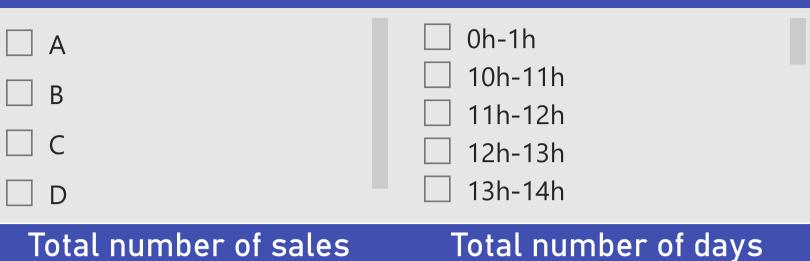


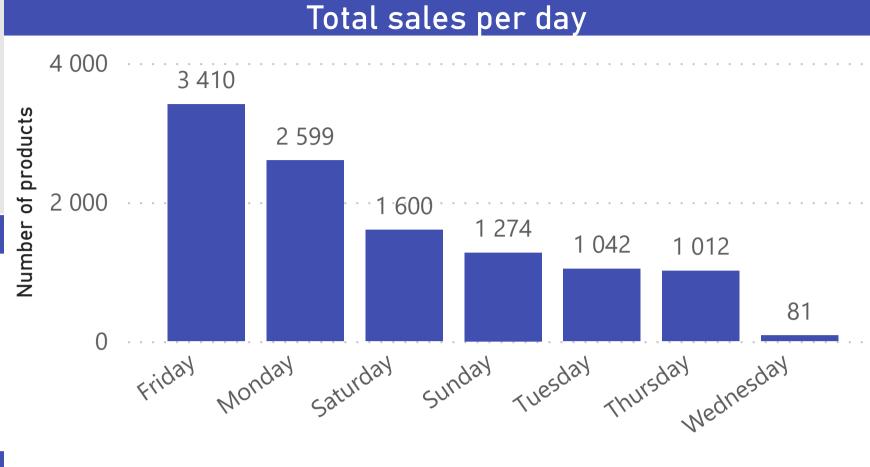
Beverage Dispensers - Report November & December 2019 (Sales)





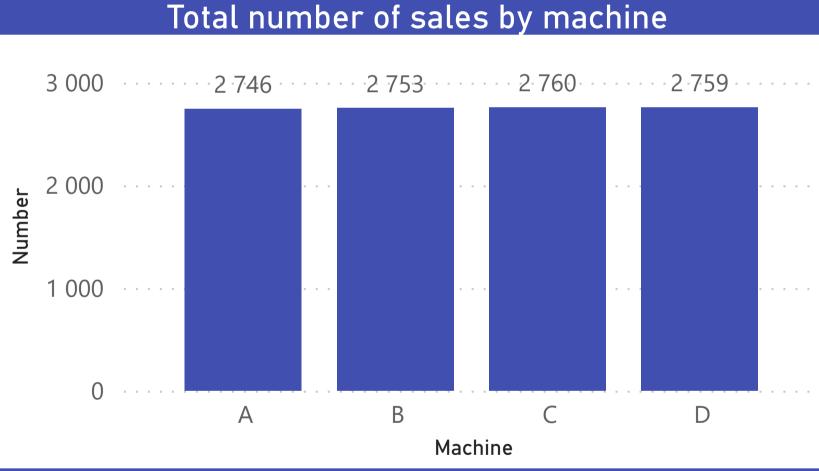
11 018

42

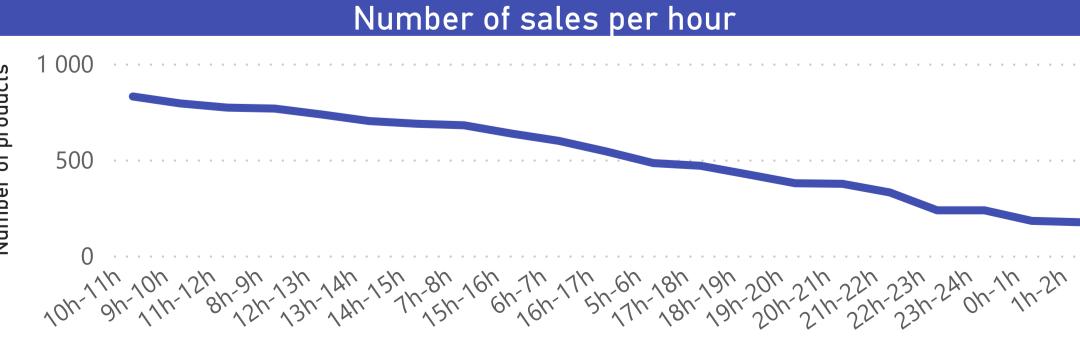


Notes

- Number of sales between 14/11 and 25/12/2019 = **11 018** products.
- Sales are evenly distributed among the machines but **coffee** is the most sold product in every machine.
- Day with the highest sales : **Friday**
- Day with the least sales : **Wednesday**
- Day of refill : **Thursday** (for every machine)
- Most of the beverages are bought in the **morning** but the nrj drinks are more sold in the **evening**.
- No sales between 2 and 5 am because the station is closed at these hours.

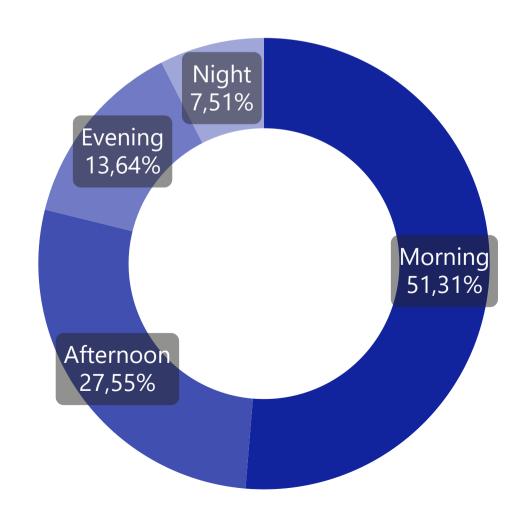


Day of refill							
product	day	num_day	month	year	hour	machine	/
refill	Thursday	14	11	2019	11:53:00	Α	
refill	Thursday	14	11	2019	12:47:00	В	
refill	Thursday	14	11	2019	13:51:00	C	
refill	Thursday	14	11	2019	14:54:00	D	
	refill refill	refill Thursday refill Thursday refill Thursday	productdaynum_dayrefillThursday14refillThursday14refillThursday14	product day num_day month refill Thursday 14 11 refill Thursday 14 11 refill Thursday 14 11	product day num_day month year refill Thursday 14 11 2019 refill Thursday 14 11 2019 refill Thursday 14 11 2019	product day num_day month year hour refill Thursday 14 11 2019 11:53:00 refill Thursday 14 11 2019 12:47:00 refill Thursday 14 11 2019 13:51:00	productdaynum_daymonthyearhourmachinerefillThursday1411201911:53:00ArefillThursday1411201912:47:00BrefillThursday1411201913:51:00C



Sale	es by p	roauci	is and	macni	ne
product	Α	В	С	D	Total ▼
coffee	1 680	1 680	1 680	1 680	6 720
soda	720	720	720	720	2 880
nrj	346	353	360	359	1 418
Total	2 746	2 753	2 760	2 759	11 018

Number of sales per period



Hour



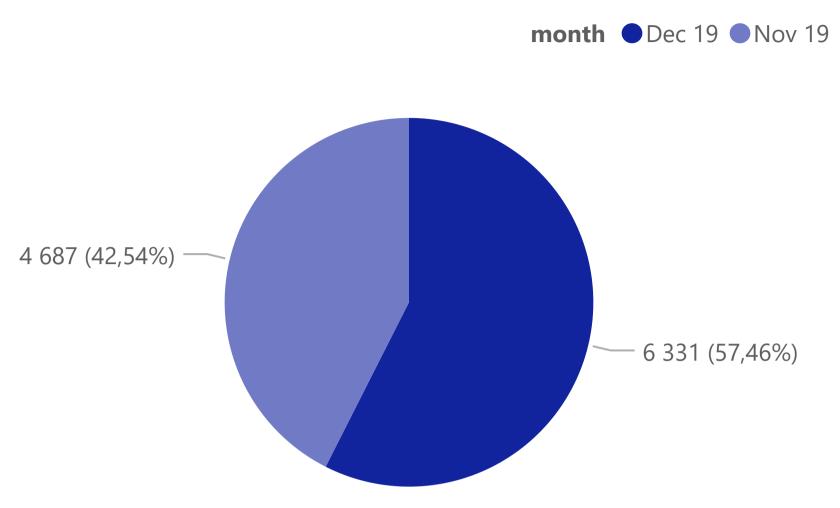
Beverage Dispensers - Report November & December 2019 (Month)

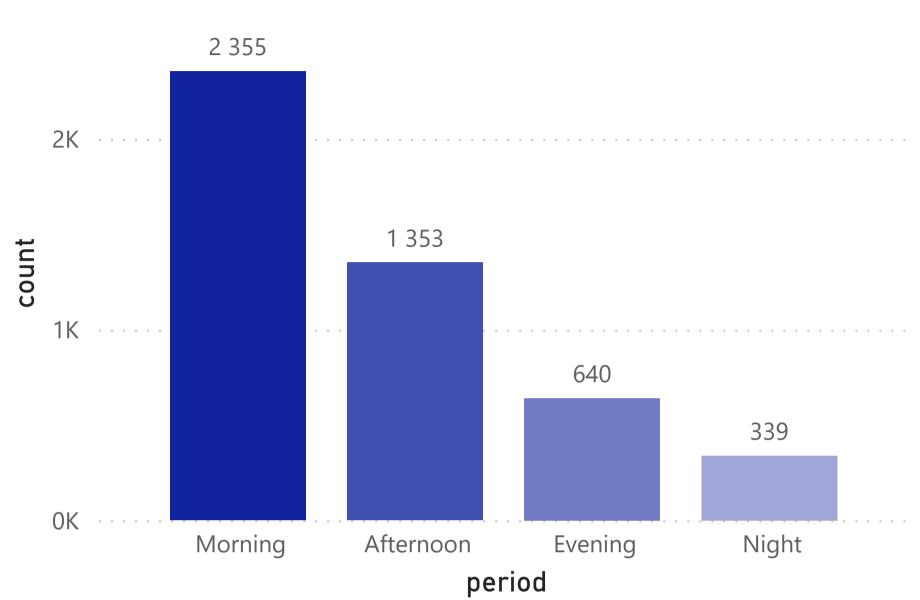






Notes



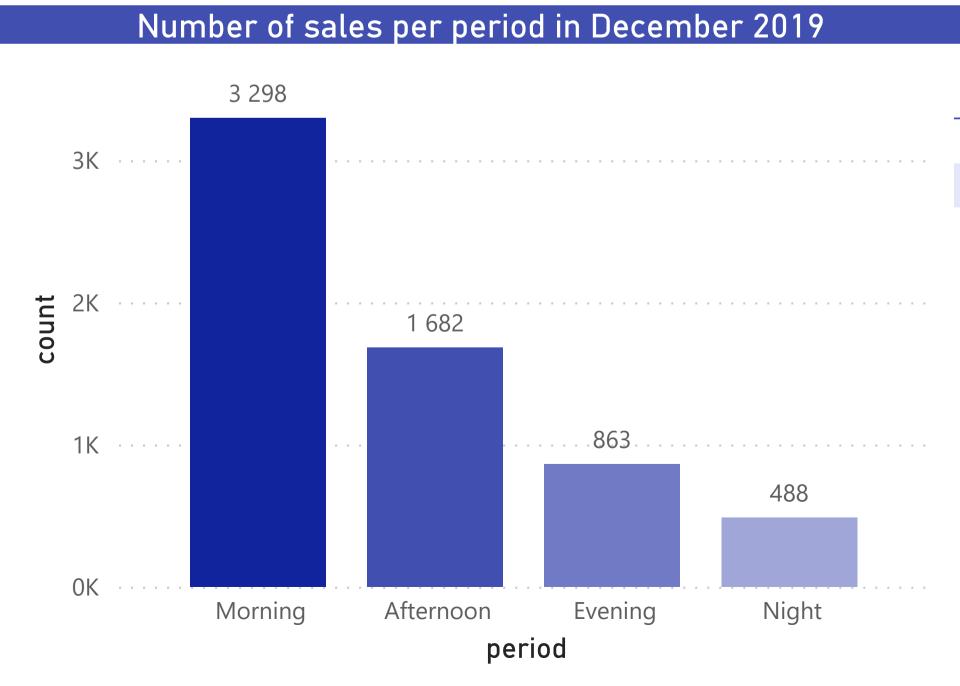


More sales in **December** in general.

<u>Warning</u>: there are more days covered by the dataset in December: 25 (only 17 days in November).

Most products are sold on morning for the two months.

		Sales	s per w	reek
Semaine ISO	coffee	nrj	soda	Total
+ W46	657	189	368	1 214
+ W47	1 111	231	506	1 848
+ W48	1 108	247	469	1 824
+ W49	1 144	233	476	1 853
+ W50	1 073	231	519	1 823
+ W51	1 111	248	439	1 798
+ W52	516	39	103	658
Total	6 720	1 418	2 880	11 018



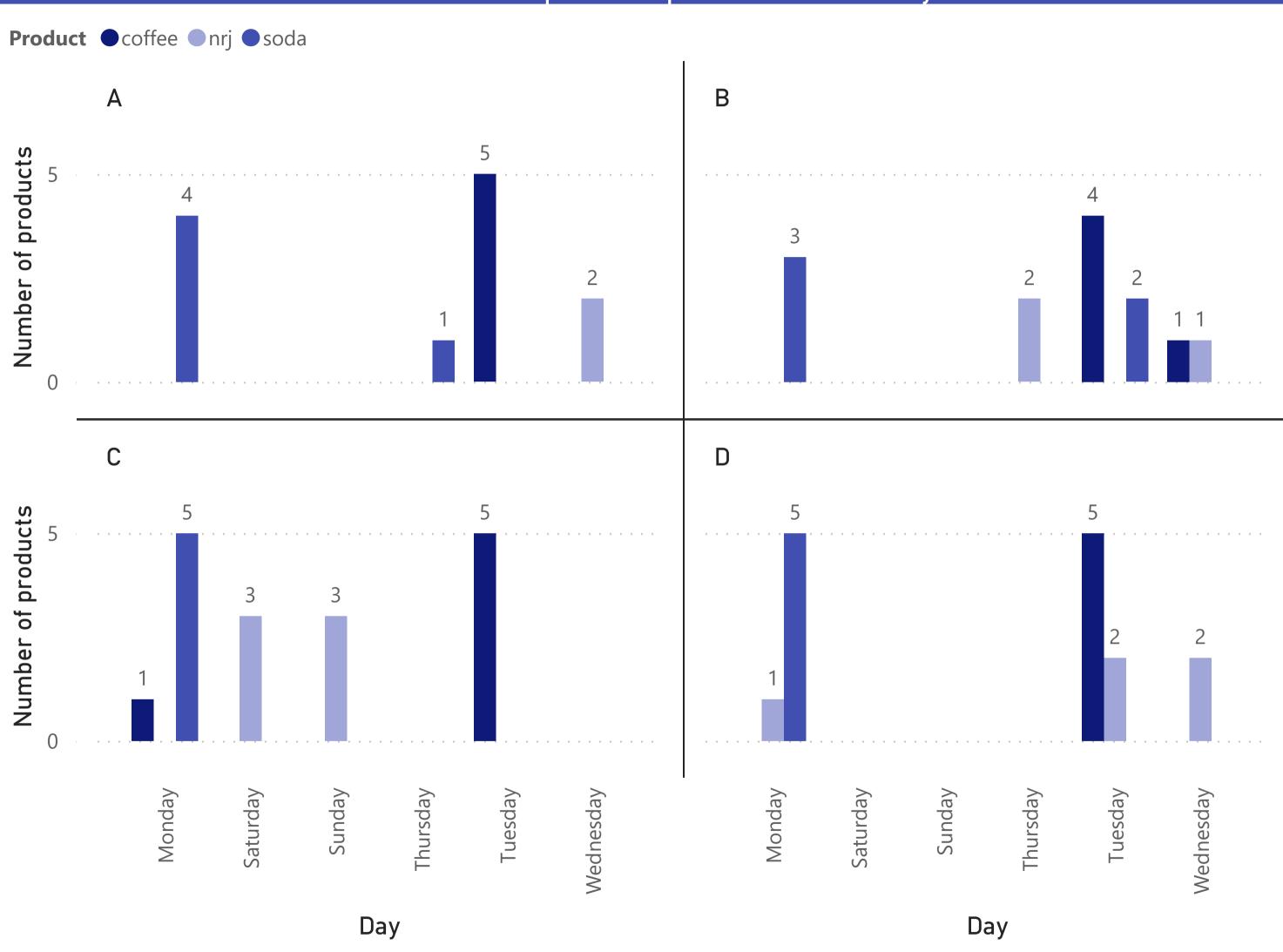
Sales by weekdays and weekends					
Weekday	coffee	nrj	soda	Total	
Week	5317	856	1971	8144	
Week-end	1403	562	909	2874	
Total	6720	1418	2880	11018	



Beverage Dispensers - Report November & December 2019 (Stockouts)







Notes

Day of refill: **Thursday** (see General sales page for more informations). No stockouts on **Friday**.

Many products are out of stock on **Tuesday**, especially coffees.

Sodas are out of stock on **Monday** on every machine!

Nrj drinks are well distributed because they are out of stocks on **Wednesday**, just before the refill.

Warning! On machine C, nrj drinks are out of stock on weekends!

To avoid the stockouts, maybe it would be necessary to a make second refill on **Monday**?

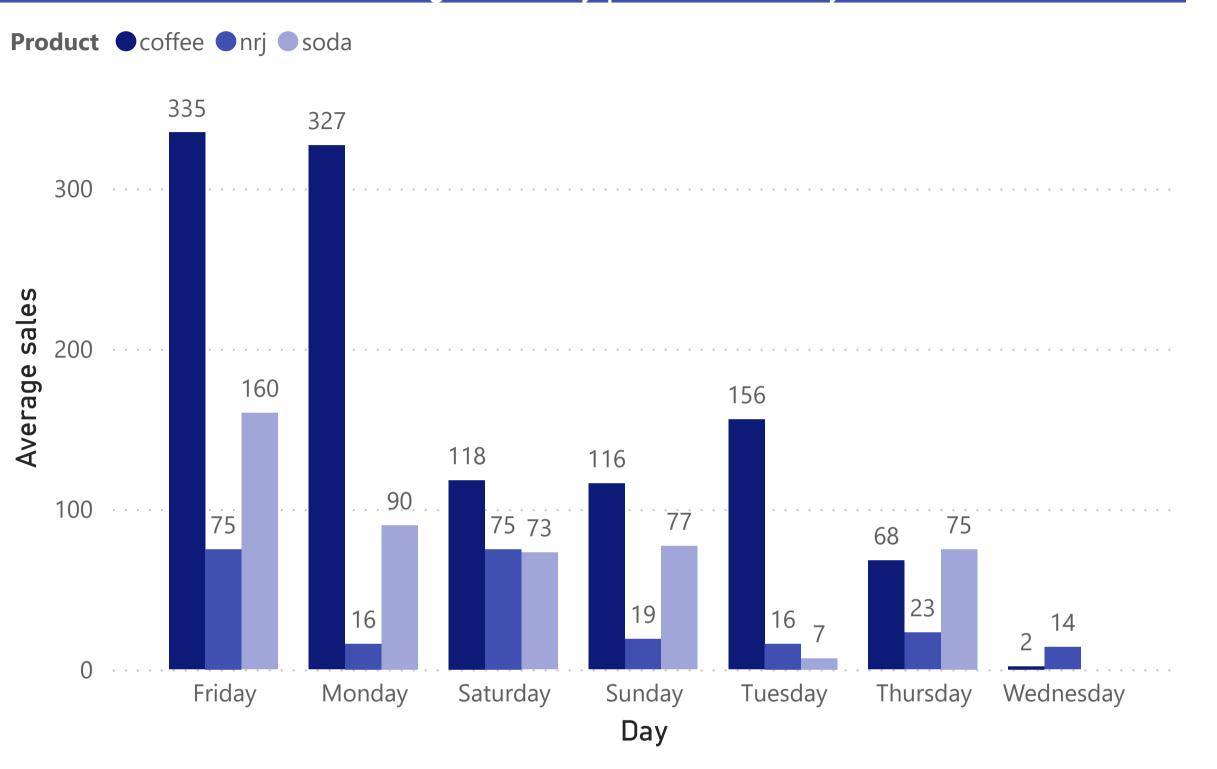
		Num	ber of st	ockouts	s per day	and ma	chine	
Prod	luct	Monday	Saturday	Sunday	Thursday	Tuesday	Wednesday	Total
⊟ со	ffee	1				19	1	21
A	4					5		5
Е	3					4	1	5
(C	1				5		6
)					5		5
⊟ nr	j	1	3	3	2	2	5	16
A	4						2	2
Е	3				2		1	3
(C		3	3				6
[)	1				2	2	5
☐ so	da	17			1	2		20
A	4	4			1			5
E	3	3				2		5
(5						5
[)	5						5
То	tal	19	3	3	3	23	6	57



Beverage Dispensers - Report November & December 2019 (Lost sales)



Average sales by product and day



Stockouts by product per day							
Product	Monday	Saturday	Sunday	Thursday	Tuesday	Wednesday	Tota _^
coffee	1				19	1	2
nrj	1	3	3	2	2	5	1
soda Total	17 19	3	3	1 3	2 23	6	2 5 ×

Total sa stockou	
Product	Sales
coffee	25
nrj	25
soda	22
Total	72

Notes

Sales for a day without stockouts are estimated by product -> sales average for days with stocks :

- Coffee = Friday, Saturday and Sunday (335 + 118 + 116) / 3 = 189,66 \$ (190 \$)
- Soda = Friday, Saturday and Sunday (160 + 73 + 77) / 3 = 103,33 \$ (104 \$)
- Nrj = Friday **(75 \$)**

Lost sales are estimated with typical sales and the number of days with stockouts. Sales made on the days with stockouts will be deducted from the total.

The calculation is made on every machine because the sales are similar.

A stockout on a Saturday leads to 6 days of break, on a Sunday 5 days, on a Monday 4, etc...

Coffee =
$$(1x4) + (19x3) + (1x2) = 63$$

Soda = $(17x4) + (2x3) + (1x1) = 74$
Nrj = $(3x6) + (3x5) + (1x4) + (2x3) + (5x2) + (2x1) = 55$

Possible sales made during these days:

Coffee : 63 x 190 = **11 970** Soda : 74 x 104 = **7 696** nrj : 55 x 75 = **4 125**

Estimated shortfall:

 $11\ 970\ x\ (1-0.3) + 7\ 696\ x\ (1.6-0.6) + 4\ 125\ x\ (1.8-0.8) =$ **20\ 200\ \\$.**

<u>Confirmation</u>: it's necessary to make a second refill of machines every **Monday**.