## Exelon. "efficient"

"clean"

"affordable"

Your electric bill - May 2019 for the period April 9, 2019 to May 8, 2019

## ARIK LEVINSON

$P=P 8$

## Account number: 55018279335

## Type of charge

Distribution Services:
Customer Charge

Energy Charge
Energy Charge
Residential Aid Discount
Surcharge
Administrative Credit
Underground Project Charge
Subtotal (Set by DC PSC)
EDIT Credit 5 Year - KWH First 400 kWh X $\$ 0.0001400$ - per kWh EDIT Credit 5 Year - KWH Last $102 \mathrm{kWh} \times \$ 0.0002700$ - per kWh EDIT Credit 10 Year - KWH First 400 kWh X $\$ 0.0004700$ - per kWh EDIT Credit 10 Year - KWH Last 102 kWh X \$0.0009300- per kWh

Energy Assistance Trust

| Fund | $502 \mathrm{kWh} \times \$ 0.0002322$ per kWh |
| :--- | :--- |
| Sustain Energy Trust Fund | $502 \mathrm{kWh} \times \$ 0.0016120$ per kWh |
| Public Space Occupancy |  |
| Surcharge | $502 \mathrm{kWh} \times \$ 0.0021100$ per kWh |
| Delivery Tax | $502 \mathrm{kWh} \times \$ 0.0070000$ per kWh |

Subtotal (Not set by DC PSC)
Total Electric Delivery Charges
$502 \mathrm{kWh} \times \$ 0.0000200$ per kWh
How we calculate this charge

First 400 kWh $\times \$ 0.0084250$ per kWh Last 102 kWh X $\$ 0.0162745$ per kWh
$502 \mathrm{kWh} \times \$ 0.0007650$ per kWh
502 kWh X \$0.0007163- per kWh
$502 \mathrm{kWh} \times \$ 0.0016120$ per kWh
$02 \mathrm{kWh} \times \$ 0.0070000$ per kWh

## Amount(S)

15.09
1.373.37 1.66 0.38
0.36-
15.09 1.66
.
.

[^0]Delivery Charges: These charges reflect the cost of bringing electricity to you. Current charges for 30 days, winter rates in effect.



## Panel A. 1999



Panel B. 2007


Average Price response (Ito)

- Welfare mistake
- Too much electricity
- Budget balanced (?)

Average Price response (Ito)

- Welfare mistake
- Too much electricity
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Average price


Figure 6. : Distribution of BC Hydro consumption by household

## Shaffer Price response

- Marginal choice optimal
- Budget mistake
- Ex ante: buy less
- Ex post: buy more

Shaffer price




Figure 3. : BC Hydro and New Westminster electricity rates; 2005-2013

Energy Prices - Flat Rate Structure


Tariffs shift more costs to high users when ...

1. More local income inequality.
2. Higher average price.
3. More local air pollution.

## Ito (2014) and Shaffer (2019)

Increasing block pricing increases electricity demand.

Figure 10: PG\&E Zone T: June 2009


# Brolinson (2019) 

Thursday<br>11:00 AM Regency F

## Income and electricity use



Income and electricity use


## Income and electricity use



Income and electricity use


## Why?



Family income

## Exelon. "efficient"

"clean"

"affordable"

## Three strikes against increasing block pricing:

1) Inefficient.
a. Most people do not pay marginal cost.
b. Different prices for the exact same good.
2) Increase total electricity consumption.
a. Ito (2014)
b. Brolinson (2019)
c. Shaffer (2019)
3) Do a bad job of redistributing costs from poor to rich ratepayers.

[^0]: