

Net Energy Use for Jim French

RMP Net Metering Customer Time of Use

	On Peak Net (1-8 PM)	Off Peak Net (8 PM - 1 PM M-F, Sat + Sun)
4/10 - 5/9/14	-61 Net Metered	-63 Net Metered
5/9 - 6/10/14	-249 "	+54 no net metered
6/10 - 7/10/14	-164 "	+103 no net metered
	↓	↓
Total Net Metered KWh	474 on Peak	0 off peak

I am feeding power into the grid during peak demand time - Mon-Fri 1 PM - 8 PM - thereby smoothing out demand.

0.000 0-0
JIM FRENCH



Questions:
1-888-221-7070
rockymountainpower.net

ROCKY MOUNTAIN POWER

BILLING DATE: **May 19, 2014**
ACCOUNT NUMBER: [REDACTED]
DATE DUE: **Jun 11, 2014**
AMOUNT DUE: **\$0.00**

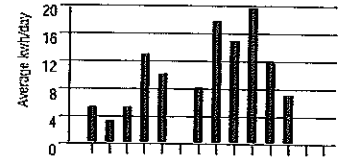
Your Balance With Us

Previous Account Balance	25.25
Payments/Credits	-50.50
New Charges	+7.99
Current Account Balance	-\$ 17.26

Payments Received

DATE	DESCRIPTION	AMOUNT
May 7, 2014	Payment Received - Thank you	25.25
May 19, 2014	Payment Received - Thank you	25.25
Total Payments		\$ 50.50

Historical Data - ITEM 5



2013 M J J A S O N D J F M A M 2014

Your Average Daily kwh Usage by Month

PERIOD ENDING	MAY 2014	MAY 2013
Avg. Daily Temp.	53	51
Total kwh	0	150
Avg. kwh per Day	0	5
Cost per Day	\$0.28	\$0.68

Your bill will include prorated summer charges due to season change. Summer prices are in effect May 1 through September 30. For help reading your bill and understanding these charges visit rockymountainpower.net/proration

This billing statement was sent in our reusable envelope. You can use this same envelope to mail back your payment. If you have any questions, please visit rockymountainpower.net/reusableenvelope or call us toll free at 1-888-221-7070.

Detailed Account Activity

ITEM 5 - ELECTRIC SERVICE

Usip Net Meter 3.96 Kw Solar Schedule 135

METER NUMBER	SERVICE PERIOD From To	ELAPSED DAYS	METER READINGS Previous Current	METER MULTIPLIER	AMOUNT USED THIS MONTH
28421873M	Apr 10, 2014 May 9, 2014	29	761 766	1.0	5 onkwh
28421873XS	Apr 10, 2014 May 9, 2014		3704 3770	1.0	-66 onkwh
Total					-61 onkwh
28421873M	Apr 10, 2014 May 9, 2014	29	22742 22979	1.0	237 offkwh
28421873XS	Apr 10, 2014 May 9, 2014		7106 7406	1.0	-300 offkwh
Total					-63 offkwh

M = Main Meter S = Subordinate Meter

Next scheduled read date: 06-10. Date may vary due to scheduling or weather.

NEW CHARGES - 05/14

	UNITS	COST PER UNIT	CHARGE
Basic Charge - Single Phase			5.00
Minimum Charge - Single Phase			2.00

See reverse

Write account number on check & mail to: Rocky Mtn Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS PORTION FOR YOUR RECORDS.
RETURN THIS PORTION WITH YOUR PAYMENT.

↑ INSERT THIS EDGE FIRST ↑

ROCKY MOUNTAIN POWER

PO BOX 25308
SALT LAKE CITY UT 84125

Late Payment Charge for Utah
A late payment charge of 1% may be charged on the delinquent balance per month.

Change of Mailing Address or Phone?
Check here & provide information on back.

Account Number: [REDACTED]

Date Due: **Jun 11, 2014**

AMOUNT DUE: **\$0.00**

Please enter the amount enclosed.

JIM FRENCH



H 25418238 001 721 000000000



Questions about your bill: Call toll free 1-888-221-7070 rockymountainpower.net

BILLING DATE: **May 19, 2014** ACCOUNT NUMBER: [REDACTED] DATE DUE: **Jun 11, 2014** AMOUNT DUE: **\$0.00**

NEW CHARGES - 05/14- CONTINUED	UNITS	COST PER UNITS	CHARGE
Home Electric Lifeline Program			0.26
City Franchise Tax		0.0600000	0.42
Utah Sales Tax		0.0415000	0.31
Total New Charges			7.99

Know a friend or relative who could use a little help paying their energy bill? You can make a gift payment on their account. Just call us toll free at 1-888-221-7070, or visit rockymountainpower.net/gift to find out more.

If you find yourself in a position in which you are not able to pay your electric bills, we encourage you to contact us at 1-888-221-7070. We have a variety of options to help.

When you provide a check as payment, you authorize us to use the information from your check either to make a one-time electronic fund transfer from your account or to process the payment as a check transaction. If you would like to opt out of this program and continue processing your payment as a check transaction, please call anytime toll free at 1-800-895-0561. If you have opted out previously, please disregard this message.

To report an outage, downed line, or other power emergency, please call 1-877-508-5088.

Contact us at 1-888-221-7070 to enroll in the fixed donation program. You can add an amount you choose to your monthly bills in order to help your neighbors in need with assistance on their electric bills. Donations are tax-deductible.

Go paperless!

Paperless billing saves time, reduces clutter and benefits the environment. Watch our "Trees Have Dreams" video and sign up at rockymountainpower.net/paperless.

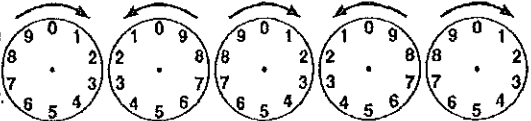
Looking for other ways to pay?

Pay online using your bank account. Log on to rockymountainpower.net to pay your bills quickly and securely. Or, for a fee, pay by phone with a check, credit or debit card by calling 1-800-672-2405.

New Mailing Address or Phone?

Please print your new information below and check the box on the reverse side of this Payment Stub. Thank you.

If you feel your meter read is incorrect, draw lines where the hands appear on the dials or for digital meters record the numbers shown on the display.



ACCOUNT NUMBER: [REDACTED]

LAST

FIRST

M.I.

NEW STREET ADDRESS

CITY

ST

ZIP

TELEPHONE NUMBER



0.000 0-0
JIM FRENCH



Questions:
1-888-221-7070
rockymountainpower.net

ROCKY MOUNTAIN
POWER

BILLING DATE: **Jun 13, 2014**
ACCOUNT NUMBER: [REDACTED]
DATE DUE: **Jul 8, 2014**
AMOUNT DUE: **\$0.00**

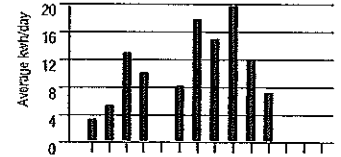
Your Balance With Us

Previous Account Balance	-17.26
Payments/Credits	0.00
New Charges	+7.99
Current Account Balance	-\$ 9.27

Payments Received

No payments have been received since your last billing statement.

Historical Data - ITEM 5



2013 J J A S O N D J F M A M J 2014

Your Average Daily kwh Usage by Month

PERIOD ENDING	JUN 2014	JUN 2013
Avg. Daily Temp.	67	67
Total kwh	0	111
Avg. kwh per Day	0	3
Cost per Day	\$0.25	\$0.46

This billing statement was sent in our reusable envelope. You can use this same envelope to mail back your payment. If you have any questions, please visit rockymountainpower.net/reusableenvelope or call us toll free at 1-888-221-7070.

Effective June 01, 2014, the Utah Public Service Commission approved a price change to the adjustment for Renewable Energy Credit Revenues. Your current bill reflects charges billed at both old and new prices.

Detailed Account Activity

ITEM 5 - ELECTRIC SERVICE

Usip Net Meter 3.96 Kw Solar Schedule 135

METER NUMBER	SERVICE PERIOD		ELAPSED DAYS	METER READINGS		METER MULTIPLIER	AMOUNT USED THIS MONTH
	From	To		Previous	Current		
28421873M	May 9, 2014	Jun 10, 2014	32	766	777	1.0	11 onkwh
28421873XS	May 9, 2014	Jun 10, 2014		3770	4030	1.0	-260 onkwh
Total							-249 onkwh
28421873M	May 9, 2014	Jun 10, 2014	32	22979	23247	1.0	268 offkwh
28421873XS	May 9, 2014	Jun 10, 2014		7406	7620	1.0	-214 offkwh
Total							54 offkwh
Usage Adjustment							-54 offkwh
Billed Usage							0 offkwh

M = Main Meter S = Subordinate Meter

Next scheduled read date: 07-10. Date may vary due to scheduling or weather.

See reverse

Late Payment Charge for Utah
A late payment charge of 1% may be charged on the delinquent balance per month.

Change of Mailing Address or Phone?
Check here & provide information on back.

Write account number on check & mail to: Rocky Mtn Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS PORTION FOR YOUR RECORDS.
RETURN THIS PORTION WITH YOUR PAYMENT.

**ROCKY MOUNTAIN
POWER**
PO BOX 25308
SALT LAKE CITY UT 84125

↑ INSERT THIS
EDGE FIRST ↑

ROCKY MTN POWER
PO BOX 26000
PORTLAND OR 97256-0001



Account Number: [REDACTED]

Date Due: **Jul 8, 2014**

AMOUNT DUE: **\$0.00**

Please enter the amount enclosed.

JIM FRENCH

H 25418238 001 721 000000000



Questions about your bill: Call toll free 1-888-221-7070 rockymountainpower.net

BILLING DATE: Jun 13, 2014 ACCOUNT NUMBER: [REDACTED] DATE DUE: Jul 8, 2014 AMOUNT DUE: \$0.00

NEW CHARGES - 06/14	UNITS	COST PER UNIT	CHARGE
Basic Charge - Single Phase			5.00
Minimum Charge - Single Phase			2.00
Home Electric Lifeline Program			0.26
City Franchise Tax		0.0600000	0.42
Utah Sales Tax		0.0415000	0.31
Total New Charges			7.99

Blue Sky customers continue to support renewable energy from wind facilities in the west. Learn how that compares to the basic service mix by visiting rockymountainpower.net/blueskymix

Your bill will include prorated summer charges due to season change. Summer prices are in effect May 1 through September 30. For help reading your bill and understanding these charges visit rockymountainpower.net/proration

If you find yourself in a position in which you are not able to pay your electric bills, we encourage you to contact us at 1-888-221-7070. We have a variety of options to help.

Here is how we performed on our Customer Service Guarantees from January 2013 to December 2013 Restoring power - 99.9%, keeping appointments - 99.9%, switching on power - 100%, estimates - 99.7%, responding to billing inquiries - 99.9%, responding to meter problems - 99.8%, notification of planned interruptions - 99.9%. Overall guarantee performance remains above 99%, reflecting our continuing commitment to your satisfaction. For more information about our Customer Guarantee program, visit us online at rockymountainpower.net/guarantees.

When you provide a check as payment, you authorize us to use the information from your check either to make a one-time electronic fund transfer from your account or to process the payment as a check transaction. If you would like to opt out of this program and continue processing your payment as a check transaction, please call anytime toll free at 1-800-895-0561. If you have opted out previously, please disregard this message.

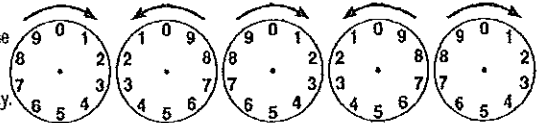
To report an outage, downed line, or other power emergency, please call 1-877-508-5088.

Contact us at 1-888-221-7070 to enroll in the fixed donation program. You can add an amount you choose to your monthly bills in order to help your neighbors in need with assistance on their electric bills. Donations are tax-deductible.

New Mailing Address or Phone?

Please print your new information below and check the box on the reverse side of this Payment Stub. Thank you.

If you feel your meter read is incorrect, draw lines where the hands appear on the dials or for digital meters record the numbers shown on the display.



ACCOUNT NUMBER: [REDACTED]

LAST

FIRST

M.I.

NEW STREET ADDRESS

CITY

ST

ZIP

TELEPHONE NUMBER



0.000 0-0

JIM FRENCH



Questions: 1-888-221-7070 rockymountainpower.net

ROCKY MOUNTAIN POWER

BILLING DATE: Jul 16, 2014
ACCOUNT NUMBER:
DATE DUE: Aug 8, 2014
AMOUNT DUE: \$0.00

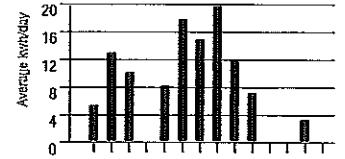
Your Balance With Us

Table with 2 columns: Description, Amount. Rows include Previous Account Balance (-9.27), Payments/Credits (-24.98), New Charges (+13.76), Current Account Balance (-\$20.49).

Payments Received

Table with 3 columns: DATE, DESCRIPTION, AMOUNT. Row: Jul 7, 2014 Payment Received - Thank you 24.98. Total Payments \$ 24.98.

Historical Data - ITEM 5



2013 J A S O N D J F M A M J J 2014

Your Average Daily kwh Usage by Month

Table with 3 columns: PERIOD ENDING, JUL 2014, JUL 2013. Rows include Avg. Daily Temp, Total kwh, Avg. kwh per Day, Cost per Day.

If you find yourself in a position in which you are not able to pay your electric bills, we encourage you to contact us at 1-888-221-7070. We have a variety of options to help.

To report an outage, downed line, or other power emergency, please call 1-877-508-5088.

Detailed Account Activity

ITEM 5 - ELECTRIC SERVICE

Usip Net Meter 3.96 Kw Solar Schedule 135

Main table with columns: METER NUMBER, SERVICE PERIOD, ELAPSED DAYS, METER READINGS, METER MULTIPLIER, AMOUNT USED THIS MONTH. Includes rows for meters 28421873M and 28421873XS.

M = Main Meter S = Subordinate Meter

Next scheduled read date: 08-11. Date may vary due to scheduling or weather.

See reverse

Write account number on check & mail to: Rocky Mtn Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS PORTION FOR YOUR RECORDS. RETURN THIS PORTION WITH YOUR PAYMENT.

Late Payment Charge for Utah A late payment charge of 1% may be charged on the delinquent balance per month.

Change of Mailing Address or Phone? Check here & provide information on back.

ROCKY MOUNTAIN POWER PO BOX 25308 SALT LAKE CITY UT 84125

INSERT THIS EDGE FIRST

Account Number:

Date Due: Aug 8, 2014

AMOUNT DUE: \$0.00

Please enter the amount enclosed.

JIM FRENCH

ROCKY MTN POWER PO BOX 26000 PORTLAND OR 97256-0001



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Politics energy

Electric Cars Will Change the Way You Power Your Home

- Michael Grunwald @MikeGrunwald

July 14, 2014

An electric charging cable is seen connected to the updated Nissan Leaf vehicle during a news conference in Japan, Tokyo, on Tuesday, Nov. 20, 2012. Kiyoshi Ota—Bloomberg/Getty Images

How the homes of the future will generate and store their own electricity, turning your house into a mini-power plant

Electric vehicles are our fastest-growing alternative to oil-derived gasoline. Solar panels are our fastest-growing alternative to coal-powered electricity. They're both getting less expensive and more effective, driving our clean-energy revolution. And there's new evidence that these two great tastes can taste particularly great together, transforming how we consume and produce power in ways that will accelerate that green revolution.

The evidence comes from Opower, a firm that uses software and behavioral science to help utilities promote energy conservation — and has amassed the world's largest storehouse of household energy data along the way. Opower studied the power-consumption habits of about 2,000 plug-in electric-vehicle owners enrolled in "time-of-use" pricing programs. That means they got discounted electricity rates from midnight to 7 a.m., when demand is typically low, but paid a surcharge during peak daytime hours, when demand tends to spike.

Grid managers have to balance supply and demand every second, so big gaps between peak and off-peak demand can create big inefficiencies by forcing them to turn power plants on and off to adjust supply. In theory, the combination of electric vehicles (which can be charged anytime) and time-of-use pricing (which encourages charging after midnight) could help reduce those gaps. It could also help prevent electric vehicles (which alleviate the problem of carbon emissions) from exacerbating the problem of overloaded daytime grids. And that's basically what the data showed — with a twist.

Opower found that EV owners did respond to the incentives to charge during off-peak hours, using three times as much power as the typical household between midnight and 7 a.m. It's notoriously tough to get consumers to adjust their behavior, even when it's in their financial interest, so that's good news. At first glance, the data from the rest of the day looks like bad news: from 7 a.m. until midnight, EV owners still used 21% more power than the typical household. But this was mainly because they're richer than the typical household; their houses were bigger and more likely to have a swimming pool. They clearly did the bulk of their vehicle charging after midnight when power was cheap.

The most striking data was from EV owners who also had solar panels. From 7 a.m. to midnight, they used about one-fourth as much power from the grid as the typical household, because they were getting power from their rooftops and often selling power back to the grid. In other words, they took very little from the grid when demand was high — at times even helping to increase supply — and took much more from the grid when demand was low. They helped smooth out demand.

That's very good news, not only because smoothing out demand is a kind of holy grail for utilities, but because EV owners were 6.6 times more likely to have solar panels than the typical household. Nancy Pfund, a venture capitalist who invested early in Tesla Motors, the hottest EV firm, and Solar City, the leading solar installer, calls EVs "the gateway drug to solar." Once you stop using hydrocarbons to fuel your car, she says, you want to stop using hydrocarbons, period. "Together, they can be a huge tool for managing our energy load," Pfund says. "And they're both taking off."

Before 2009, when President Obama poured \$90 billion into clean energy through his stimulus bill, the U.S. had no EV or solar industry to speak of. It now has nearly 250,000 EVs and nearly 500,000 solar rooftops, and both industries are still growing exponentially; Tesla and Solar City, both Elon Musk ventures, have both enjoyed soaring stock prices since going public. EV battery prices are not yet truly competitive with gasoline, although they've dropped 50% in five years, but retail solar prices, which have plunged 80%, are now competitive with fossil fuels in half the country. And the more they're deployed, the cheaper they'll get.

EVs are still less than 1% of the U.S. auto fleet, and solar still provides less than 1% of U.S. electricity. In terms of reducing emissions, they are still less significant than hybrid vehicles or wind power or energy-efficient appliances. But they are what the Silicon Valley types like to call "disruptive." When you put a solar panel on your roof, your home becomes a mini-power plant. When you buy an electric vehicle, you suddenly control an automobile-shaped energy-storage device. It won't be long before homeowners with both can be mini-utilities, buying power from the grid when it's cheap and selling power to the grid when it's expensive. Willett Kempton, a University of Delaware professor, has created electric vehicles that communicate and interact with the grid in real time; they earn about \$150 per car per month by storing excess power when the grid gets temporarily overloaded.

That would make the economics of EVs more attractive, accelerating the route to mass adoption. "Net metering" will be similarly important for solar, allowing homeowners to sell power to the grid at attractive prices; as the Opower study demonstrated, time-of-use pricing can also help shape electricity demand. All of this will help create a more flexible, less centralized energy system, incorporating more renewable power without sacrificing reliability when the sun isn't shining or the wind isn't blowing, adapting instantaneously to changes in demand and supply with the help of modern information technology and Opower-style Big Data. Our cars (as well as other smart appliances) will optimize their power needs with our utilities, and we can intervene at any time over our iPhones.

You could imagine a future where solar panels and EVs (perhaps with additional backup storage, like the wall-mounted batteries Solar City and Tesla recently launched) help Americans declare

independence from the grid, the way mobile phones have set us free from landlines. More likely, though, the clean-energy revolution will just change our relationship to the grid. Our utilities will be as dependent on us as we are dependent on them. And we'll have power over our power.

