Octopus Energy's competitiveness vs. other market participants' pricing strategies



Maria Chernevich 19.04.2023

Agenda

- Case overview
- 2. Libraries
- 3. Initial exploration
- 4. Additional manipulations
- 5. Research
- 6. Striking facts
- 7. Portfolio per company
- 8. Summary



Case overview

Case Overview

Libraries

Task: Analyse OE competitiveness vs. market participants' pricing strategies

Sub-questions:

- ☐ Comparison of OE prices to all competitors
 - Any striking patterns?
- ☐ Significant differences in competitors' tariffs structure?
 - Any associated risks/chances?
- ☐ Generalisation of pricing strategies in competitors' tariffs
 - Additional insights?

Libraries











Initial exploration

NA Check

df.isnull().sum().sum()
0

Columns names and their data types

```
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 96 entries, 0 to 95
Data columns (total 12 columns):
     Column
                           Non-Null Count Dtype
                           -----
     zip code
                           96 non-null
                                           int64
     location name
                           96 non-null
                                           object
     provider
                           96 non-null
                                           object
     product
                           96 non-null
                                           object
    consumption level kwh 96 non-null
                                           int64
     agg cost year
                           96 non-null
                                           float64
                                           float64
     standing charge year 96 non-null
    consumption cost year 96 non-null
                                           float64
    signup bonus
                           96 non-null
                                           float64
     price guarantee
                           96 non-null
                                           int64
    contract length
                           96 non-null
                                           int64
 11 report_date
                           96 non-null
                                           object
dtypes: float64(4), int64(4), object(4)
memory usage: 9.1+ KB
```

Numeric values overview

	zip_code	consumption_level_kwh	agg_cost_year	standing_charge_year	consumption_cost_year	signup_bonus	price_guarantee	contract_length
count	96.00	96.00	96.00	96.00	96.00	96.00	96.00	96.00
mean	81671.00	2760.42	1003.91	106.99	1034.84	137.92	14.00	8.33
std	0.00	891.42	244.17	20.25	337.53	143.83	4.50	5.21
min	81671.00	2000.00	697.65	80.27	715.67	0.00	12.00	1.00
25%	81671.00	2000.00	813.76	94.80	747.80	0.00	12.00	1.00
50%	81671.00	2000.00	862.31	98.09	852.20	132.00	12.00	12.00
75%	81671.00	4000.00	1285.49	133.49	1470.30	300.00	12.00	12.00
max	81671.00	4000.00	1416.69	153.80	1667.20	384.00	24.00	12.00

Text values overview

df.describe(include=object)

lo	cation_name	provider	product	report_date
count	96	96	96	96
unique	1	5	10	16
top	München	Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	2023-03-16
freq	96	32	16	8

Case Overview

Additional

manipulations

Additional manipulations

```
aggregated cost / year = standing charge / year + consumption cost / year - signup bonus
aggregated\ price(\ per\ kwh) = \frac{aggregated\ cost\ /\ year}{consumption level} *100\%
consumption\ price(per\ kwh) = \frac{consumption\ cost/\ year}{consumption\ level} *100\%
                                                                                     > 100% if sign-up bonus is higher than standing charge
```

Initial exploration

$consumption cost \ percent = \frac{consumption \, cost \, / \, year}{aggregated \, cost \, / \, year} * 100\%$

$$standing\,charge\,percent = \frac{standing\,charge\,/\,year}{aggregated\,cost\,/\,year} * 100\,\%$$

$$sign-up\ bonus\ percent = \frac{sign-up\ bonus}{aggregated\ cost\ /\ year}*100\%$$

Code snippets

<pre>df["aggr_per_kwh"] = df["agg_cost_year"] / df["consumption_level_kwh"]</pre>		
<pre>df["consumption_price"] = df["consumption_cost_year"] / df["consumption_level_kwh"]</pre>	0.42	0.3
df["consumption_cost_percent"] = df["consumption_cost_year"] / df["agg_cost_year"]*100		
<pre>df["standing_charge_percent"] = df["standing_charge_year"] / df["agg_cost_year"]*100</pre>		
<pre>df["bonus_percent"] = df["signup_bonus"] / df["agg_cost_year"]*100</pre>		
<pre>df["check1"] = df.apply(lambda row: row.standing_charge_percent + row.consumption_cost_percent</pre>	-row.bonus_percent,	axis

Data Frame

check1	bonus_percent	consumption_cost_percent	standing_charge_percent	consumption_price	aggr_per_kwh
100.00	0.00	88.40	11.60	0.37	0.42
100.00	3.61	90.39	13.22	0.35	0.39
100.00	1.75	91.89	9.85	0.35	0.38
100.00	0.88	92.54	8.34	0.35	0.38
100.00	0.00	88.40	11.60	0.37	0.42
			386	199	

Research - Consumption

Providers and their products

```
dfpp = df.groupby(["provider","product"]).count()["zip_code"]
  provider
                                product
  Fuxx-Die Sparenergie GmbH
                                Grund-Fuxx optimal
                                                              13
                                Spar-Fuxx optimal 123
                                                              16
Octopus Energy Germany GmbH
                                OctopusOptimus 12 Strom
                                                               16
                                OctopusOptimus Strom
                                                               10
                                OctopusSelect Strom
  Vattenfall Europe Sales GmbH Easy12 Strom
                                Natur12 Strom
  Yello Strom GmbH
                                Mein Yello Strom Basic
  eprimo GmbH
                                eprimoStrom PrimaKlima
                                                              13
                                eprimoStrom PrimaKlima Pur
```

Consumption level per provider and products

provider_consumption = df.groupby("provider").agg({"consumption_level_kwh":['mean', 'min', 'max']})
provider_consumption

consu	mption_lev	el_kwh
min	mean	max
4000	4000.00	4000
2000	2000.00	2000
3000	3000.00	3000
3000	3000.00	3000
2000	2000.00	2000
	min 4000 2000 3000 3000	4000 4000.00 2000 2000.00 3000 3000.00 3000 3000.00

	consumption_leve		el_kwn	
	min	mean	max	
product				
Grund-Fuxx optimal	4000	4000.00	4000	
Spar-Fuxx optimal 123	4000	4000.00	4000	
OctopusOptimus 12 Strom	2000	2000.00	2000	
OctopusOptimus Strom	2000	2000.00	2000	
Octopus Select Strom	2000	2000.00	2000	
Easy12 Strom	3000	3000.00	3000	
Natur12 Strom	3000	3000.00	3000	
Mein Yello Strom Basic	3000	3000.00	3000	
eprimoStrom PrimaKlima	2000	2000.00	2000	
eprimo Strom Prima Klima Pur	2000	2000.00	2000	
	Grund-Fuxx optimal Spar-Fuxx optimal 123 OctopusOptimus 12 Strom OctopusOptimus Strom OctopusSelect Strom Easy12 Strom Natur12 Strom Mein Yello Strom Basic eprimoStrom PrimaKlima	Product Grund-Fuxx optimal 4000 Spar-Fuxx optimal 123 4000 OctopusOptimus 12 Strom 2000 OctopusOptimus Strom 2000 OctopusSelect Strom 2000 Easy12 Strom 3000 Natur12 Strom 3000 Mein Yello Strom Basic 3000 eprimoStrom PrimaKlima 2000	Product Grund-Fuxx optimal 4000 4000.00 Spar-Fuxx optimal 123 4000 4000.00 OctopusOptimus 12 Strom 2000 2000.00 OctopusOptimus Strom 2000 2000.00 OctopusSelect Strom 2000 2000.00 Easy12 Strom 3000 3000.00 Natur12 Strom 3000 3000.00 Mein Yello Strom Basic 3000 3000.00 eprimoStrom PrimaKlima 2000 2000.00	

consumption level kwh

Research – Prices - Products

Standing charge

		standin	g_charg	e_year
		min	mean	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	133.49	133.49	133.49
	Spar-Fuxx optimal 123	133.49	133.49	133.49
octopus Energy Germany GmbH	OctopusOptimus 12 Strom	98.09	98.09	98.09
	OctopusOptimus Strom	98.09	98.09	98.09
	Octopus Select Strom	98.09	98.09	98.09
Vattenfall Europe Sales GmbH	Easy12 Strom	94.80	94.80	94.80
	Natur12 Strom	112.80	112.80	112.80
Yello Strom GmbH	Mein Yello Strom Basic	153.80	153.80	153.80
eprimo GmbH	eprimoStrom PrimaKlima	82.65	82.65	82.65
	eprimo Strom Prima Klima Pur	80.27	80.27	80.27

Sign-up bonus

max
200.00
200.00
309.00
384.00
0.00
0.00
0.00
10.00
30.00
42.02
192.00
132.00
00 00 00 00 00 00 00 00 00 00 00 00 00

Consumption price (per kwh)

			umption	_price
		min	mean	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	0.36	0.37	0.39
	Spar-Fuxx optimal 123	0.37	0.39	0.42
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	0.36	0.36	0.37
	OctopusOptimus Strom	0.36	0.36	0.36
	Octopus Select Strom	0.38	0.38	0.38
Vattenfall Europe Sales GmbH	Easy12 Strom	0.34	0.35	0.38
	Natur12 Strom	0.34	0.34	0.35
Yello Strom GmbH	Mein Yello Strom Basic	0.35	0.35	0.35
eprimo GmbH	eprimoStrom PrimaKlima	0.40	0.41	0.43
	eprimo Strom Prima Klima Pur	0.39	0.39	0.39

Consumption cost

		consum	otion_cos	t_year
		min	mean	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	1442.80	1490.86	1544.00
	Spar-Fuxx optimal 123	1467.20	1543.45	1667.20
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	715.67	727.72	747.80
*	OctopusOptimus Strom	728.04	728.04	728.04
	Octopus Select Strom	764.22	764.22	764.22
Vattenfall Europe Sales GmbH	Easy12 Strom	1022.10	1037.10	1052.10
	Natur12 Strom	1022.10	1033.35	1052.10
Yello Strom GmbH	Mein Yello Strom Basic	1051.20	1051.20	1051.20
eprimo GmbH	eprimo Strom Prima Klima	799.00	823.55	852.20
	eprimo Strom Prima Klima Pur	787.40	787.40	787.40

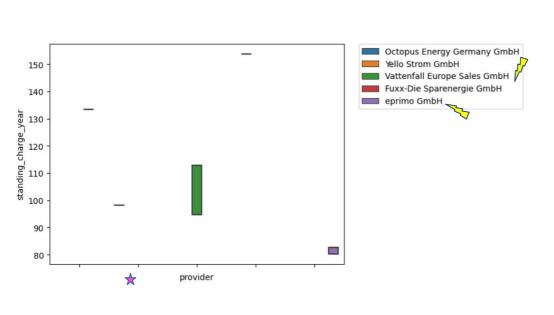
Aggregated price (per kwh)

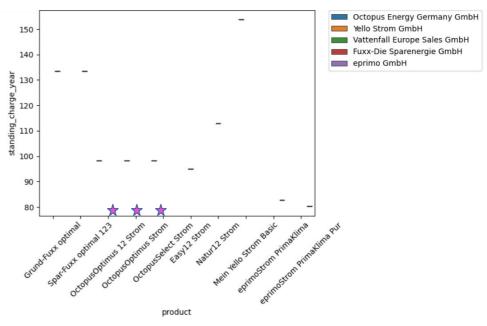
		aggr_per_kwh		/h
		min	mean	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	0.32	0.33	0.34
	Spar-Fuxx optimal 123	0.31	0.33	0.35
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	0.41	0.41	0.42
	OctopusOptimus Strom	0.41	0.41	0.41
	Octopus Select Strom	0.43	0.43	0.43
Vattenfall Europe Sales GmbH	Easy12 Strom	0.37	0.37	0.38
	Natur12 Strom	0.37	0.37	0.38
Yello Strom GmbH	Mein Yello Strom Basic	0.39	0.39	0.39
eprimo GmbH	eprimoStrom PrimaKlima	0.35	0.36	0.38
	eprimo Strom Prima Klima Pur	0.37	0.37	0.37

Aggregated cost

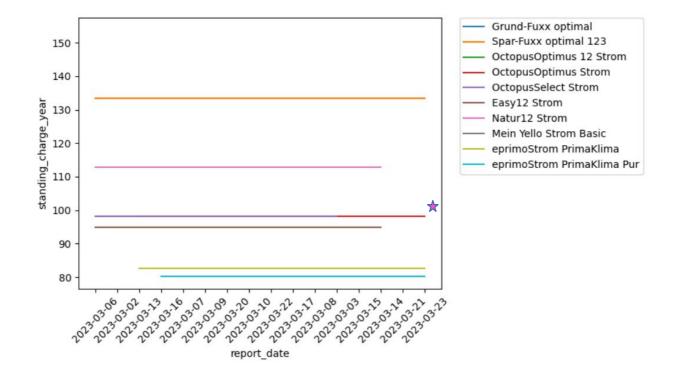
		agg_cos	t_year	
		min	mean	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	1287.29	1325.66	1368.49
	Spar-Fuxx optimal 123	1256.69	1317.75	1416.69
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	813.76	825.81	845.89
	OctopusOptimus Strom	826.13	826.13	826.13
	Octopus Select Strom	862.31	862.31	862.31
Vattenfall Europe Sales GmbH	Easy12 Strom	1106.90	1121.90	1136.90
	Natur12 Strom	1104.90	1119.90	1144.90
Yello Strom GmbH	Mein Yello Strom Basic	1162.98	1162.98	1162.98
eprimo GmbH	eprimo Strom Prima Klima	697.65	723.59	750.85
	eprimo Strom Prima Klima Pur	735.67	735.67	735.67

Research – Standing Charge

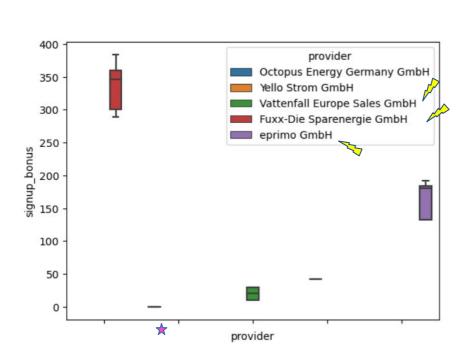


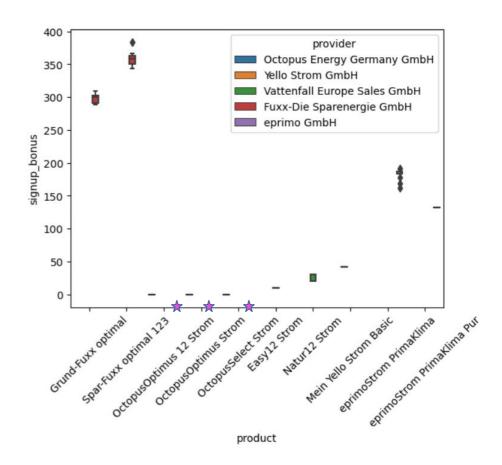


Research – Standing Charge Fluctuations

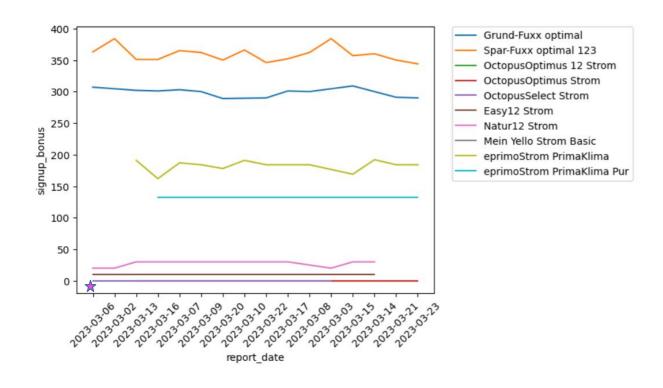


Research – Sign-up Bonus





Research – Sign-up Bonus Fluctuations



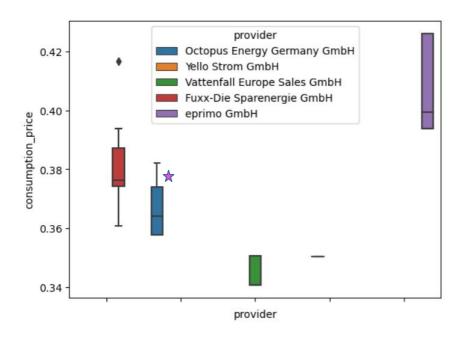
Changes in sign-up bonus over time:

- "Grund-Fuxx optimal"
- "Spar-Fuxx optimal 123"
- "Natur12 Strom"
- "eprimoStrom PrimaKlima"

No changes in sign-up bonus over time:

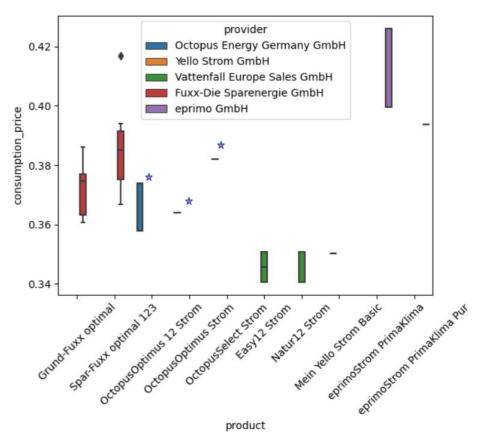
- "Easy12 Strom"
- "Mein Yello Strom Basic"
- "eprimoStrom PrimaKlima"

Research – Consumption Price



Fuxx consumption price outliers Before 4th March – higher bonus



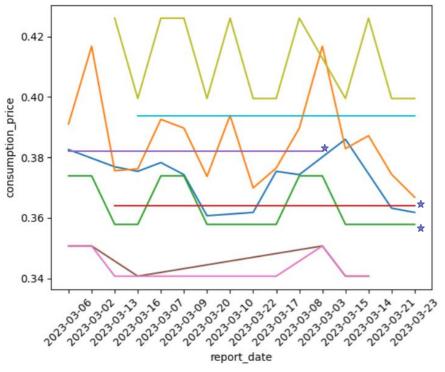


Additional

manipulations

Research – Consumption Price Fluctuations

Initial exploration



Grund-Fuxx optimal Spar-Fuxx optimal 123 OctopusOptimus 12 Strom OctopusOptimus Strom OctopusSelect Strom Easy12 Strom Natur12 Strom Mein Yello Strom Basic eprimoStrom PrimaKlima eprimoStrom PrimaKlima Pur

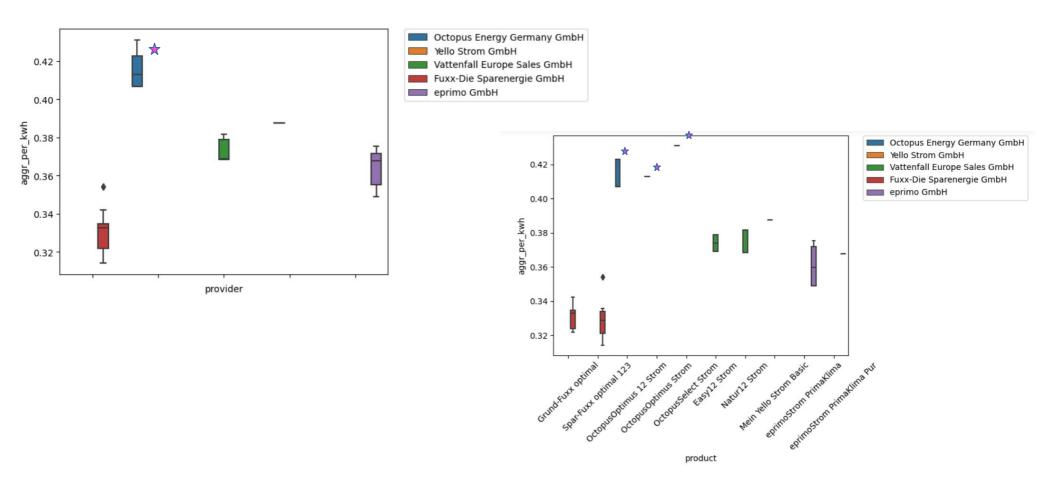
Changes in consumption price over time:

- "Grund-Fuxx optimal"
- "Spar-Fuxx optimal 123"
- "OctopusOptimus 12 Strom"
- "Easy12 Strom"
- "Natur12 Strom"
- "Mein Yello Strom Basic"
- "eprimoStrom PrimaKlima Pur"

No changes in consumption price over time:

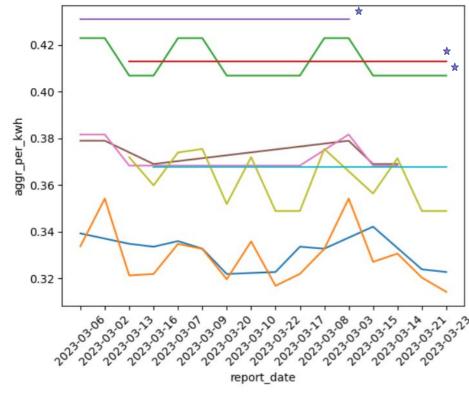
- "OctopusOptimus Strom"
- "OctopusSelect Strom"
- "eprimoStrom PrimaKlima Pur"

Research – Aggregate Price



Research – Aggregate Price Fluctuations

Initial exploration





Changes in aggregate price over time:

- "Grund-Fuxx optimal"
- "Spar-Fuxx optimal 123"
- "OctopusOptimus 12 Strom"
- "Easy12 Strom"
- "Natur12 Strom"
- "Mein Yello Strom Basic"
- "eprimoStrom PrimaKlima Pur"

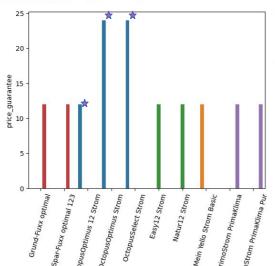
No changes in aggregate price over time:

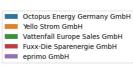
- "OctopusOptimus Strom"
- "OctopusSelect Strom"
- "eprimoStrom PrimaKlima Pur"

Research – Extra variables

Price guarantee

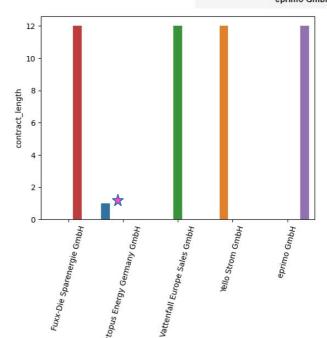
IIIax	mean	min		
			product	provider
12	12.00	12	Grund-Fuxx optimal	Fuxx-Die Sparenergie GmbH
12	12.00	12	Spar-Fuxx optimal 123	
12	12.00	12	OctopusOptimus 12 Strom	Octopus Energy Germany GmbH
24	24.00	24	OctopusOptimus Strom	
24	24.00	24	Octopus Select Strom	
12	12.00	12	Easy12 Strom	Vattenfall Europe Sales GmbH
12	12.00	12	Natur12 Strom	
12	12.00	12	Mein Yello Strom Basic	Yello Strom GmbH
12	12.00	12	eprimoStrom PrimaKlima	eprimo GmbH
12	12.00	12	eprimo Strom Prima Klima Pur	





Contract length contract_length

	min	mean	max
provider			
Fuxx-Die Sparenergie GmbH	12	12.00	12
Octopus Energy Germany GmbH	1	1.00	1
Vattenfall Europe Sales GmbH	12	12.00	12
Yello Strom GmbH	12	12.00	12
eprimo GmbH	12	12 00	12



Research – Correlations

Contract length

	agg_cost_year	standing_charge_year	consumption_cost_year	signup_bonus	price_guarantee	contract_length
agg_cost_year	1.00	0.93	★ 0.95	★ 0.66	★ -0.30	0.50
standing_charge_year	0.93	1.00	0.88	★ 0.63	★ -0.20	0.31
consumption_cost_year	0.95	0.88	★ 1.00	0.86	★ -0.39	0.63 *
signup_bonus	0.66	0.63	★ 0.86 ³	1.00	-0.43	0.68
price_guarantee	-0.30	-0.20	-0.39	-0.43	1.00	-0.63 *
contract_length	0.50	0.31	0.63	0.68	★ -0.63	★ 1.00

Case Overview Libraries Initial exploration Additional manipulations Research Striking facts Portfolios Summary

Research – Pricing percentages

Standing charge

Consumption cost

prov_prod_st_ratio = df.groupby(["provider","product"]).agg({"standing_charge_percent":['mean', 'min', 'max']})
prov prod st ratio

		standing_charge_		percent	
		min	mean	max	
provider	product				
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	9.75	10.07	10.37	
	Spar-Fuxx optimal 123	9.42	10.14	10.62	
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	11.60	11.88	12.05	
	OctopusOptimus Strom	11.87	11.87	11.87	
	Octopus Select Strom	11.38	11.38	11.38	
Vattenfall Europe Sales GmbH	Easy12 Strom	8.34	8.45	8.56	
	Natur12 Strom	9.85	10.08	10.21	
Yello Strom GmbH	Mein Yello Strom Basic	13.22	13.22	13.22	
eprimo GmbH	eprimoStrom PrimaKlima	11.01	11.43	11.85	
	eprimo Strom Prima Klima Pur	10.91	10.91	10.91	

Sign-up bonus			bonus	_percei	nt
olgii-up borius			min	mean	max
provider		product			
Fuxx-Die Sparenergie GmbH		Grund-Fuxx optimal	22.45	22.53	22.63
		Spar-Fuxx optimal 123	27.11	27.26	27.38
Octopus Energy Germany GmbH	0	ctopusOptimus 12 Strom	0.00	0.00	0.00
	*	OctopusOptimus Strom	0.00	0.00	0.00
		Octopus Select Strom	0.00	0.00	0.00
Vattenfall Europe Sales GmbH		Easy12 Strom	0.88	0.89	0.90
		Natur12 Strom	1.75	2.35	2.72
Yello Strom GmbH		Mein Yello Strom Basic	3.61	3.61	3.61
eprimo GmbH		eprimo Strom Prima Klima	22.51	25.25	26.37
	epri	moStrom PrimaKlima Pur	17.94	17.94	17.94

consu	mption_co	st_percer
min	mean	max

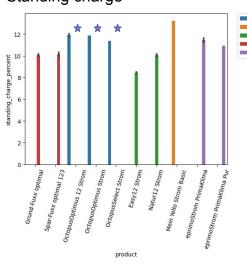
provider product Fuxx-Die Sparenergie GmbH Grund-Fuxx optimal 112.08 112.46 112.83 Spar-Fuxx optimal 123 117.12 117.68 Octopus Energy Germany GmbH OctopusOptimus 12 Strom 88.12 88.40 OctopusOptimus Strom 88.13 88.13 Octopus Select Strom 88.62 88.62 Vattenfall Europe Sales GmbH Easy12 Strom 92.54 Natur12 Strom 92.28 92.51 Yello Strom GmbH 90.39 Mein Yello Strom Basic 113.82 114.72 eprimo GmbH eprimo Strom Prima Klima Pur 107.03 107.03

prov_prod_bonus_ratio = df.groupby(["provider","product"]).agg({"bonus_percent":['mean', 'min', 'max']})
prov prod bonus ratio

prov_prod_cons_cost_ratio = df.groupby(["provider","product"]).agg({"consumption_cost_percent":['mean', 'min', 'max']})
prov prod cons cost ratio

Research – Pricing percentages

Standing charge



Octopus Energy Germany GmbH

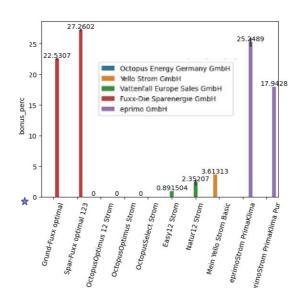
Vello Strom GmbH

Vattenfall Europe Sales GmbH

Fuxx-Die Sparenergie GmbH

eprimo GmbH

Sign-up bonus



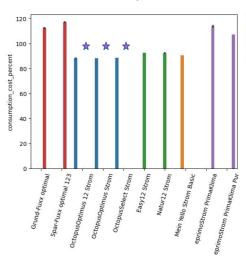
Consumption cost

Octopus Energy Germany GmbH

Fuxx-Die Sparenergie GmbH

Yello Strom GmbH
Vattenfall Europe Sales GmbH

eprimo GmbH



Case Overview Libraries Initial exploration Additional manipulations Research Striking facts Portfolios Summary

Striking facts

General level

- Fixed consumption levels by all providers
 - (no variability among tariffs)

		consump	tion_lev	el_kwh
		mean	min	max
	provider			
34	Fuxx-Die Sparenergie GmbH	4000.0	4000	4000
*	Octopus Energy Germany GmbH	2000.0	2000	2000
	Vattenfall Europe Sales GmbH	3000.0	3000	3000
	Yello Strom GmbH	3000.0	3000	3000
	eprimo GmbH	2000.0	2000	2000

		signup_bon	us	
		mean	min	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	298.692308	289.00	309.00
	Spar-Fuxx optimal 123	359.187500		
pus Energy Germany GmbH	OctopusOptimus 12 Strom	0.000000	0.00	0.00
	OctopusOptimus Strom	0.000000	0.00	0.00
	Octopus Select Strom	0.000000	0.00	0.00
attenfall Europe Sales GmbH	Easy12 Strom	10.000000	10.00	10.00
	Natur12 Strom	26.250000	20.00	30.00
Yello Strom GmbH	Mein Yello Strom Basic	42.020000	42.02	42.02
eprimo GmbH	eprimo Strom Prima Klima	182.615385	162.00	192.00
	eprimo Strom PrimaKlima Pur	132 000000	132 00	132 00

OE level

- No sign-up bonus
 - Same strategy X
- Min. contract length 1 month
 - Same strategy X
- 2 tariffs with 24 months price guarantee
 - Same strategy X
- Fixed standing charges among tariffs
 - Same strategy Fuxx, Yello (?)

Contra	Ct_lell	yuı	
mean	min	max	

provider			
Fuxx-Die Sparenergie GmbH	12.0	12	12
Cotopus Energy Germany GmbH	1.0	1	1
Vattenfall Europe Sales GmbH	12.0	12	12
Yello Strom GmbH	12.0	12	12
eprimo GmbH	12.0	12	12

price_guarantee

provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	12.0	12	12
	Spar-Fuxx optimal 123	12.0	12	12
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	12.0	12	12
*	OctopusOptimus Strom	24.0	24	24
	Octopus Select Strom	24.0	24	24
Vattenfall Europe Sales GmbH	Easy12 Strom	12.0	12	12
	Natur12 Strom	12.0	12	12
Yello Strom GmbH	Mein Yello Strom Basic	12.0	12	12
eprimo GmbH	eprimo Strom Prima Klima	12.0	12	12
	eprimo Strom Prima Klima Pur	12.0	12	12

Eprimo GmbH

Case Overview

		consump		
		mean	min	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	0.372715	0.360700	0.38600
	Spar-Fuxx optimal 123	0.385862	0.366800	0.41680
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	0.363859	0.357835	0.37390
	OctopusOptimus Strom	0.364020	0.364020	0.36402
	Octopus Select Strom	0.382110	0.382110	0.38211
Vattenfall Europe Sales GmbH	Easy12 Strom	0.345700	0.340700	0.35070
	Natur12 Strom	0.344450	0.340700	0.35070
Yello Strom GmbH	Mein Yello Strom Basic	0.350400	0.350400	0.35040
eprimo GmbH	eprimoStrom PrimaKlima	0.411777	0.399500	0.42610
	eprimo Strom Prima Klima Pur	0.393700	0.393700	0.39370

| Provider | Product | Pr

- The only provider with 2000 kwh consumption level
 - Others operate on higher consumption levels

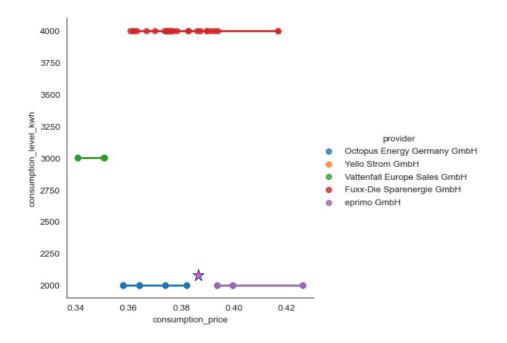
OE vs. eprimo

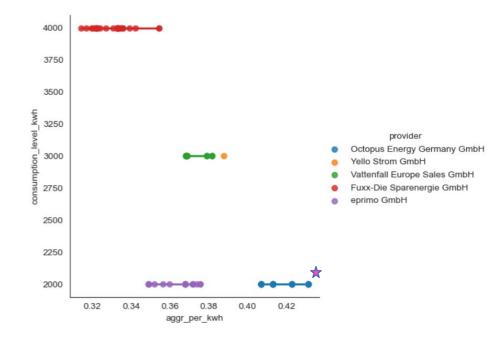
No direct comparison with other providers possible as consumption levels differ drastically

- OE
 - Lower consumption price
- Eprimo
 - Higher standing charge
 - Sign-up bonus
 - Lower aggregated costs

		signup_bon	us	
		mean	min	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	298.692308	289.00	309.00
	Spar-Fuxx optimal 123	359.187500	344.00	384.00
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	0.000000	0.00	0.00
	OctopusOptimus Strom	0.000000	0.00	0.00
	Octopus Select Strom	0.000000	min 289.00 344.00 0.00	0.00
Vattenfall Europe Sales GmbH	Easy12 Strom	10.000000	10.00	10.00
	Natur12 Strom	26.250000	20.00	30.00
Yello Strom GmbH	Mein Yello Strom Basic	42.020000	42.02	42.02
eprimo GmbH	eprimoStrom PrimaKlima	182.615385	162.00	192.00
	eprimo Strom Prima Klima Pur	132.000000	132.00	132.00

		aggr_per_kwn		
		mean	min	max
provider	product			
Fuxx-Die Sparenergie GmbH	Grund-Fuxx optimal	0.331415	0.321823	0.342122
	Spar-Fuxx optimal 123	0.329438	0.314173	0.354173
Octopus Energy Germany GmbH	OctopusOptimus 12 Strom	0.412904	0.406880	0.422945
	OctopusOptimus Strom	0.413065	0.413065	0.413065
	Octopus Select Strom	0.431155	0.431155	0.431155
Vattenfall Europe Sales GmbH	Easy12 Strom	0.373967	0.368967	0.378967
	Natur12 Strom	0.373300	0.368300	0.381633
Yello Strom GmbH	Mein Yello Strom Basic	0.387660	0.387660	0.387660
eprimo GmbH	eprimoStrom PrimaKlima	0.361794	0.348825	0.375425
	eprimoStrom PrimaKlima Pur	0.367835	0.367835	0.367835





Task: Analyse OE competitiveness vs. market participants' pricing strategies

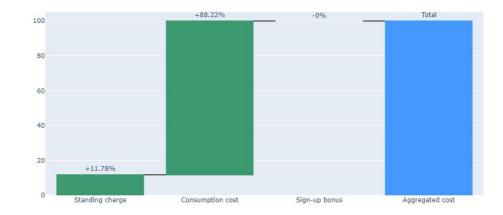
Comparison of OE prices to all competitors

Octopus Energy

Case Overview

- Lowest operating consumption level (2000 kwh)
- 3 tariff lines
- Medium consumption price
- 2nd lowest standing charge
- 0 sign-up bonus

Highest aggregated price



- Consumption price variations among and within tariffs
- 2 tariffs with no changes in aggregate price (price guarantee)

Generalisation of pricing strategies in competitors' tariffs

Fuxx

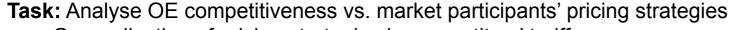
Case Overview

- Highest operating consumption level (4000 kwh)
 - → (highest consumption and aggregated costs irrelevant)
- 2 tariff lines
- 2nd highest consumption price
- 2nd highest standing charge
- Highest sign-up bonus

Lowest aggregated price

- Bonus variations among and within tariffs
- Consumption price variations among and within tariffs





Generalisation of pricing strategies in competitors' tariffs

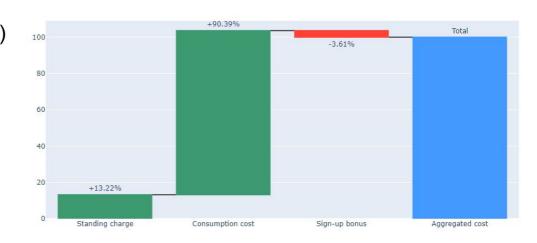
Yello

Case Overview

- Medium operating consumption level (3000 kwh)
- 1 tariff line
- 2nd lowest consumption price
- Highest standing charge
- Medium sign-up bonus



No extraction of additional information possible

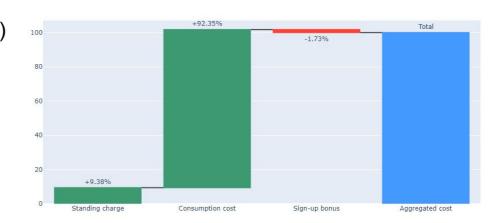


Generalisation of pricing strategies in competitors' tariffs

Vattenfall

Case Overview

- Medium operating consumption level (3000 kwh)
- 2 tariff lines
- Lowest consumption price
- Medium standing charge
- 2nd lowest sign-up bonus



Medium aggregated price

- Standing charge variations among tariffs
- Bonus variations among and within tariffs
- Consumption price variations among and within tariffs

Task: Analyse OE competitiveness vs. market participants' pricing strategies

Generalisation of pricing strategies in competitors' tariffs

eprimo

Case Overview

- Low operating consumption level (2000 kwh)
- 2 tariff lines
- Highest consumption price
- Lowest standing charge
- 2nd highest bonus

2nd lowest aggregated price

- Standing charge variations among tariffs
- Bonus variations among and within tariffs
- Consumption price variations among and within tariffs
- 1 tariff with no changes in aggregate price



Task: Analyse OE competitiveness vs. market participants' pricing strategies

- Significant differences in competitors' tariffs structure?
 - Any associated risks/chances?

Risks

"Sudden" outflow of clients

Case Overview

- newer / cheaper alternative
- Riskier long-term planning

min. of 1 month contracts duration

Opportunities

- Effective customer attraction
 - flexibility
 - temporary solutions

Balance between "unexpected" fluctuations & unique offer attractive to clients

Risks

- Unpredicted price increase
 - tech, logistics, regulations

24 months price guarantee

Opportunities

- Most attractive offer on the market
- Price decrease
 - o tech, logistics, regulations
- More predictable long-term planning

R&D

Comparison with 12 months guarantees

Risks

Inaccurate calculation

Bonus

Opportunities

- Customer acquisition
- Flexibility in pricing
- Increased revenue in following periods

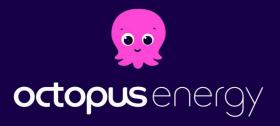
Analysis

OE level

- eprimo niche competitor
- USPs:
 - o 1 month min. contract length
 - o 24 months price guarantee
- Variability of consumption price

Ideas

- Higher consumption level entry
- Standing charge variability decrease
- Sign-up bonus (one-off)
- More pricing variability
 - structure
 - o time
- Importance of analytics and R&D



Thank you:)

