

"efficient"

"clean"

"affordable"

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

Type of charge	How we calculate this charge	Amount(\$)
Distribution Services:		
Customer Charge		15.09
Exelon Base Rate Credit		1.37-
Energy Charge	First 400 kWh X \$0.0084250 per kWh	3.37
Energy Charge Residential Aid Discount	Last 102 kWh X \$0.0162745 per kWh	1.66
Surcharge	502 kWh X \$0.0007650 per kWh	0.38
Administrative Credit Underground Project	502 kWh X \$0.0007163- per kWh	0.36–
Charge	502 kWh X \$0.0000200 per kWh	0.01
Subtotal (Set by DC PSC)		18.78
EDIT Credit 5 Year - KWH	First 400 kWh X \$0.0001400- per kWh	0.06-
EDIT Credit 5 Year - KWH	Last 102 kWh X \$0.0002700- per kWh	0.03-
EDIT Credit 10 Year - KWH	First 400 kWh X \$0.0004700- per kWh	0.19-
EDIT Credit 10 Year - KWH	Last 102 kWh X \$0.0009300- per kWh	0.09-
Energy Assistance Trust		
Fund	502 kWh X \$0.0002322 per kWh	0.12
Sustain Energy Trust Fund Public Space Occupancy	502 kWh X \$0.0016120 per kWh	0.81
Surcharge	502 kWh X \$0.0021100 per kWh	1.06
Delivery Tax	502 kWh X \$0.0070000 per kWh	3.51
Subtotal (Not set by DC F	5.13	
Total Electric Delivery Ch	23.91	

Your electric bill - May 2019

for the period April 9, 2019 to May 8, 2019

ARIK LEVINSON

Account number: 5501 8279 335

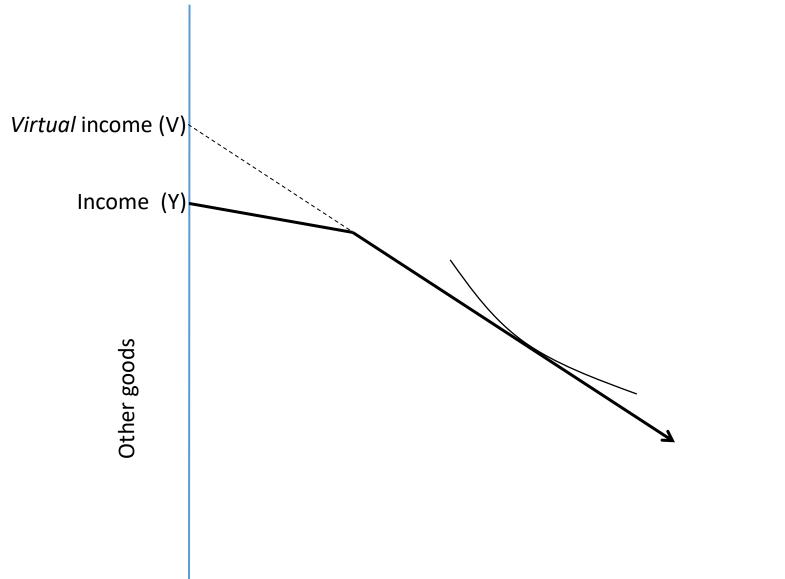


An Exelon Company

Supply Charges: These charges reflect the cost of producing electricity for you. You can compare this part of your bill to offers from competitive suppliers. Your electricity is supplied by the standard offer service (SOS) administered by Pepco - call 202-833-7500 or visit pepco.com.

Based on billed use, your average annual price to compare is 7.58 cents per kwh.

Type of charge	How we calculate this charge	Amount(\$)
Transmission Services: Transmission Minimum Charge	Includes First 30 kWh	0.12
Energy Charge	472 kWh X \$0.0079000 per kWh	3.73
Generation Services: Generation Minimum Charge	Includes First 30 kWh	2.15
Energy Charge Procurement Cost	472 kWh X \$0.0716300 per kWh	33.81
Adjustment	502 kWh X \$0.0024402 per kWh	1.22
Total Electric Supply Charges		41.03
Total Electric Charges - Residential-R		64.94

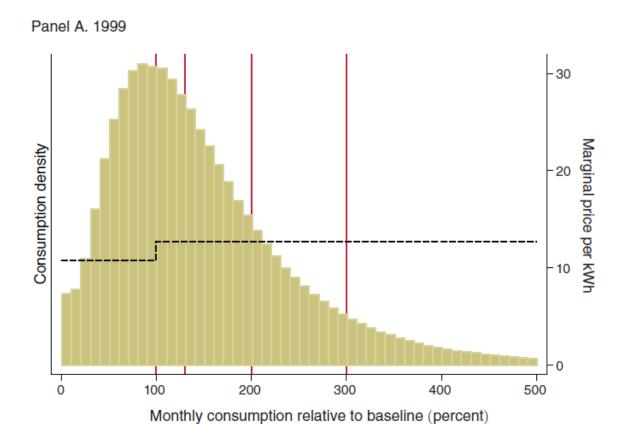


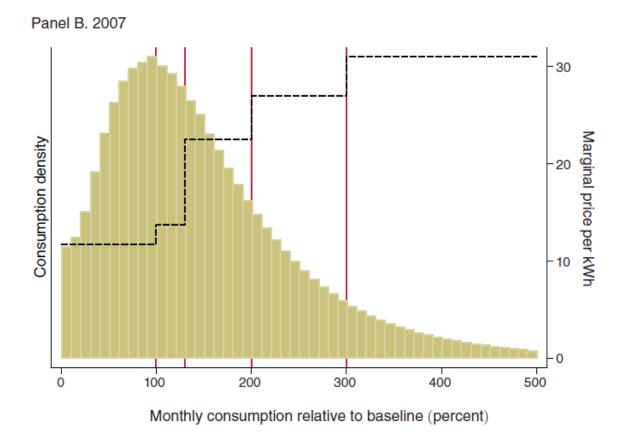
Marginal Price response

- Welfare maximized
- Budget balanced

Marginal Price response

- Welfare maximized
- Budget balanced





Average Price response (Ito) - Welfare mistake - Too much electricity - Budget balanced (?) Average price

Average Price response (Ito) - Welfare mistake

- Too much electricity
- Budget balanced (?)

Average price

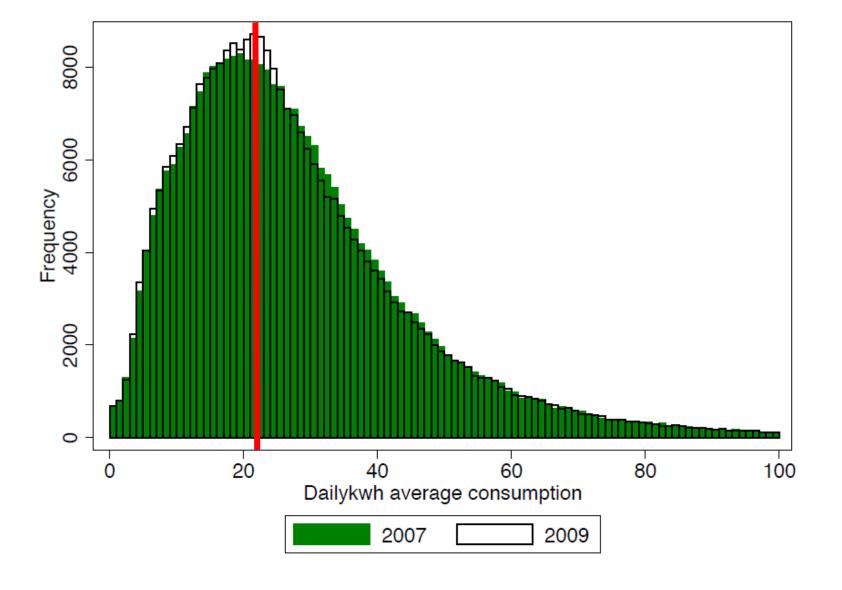


Figure 6. : Distribution of BC Hydro consumption by Household

Shaffer Price response - Marginal choice optimal - Budget mistake - Ex ante: buy less Shaffer income - Ex post: buy more Shaffer price

Shaffer income

Shaffer Price response

- Marginal choice optimal
- Budget mistake

A pure income effect.

- Ex ante:
 - Underestimate budget
 - Buy less electricity
- Ex post:
 - Positive income surprise
 - Buy more electricity.

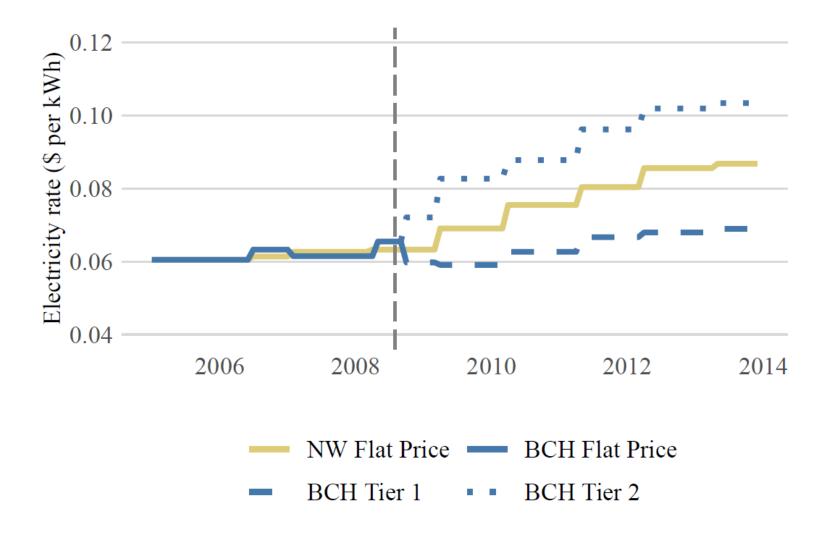
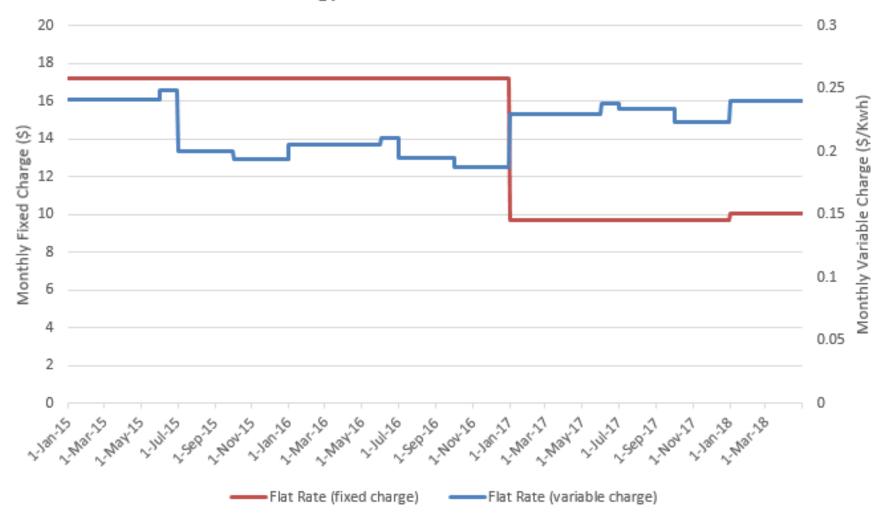


Figure 3.: BC Hydro and New Westminster electricity rates; 2005–2013

Energy Prices - Flat Rate Structure



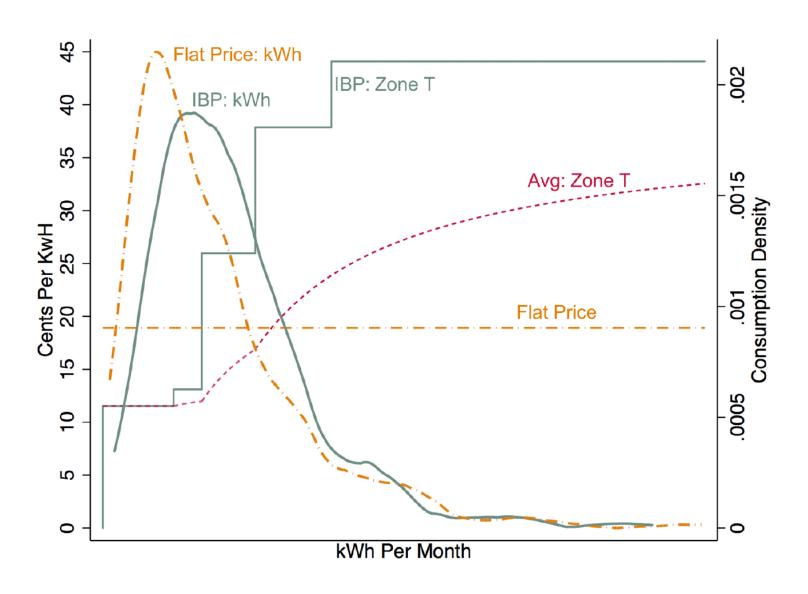
Tariffs shift more costs to high users when ...

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

Ito (2014) and Shaffer (2019)

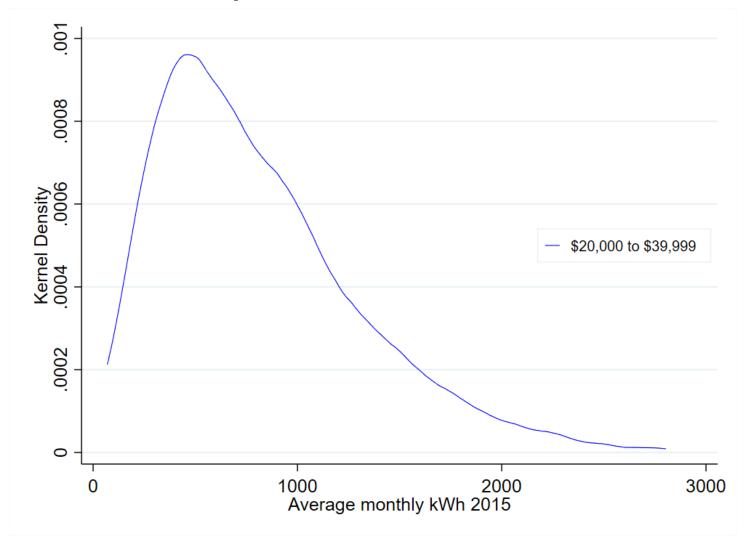
Increasing block pricing *increases* electricity demand.

Figure 10: PG&E Zone T: June 2009

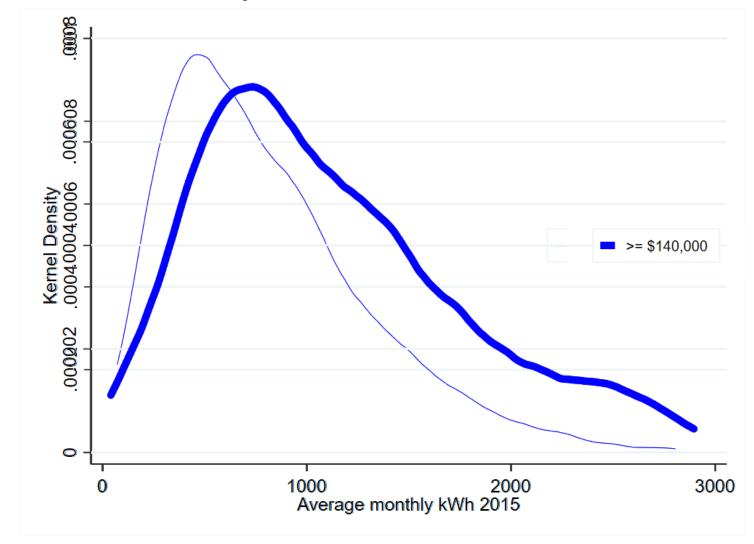


Brolinson (2019)

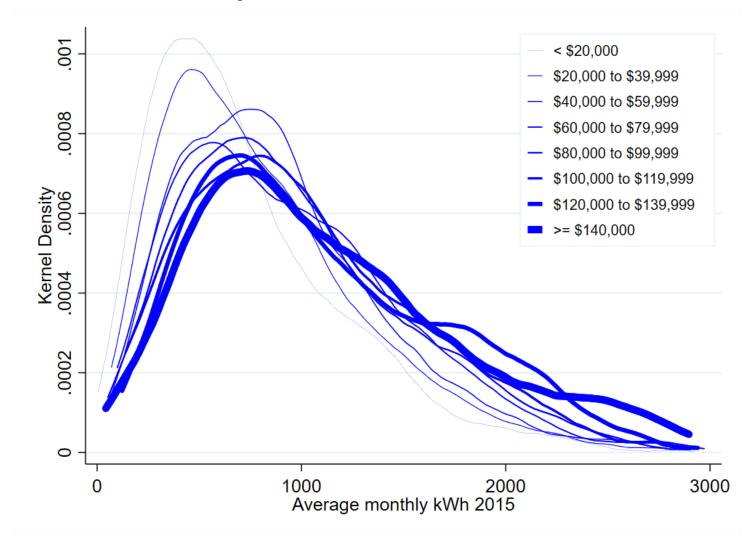
Thursday 11:00 AM Regency F



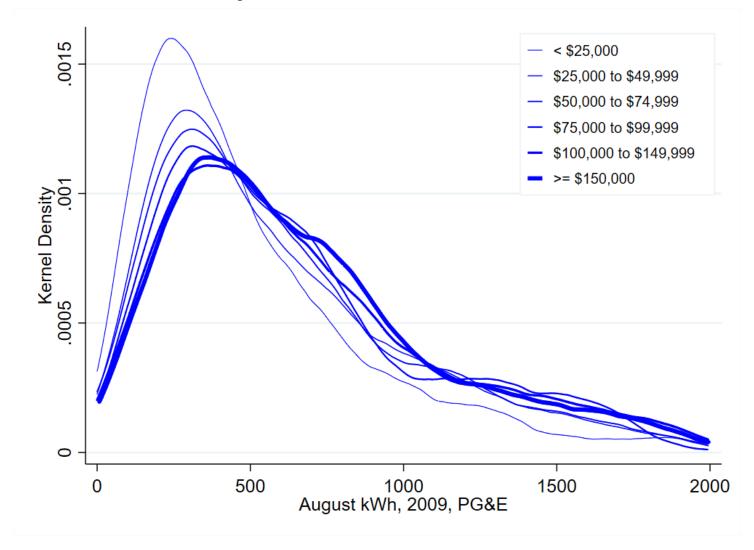
Source: 2015 RECS



Source: 2015 RECS

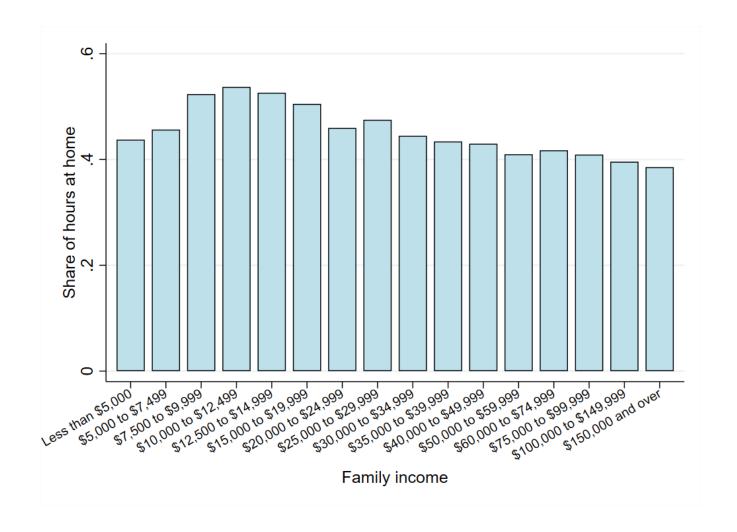


Source: 2015 RECS



Source: 2009 RASS

Why?





"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.