  
**Subject:** RE: Big Rivers Data, Part 2

I believe we want to represent only the contract amount for Domtar. As we have a special contract with them that dictates how they will pay for "backup" energy in excess of their contract, we should only project their contract take. Others thoughts?

Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, February 06, 2013 2:40 PM  
**To:** Eric Hebble  
**Cc:** Michael Mattox; Lindsay Barron  
**Subject:** RE: Big Rivers Data, Part 2

Thanks Eric. I guess we should all get on the same page regarding what the forecast should present regarding historical and projected kWh and kW. I believe the historical series should reflect actual consumption, even if one or more customers (e.g., Domtar) used more than their respective contractual caps. If this is the case, go ahead and send me the actual consumption for Domtar. Regarding the forecast horizon, it may be that we want to project the maximum of recent history adjusted for known operational changes, or the contract amount. Thoughts?

John

---

**From:** Eric Hebble [mailto:eric.hebble@bigrivers.com]  
**Sent:** Wednesday, February 06, 2013 3:26 PM  
**To:** John Hutts  
**Cc:** Michael Mattox; Lindsay Barron  
**Subject:** Big Rivers Data, Part 2

John,

The attached file contains the industrial direct-serve customer data that you requested. The attached workbook's 'mwh' tab contains the monthly totals (in MWh) for each of our current direct-serve customers. In an attempt to tie my data with whatever numbers that you already have (since there have been a number of name changes in the intervening years), I list all of the company names that have been associated with each customer; in general, the most recent name is listed last.

There have also been a few changes to our roster of direct-serve customers since you last created a forecast for us:

- 1) **Armstrong Coal Big Run** closed in 2010 and so this customer's data is no longer included.
- 2) As for '**Dotiki #3**', our contract with them was amended in late 2012 to reflect much lower amounts of energy. Instead of giving you the actual meter values for Dotiki #3 (which would probably not reflect the new 'reality' very well), I provide what the monthly values would have been in 2011 and 2012 if the current contract terms were in place.
- 3) **Elk Creek Coal** went into production in late December 2012 and this customer has been taking increasing amounts of power ever since (particularly during the last half of January). Just so you can get a better idea of what has been going on at Elk Creek, I have included last month's hourly values (in KWh) on the attached workbook's 'elk creek january kwh' tab. We recommend that you seek out specific guidance about Elk Creek with Kenergy since we don't have the best idea about their contract provisions over here.
- 4) The values I provide for **Domtar** reflect the amount of energy that was provided under their monthly contractual cap, not their actual usage (i.e. contract power plus backup power). If you would like to have additional Domtar data, I can provide this to you very readily. It also bears mentioning that Domtar has been using much more power than their contractual cap would indicate since last summer and that this may continue through the 3Q of this year.
- 5) You will probably notice that **Patriot's** load has dwindled considerably since the beginning of 2011. We have been (unofficially) advised that Patriot has shut down their surface and underground operations for good and will likely end all operations at that facility during the next 6 months. We recommend that you also seek clarification from Kenergy on this as well.

Please feel free to contact me if I can make your life easier in any way. Brgds, ERIC HEBBLE

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, February 06, 2013 5:56 AM  
**To:** Eric Hebble  
**Cc:** Michael Mattox; Lindsay Barron  
**Subject:** Re: Big Rivers Data, Part 1

Many thanks for the quick provision of data Eric. We will let you know if we have any questions.

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Feb 6, 2013, at 2:48 AM, "Eric Hebble" <[eric.hebble@bigrivers.com](mailto:eric.hebble@bigrivers.com)> wrote:

John,



The attached file contains Big Rivers' 2011 and 2012 hourly weather data for Henderson (KEHR), Paducah (KPAH), and Louisville (KSDF) and Big Rivers' hourly rural loads. Both datasets are in CPT and loads are in MWh. As we are still deliberating about what to do regarding one particular direct-serve customer, I will send the direct-serve data after we have reached a decision later on today.

Please let me know if you have any questions or additional data needs.

With Kind Regards,  
ERIC HEBBLE

---

The information contained in this transmission is intended only for the person or entity to which it is directly addressed or copied. It may contain material of confidential and/or private nature. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is not allowed. If you receive this message and the information contained therein by error, please contact the sender and delete the material from your/any storage medium.

<Big Rivers Wx And Load Data.xlsx>

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Monday, April 01, 2013 12:43 PM  
**To:** Michael Mattox  
**Subject:** BigRiversMonthlyOutput\_v4.xlsx  
**Attachments:** BigRiversMonthlyOutput\_v4.xlsx

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, June 26, 2013 12:43 PM  
**To:** Michael Mattox  
**Cc:** Eric Hebble  
**Subject:** MetrixND files  
**Attachments:** JPECCModel\_03-26-13.NDM; KenergyModel\_03-26-13.NDM; MCRECCModel\_03-26-13.NDM

Attached are the MetrixND files for the three member coops. Let me know if you have a problem accessing them. We used RURALUSE\_MO model to project average use per rural customer. We also developed a total rural sales model RURALKWH\_MO, but it was not used. In the transformation table MONTHLYOUTPUT, normal use per customer is shown as RURALUSEn. Normal energy sales are presented as RURALKWHn, which are based on the total energy model. Since we based the total rural energy sales forecast on average use per customer times the number of customers, I'd use the RURALUSEn amounts to prepare any responses to RFIs.

Give me a call if you would like to discuss.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** Michael Mattox  
**Sent:** Thursday, February 07, 2013 9:05 AM  
**To:** 'John Hutts'  
**Cc:** Eric Hebble (eric.hebble@bigrivers.com)  
**Subject:** Price projections

John,

I have been asked to let you know that BREC will be providing you electricity price projections to you by the end of the week.

Mike M.

Michael J. Mattox  
Director, Resources & Forecasting  
Big Rivers Electric Corporation  
201 Third Street  
Henderson, KY 42420  
(270) 826-5669 (direct recorded)  
(270) 844-6155 (direct)  
(270) 827-2561 (BRECE switchboard)  
(270) 577-1617 (cell)  
(270) 827-2101 (fax)  
AOL IM: MikeMattoxBRECE

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, April 02, 2013 4:25 PM  
**To:** Michael Mattox  
**Subject:** RE: Direct Serve Customer Count

Thanks Mike. I'll be updating the tables tonight.

---

**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Tuesday, April 02, 2013 4:56 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron; Eric Hebble  
**Subject:** Direct Serve Customer Count

John,

Take a look at the Direct Serve Customer counts in the Model\_Tables\_v2 file vs. what I counted below.

I have the following Direct Serve Customer counts, including the smelters  
2013 – 22 (included Century since they exist for >50% of the year)  
2014 – 20 (lose Alcan and Century)

I saw what you were doing in the Direct Serve file on the Total tab to get a customer count and given your methodology Col S should be 25.

Looking at the Direct Serve file, the following have load in 2013

- 1-Alcan
- 2-Century
- 3-Accuride
- 4-Alcoa
- 5-Aleris
- 6-Am Dock
- 7-Am Equality
- 8-Am Lewis Creek
- 9-Domtar
- 10-Elk Creek
- 11-Hopkins
- 12-KBI
- 13-KC

14-Midway  
15-Pennyriple River Edge  
16-PreCoat  
17-Sebree KMMC  
18-Sebree Steamport  
19-Shell  
20-Southwire  
21-Tyson  
22-Valley

Mike

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Monday, April 01, 2013 6:36 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Long-term forecast file

Attached are the forecast tables file and the range forecast file. The most obvious change to the forecast tables file is adding the DSM/EE impacts, energy or demand w/o DSM/EE, and energy or demand with DSM/EE. We also hid rows with data before 2002, and updated the rules for the average growth summaries at the bottom of each sheet. The range forecast reflects energy and demand with DSM/EE. We will continue with documenting the report.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

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**From:** Michael Mattox  
**Sent:** Wednesday, April 03, 2013 2:12 PM  
**To:** 'John Hutts'  
**Subject:** RE: DSM

Also the formula in CB43 needs to be H21 not H23 to work with the updated DSM spreadsheet. Same change needed for AH43.

---

**From:** Michael Mattox  
**Sent:** Wednesday, April 03, 2013 2:09 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron ([Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)); Eric Hebble ([eric.hebble@bigrivers.com](mailto:eric.hebble@bigrivers.com))  
**Subject:** DSM

Big Rivers Forecast\_2013-2016\_v4.xlsx, Data tab cells M98:M109, should reference \$H\$11 not \$H\$9.

Model Tables\_v3, xlsx, cell CB43 is zero because we had Russ update the DSM spreadsheet only thru 2027.

I just extended his formulas he put in for 2027 to 2028 as you can see on the attached spreadsheet.

Mike

Michael J. Mattox  
Director, Resources & Forecasting  
Big Rivers Electric Corporation  
201 Third Street  
Henderson, KY 42420  
(270) 826-5669 (direct recorded)  
(270) 844-6155 (direct)  
(270) 827-2561 (BREC switchboard)  
(270) 577-1617 (cell)  
(270) 827-2101 (fax)  
AOL IM: MikeMattoxBREC

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, April 02, 2013 10:27 AM  
**To:** Michael Mattox  
**Subject:** RE: Long-term forecast file

I believe you don't have my latest Big Rivers Forecast\_2013-2016\_v4.xlsx, which has rules that sum the monthly amounts to the annual amounts. I believe if you open the Model Tables\_v2 file without allowing the links to update, you would have data for smelters in 2013-2014.

John

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Tuesday, April 02, 2013 10:08 AM  
**To:** John Hutts; Lindsay Barron  
**Cc:** Eric Hebble  
**Subject:** RE: Long-term forecast file

John,

I think I am going to email comments as we find them. And as long as we can make the necessary corrections to continue reviewing I would suggest you wait to send out updated file(s). If there is something that holds up the review then I will ask you to send updated file(s).

Here is the first comment:

"Model Tables\_v2.xlsx", Total Table tab, cells AB28 thru AB43 are pulling from "Big Rivers Forecast\_2013-2016\_v4.xlsx" for years 2013-2015 and Smelters.xlsx for years 2016-2028. While we do not have Smelter.xlsx, the 0 values for 2015-2028 are correct. But 2013-2014 should not be 0. The problem is "Big Rivers Forecast\_2013-2016\_v4.xlsx", Data tab, cells R116 thru R118 do not have a SUM formula as other cells in those rows do.

Mike M.

---

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**Sent:** Monday, April 01, 2013 6:36 AM  
**To:** Lindsay Barron; Michael Mattox  
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Attached are the forecast tables file and the range forecast file. The most obvious change to the forecast tables file is adding the DSM/EE impacts, energy or demand w/o DSM/EE, and energy or demand with DSM/EE. We also hid rows with data before 2002, and updated the rules for the average growth summaries at the bottom of each sheet. The range forecast reflects energy and demand with DSM/EE. We will continue with documenting the report.

John

**John W. Hutts | Principal**

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[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 2:10 PM  
**To:** 'John Hutts'  
**Subject:** RE: Revised load forecast

I figured out Feb 2016. It comes down to calculating the leap year as you did by using /365\*366 for everything vs. 29 days.

Lewis Creek  
 $3500 * .55 * 24 * 28 / 365 * 366 = 1,297,144$

Vs.

$3500 * .55 * 24 * 29 = 1,339,800$

I think on your Direct Serve TOTAL tab since you are looking at things monthly you should adjust for the leap year using /28\*29 rather than /365\*366.

Mike M.

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**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 1:29 PM  
**To:** 'John Hutts'  
**Subject:** RE: Revised load forecast

Direct Serve spreadsheet, Arm Lewis Creek tab, starting January 2015, number of hours in each month is off.

And in Feb 2016 there is something off, still zeroing in on it. Likely a leap formula thing.

---

**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 1:15 PM  
**To:** 'John Hutts'  
**Subject:** RE: Revised load forecast

Okay, still looking at this.

Data tab starting cell S50, needs to point to col E not col D.

Mike

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Friday, March 08, 2013 11:19 AM  
**To:** Michael Mattox; Lindsay Barron; Eric Hebble  
**Subject:** RE: Revised load forecast

Thanks Mike. The attached includes your adjustments/corrections.

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**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Friday, March 08, 2013 10:11 AM  
**To:** John Hutts; Lindsay Barron; Eric Hebble  
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John,

A few changes to make

1. Please update Alcan for the following months with the following values. Previous energy values I sent had a special 10MW sale that is unlikely to occur and an incomplete formula for Jan 2014.

Jan 2013	268,316.2
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2. Adjust Direct Serve values for Feb 2016 to account for the leap year.
3. In the Direct Serve file, Total tab, cell E17 should not have a formula adjustment for Century as it is already accounted for in the Century tab cell E14
4. In the Direct Serve file, Total tab, cell G19 should refer back to Alcan tab cell F18, (assuming you paste the updated Alcan info above in the Alcan tab)

Thanks

Mike M.

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]

**Sent:** Thursday, March 07, 2013 5:22 PM

**To:** Lindsay Barron; Michael Mattox; Eric Hebble

**Subject:** Revised load forecast

The attached version includes the following updates:

1. Finalize peak demand projections that are based on model that includes kWh projection computed using 50% of the projected price increase to reflect lower price impact on demand than on energy
2. Updated Direct Serve energy and demand for Pennyrite River Edge, Armstrong Lewis Clark, and Elk Creek Mine
3. Updated coincidence factors to reflect monthly averages computed using data for 2007-2012

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Thanks

Mike M.

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John W. Hutts | Principal

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**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-92**



**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-92**  
**Witness: Robert W. Berry**  
**Page 110 of 156**

**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 9:19 AM  
**To:** 'John Hutts'  
**Subject:** RE: Revised load forecast

Below values in kWh for easy copy/paste

268316160  
242350080  
268316160  
259660800  
268316160  
259660800  
268316160  
268316160  
259660800  
268316160  
259660800  
268316160  
259660800

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Thanks

Mike M.

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---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, March 08, 2013 8:03 AM  
**To:** Michael Mattox  
**Subject:** RE: Revised load forecast  
**Attachments:** Big Rivers Direct Serve 2013-2016.xlsx

Attached

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Friday, March 08, 2013 8:06 AM  
**To:** John Hutts  
**Subject:** RE: Revised load forecast

Please email the direct serve file that the Forecast spreadsheet is linked to.

Thanks

Mike

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Thursday, March 07, 2013 5:22 PM  
**To:** Lindsay Barron; Michael Mattox; Eric Hebble  
**Subject:** Revised load forecast

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---

**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 2:26 PM  
**To:** 'John Hutts'  
**Subject:** RE: Revised load forecast

Pennyrile, Feb 2016 number of hours should be 672 not 696 since you are taking care of leap year on the total tab.

---

**From:** Michael Mattox  
**Sent:** Friday, March 08, 2013 2:10 PM  
**To:** 'John Hutts'  
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I figured out Feb 2016. It comes down to calculating the leap year as you did by using  $/365*366$  for everything vs. 29 days.

Lewis Creek  
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**Subject:** RE: Revised load forecast

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Data tab starting cell S50, needs to point to col E not col D.

Mike

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**Sent:** Friday, March 08, 2013 11:19 AM  
**To:** Michael Mattox; Lindsay Barron; Eric Hebble  
**Subject:** RE: Revised load forecast

Thanks Mike. The attached includes your adjustments/corrections.

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**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Friday, March 08, 2013 10:11 AM  
**To:** John Hutts; Lindsay Barron; Eric Hebble  
**Subject:** RE: Revised load forecast

John,

A few changes to make

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4. In the Direct Serve file, Total tab, cell G19 should refer back to Alcan tab cell F18, (assuming you paste the updated Alcan info above in the Alcan tab).

Thanks

Mike M.

---

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[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, March 19, 2013 4:00 PM  
**To:** Michael Mattox  
**Subject:** RE: Updated Load Forecast

Running now.

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Tuesday, March 19, 2013 3:17 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** RE: Updated Load Forecast  
**Importance:** High

John,

Following up on my voicemail. We just found out the output needs to extend to 2017. Please update and email the spreadsheet ASAP.

Thanks

Mike M.

---

**From:** Michael Mattox  
**Sent:** Tuesday, March 19, 2013 1:36 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron (Lindsay.Barron@bigrivers.com)  
**Subject:** FW: Updated Load Forecast

John,

It looks like "Big Rivers Forecast\_2013-2016\_v3.xlsx" is linked to an old version of the Direct Serve file. I believe your latest Direct Serve file is "Big Rivers Direct Serve 2013-2016\_Fianl.xlsx", which you emailed on March 10. You corrected a few things I emailed you about on March 8 for 2015 and leap year in 2016.

Mike

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]

**Sent:** Monday, March 11, 2013 6:15 PM

**To:** Lindsay Barron; Michael Mattox; Eric Hebble

**Subject:** Updated Load Forecast

I've attached the Big Rivers forecast file and the BigRiversMonthlyOutput file, which contains the individual member coop energy forecasts. Spreading the price increase over 2014-2016 softens to blow in 2014, but because we now have higher price increases in 2015 and 2016 (years that otherwise have higher average use values than 2014), the total kWh by 2016 is slightly lower than what we had in the previous run. Still, I think this forecast scenario makes more sense than assuming the entire price impact will take place in one year. Tuesday I have a meeting from 12:30 p.m. to 2:00 p.m. eastern and a call at 4:30 eastern, but otherwise am available. I'll see what I can find on Paducah Power this evening.

John

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067

770.425.8100 (Office) | 770.799.2419 (Direct)

[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, June 14, 2013 8:38 AM  
**To:** Michael Mattox  
**Subject:** Rural Peak Demand by member  
**Attachments:** Member Summary\_JPEC.xlsx; Member Summary\_Kenergy\_v2.xlsx; Member Summary\_MCRECC\_v2.xlsx; Rural System Data 2007-2012.xlsx; BigRiversMonthlyOutput\_v4.xlsx

Rural System Data 2007-2012.xlsx, Sheet1, computes factors used to allocate monthly Big Rivers 1-hr rural peak to the members.  
Member Summary [coopname].xlsx contains monthly rural system peak demand by month for 2013-2016.  
BigRiversMonthlyOutput\_v4.xlsx, beginning at cell P556 in each coop sheet, contains annual rural system peak demand for 2013-2035

Give me a call if you have any questions.

John

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, March 22, 2013 3:10 PM  
**To:** Eric Hebble  
**Cc:** Lindsay Barron; Michael Mattox  
**Subject:** Rural peak demand

Eric, can you tell me what the rural peak demands billed to each member were in January and February? The hourly file you sent a week or so ago is not broken out by member. I just need the peak amounts to compare to the amounts I'm projecting for 2013. Thanks.

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, March 22, 2013 7:24 PM  
**To:** Lindsay Barron  
**Subject:** Fwd: Moody's Economy.com Help Desk

FYI

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

Begin forwarded message:

**From:** "Eisenhart, Matthew" <Matthew.Eisenhart@moodys.com>  
**Date:** March 22, 2013, 5:51:05 PM EDT  
**To:** "john.hutts@gdsassociates.com" <john.hutts@gdsassociates.com>  
**Subject:** Moody's Economy.com Help Desk

Hi John,

Please see the answer I received from our Data Department below.

Personal income is the income received by all persons from all sources. Personal income is the sum of net earnings by place of residence, rental income of persons, personal dividend income, personal interest income, and personal current transfer receipts.

When you FYPA (personal income) / FHHOLDA (households) you will need to realize the two series are reported in different units. Income is reported in millions, while households in thousands. If you do not adjust the equation, the numbers will be off.

Also, it may help to keep in mind that high income earner can skew straight averages, making the number seem too high.

I hope this is helpful.

Matthew Eisenhart

Client Services & Support Generalist  
866.275.3266 tel  
[matthew.eisenhart@moodys.com](mailto:matthew.eisenhart@moodys.com)

Moody's Analytics  
121 N. Walnut Street  
Suite 500  
West Chester, PA 19380  
[www.economy.com](http://www.economy.com)

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The information contained in this e-mail message, and any attachment thereto, is confidential and may not be disclosed without our express permission. If you are not the intended recipient or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that you have received this message in error and that any review, dissemination, distribution or copying of this message, or any attachment thereto, in whole or in part, is strictly prohibited. If you have received this message in error, please immediately notify us by telephone, fax or e-mail and delete the message and all of its attachments. Thank you. Every effort is made to keep our network free from viruses. You should, however, review this e-mail message, as well as any attachment thereto, for viruses. We take no responsibility and have no liability for any computer virus which may be transferred via this e-mail message.

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Saturday, March 23, 2013 7:43 AM  
**To:** Lindsay Barron  
**Subject:** RE: Kenergy Load Forecast Summary  
**Attachments:** JPEC.pptx; MCRECC.pptx

Presentations attached for JP and MCRECC

---

**From:** Lindsay Barron [<mailto:Lindsay.Barron@bigrivers.com>]  
**Sent:** Friday, March 22, 2013 1:27 PM  
**To:** John Hutts  
**Subject:** RE: Kenergy Load Forecast Summary

Could you please do modify this presentation for JP....they're asking questions now. Thank you!!

L☺

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Thursday, March 21, 2013 7:38 AM  
**To:** Lindsay Barron; Michael Mattox  
**Subject:** Kenergy Load Forecast Summary

Please review and advise. Thank you.

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 12:49 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** RE: Load Forecast Support

I'm out of pocket late tomorrow afternoon/early evening and most of Thursday. I could prepare responses today, this evening, tomorrow late evening, or most anytime Friday. There may also be pockets of time during Thursday that I could help out.

John

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Tuesday, August 20, 2013 1:44 PM  
**To:** John Hutts  
**Cc:** Michael Mattox  
**Subject:** Load Forecast Support

John,

Do you have any availability this week to help with drafting responses to questions from the rate case data requests regarding the load forecast? If you are unavailable, we can likely manage, but we've received a TON on other topics and if your available we would like for you to help. Thanks!

Lindsay☺

*Lindsay N. Barron, CPA  
Vice President Energy Services  
Big Rivers Electric Corporation  
PO Box 24  
Henderson, KY 42419  
270.844.6194 office  
270.993.1594 mobile*

---

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---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Friday, August 23, 2013 3:38 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** RE: Response to KIUC-1-33  
**Attachments:** KIUC-1-33.docx

Attached (55% is the increase without regard to inflation). It may cause some confusion since the price elasticity is based on real price.

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Friday, August 23, 2013 4:33 PM  
**To:** John Hutts; Lindsay Barron  
**Subject:** RE: Response to KIUC-1-33

John,

Can you update/rewrite the response to change the 39% to give a number that is not "deflated"? We are wanting to remove the word "deflated" as it may (probably will) cause confusion.

Thanks

Mike M.

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, August 21, 2013 1:11 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response to KIUC-1-33

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Thursday, August 22, 2013 1:51 PM  
**To:** Lindsay Barron  
**Cc:** Michael Mattox  
**Subject:** Re: Data responses

Received the requested data from MCRECC and Kenergy, so I'll send AG-147 tomorrow morning, maybe this evening.

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Aug 21, 2013, at 2:24 PM, "Lindsay Barron" <[Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com)> wrote:

If we can have them by Friday, we'll be in good shape. If it rolls over to Monday, we'll survive.

Thanks for all your help. We really appreciate it!

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, August 21, 2013 1:14 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Data responses

I have sent you responses to all questions you asked me to address, with the exception of AG-1-147. I am still waiting to see if Kenergy and MCRECC will be sending ytd data for 2013. I will have that response and attachment to you ASAP. What is our cut-off date/time?

John

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[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)



---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Wednesday, August 21, 2013 10:12 PM  
**To:** Lindsay Barron  
**Subject:** RE: 2013 year to date data

For JPEC the price increases are 15% in 2014, 14% in 2015, and 8.8% in 2016. The overall increase is 43%.

---

**From:** Lindsay Barron [mailto:Lindsay.Barron@bigrivers.com]  
**Sent:** Wednesday, August 21, 2013 3:46 PM  
**To:** John Hutts  
**Subject:** RE: 2013 year to date data

That would be great when you can—no hurry. Thanks!

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Wednesday, August 21, 2013 2:29 PM  
**To:** Lindsay Barron  
**Cc:** Chuck Williamson; Michael Mattox  
**Subject:** Re: 2013 year to date data

We reflected the rate increase over Jan2014-Dec2016. Out of the office right now but can get you the exact percentages if you want them

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
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On Aug 21, 2013, at 2:41 PM, "Lindsay Barron" <Lindsay.Barron@bigrivers.com> wrote:

As you recall, we included the price increase of both the Century and Alcan rate cases in our long-term load forecast. As Big Rivers has now requested to utilize the reserve funds to offset the Alcan rate case, at first glance, it may appear that we overestimated the impact of the price elasticity of demand in the rate case. However, we did not. As you recall, we "feathered" the impact of the two increases over a three year period at the request of the Members. Thus, more than half of the test period for the rate case reflects roughly 1/3 of the increase, with the remaining portion of the test period reflecting 2/3 of the increase. This should be a good proxy for reality. The remainder of the rate increases

will be reflected over the following 1.5 years which will actually be in good timing with the expiration of the reserve funds. (John, can you please give me the exact months in which we feathered in the rate increases in the model?)

Attachment for Response to KIUC 1-92

Thus, the load forecast is prudent and reasonable in regards to rate increases.

The loss of USEC is another matter and we would have to address it separately. Chuck, do you feel it prudent to spend \$\$ today to try and get a better feel for the impacts of the USEC closure, or give it a little while so we can gain more certainty on the timing and impact of cleanup at the USEC site, the impact on your customer count from relocations, as well as get a feel for whether Kelly can land a big replacement load?

Thanks!

---

**From:** Chuck Williamson [mailto:Chuck.Williamson@jpenenergy.com]  
**Sent:** Wednesday, August 21, 2013 1:17 PM  
**To:** John Hutts  
**Cc:** Michael Mattox; Lindsay Barron  
**Subject:** RE: 2013 year to date data

I am completely booked all this week and next week with system conversions and implementing rate increases. I have some nights available next week though (Monday is booked) and would be glad to try to accommodate a night if that works for anyone.

Really though, Kelly has the greatest concern and he is far more familiar with the timing and effects of USEC closing. I only know what I read in the news and only scan it at that. There are 1,200 direct jobs with many more indirect ones affected. My informal survey of friends who work for them tells me that most are actively looking for employment outside this community. Most of the jobs are highly specialized and all the employees there have security clearances. They will likely be able to find jobs elsewhere and will leave the area when they do. A large percentage do not have roots here and will be especially susceptible to moving. Kelly is also more familiar (although Lindsay may know) the amount and timing of rate increases. If nothing else changes I have heard that with the unwind funds depleted we will be looking at an increase from present rates of 80+ percent by June '15. That will surely also have an effect on consumption.

Chuck

**Chuck Williamson, CPA**

Vice President - Finance & Accounting  
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Paducah, KY 42002-4030  
270.441.0825 Direct  
270.442.5337 Fax

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---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, August 21, 2013 1:01 PM  
**To:** Chuck Williamson  
**Cc:** Mike Mattox; Lindsay Barron  
**Subject:** RE: 2013 year to date data

Thanks Chuck. On the matter you raised a couple weeks ago, is there a day next week that you and your staff want to discuss the load forecast, or do you want me to proceed with developing another forecast scenario that takes into account the factors you identified?

John

---

**From:** Chuck Williamson [<mailto:Chuck.Williamson@jpenergy.com>]  
**Sent:** Wednesday, August 21, 2013 12:22 PM  
**To:** John Hutts  
**Subject:** RE: 2013 year to date data

**Chuck Williamson, CPA**  
Vice President - Finance & Accounting  
Jackson Purchase Energy Corporation  
P.O. Box 4030  
Paducah, KY 42002-4030  
270.441.0825 Direct  
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---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Wednesday, August 21, 2013 10:57 AM  
**To:** Chuck Williamson  
**Subject:** RE: 2013 year to date data

Yes. Thanks.

**From:** Chuck Williamson [<mailto:Chuck.Williamson@jpenenergy.com>]

**Sent:** Wednesday, August 21, 2013 11:36 AM

**To:** John Hutts

**Subject:** Re: 2013 year to date data

I assume a ytd Form 7 would work?

Chuck

Sent from Chuck's mobile.

On Aug 21, 2013, at 8:35 AM, "John Hutts" <[John.Hutts@gdsassociates.com](mailto:John.Hutts@gdsassociates.com)> wrote:

I am assisting Big Rivers respond to RFIs in connection with their rate filing (Case No. 2013-00199). One of the questions asks for number of customers and energy consumption by month and class for year to date 2013. If you have that data available and can provide it today or tomorrow, I would appreciate it.

Thank you,  
John

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John

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**Sent:** Wednesday, August 21, 2013 12:22 PM  
**To:** John Hutts  
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**Chuck Williamson, CPA**  
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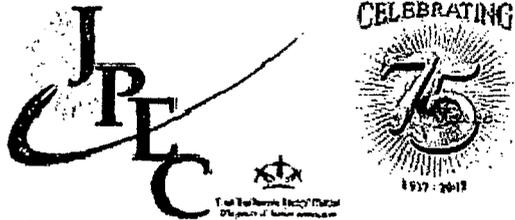
John

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770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 9:39 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response and Attachments to AG-1-135  
**Attachments:** AG-1-135.docx; Exhibit AG-1-135.zip

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:59 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response to PSC-2-20.docx  
**Attachments:** PSC-2-20.docx

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:49 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Attachment for Response to SC1-25  
**Attachments:** Exhibit SC-1-25.xlsx

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:44 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Attachments for Response to SC1-20  
**Attachments:** Exhibit SC-1-20a-MCRECC.xlsx; Exhibit SC-1-20a-Kenergy.xlsx; Exhibit SC-1-20a-JPEC.xlsx; Exhibit SC-1-20c-EIA.pdf; Exhibit SC-1-20c-NREL.pdf

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:39 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response to SC1-25  
**Attachments:** SC1-25.docx

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:38 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response to SC1-21  
**Attachments:** SC1-21.docx

**John W. Hutts | Principal**  
GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 8:38 PM  
**To:** Michael Mattox; Lindsay Barron  
**Subject:** Response to SC1-20  
**Attachments:** SC1-20.docx

**John W. Hutts | Principal**

GDS Associates, Inc | 1850 Parkway Place; Suite 800, Marietta, GA. 30067  
770.425.8100 (Office) | 770.799.2419 (Direct)  
[john.hutts@gdsassociates.com](mailto:john.hutts@gdsassociates.com)

---

**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 7:49 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** RE: Alcan Rate Case Data Requests

Will do.

---

**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Tuesday, August 20, 2013 8:45 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** RE: Alcan Rate Case Data Requests

John please also add SC1-25c to your list. Although I think this will be captured in your response to AG1-139.

Mike

---

**From:** Michael Mattox  
**Sent:** Tuesday, August 20, 2013 3:30 PM  
**To:** 'John Hutts'  
**Cc:** Lindsay Barron ([Lindsay.Barron@bigrivers.com](mailto:Lindsay.Barron@bigrivers.com))  
**Subject:** Alcan Rate Case Data Requests  
**Importance:** High

John,

Just send your responses as text in an email to myself and Lindsay or put into a word document if tables, etc. are involved.

It helps from a tracking standpoint if you submit one response per email and put the question number, i.e. PSC2-20 in the subject.

Here are the questions we would like you work on

PSC2-20

AG1-139 – might be easiest to send a zip file, given there are probably a large number of files

AG1-145

AG1-146

AG1-147

KIUC1-33

SC1-20

SC1-21

SC1-25d,f – respond to f. only if you bill us a separate licensing fee line item your invoice to us. I am going to have finesse this one since BREC has MetrixND for in-house short-term forecasting.

Thanks

Mike M.

---

**From:** John Hutts [<mailto:John.Hutts@gdsassociates.com>]  
**Sent:** Tuesday, August 20, 2013 12:29 PM  
**To:** Michael Mattox  
**Subject:** RE: FYI

I'll be out of town late tomorrow afternoon and all day Thursday, but I'll have time during evenings and during parts of the day Thursday. Friday is good as well. Do you want to go ahead and send me the RFIs so I can see which ones you might need help on and what data might need to be pulled together?

---

**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Tuesday, August 20, 2013 12:44 PM  
**To:** John Hutts  
**Subject:** FYI

John,

We just got data requests regarding the "Alcan Rate Case" Attorney General had almost 300 questions, no including subparts. Draft responses are due later this week.

I have not read them, but your help will likely be needed.

I hope you are available this week.

Michael J. Mattox  
Director, Resources & Forecasting  
Big Rivers Electric Corporation  
201 Third Street  
Henderson, KY 42420  
(270) 826-5669 (direct recorded)  
(270) 844-6155 (direct)  
(270) 827-2561 (BREC switchboard)

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(270) 827-2101 (fax)  
AOL IM: MikeMattoxBREC

---

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 5:14 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** RE: Alcan Rate Case Data Requests

Thanks Mike. There is a question regarding differences in price elasticities relative to those in the Century Rate Case, so it's good that you provided that info as well.

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Tuesday, August 20, 2013 6:12 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** RE: Alcan Rate Case Data Requests

John,

The entire case can also be found at [http://psc.ky.gov/Home/Library?type=Cases&folder=2013 cases/2013-00199](http://psc.ky.gov/Home/Library?type=Cases&folder=2013%20cases/2013-00199)

Also, I thought one of the questions made reference to a KIUC question in the "Century Rate Case", 2012-00535, [http://psc.ky.gov/Home/Library?type=Cases&folder=2012 cases/2012-00535](http://psc.ky.gov/Home/Library?type=Cases&folder=2012%20cases/2012-00535), but I cannot find it right now. Either way, let us know if you need additional information.

Mike M.

---

**From:** John Hutts [mailto:John.Hutts@gdsassociates.com]  
**Sent:** Tuesday, August 20, 2013 4:39 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** RE: Alcan Rate Case Data Requests

Can one of you send me a copy of Lindsay's testimony?

Thanks,  
John

---

**From:** Michael Mattox [mailto:Michael.Mattox@bigrivers.com]  
**Sent:** Tuesday, August 20, 2013 4:30 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** Alcan Rate Case Data Requests  
**Importance:** High

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Thanks

Mike M.

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**To:** John Hutts

**Subject:** FYI

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Thanks,  
John

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**From:** Michael Mattox [<mailto:Michael.Mattox@bigrivers.com>]  
**Sent:** Tuesday, August 20, 2013 4:30 PM  
**To:** John Hutts  
**Cc:** Lindsay Barron  
**Subject:** Alcan Rate Case Data Requests  
**Importance:** High

John,  
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SC1-25d,f – respond to f. only if you bill us a separate licensing fee line item your invoice to us. I am going to have finesse this one since BREC has MetrixND for in-house short-term forecasting.

Thanks

Mike M.

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**Subject:** RE: FYI

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**Attachment for Response to KIUC 1-92**

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**From:** John Hutts <John.Hutts@gdsassociates.com>  
**Sent:** Tuesday, August 20, 2013 3:41 PM  
**To:** Michael Mattox  
**Cc:** Lindsay Barron  
**Subject:** Re: Alcan Rate Case Data Requests

Thanks Mike. Will do.

John Hutts  
Principal  
GDS Associates, Inc.  
1850 Parkway Place, Suite 800  
Marietta, GA 30067  
770-425-8100 Switchboard  
770-799-2419 Direct

On Aug 20, 2013, at 4:31 PM, "Michael Mattox" <[Michael.Mattox@bigrivers.com](mailto:Michael.Mattox@bigrivers.com)> wrote:

John,

Just send your responses as text in an email to myself and Lindsay or put into a word document if tables, etc. are involved.

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Attachment for Response to KIUC 1-92

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<PSC-2 Data Requests.pdf>

<AG\_DR-1 CONFIDENTIAL\_Final.docx>

<Big Rivers - Rate Case 2 - Discovery - SC 1st Req to BREC-Final.docx>

<KIUC 1st Set DR to BREC 2013-00199.pdf>