

## Layton, Kimberly

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**From:** Schubert, Peter J [pjschube@iupui.edu]  
**Sent:** Friday, May 16, 2014 9:18 AM  
**To:** Comments, Urc  
**Subject:** Electricity rate structure survey  
**Attachments:** Comparison of electric rate structures - US - IUPUI Lugar Center for Renewable Energy.pdf

Dear Chairman, Commissioners, and Counsel of the Indiana Utility Regulatory Commission,

Please find attached a survey of electric rate structures across the United States. This was compiled in 2013 as part of a research project and illustrates a reasonably comprehensive sample of different rate structures. The purpose of providing these is to offer ideas and example for consideration in your deliberations regarding demand-side management.

Best regards,

Peter

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# Electric Utility Rate Structure Survey - US

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# Electricity Rate Structures

Different utilities have different rate structures.

Most utilities have a **basic charge** which is applied to all bills each month. The **demand charge** (for peak power draw in kilowatts) and the **energy charge** (for total consumption in kilowatt-hours) are added to that basic charge to compute a monthly electric bill.

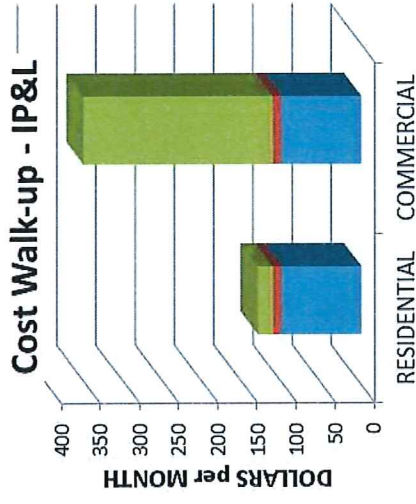
This document presents graphical representation of rate structures sampled from a nationwide survey. *Note that most states offer a choice of meters between “demand charge” and “time-of-day” energy charge (see “Choose Meter” on slides 4-9, 12, 15-17).*

# Case Studies

- Indiana (see page 18)

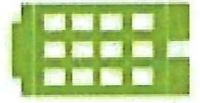
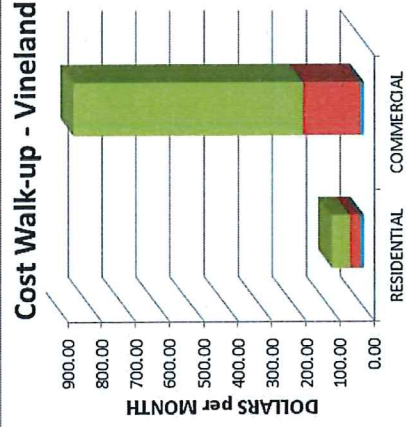
Profile	Peak Power Demand kilowatts	Total Energy Consumption kilowatt-hours	IP&L (Indiana)			Effective Rate -cents per kWh
			Base Charge	Demand Charge	Energy Charge	
RESIDENTIAL	4.5	720	103.33	10.55	19.30	133.18
COMMERCIAL	25	9000	103.33	10.55	241.20	355.08
INDUSTRIAL	650	180000	103.33	10.18	4824.00	4937.51

These calculations of hypothetical monthly bills for homes, businesses, and factories are intended to illustrate how electricity rate structures affect prices paid by consumers. Similar studies can be done for the 12 examples illustrated herein.



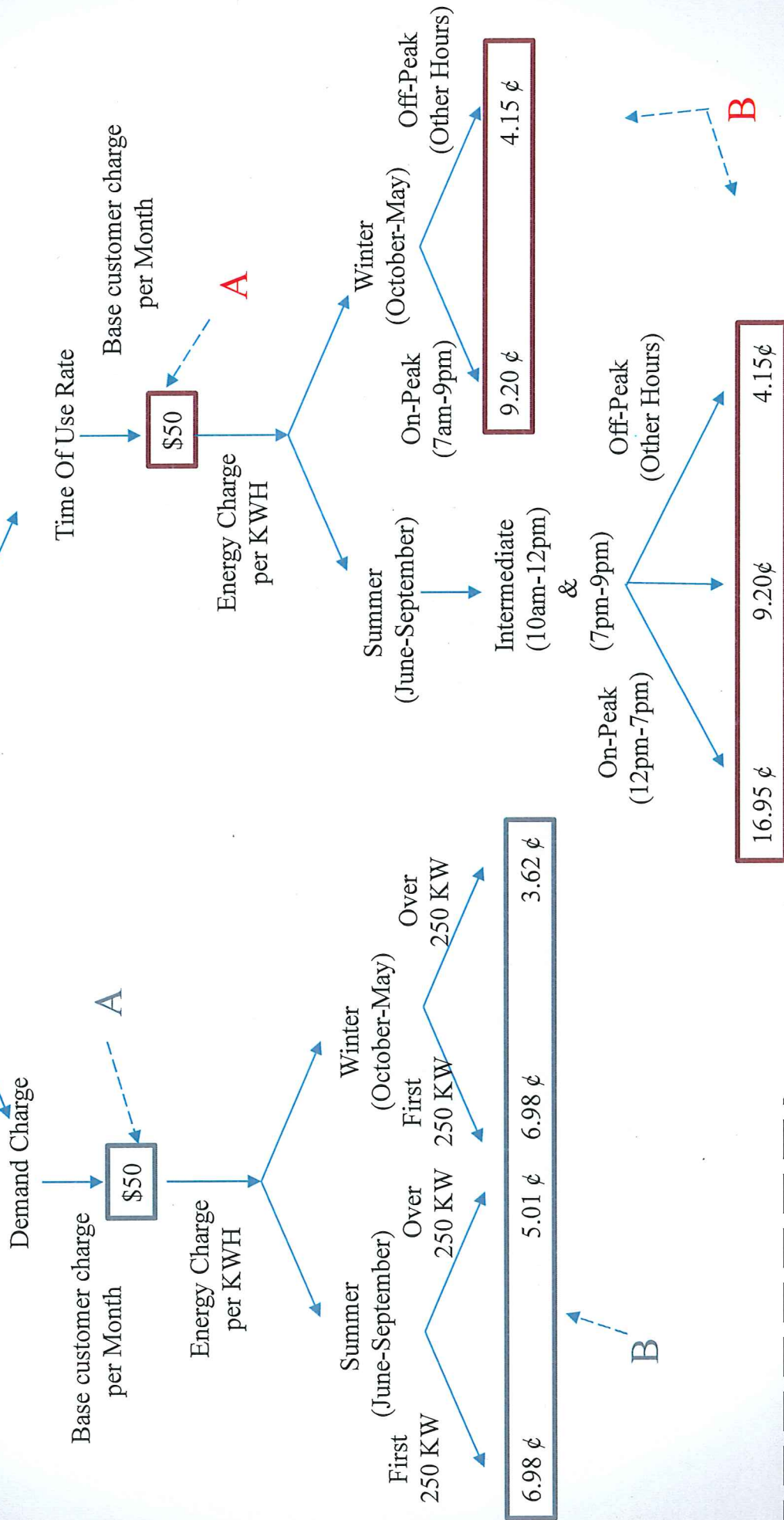
- New Jersey (see page 10)

Profile	Peak Power Demand kilowatts	Total Energy Consumption kilowatt-hours	Vineland Municipal - New Jersey			Effective Rate -cents per kWh
			Base Charge	Demand Charge	Energy Charge	
RESIDENTIAL	4.5	720	11.20	30.42	54.00	95.62
COMMERCIAL	25	9000	11.20	169	675.00	855.20
INDUSTRIAL	650	180000	11.20	4394	13500.00	17905.20



# Alabama - Power & Light

Choose Meter



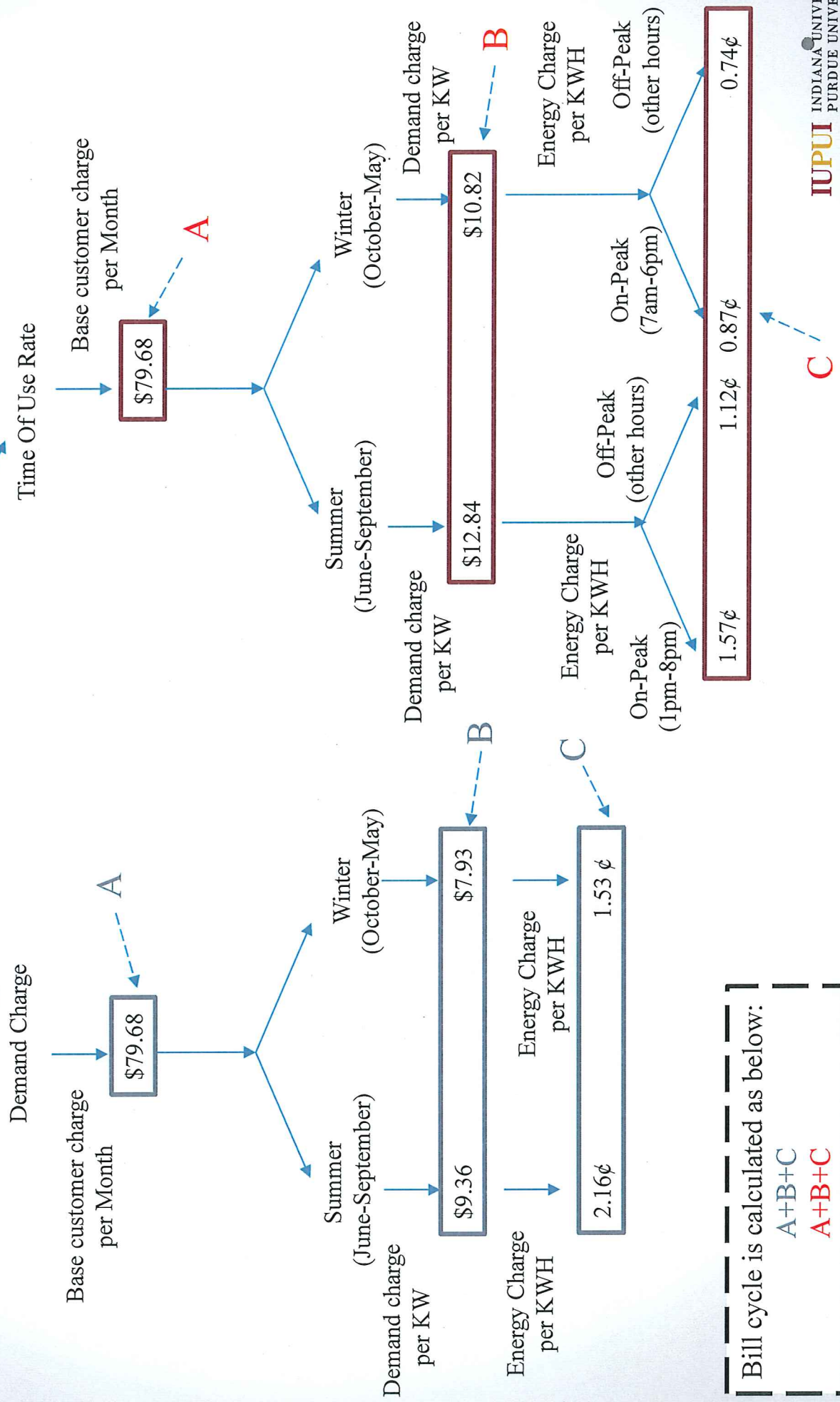
Bill cycle is calculated as below:

A+B

A+B

# Arkansas - Entergy

Choose Meter



Bill cycle is calculated as below:  
 A+B+C  
 A+B+C

# Arizona - Public Service (APS)

Choose Meter

Demand Charge

Base customer charge per Month

Time Of Use Rate

Base customer charge per Month

\$15.87

\$15.87

First 100 KW  
Over 100 KW

\$10.23  
\$5.38

First 100 KW  
On-Peak Demand

\$15.16

First 100 KW  
Off-Peak Demand

\$5.89

\$10.01

Additional On-Peak Demand

\$3.16

Additional Off-Peak Demand

Demand Charge

Base customer charge per Month

Time Of Use Rate

Base customer charge per Month

\$15.87

\$15.87

First 100 KW  
Over 100 KW

\$10.23  
\$5.38

First 100 KW  
On-Peak Demand

\$15.16

First 100 KW  
Off-Peak Demand

\$5.89

\$10.01

Additional On-Peak Demand

\$3.16

Additional Off-Peak Demand

Energy Charge per KWH

Summer (May-October)

First 200 KW  
Over 200 KW

9.88¢  
6.09¢  
8.37¢  
4.58¢

Winter (October-May)

First 200 KW  
Over 200 KW

4.58¢

Summer (May-October)

On-Peak (May-October)

Off-Peak

6.56¢  
5.43¢  
5.27¢

Winter (October-May)

On-Peak

Off-Peak

4.14¢

Bill cycle is calculated as below:

A+B+C

A+B+C

C

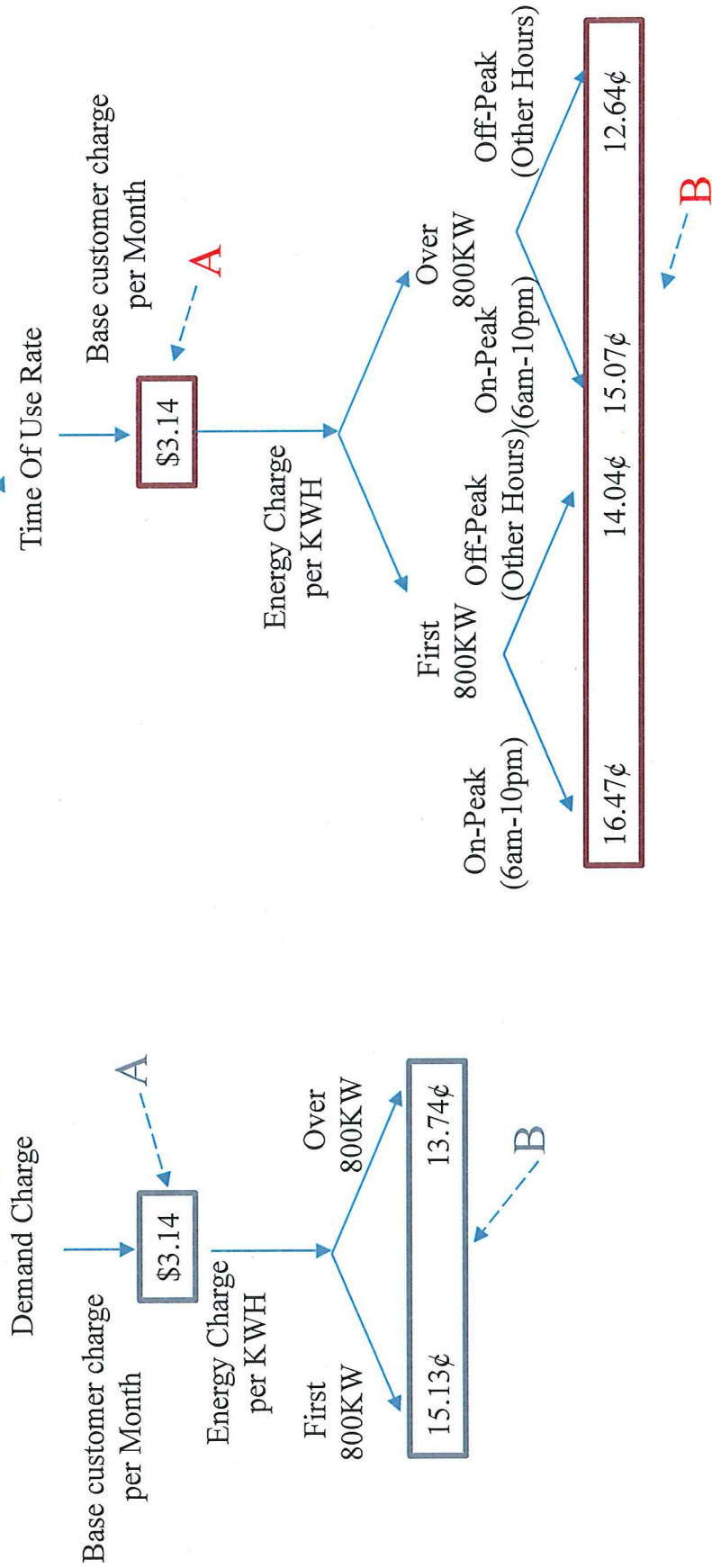
A

B

B

# California - Silicon Valley Power

Choose Meter



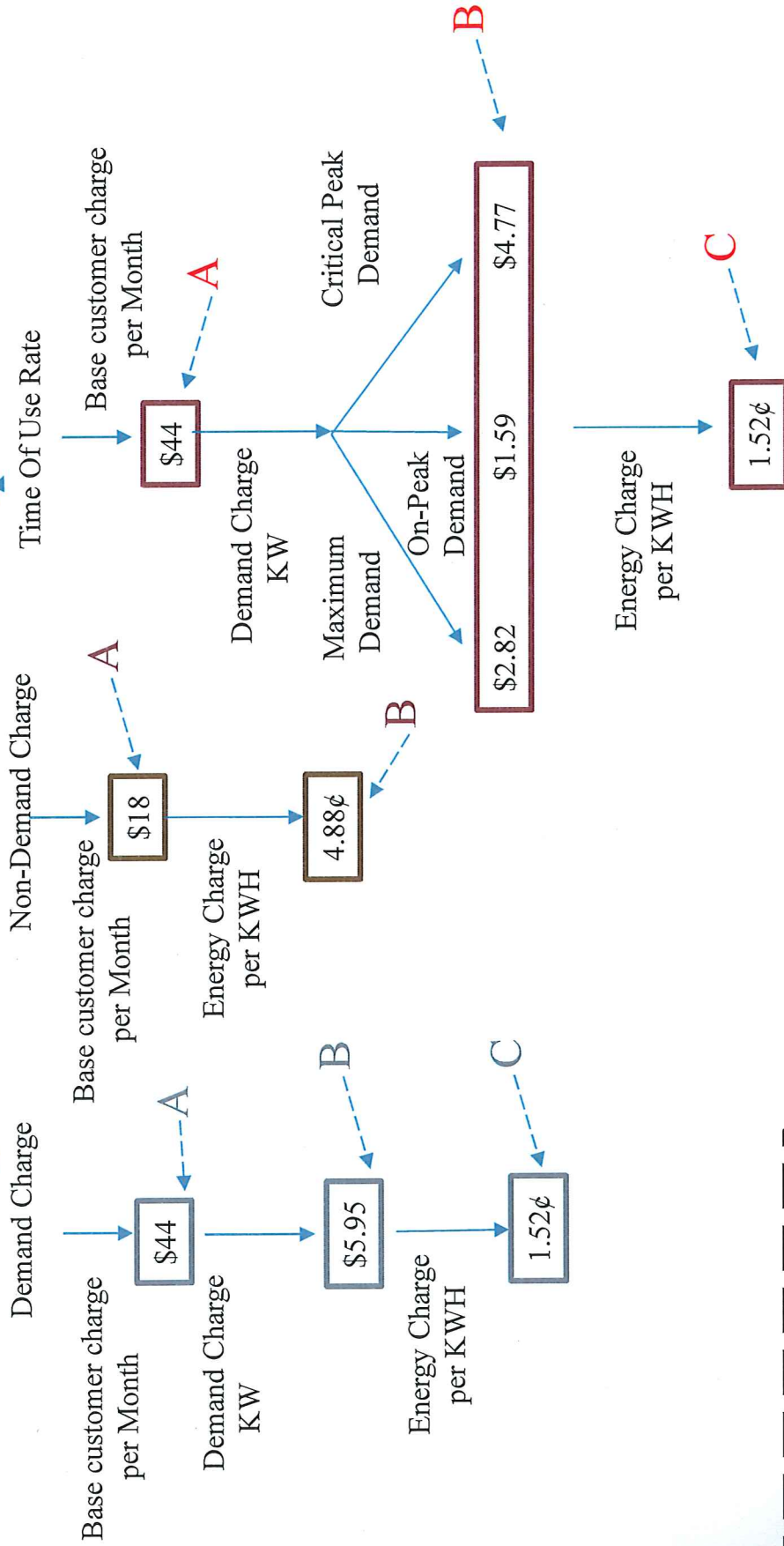
Bill cycle is calculated as below:

A+B  
A+B



# Florida - Gulf Power

Choose Meter



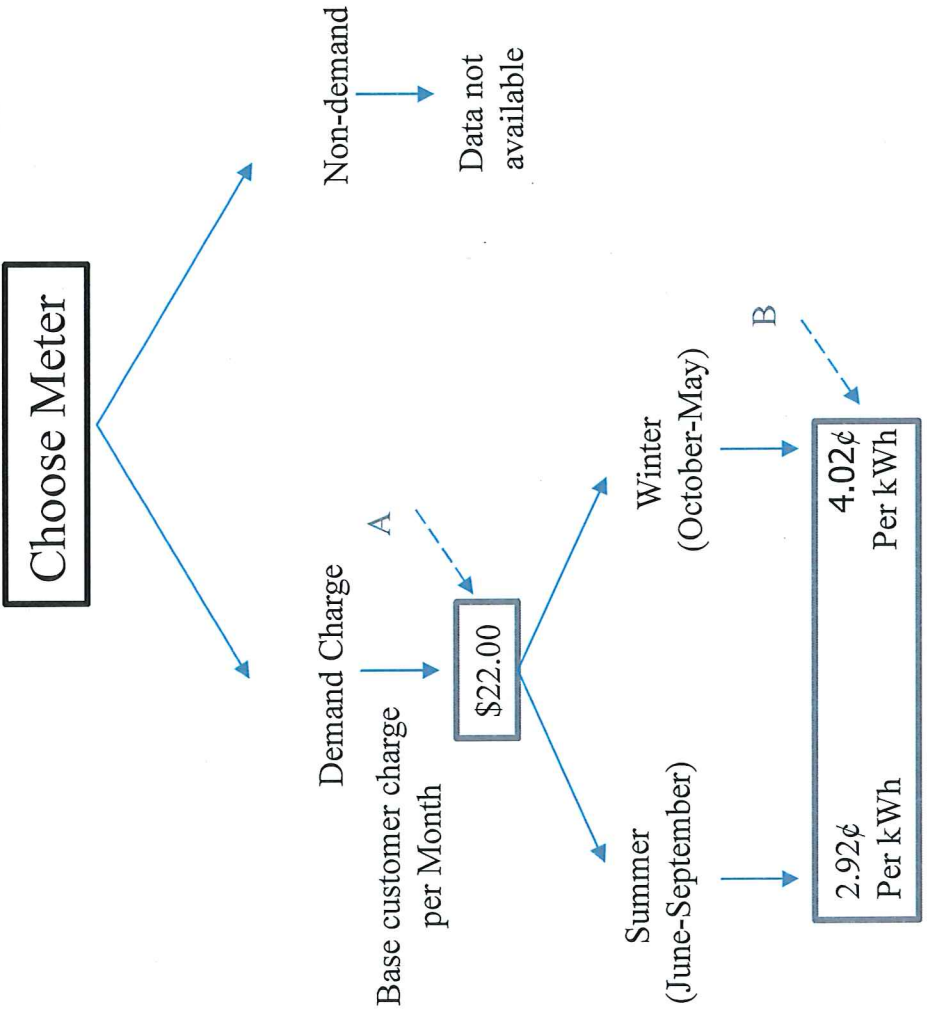
Bill cycle is calculated as below:

A+B+C

A+B

A+B+C

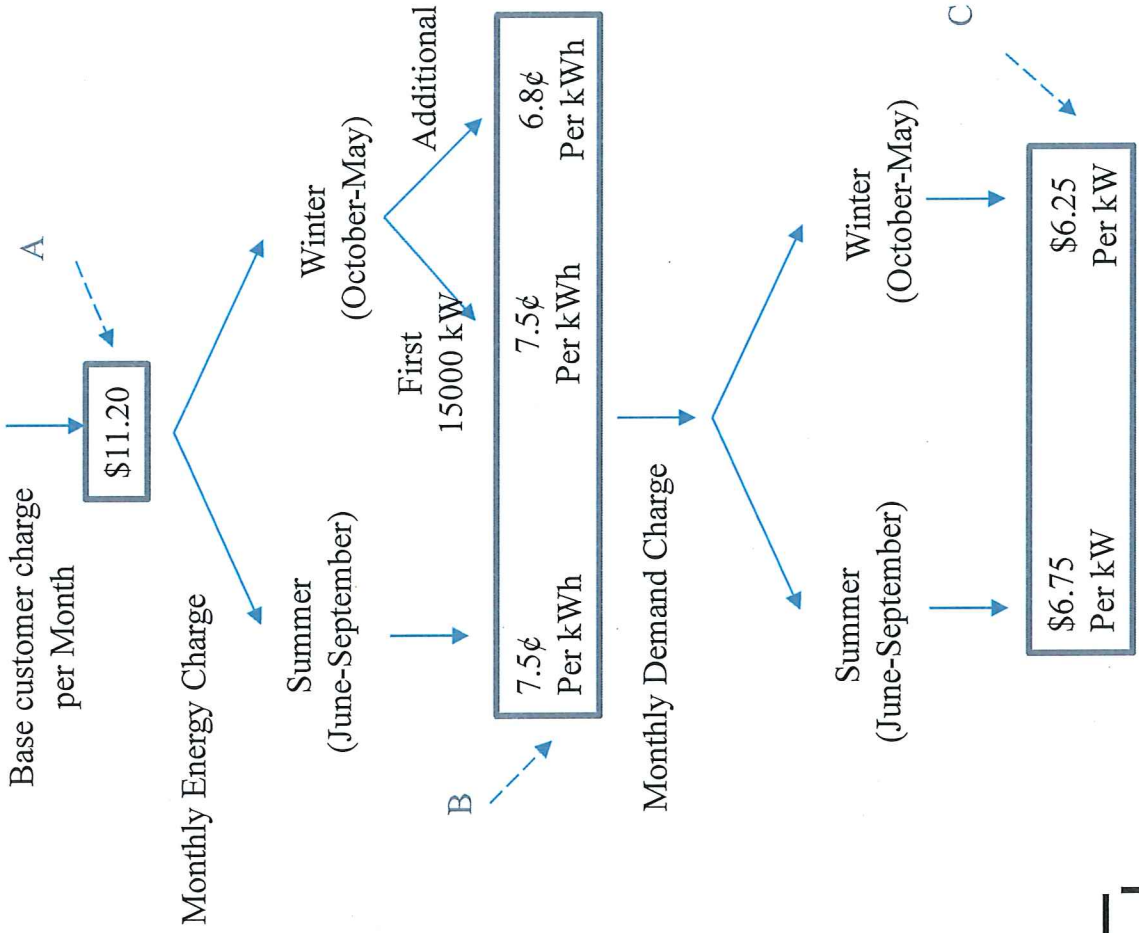
# Seattle City Light - Washington



Bill cycle is calculated as below:  
A+B

# Vineland Municipal Electric Utility

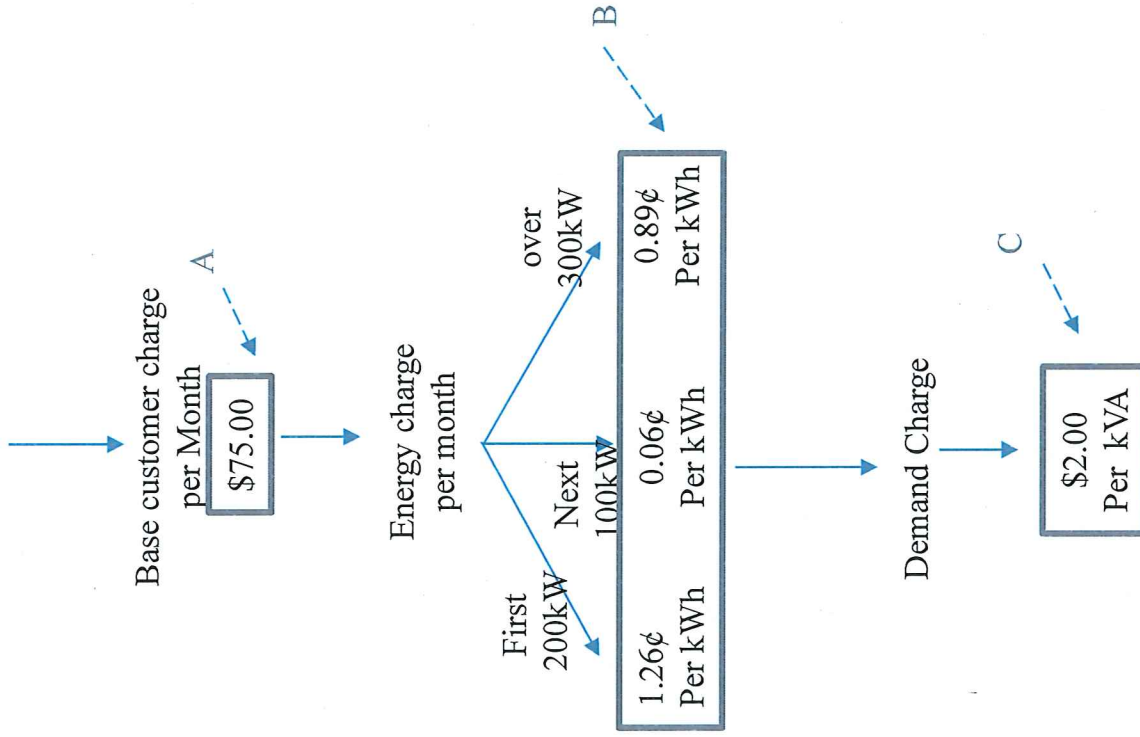
## New Jersey



Bill cycle is calculated as below:

$$A+B+C$$

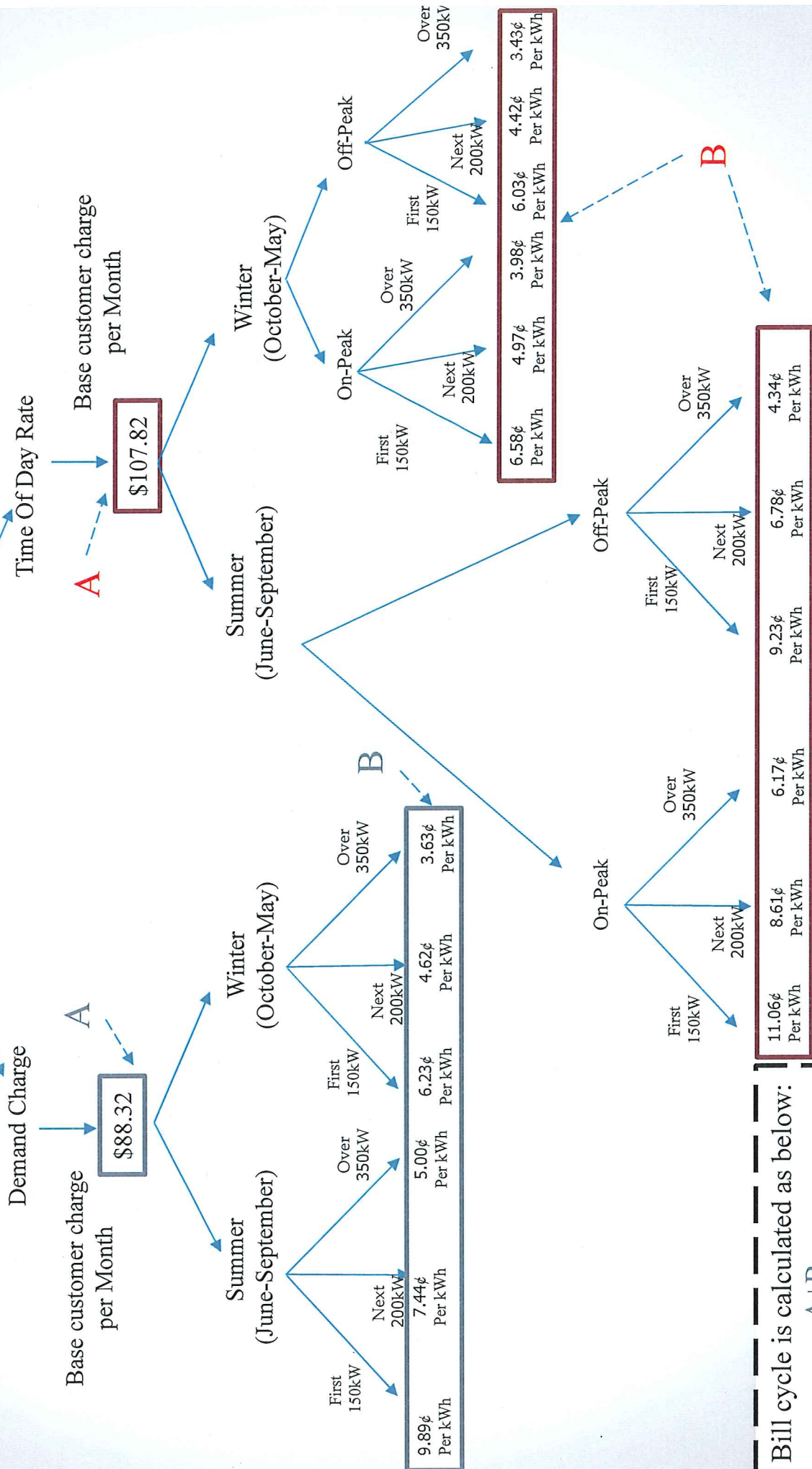
# South Central Power Company-Ohio



Bill cycle is calculated as below:  
A+B+C

# Ameren - Missouri

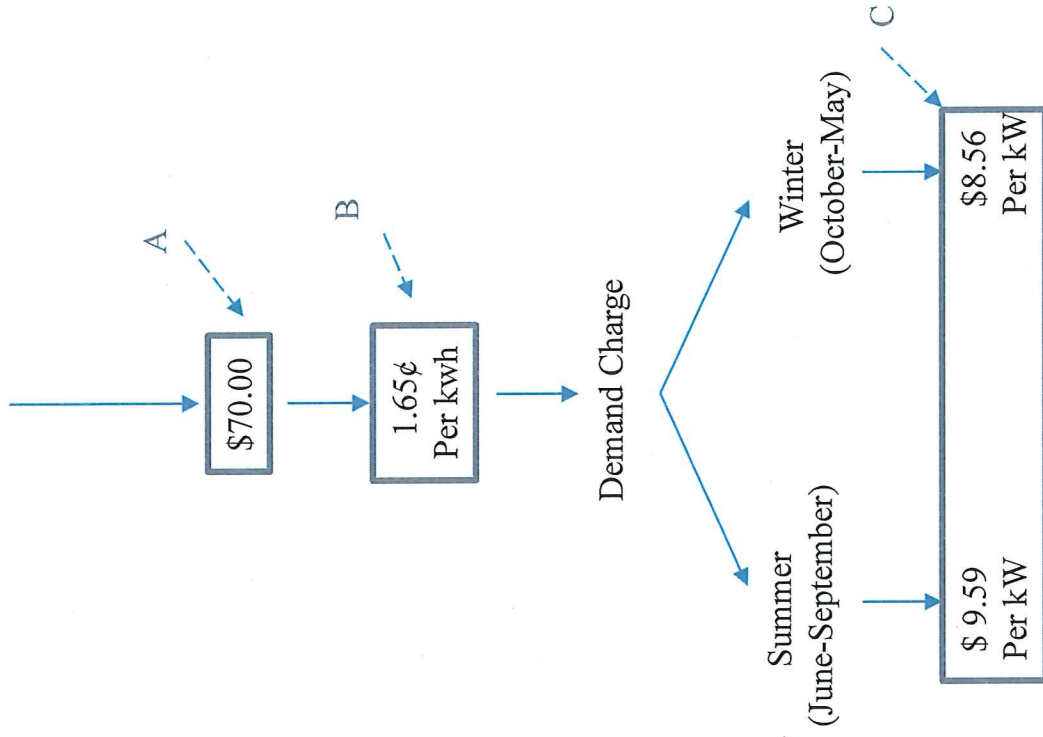
Choose Meter



Bill cycle is calculated as below:

A+B  
A+B

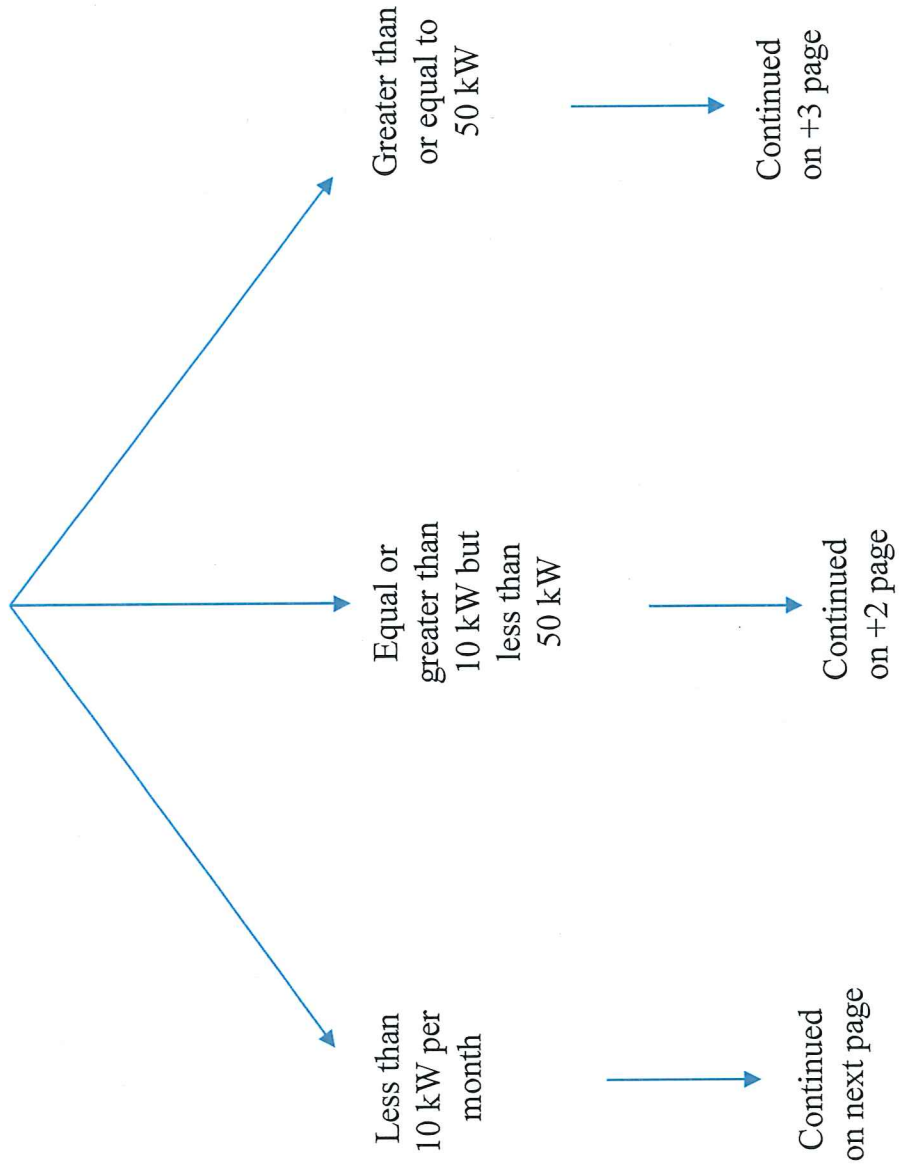
# Montana-Dakota Utilities-Montana



Bill cycle is calculated as below:

$$A+B+C$$

# Austin Energy – Texas (page 1 of 4)



# Austin Energy – Texas (cont....)

Less than 10 kW in a given month

Choose Meter

Monthly Charge

\$ 18

Base customer charge per Month

Summer

6.19¢ Per kWh

Winter

4.59¢ Per kWh

A

B

Time of Use

\$ 21.60

Base customer charge per Month

A

Summer

12.43¢	6.33¢	0.79¢	0¢	0.79¢
Per kWh	Per kWh	Per kWh	Per kWh	Per kWh

On-peak

Mid-peak

Off-peak

On-peak

Mid-peak

Off-peak

Winter

6.33¢	0.79¢	0.79¢
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On-peak

Mid-peak

Off-peak

B

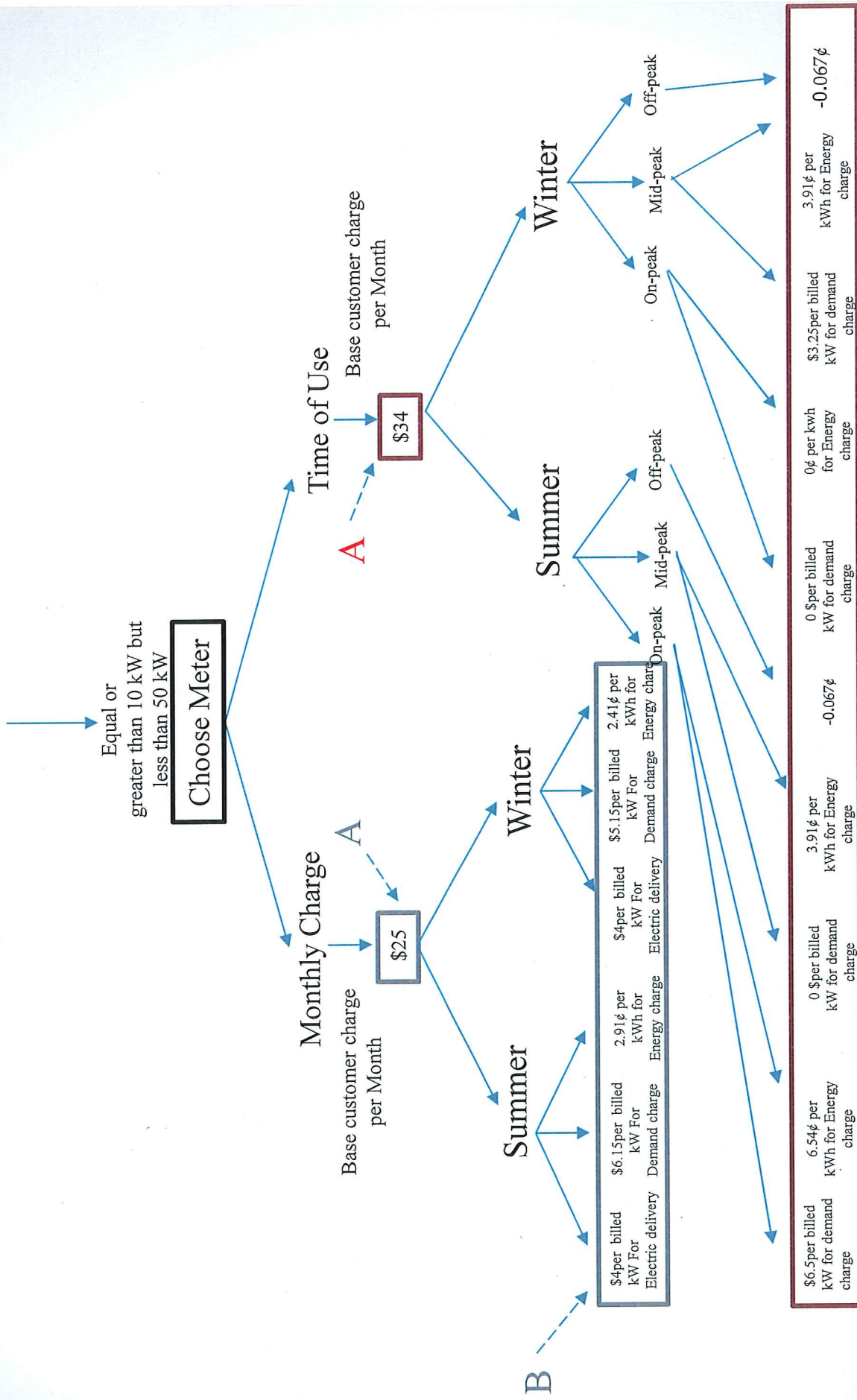
Bill cycle is calculated as below:

A+B

A+B



# Austin Energy –Texas (cont....)

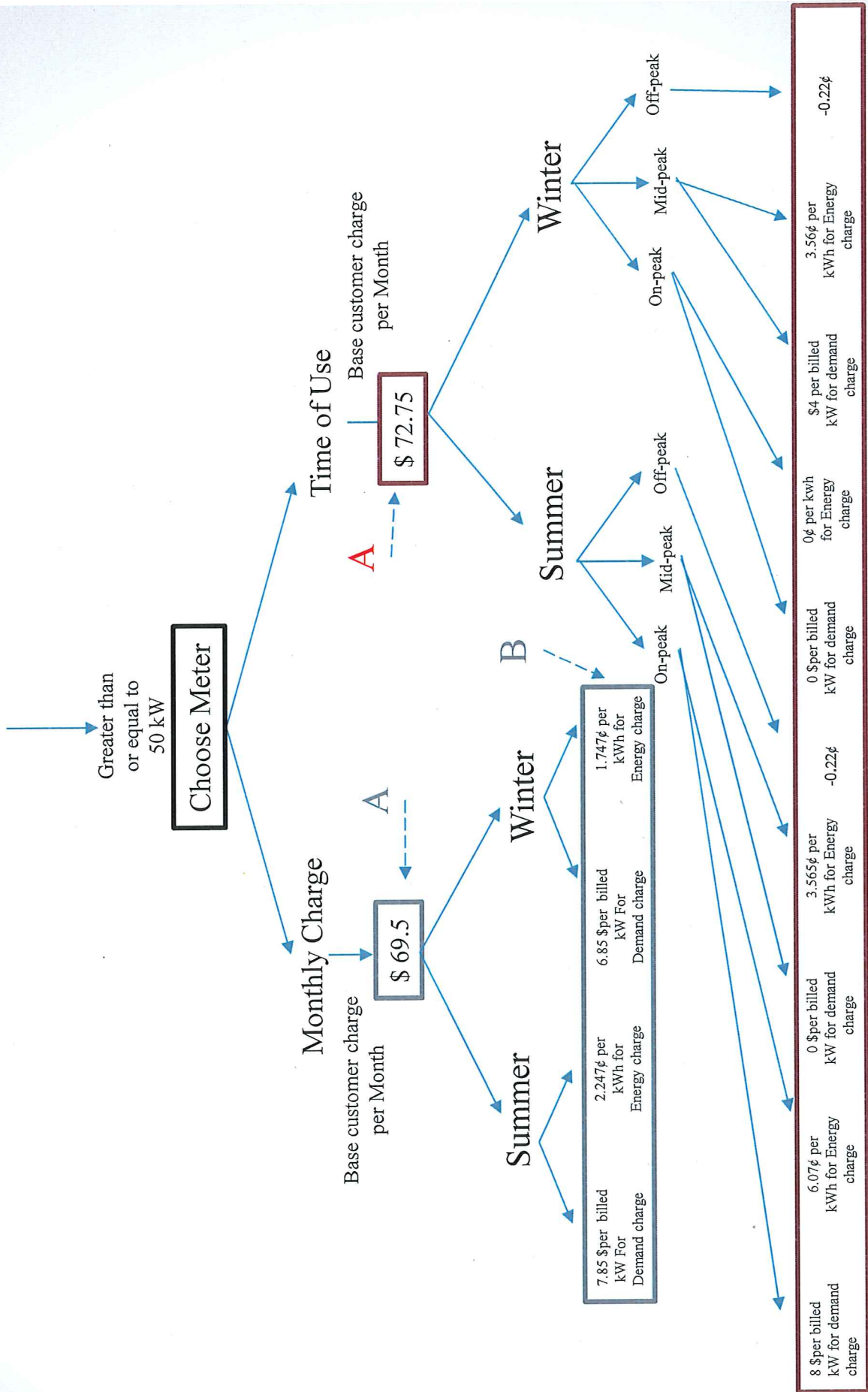


Bill cycle is calculated as below:

A+B

A+B

# Austin Energy -Texas (page 4 of 4)

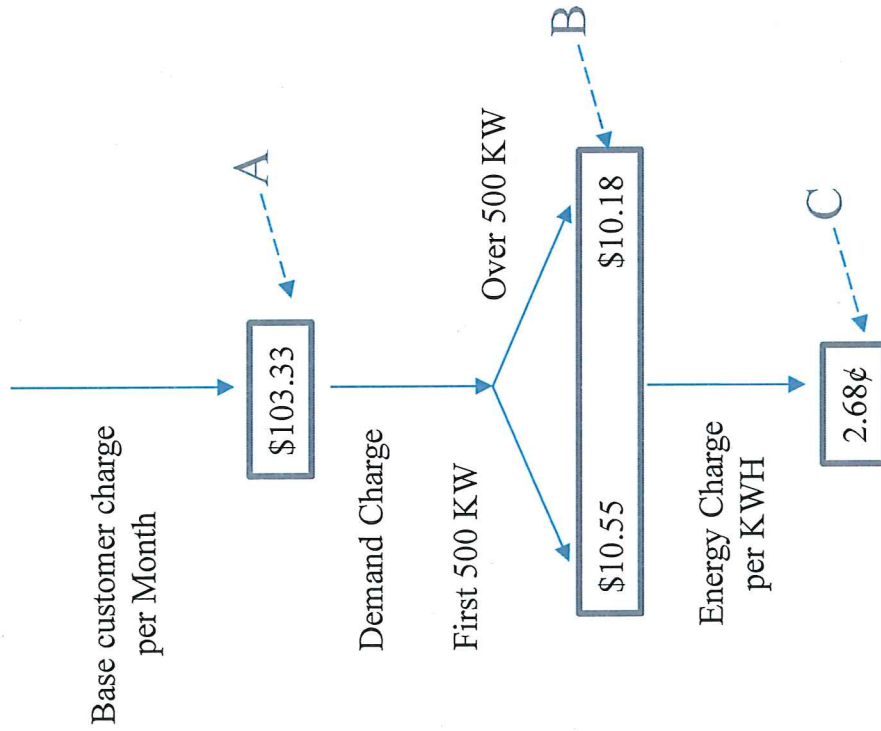


Bill cycle is calculated as below:

A+B

A+B

# Indiana- IP&L



*Note these are commercial rates for "Secondary Large" entities. Residential rate structures are more complex.*

Bill cycle is calculated as below:  
A+B+C