

**From:** [Darcy Dea](#)  
**To:** [Mary Sheehy Moe](#); [Bob Kelly](#); [Owen Robinson](#); [Rick Tryon](#); [Tracy Houck](#)  
**Cc:** [Greg Doyon](#); [Charles Anderson](#); [Krista Artis](#); [Joseph Cik](#)  
**Subject:** FW: Resolution 10333  
**Date:** Friday, February 14, 2020 8:34:25 AM

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FYI

Darcy

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**From:** Darcy Dea  
**Sent:** Friday, February 14, 2020 8:33 AM  
**To:** 'MICHAEL ENK' <[trouter@q.com](mailto:trouter@q.com)>  
**Subject:** RE: Resolution 10333

Michael - Your comments will be shared with the City Commission for consideration of item 19 on the February 18<sup>th</sup> commission agenda.

Thank you,

Darcy Dea  
Deputy City Clerk  
P. O. Box 5021  
Great Falls, MT 59403  
406-455-8479

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**From:** MICHAEL ENK <[trouter@q.com](mailto:trouter@q.com)>  
**Sent:** Thursday, February 13, 2020 7:38 PM  
**To:** Darcy Dea <[ddea@greatfallsmt.net](mailto:ddea@greatfallsmt.net)>  
**Subject:** Fwd: Resolution 10333

Dear Ms. Dea,

In Lisa Kunz's absence, please distribute my attached email to Great Falls City Commissioners prior to the February 18 meeting. Thank you.

Michael Enk  
[trouter@q.com](mailto:trouter@q.com)

Begin forwarded message:

**From:** MICHAEL ENK <[trouter@q.com](mailto:trouter@q.com)>  
**Subject:** Resolution 10333  
**Date:** February 13, 2020 at 7:26:46 PM MST

To: [lkunz@greatfallsmt.net](mailto:lkunz@greatfallsmt.net)

Great Falls City Commissioners,

I am asking for your support of Resolution 10333 because I believe it is critical for Great Falls to prepare for the changing realities of energy markets and to build resiliency into our community's infrastructure and policies with respect to electricity usage.

Recently, Northwest Energy has cautioned that the availability of surplus power on the open market is rapidly decreasing, creating challenges for energy supplies and consumers during times of peak demand. The city needs to take a hard look at how it uses energy, what cost savings are available through higher efficiency and how future demand will be met. A task force to tackle these issues would be an excellent and timely first step.

Respectfully,

Michael Enk

PO Box 1408  
Great Falls, MT 59403  
453-6834

[trouter@q.com](mailto:trouter@q.com)

**From:** [Darcy Dea](#)  
**To:** [Mary Sheehy Moe](#); [Bob Kelly](#); [Owen Robinson](#); [Rick Tryon](#); [Tracy Houck](#)  
**Cc:** [Greg Doyon](#); [Charles Anderson](#); [Joseph Cik](#); [Krista Artis](#)  
**Subject:** FW: Resolution 10333  
**Date:** Tuesday, February 18, 2020 9:50:57 AM

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FYI

Darcy

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

From: Lisa C. Kunz <[lkunz@greatfallsmt.net](mailto:lkunz@greatfallsmt.net)>  
Sent: Tuesday, February 18, 2020 9:44 AM  
To: Darcy Dea <[ddea@greatfallsmt.net](mailto:ddea@greatfallsmt.net)>  
Subject: FW: Resolution 10333

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From: Vickie  
Sent: Tuesday, February 18, 2020 9:43:34 AM (UTC-07:00) Mountain Time (US & Canada)  
To: Lisa C. Kunz  
Subject: Resolution 10333

I support Resolution 10333 for energy conservation and emergency preparedness. I strongly encourage passage by our City Commissioners.

Thank you!  
Vickie Leigland  
245 Rainbow Court  
59404  
406-268-9169

**From:** [Darcy Dea](#)  
**To:** [Mary Sheehy Moe](#); [Bob Kelly](#); [Owen Robinson](#); [Rick Tryon](#); [Tracy Houck](#)  
**Cc:** [Greg Doyon](#); [Charles Anderson](#); [Joseph Cik](#); [Krista Artis](#)  
**Subject:** FW: Resolution 10333  
**Date:** Tuesday, February 18, 2020 8:58:29 AM

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FYI –

Darcy Dea  
Deputy City Clerk  
P. O. Box 5021  
Great Falls, MT 59403  
406-455-8479

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**From:** Lisa C. Kunz <lkunz@greatfallsmt.net>  
**Sent:** Tuesday, February 18, 2020 8:50 AM  
**To:** Darcy Dea <ddea@greatfallsmt.net>  
**Subject:** FW: Resolution 10333

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**From:** Lita Sharone  
**Sent:** Tuesday, February 18, 2020 8:50:03 AM (UTC-07:00) Mountain Time (US & Canada)  
**To:** Lisa C. Kunz  
**Subject:** Resolution 10333

Dear Ms. Kunz,

Please inform all the city commissioners, Mary Sheehy Moe, Tracy Houck, Owen Robinson, and Rick Tryon and our Mayor Bob Kelly that I support the Resolution 10333 which will continue efforts for more money saving energy efficiency and money saving emergency preparedness for the city. Thank you.

Gratefully, Lita Sharone  
1200 32nd St. So, # 78  
59405

**From:** [Darcy Dea](#)  
**To:** [Mary Sheehy Moe](#); [Bob Kelly](#); [Owen Robinson](#); [Rick Tryon](#); [Tracy Houck](#)  
**Cc:** [Greg Doyon](#); [Charles Anderson](#); [Krista Artis](#); [Joseph Cik](#)  
**Subject:** FW: City Commission meeting the 18th  
**Date:** Friday, February 14, 2020 9:09:19 AM

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FYI –

Darcy

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**From:** Lisa C. Kunz <lkunz@greatfallsmt.net>  
**Sent:** Thursday, February 13, 2020 4:02 PM  
**To:** Darcy Dea <ddea@greatfallsmt.net>  
**Subject:** FW: City Commission meeting the 18th

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**From:** Dorothy Starshine  
**Sent:** Thursday, February 13, 2020 4:01:35 PM (UTC-07:00) Mountain Time (US & Canada)  
**To:** Lisa C. Kunz; [wwranch@3rivers.net](mailto:wwranch@3rivers.net)  
**Subject:** City Commission meeting the 18th

Since I will not attend the meeting Tuesday, the 18th, I certainly hope that you will establish the Energy Response Task Force because we need to prepare for the consequences of our changing weather. At 91, I feel vulnerable to be able to help myself survive any serious event. Thank you,  
*Please see below for a timely message from our friends at Great Falls-based Citizens for Clean Energy. -Brian*

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[Citizens for Clean Energy](#) encourages the public to contact the Great Falls City Commission and ask them to support Resolution 10333, which will address energy conservation and sustainability.

*[Note: The resolution would establish an "Energy Response Task Force" with the purpose of evaluating the City's energy use and resiliency and to propose a plan to improve energy conservation and emergency response to the effects of changing weather patterns in Great Falls.]*

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Love is all there is.

Did You Know That Local Electricity Costs Have Gone Up 15% in Just the Past Two Years?

Want to SAVE Some Money?

Switch to LED light Bulbs!!!

Comparison of Annual Operating Costs for One 60 W Light Bulb:

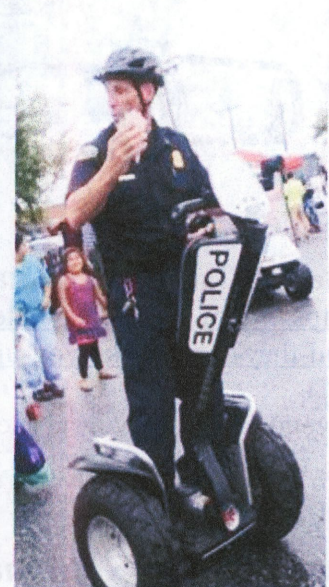
Bulb Type	Light Output (Lumens)	Equivalent Wattage	Actual Wattage Used	Lumens Per Watt Used	Annual Operating Cost *	Annual Savings Per Bulb	Cost of Bulb
Incandescent	840	60 W	60 W	14.0	\$ 7.10	0	< \$ 1
Halogen	610	60 W	43 W	14.2	\$ 5.09	\$ 2.01	\$ 2.50
CFL	825	60 W	13 W	63.5	\$ 1.54	\$ 5.56	\$ 1.96
LED (non dimmable)	800	60 W	8.5 W	94.1	\$ 1.01	\$ 6.09	\$ 2.44

\*Assuming: • 3 hours of usage per day every day for 365 days  
• Electricity costs of 10.8¢ per kwh

Presentation to City Commissioners, Great Falls, MT  
February 18, 2020 by Donna Williams  
for a digital copy email [dwilliamshome@charter.net](mailto:dwilliamshome@charter.net)

## Hyattsville Police Department

<https://www.hyattsville.org/733/Electric-Police-Vehicles>



For more information about the Hyattsville City Police Department's Electric Vehicles Program, or to have the [Chevy] Bolt EV Police Car and/or the Zero Electric Police Motorcycle at your civic group's meeting or "green" event, contact Sgt. Richard Hartnett at (301) 985-5083 or email [rhartnett@Hyattsville.org](mailto:rhartnett@Hyattsville.org)



### Considerations:

- **Initial cost** Population of Hyattsville, MD = approx 20,000
- **Charging time** Total Annual Budget = approx. \$30 million  
(\$20 million General Fund)
- **Charging stations** Police Dept Budget = approx. \$8 million
- **Range anxiety**



## Garbage Truck

<https://evtrader.com/electric-garbage-trucks/>



Volvo All-Electric garbage trucks.

Driveline: Two electric motors with 370 kW max power (260 kW cont. power) with a Volvo 2-speed transmission.

Max torque electric motors 850 Nm.

Energy storage: Lithium-ion batteries, 200-300 kWh.

Range: Up to 200 km.

Charging time: 1.5 hrs at high power; 10 hrs with low  
<https://electrek.co/2018/05/09/volvo-all-electric-garbage-truck/>

**Electric Garbage Trucks** article in Forbes Magazine by Peter Kelly-Detwiler, Mar 4, 2015

<https://www.forbes.com/sites/peterdetwiler/2015/03/04/electric-garbage-trucks-huge-energy-savings-and-they-wont-wake-you-up-in-the-morning/#36b3ed6a6368>

(hybrids and full-EV available from many manufacturers: Peterbilt, Mack-Tesla, Wrightspeed, Motiv, etc.)

## Sacramento Regional All-Electric School Bus

<https://www.prnewswire.com/news-releases/motiv-power-systems-to-power-13-all-electric-school-buses-in-zero-emission-bus-pilot-300455729.html>

Sacramento school districts are leading the way in transitioning California's school bus fleets to all-electric with 13 Motiv powered zero-emission school buses for its Elk Grove and Twin Grove School Districts.



## Make the Electric City Electric Again!

### How much do EV charging stations cost?

by John Riley, March 3, 2018

<https://triggerenergy.com/how-much-do-ev-charging-stations-cost/>

<b>Commercial installed</b>	110v – \$1,500 to \$6,000 charges car in 8 – 12 hr	240v – \$4,000 to \$10,000 charges car in 4 – 8 hr	480v – \$ tens of thousands charges car in ½ hr
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