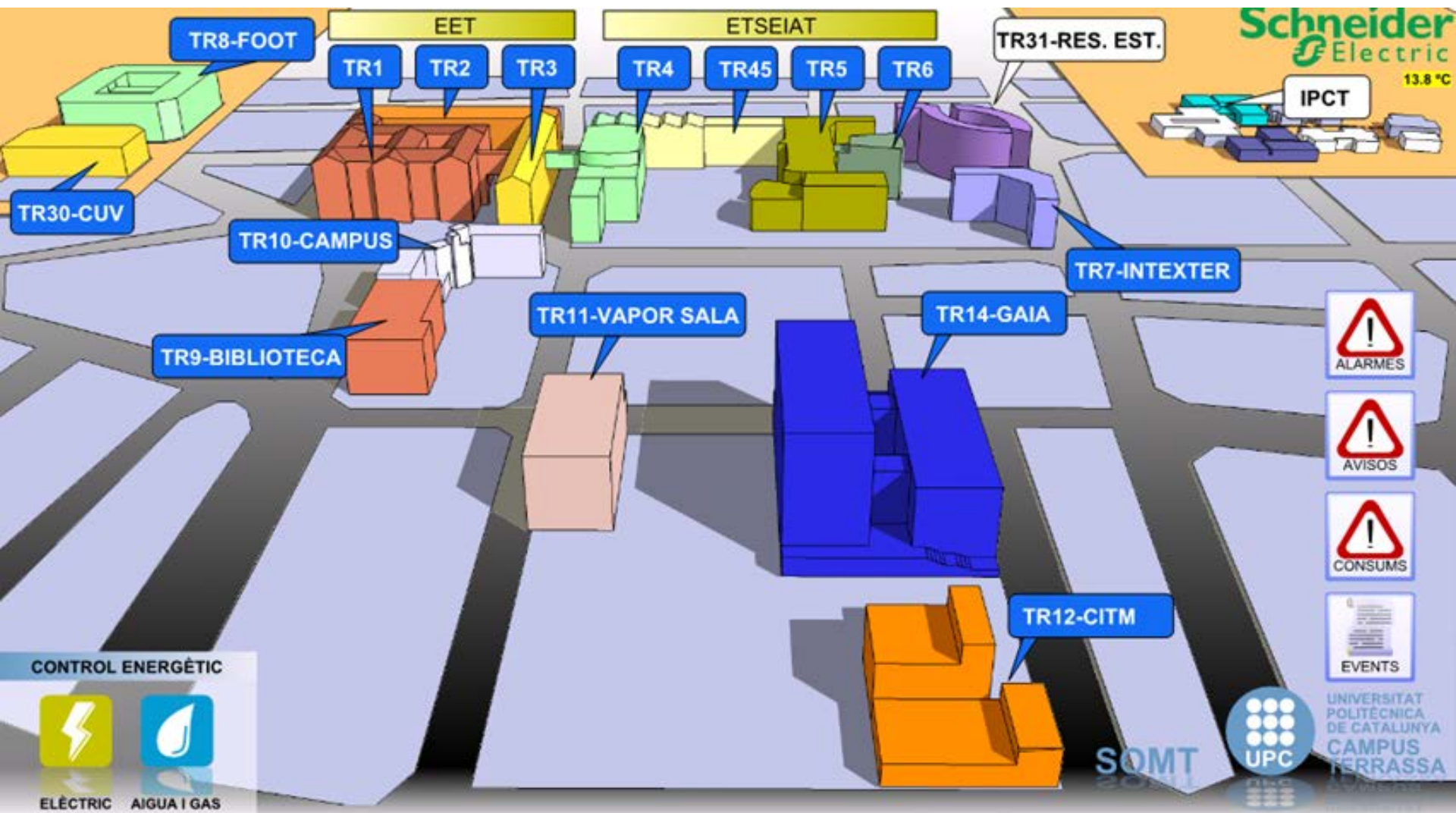


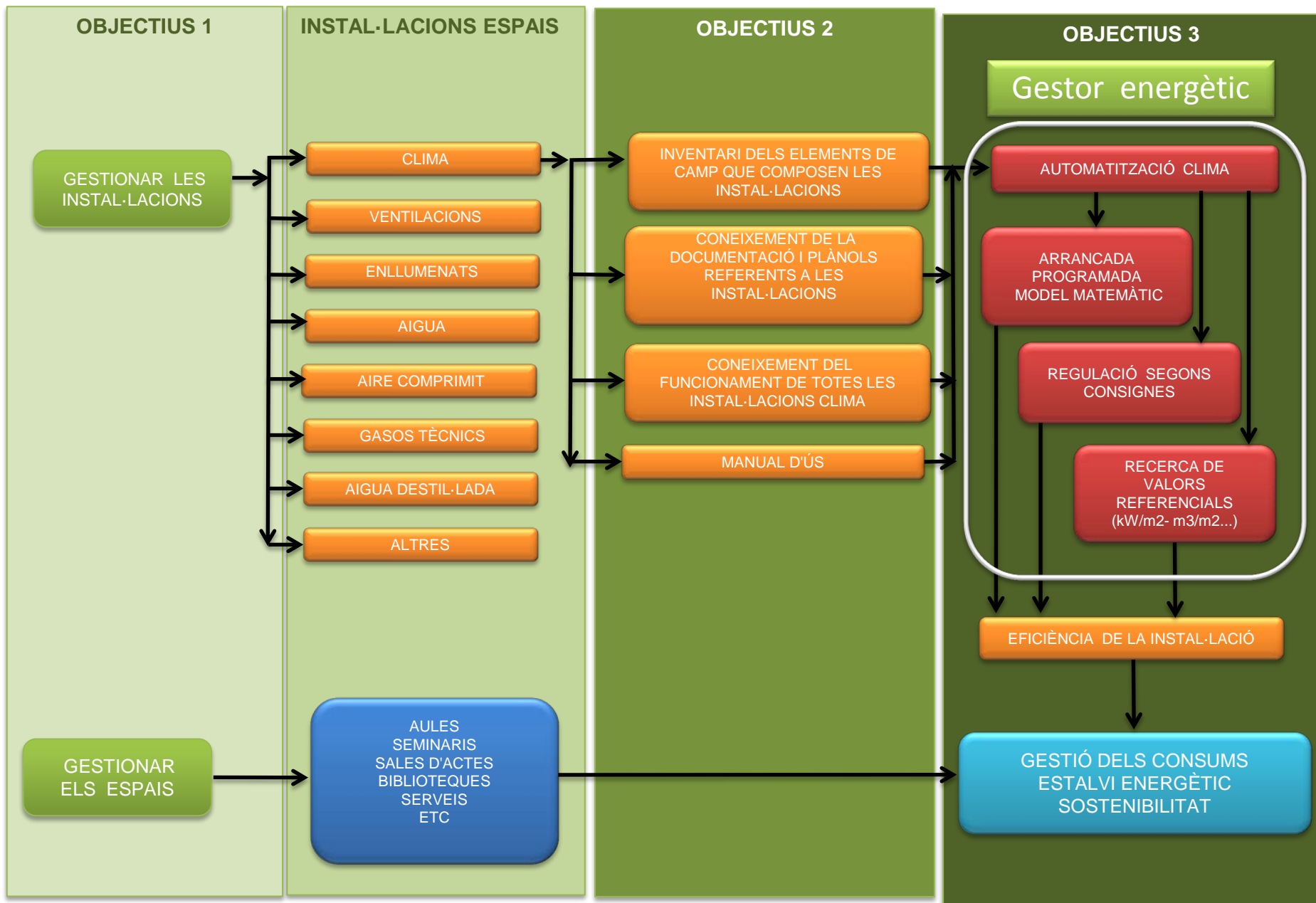
Gestió Energètica 2015

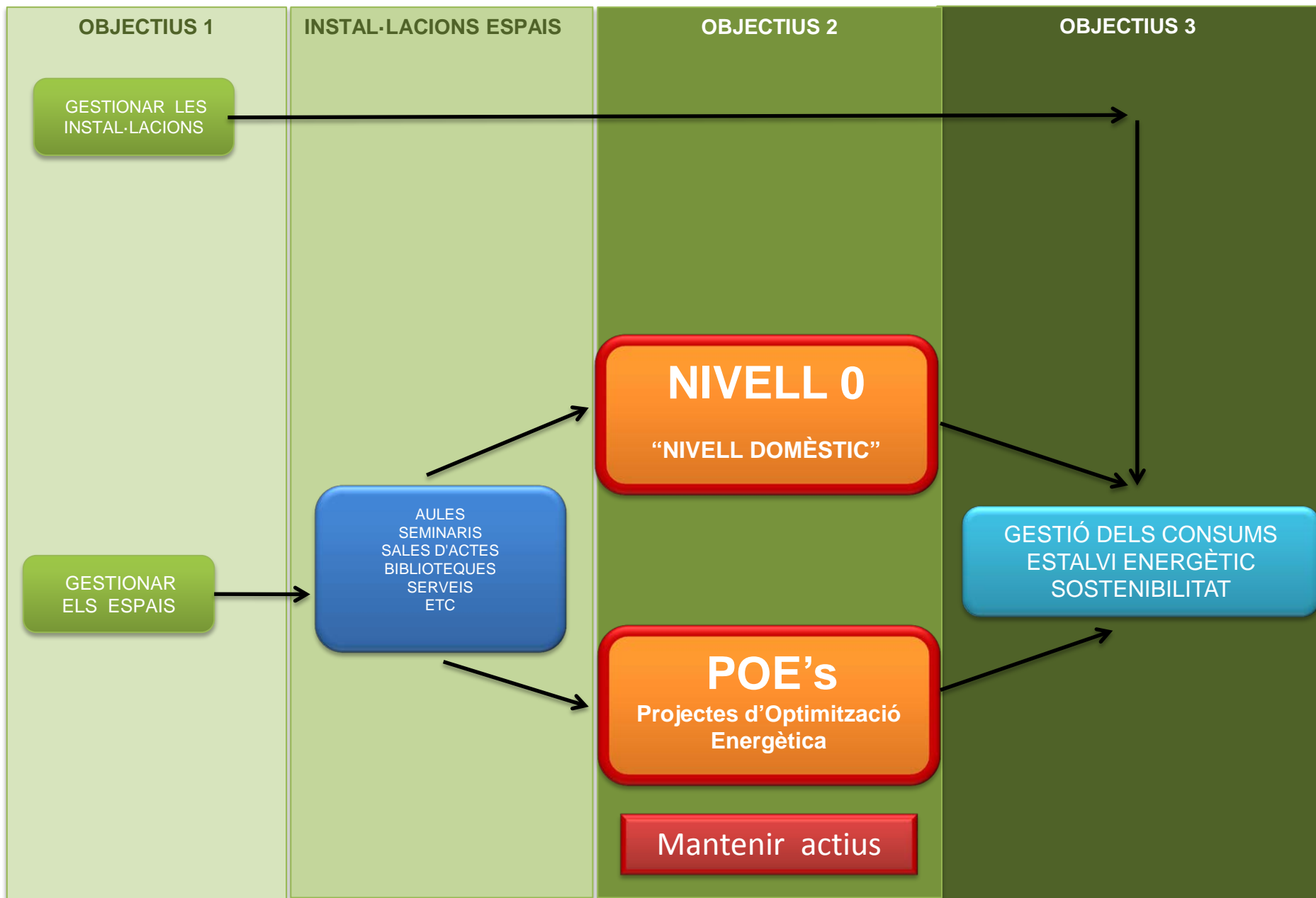
SERVEI D'OBRES I MANTENIMENT DEL CAMPUS TERRASSA

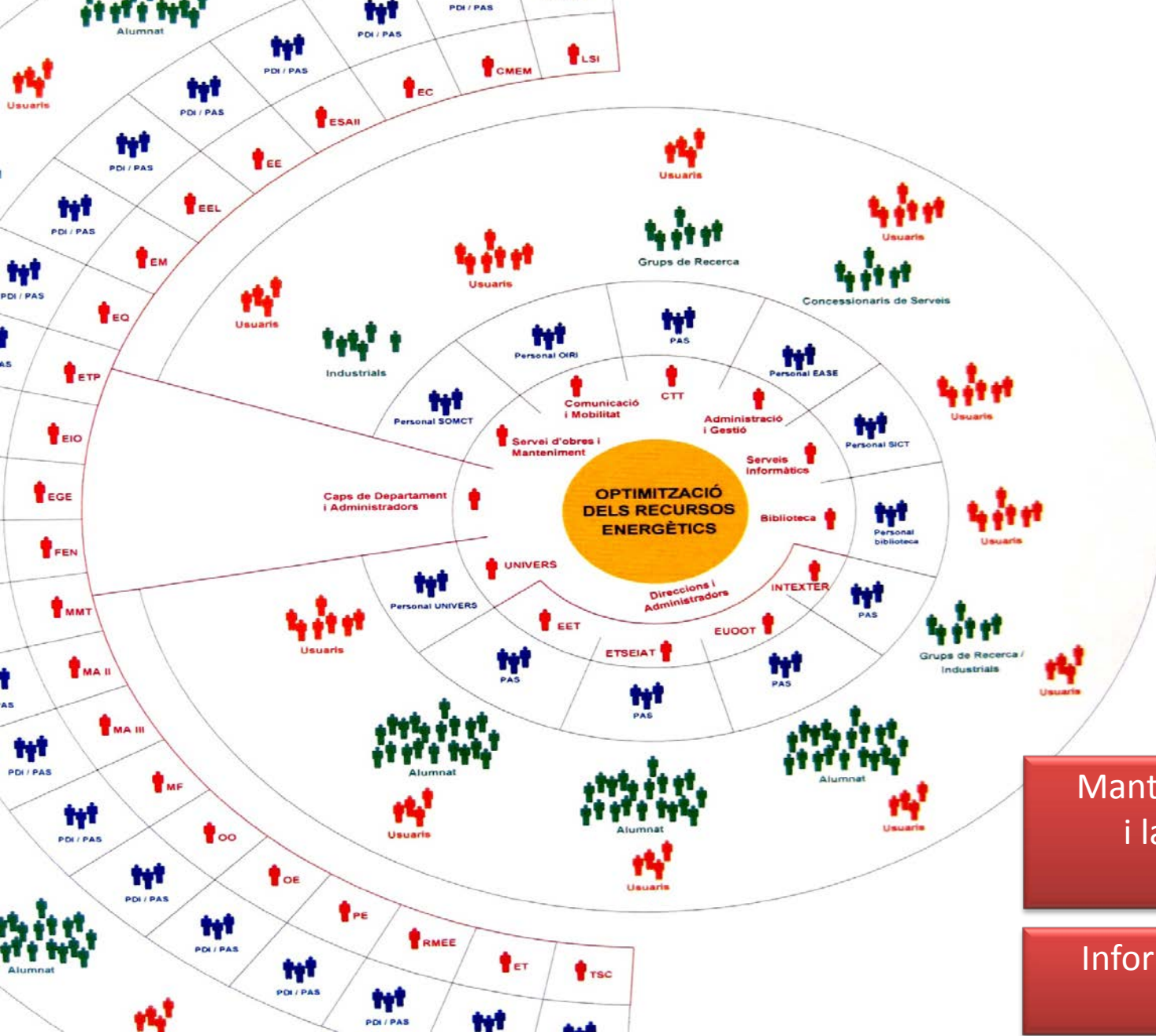


UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Campus de Terrassa



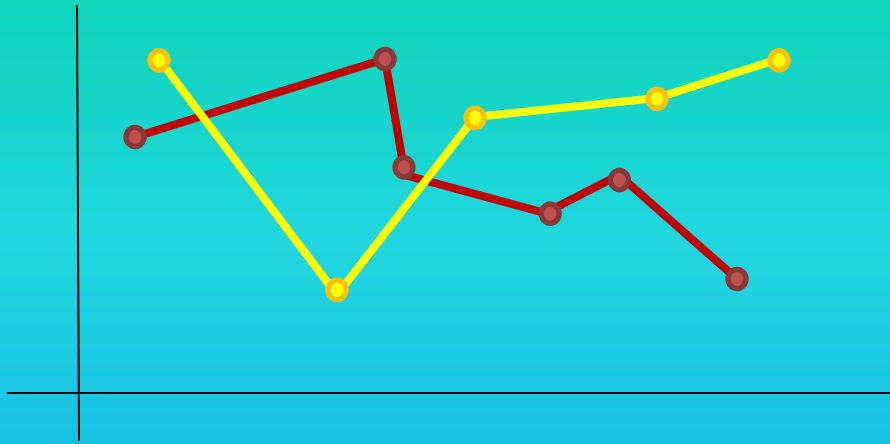






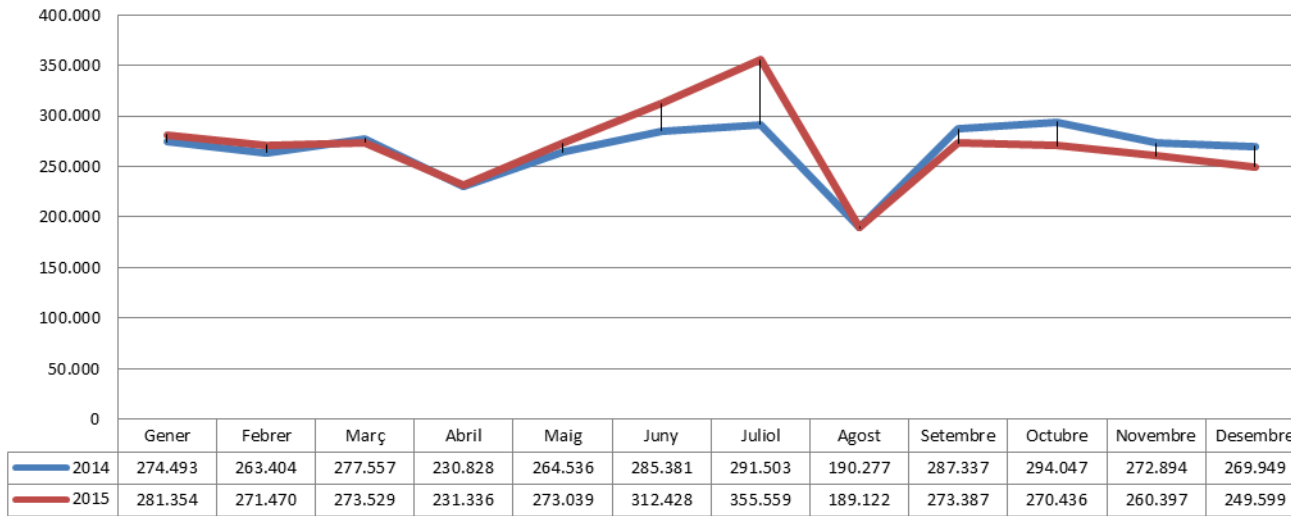
Mantenir l'estat d'alerta
i la conscienciació
respecte l'EE

Informació permanent:
nous usuaris

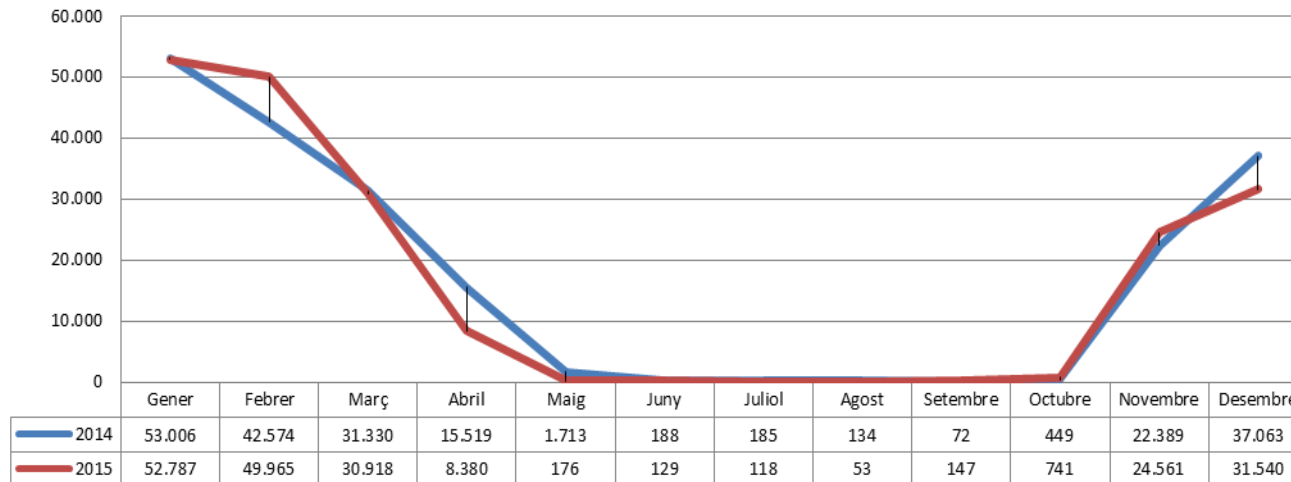


Dades consums mensuals 2014-2015

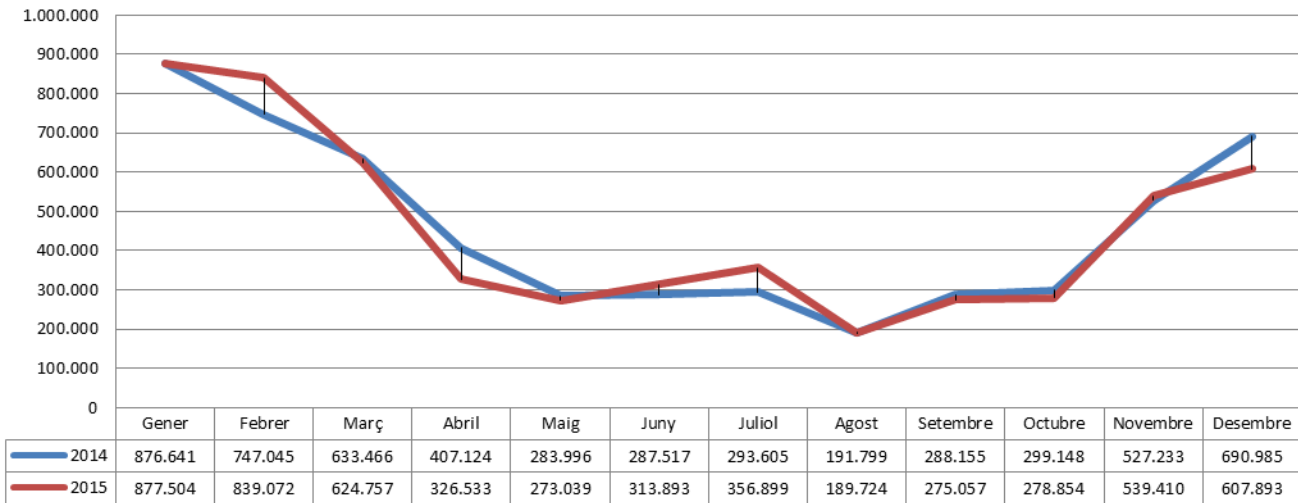
CT / ELECTRICITAT (kWh)



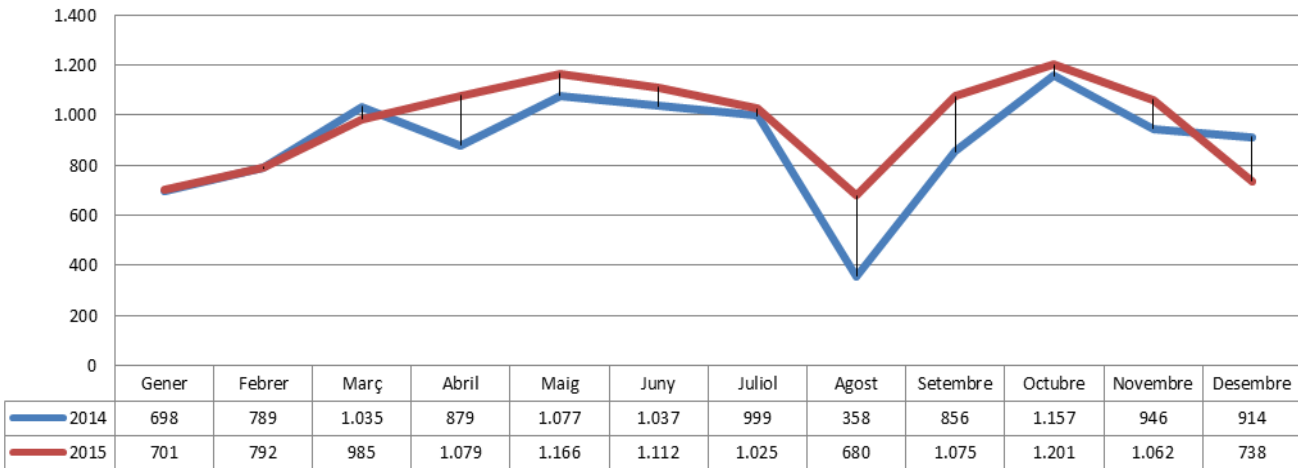
CT / GAS (m³)



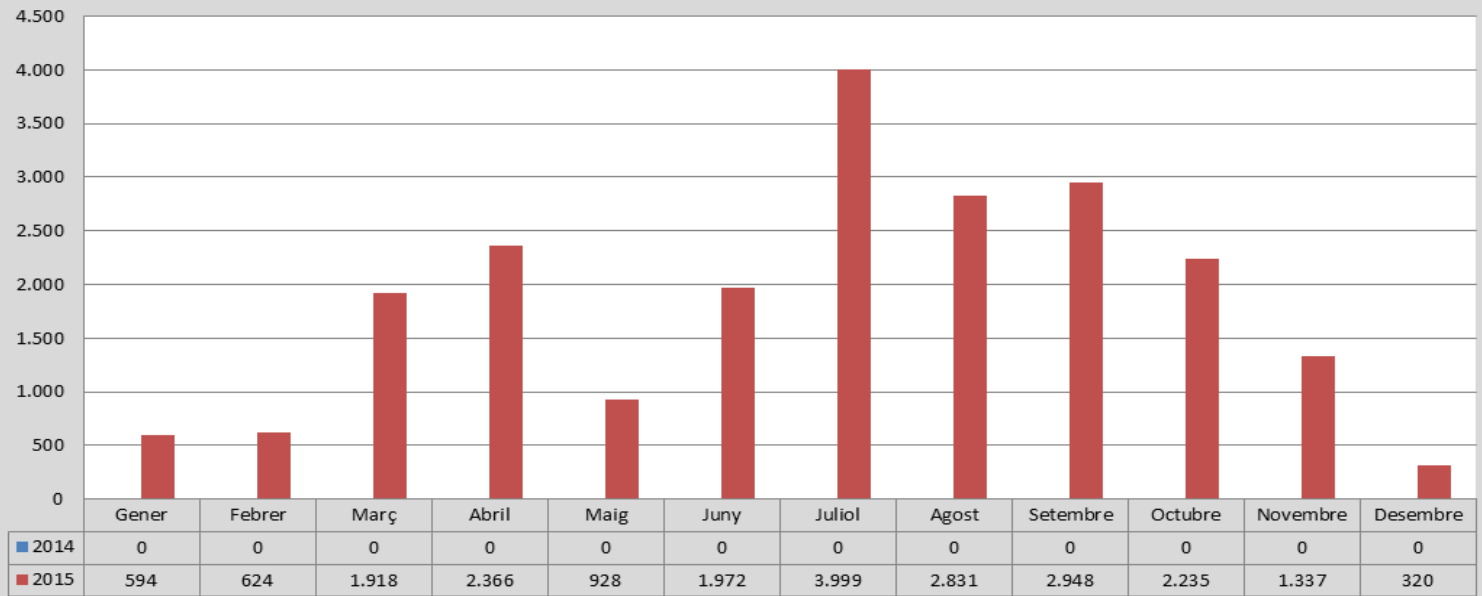
CT / ENERGIA / electricitat i gas (kWh)

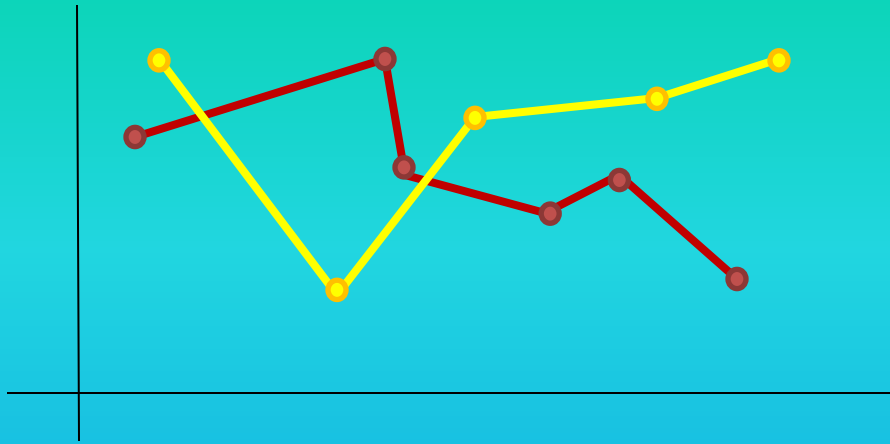


CT / AIGUA (m³)



CT / PRODUCCIÓ ELÈCTRICITAT (KWh)

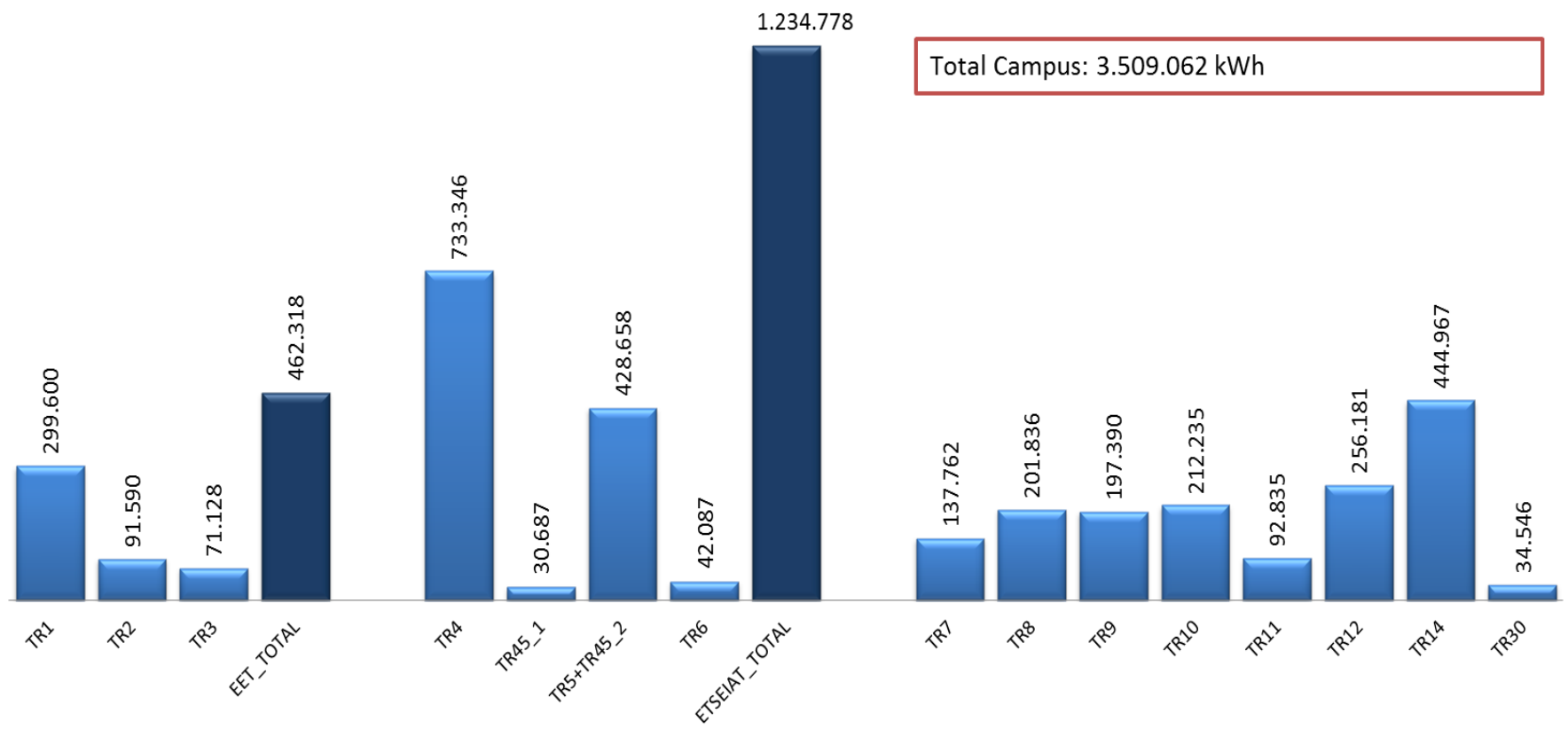




Dades per edificis 2015

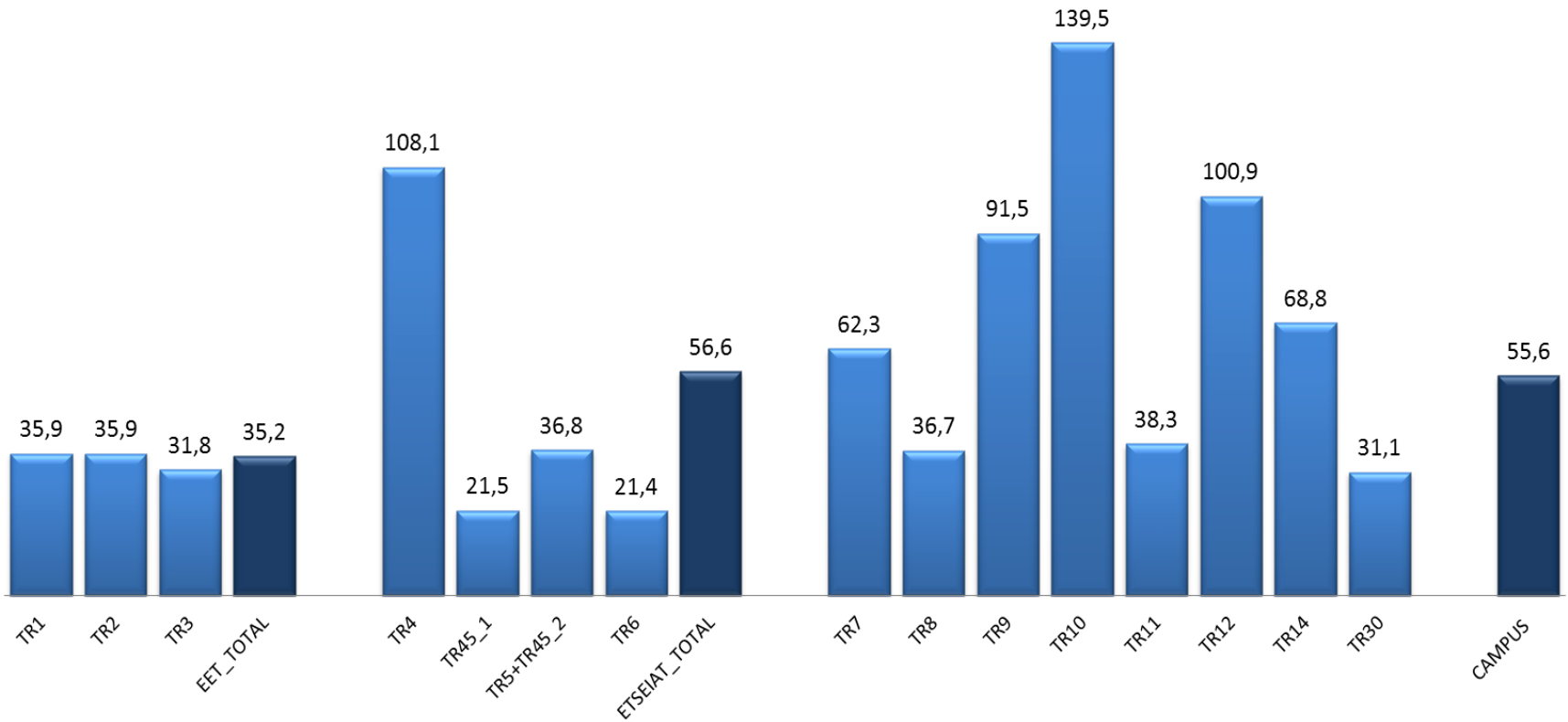
Campus Terrassa

Consum electricitat 2015 (kWh)



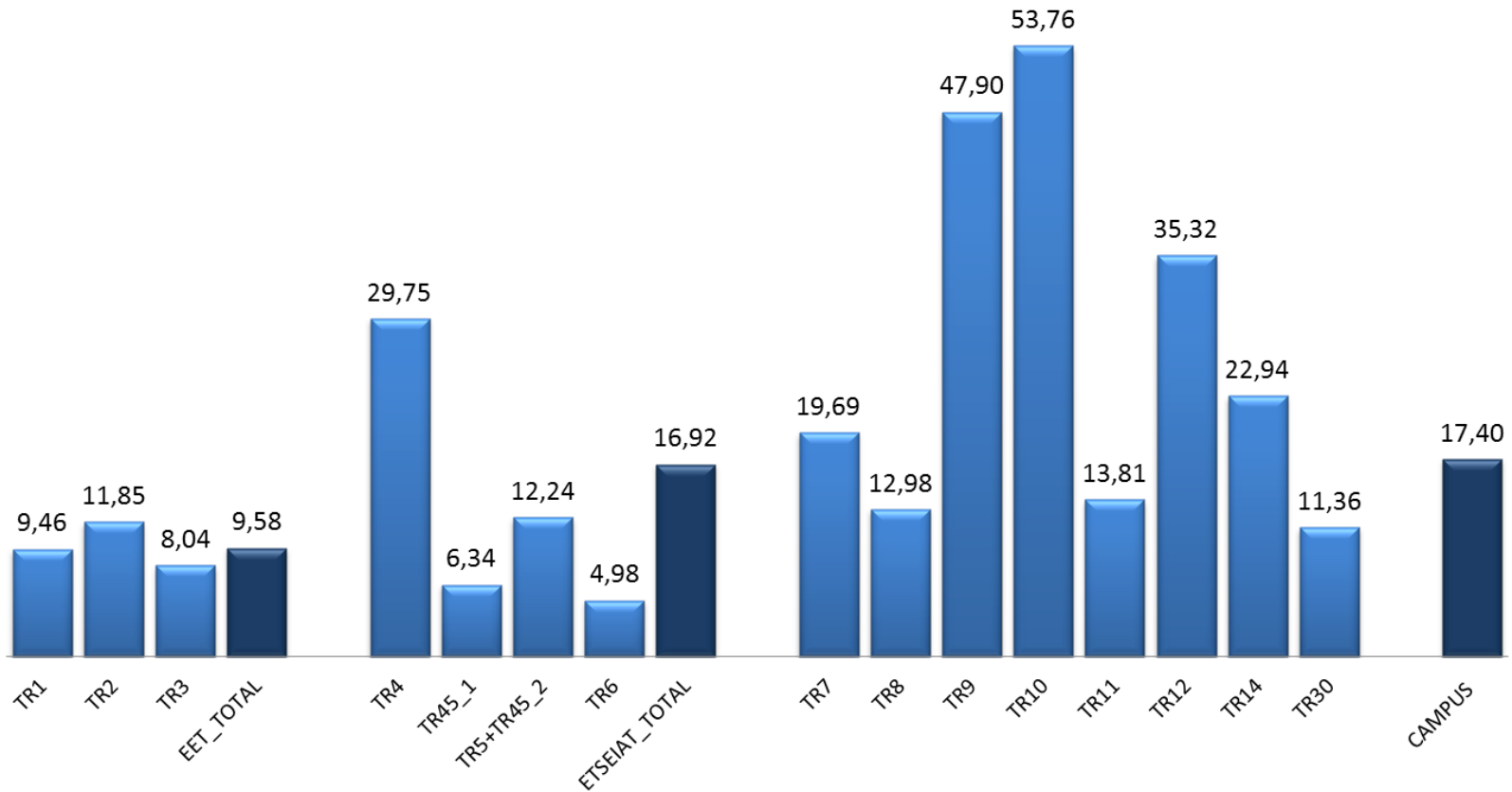
Campus Terrassa

Consum electricitat 2015 (kWh/m²)



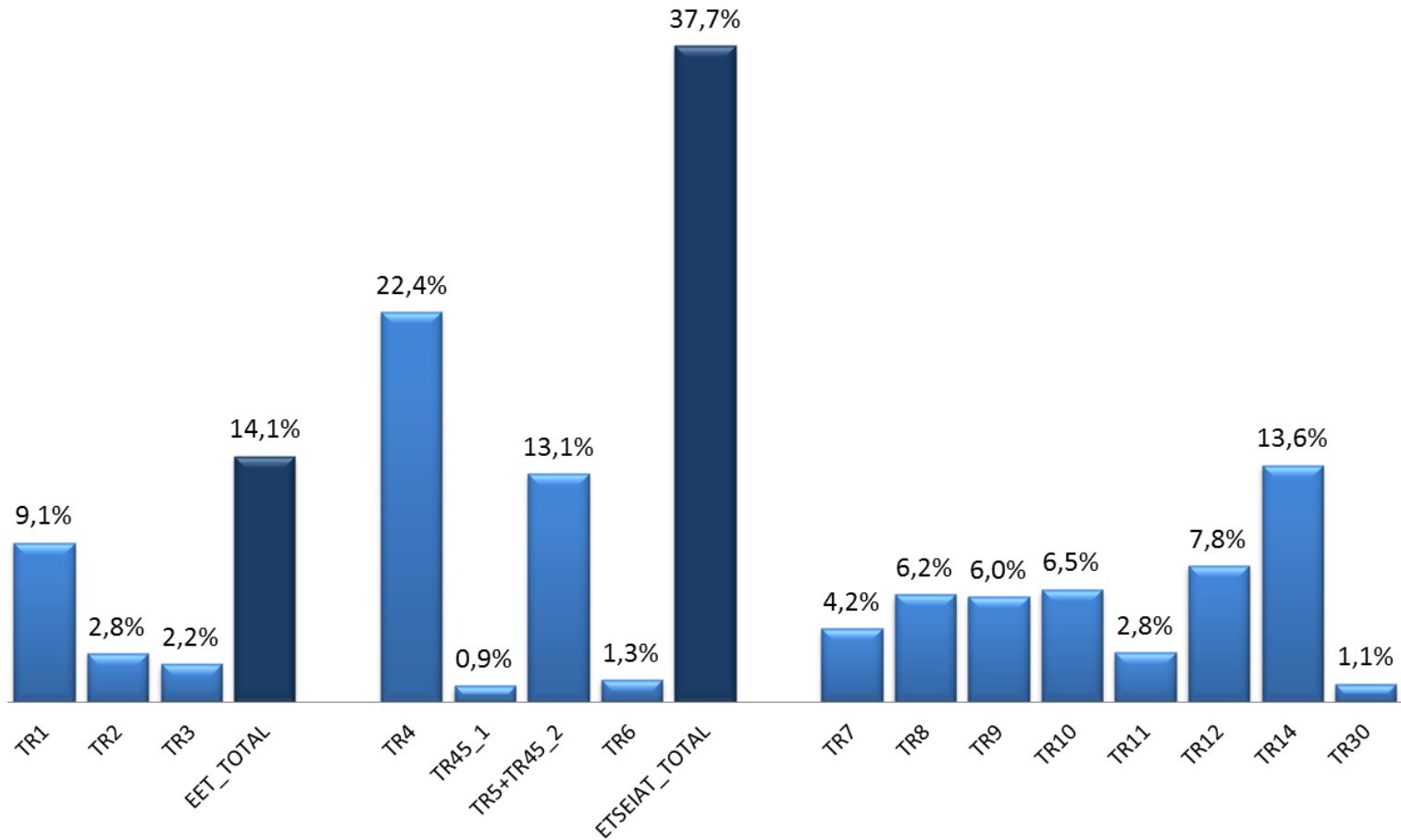
Campus Terrassa

Consum electricitat 2015 (kWh/m³)

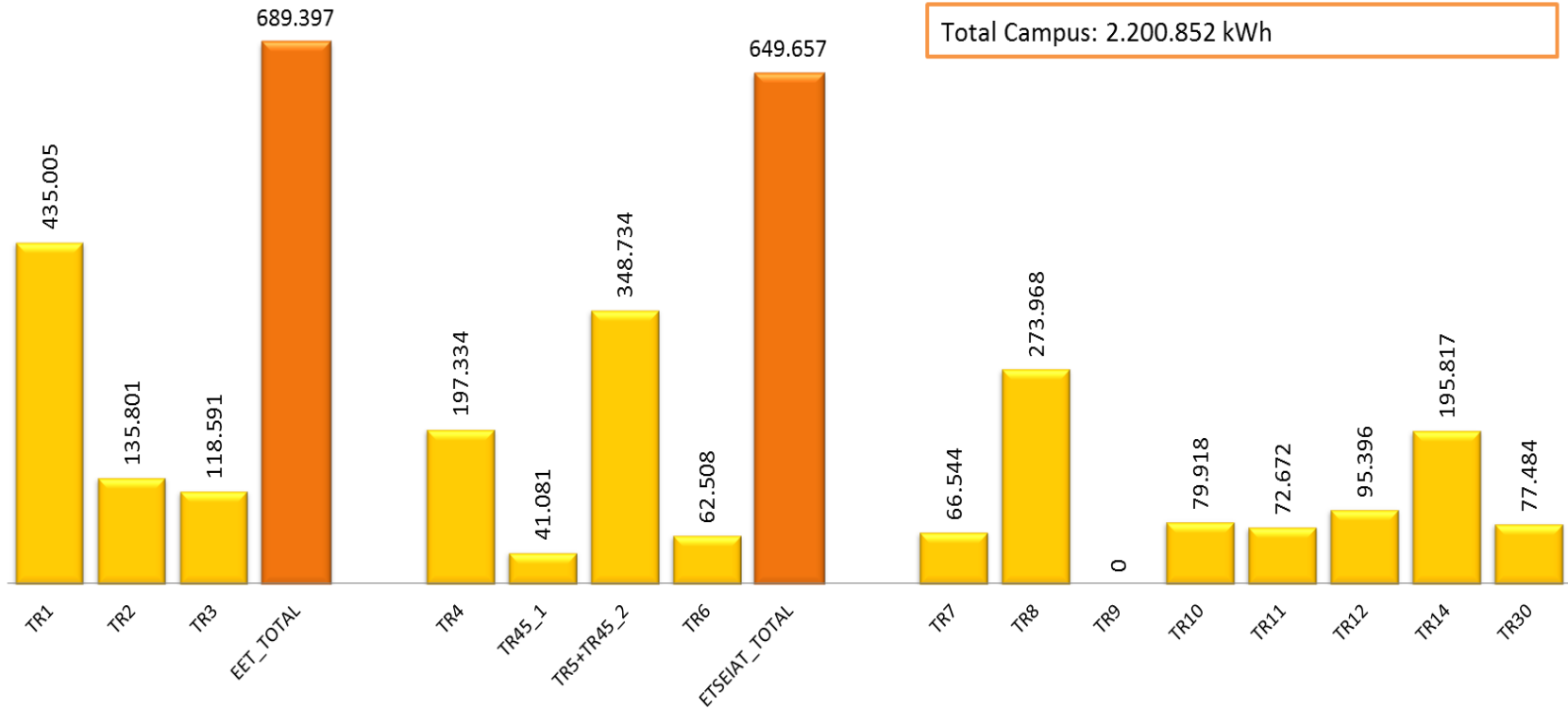


Campus Terrassa

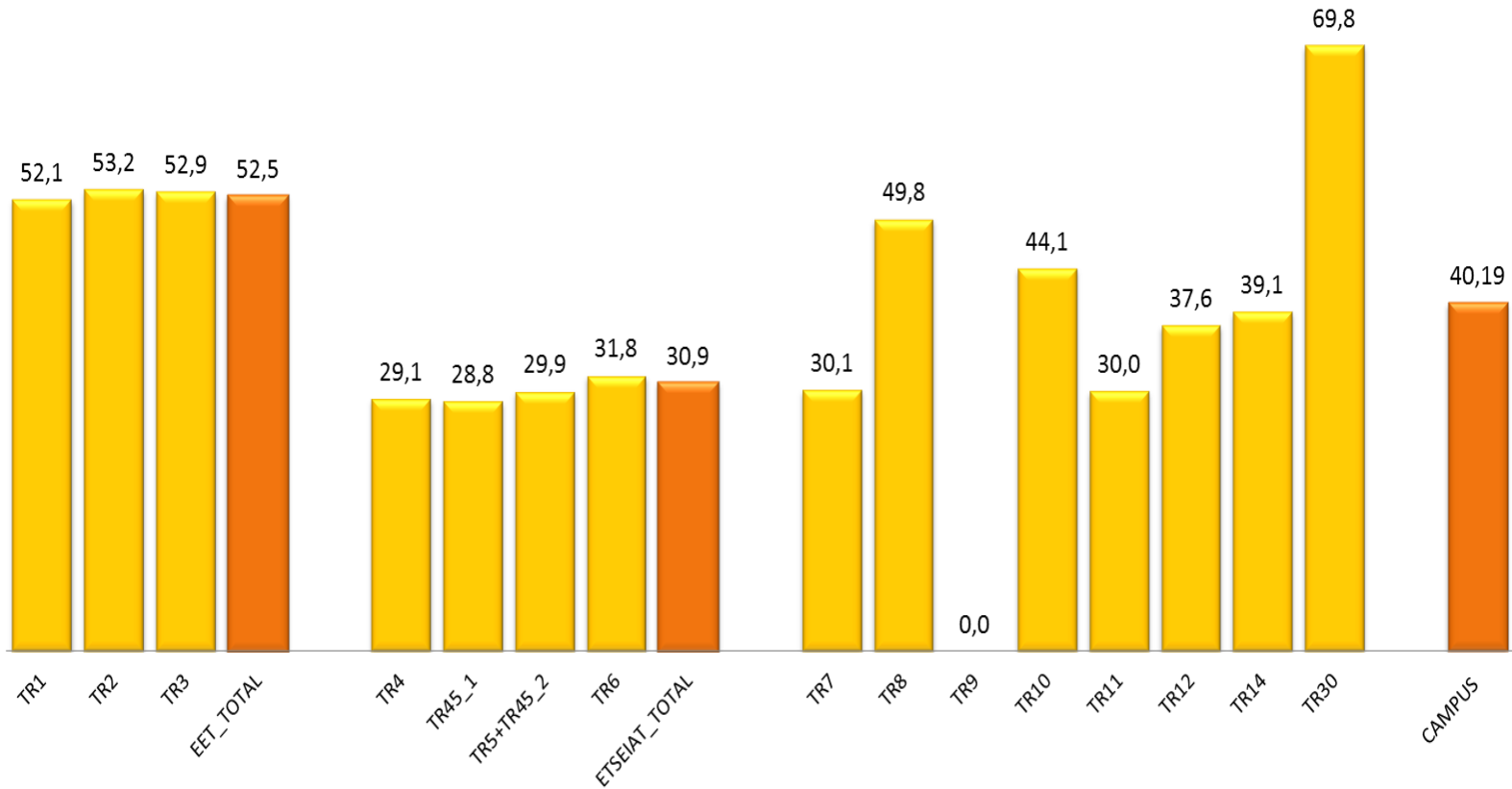
Consum electricitat 2015 (% kWh)



Campus Terrassa Consum gas 2015 (kWh)

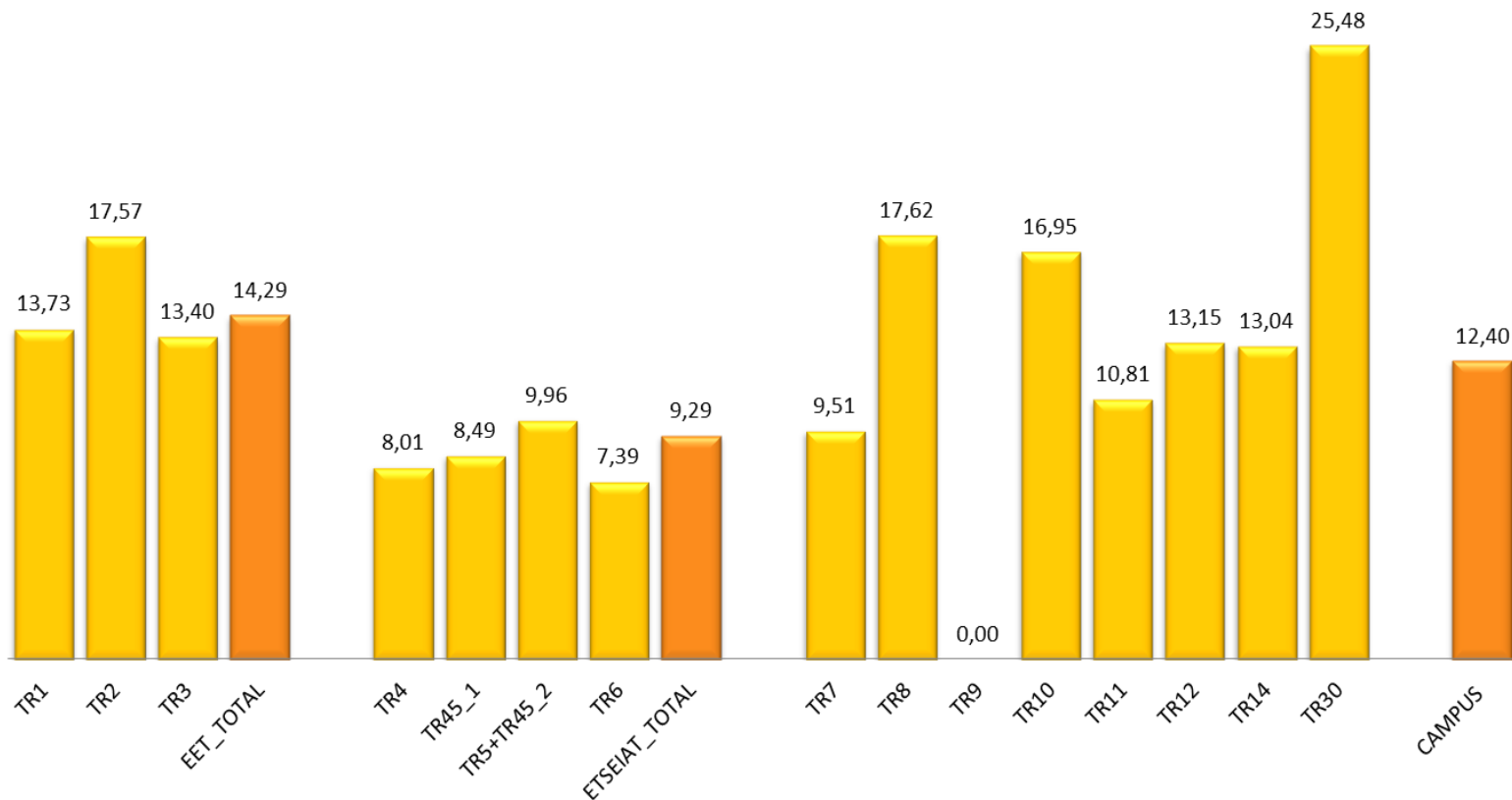


Campus Terrassa Consum 2015 "gas" (kWh/m²)

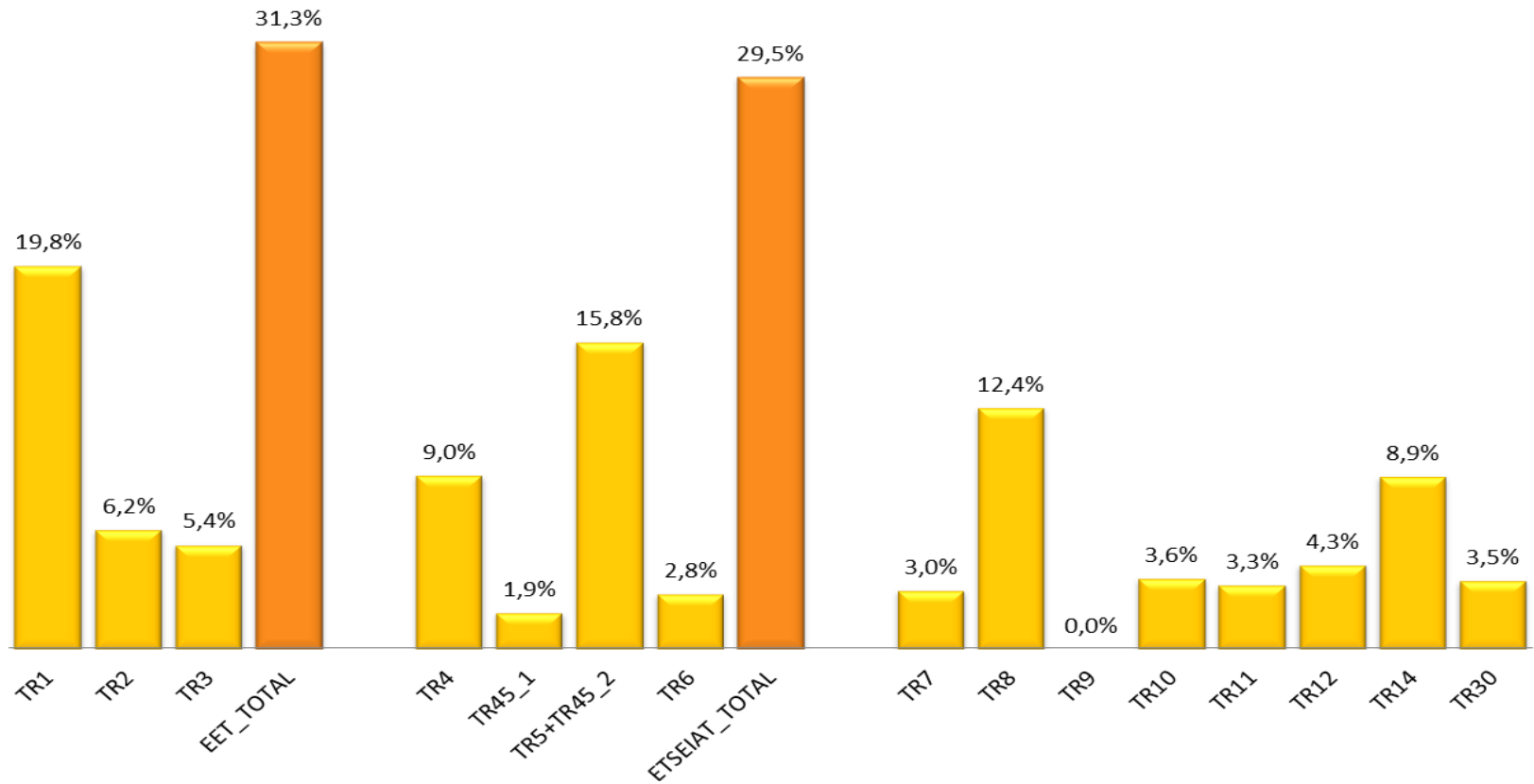


Campus Terrassa

Consum 2015 "gas" (kWh/m³)

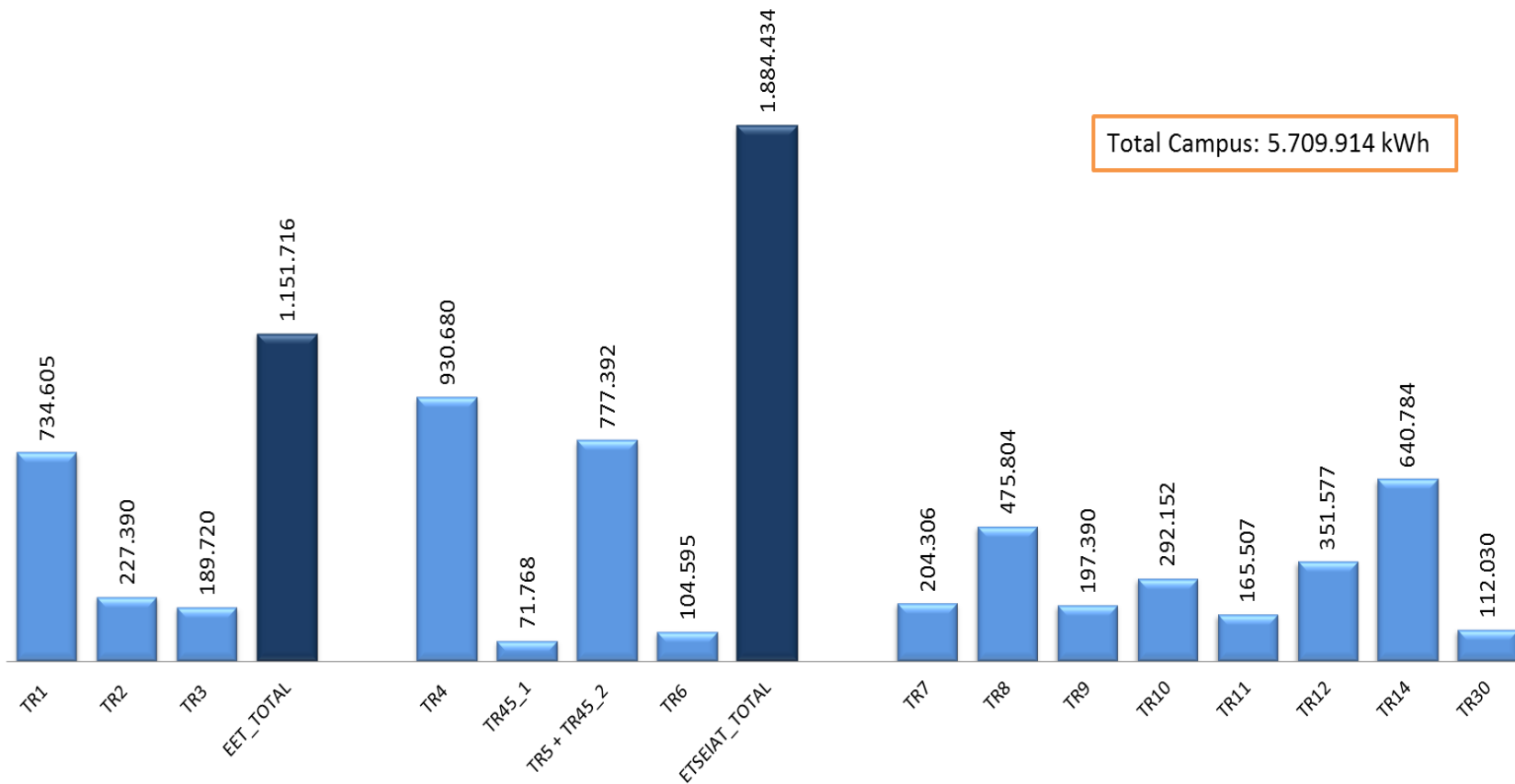


Campus Terrassa Consum 2015 "gas" (% kWh)

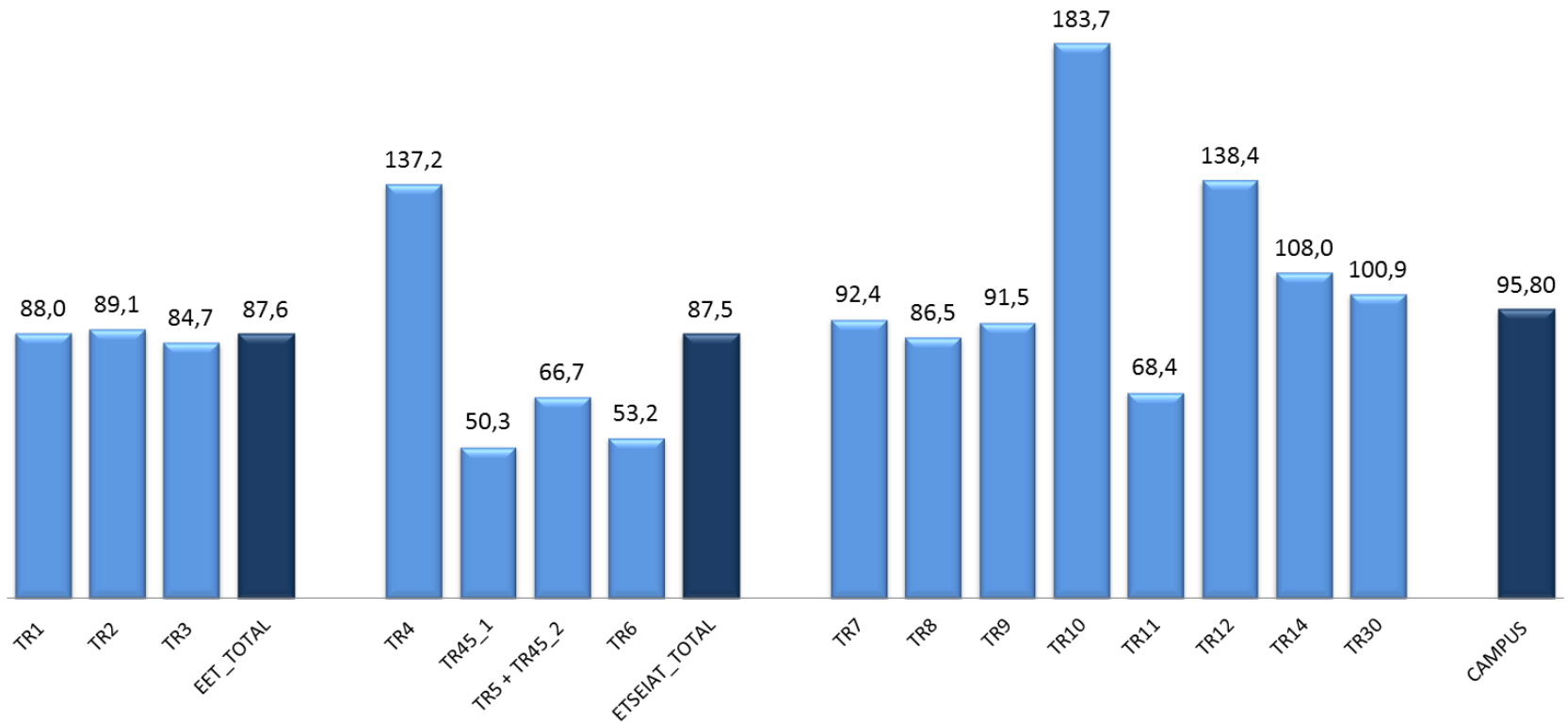


Campus Terrassa Consum Energia 2015 (kWh)

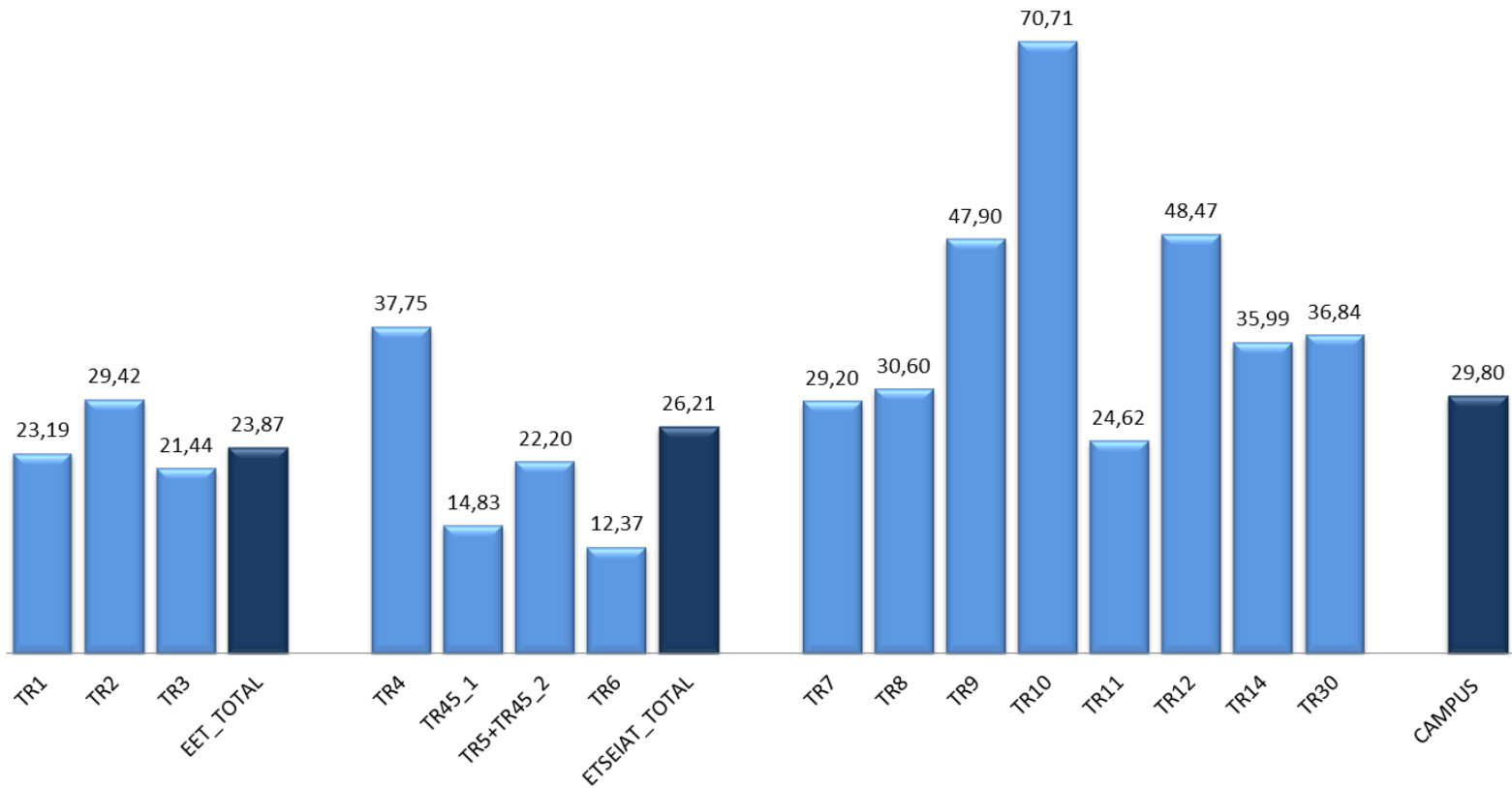
Total Campus: 5.709.914 kWh



Campus Terrassa Consum Energia 2015 (kWh/m²)



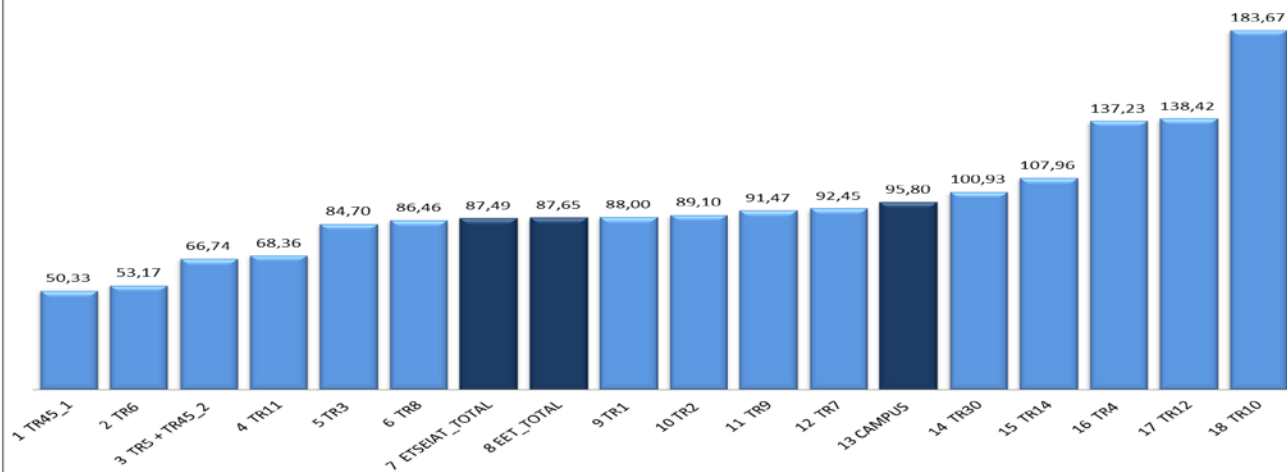
Campus Terrassa Consum Energia 2015 (kWh/m³)



Campus Terrassa

Consum Energia 2015 (Rànquing kWh/m²)

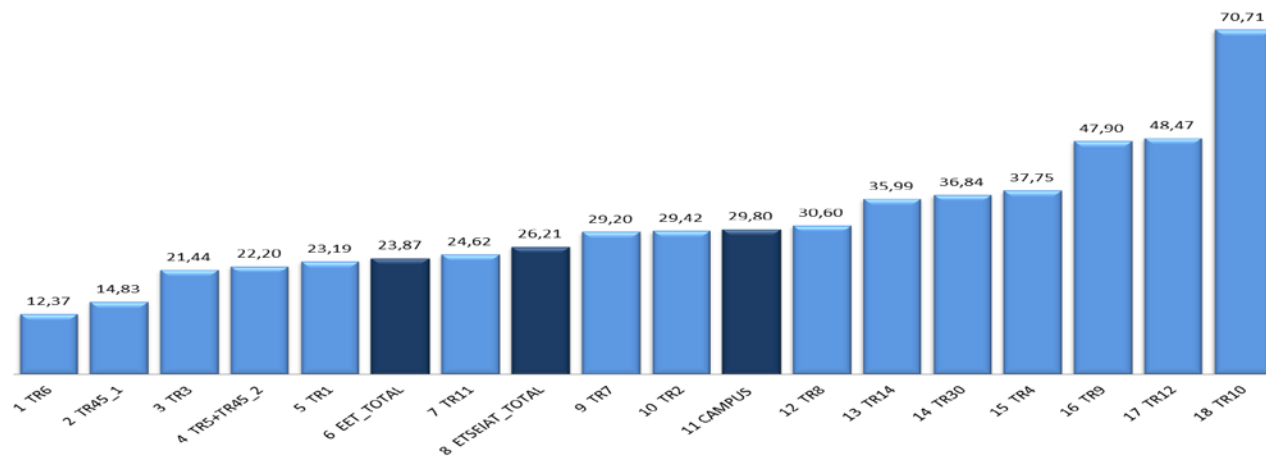
Són els m² construïts



Campus Terrassa

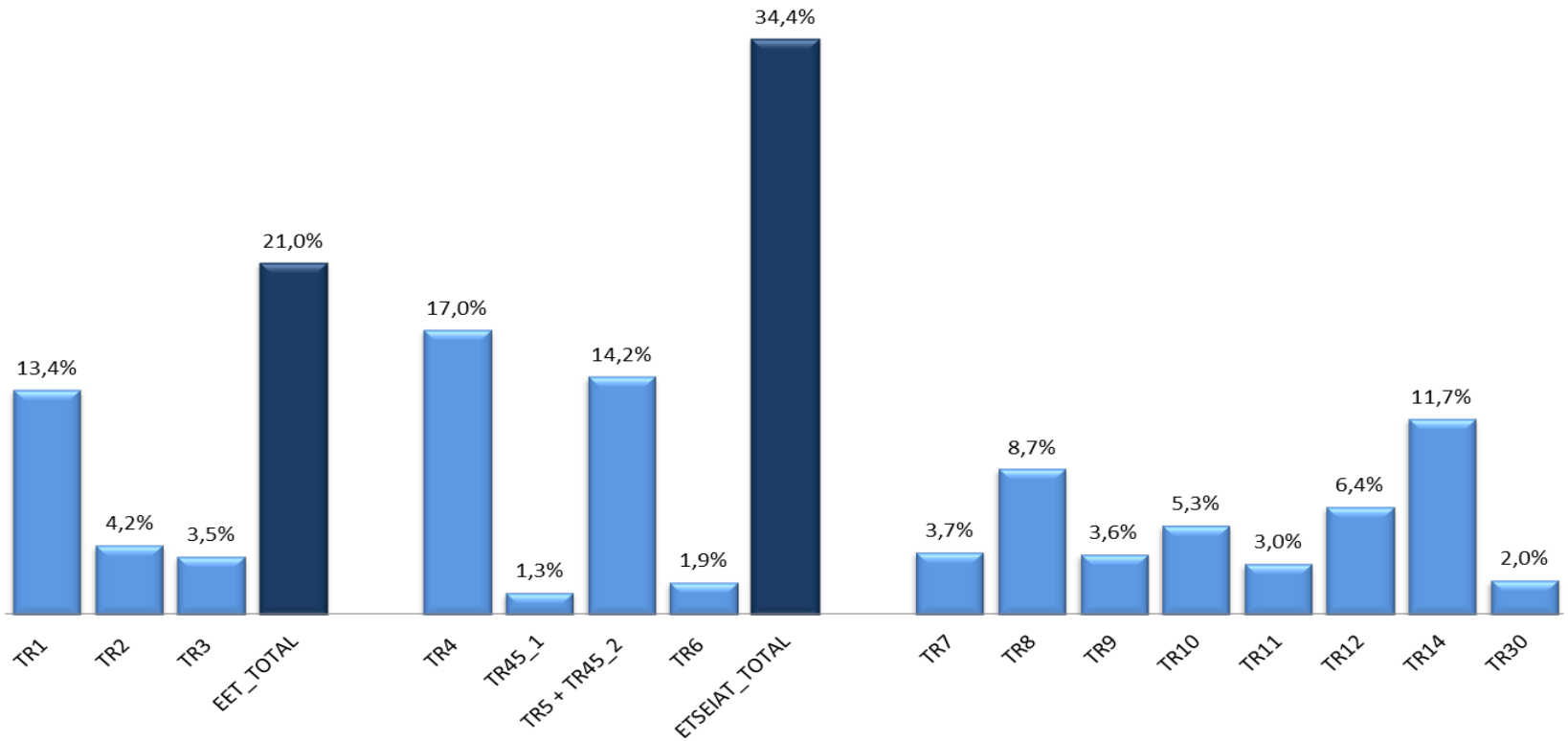
Consum Energia 2015 (Rànquing kWh/m³)

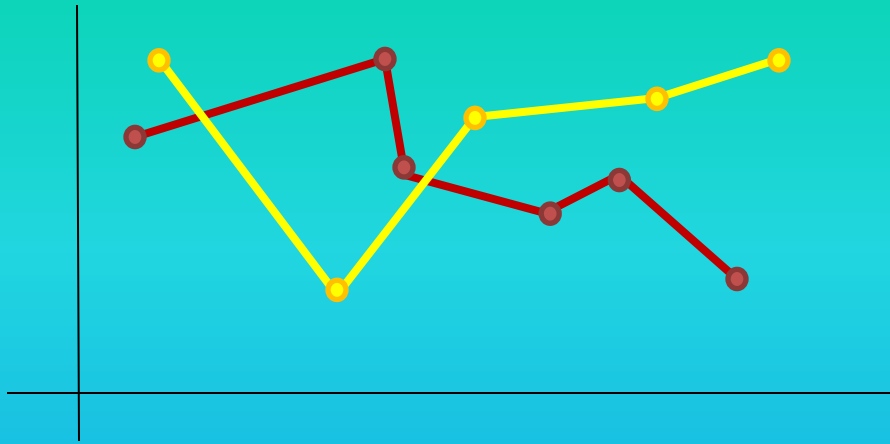
Són els m³ útils



Campus Terrassa

Consum Energia 2015 (% kWh)

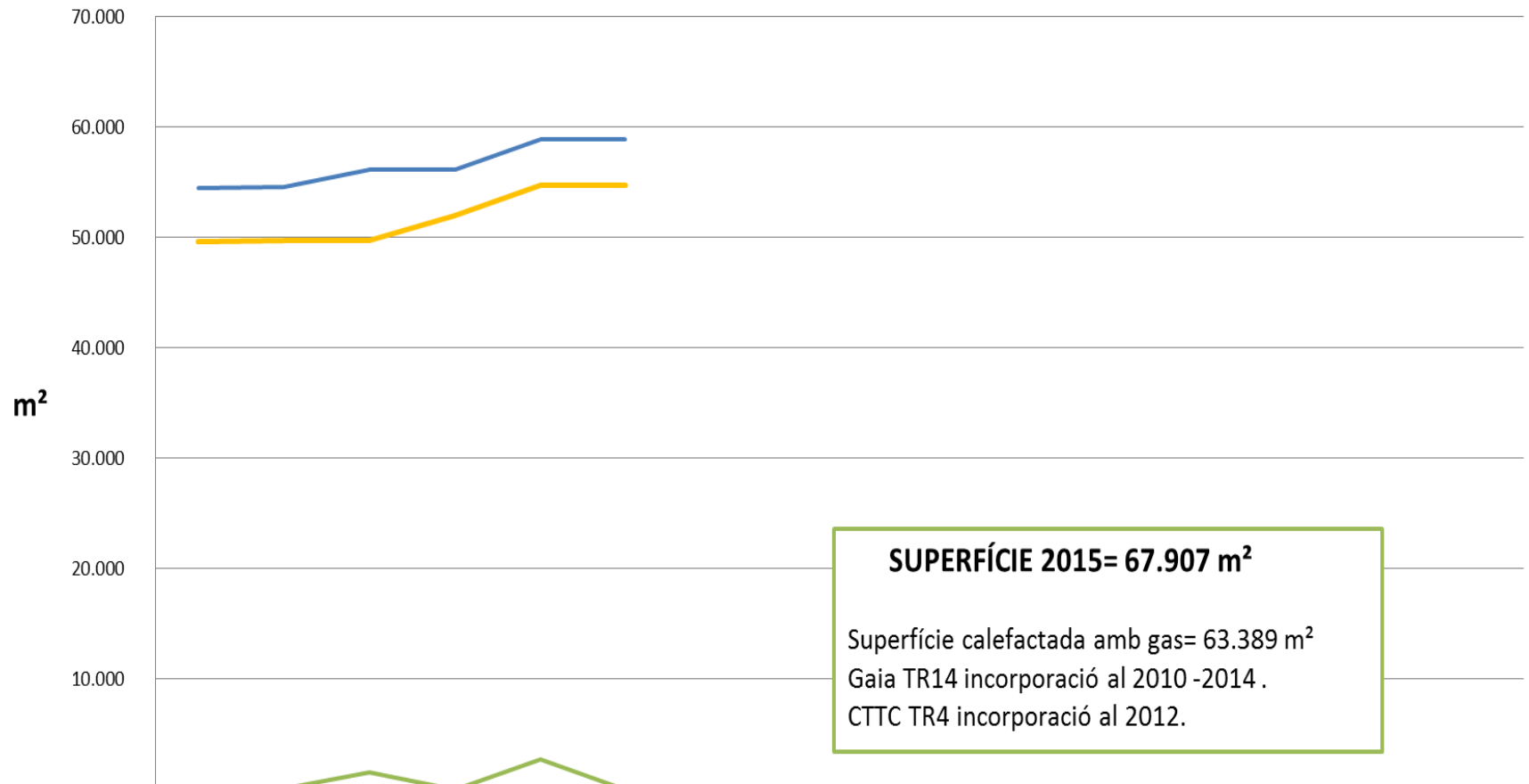




Dades anuals

Campus Terrassa 2015

Campus Terrassa m²construits

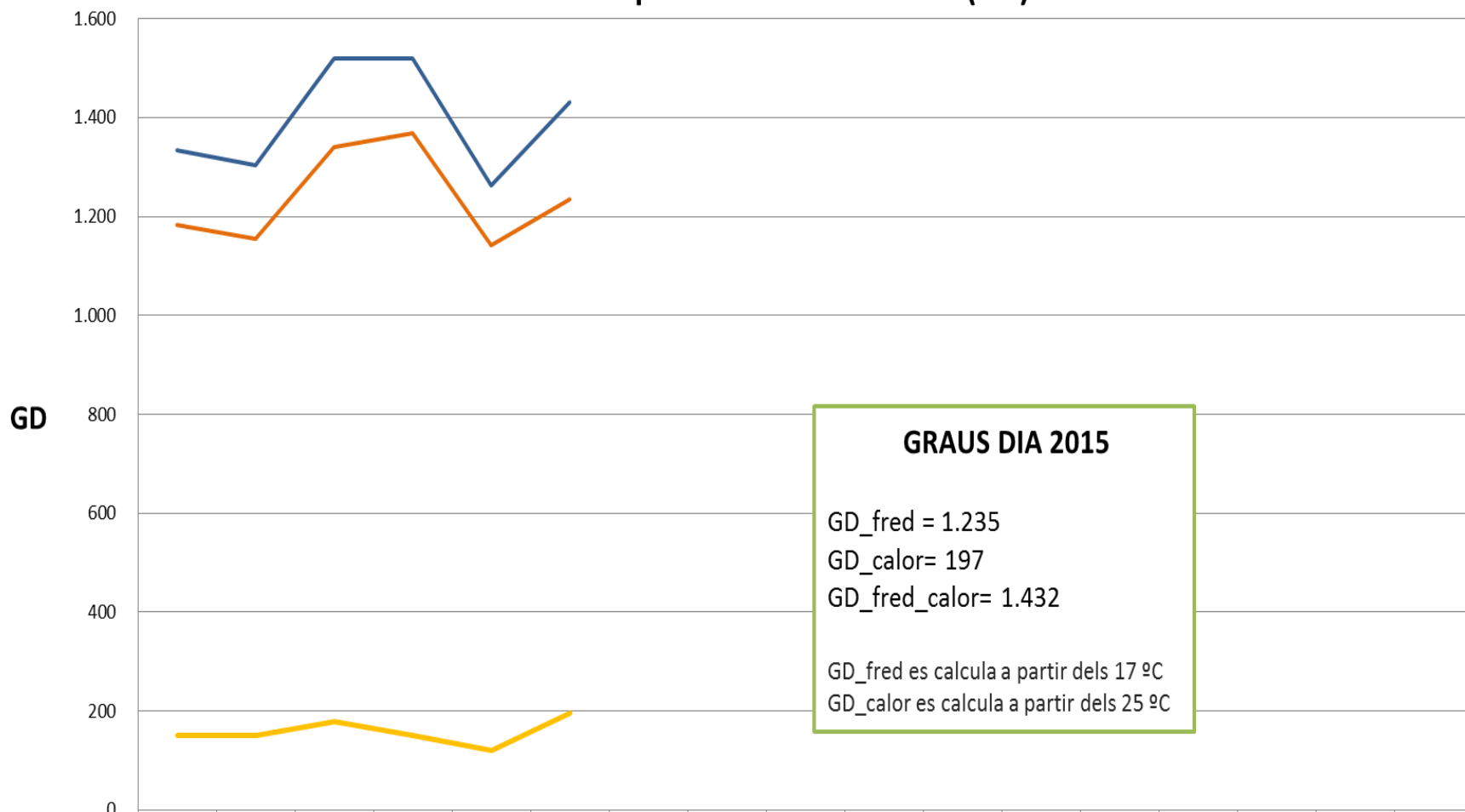


SUPERFÍCIE 2015= 67.907 m²

Superfície calefactada amb gas= 63.389 m²
 Gaia TR14 incorporació al 2010 -2014 .
 CTTC TR4 incorporació al 2012.

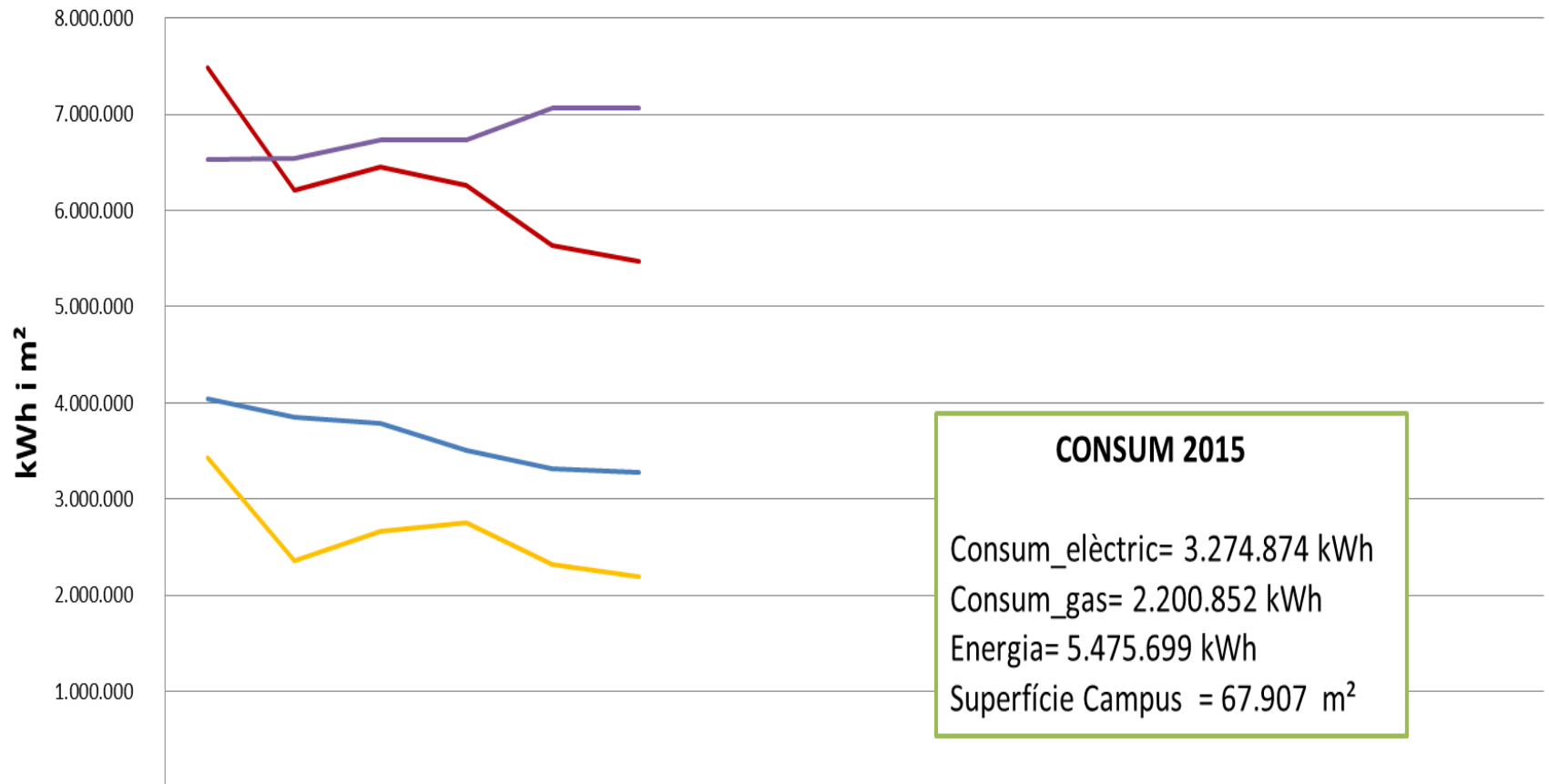
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
m ²	54.441	54.542	56.111	56.111	58.890	58.890										
m ² _gas	49.650	49.751	49.751	51.977	54.756	54.756										
Increment m ²	130	101	1.569	0	2.779	0										

Campus Terrassa GRAU DIA (GD)



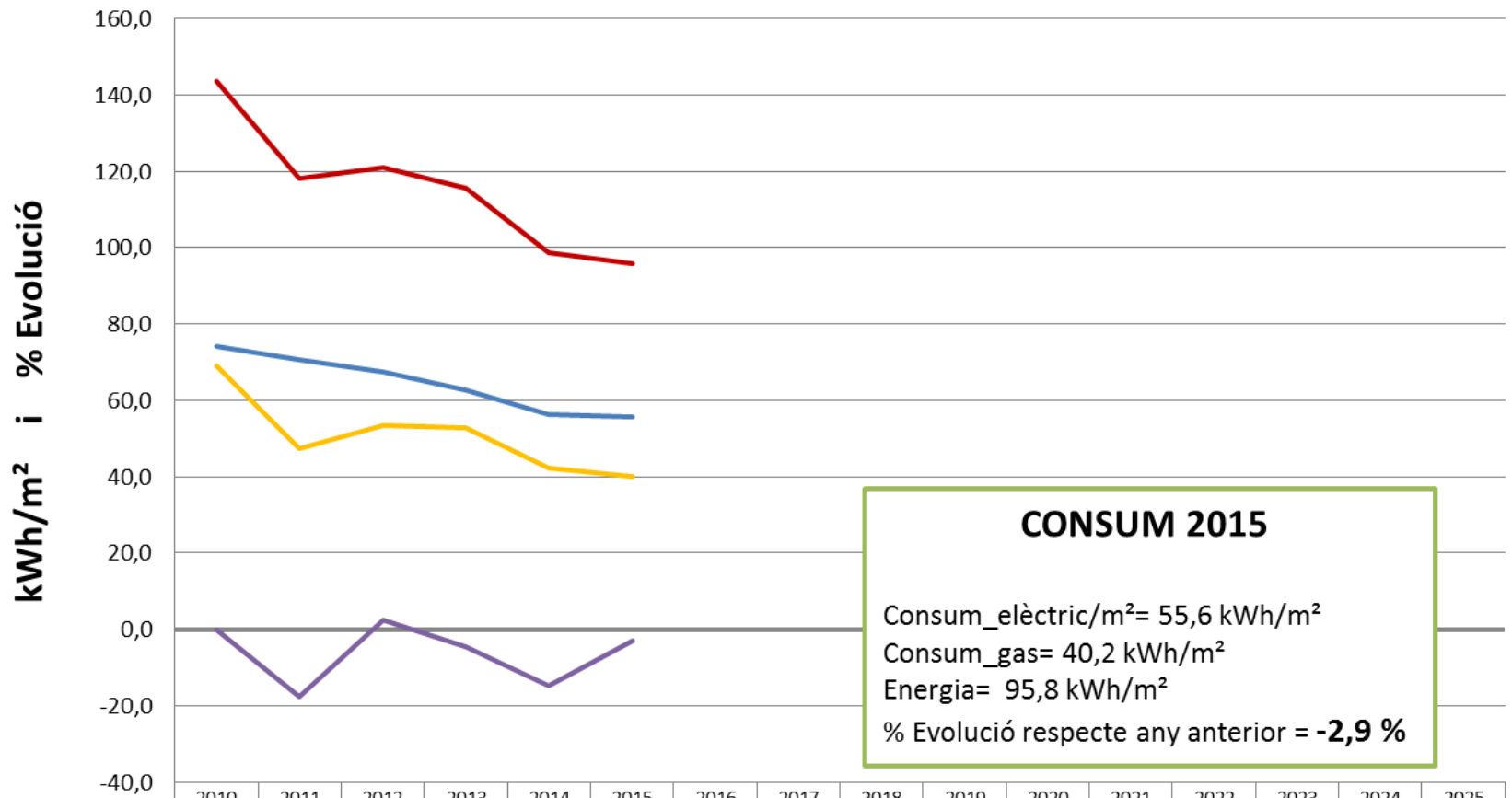
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	MITJANA
GD_fred	1.183	1.154	1.341	1.368	1.142	1.235											1.227
GD_calor	150	150	179	151	121	197											157
GD_fred_calor	1.333	1.304	1.520	1.519	1.263	1.432											1.384

Campus Terrassa kWh i m²



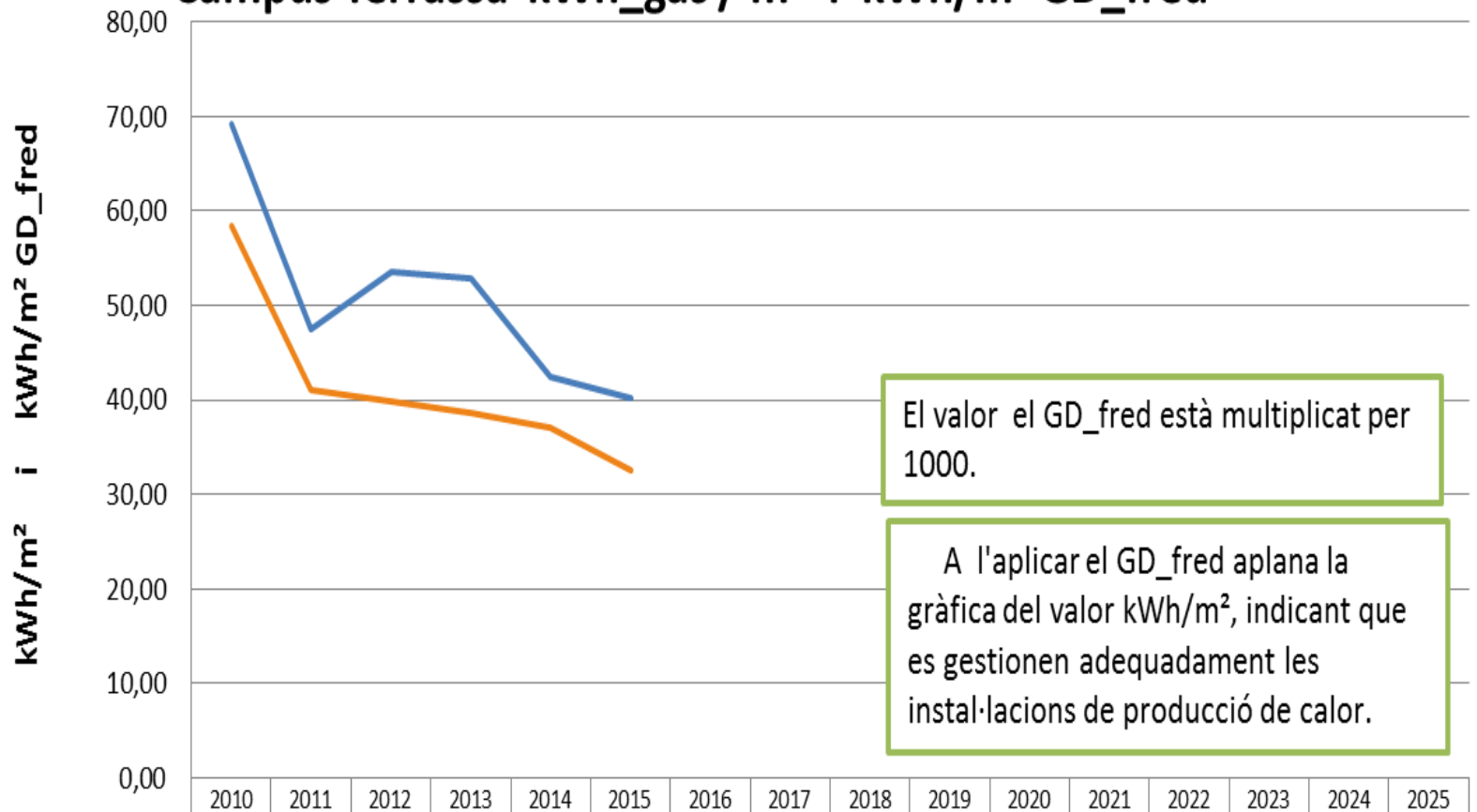
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— KWh_elèctric	4.044.837	3.854.894	3.787.700	3.509.916	3.314.615	3.274.847										
— KWh_gas	3.435.396	2.357.984	2.661.621	2.751.472	2.319.258	2.200.852										
— KWh_energia	7.480.233	6.212.878	6.449.321	6.261.388	5.633.873	5.475.699										
— m2 (X 120)	6.532.920	6.545.040	6.733.320	6.733.320	7.066.800	7.066.800										

Campus Terrassa kWh/m² i % Evolució



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Electricitat	74,3	70,7	67,5	62,6	56,3	55,6										
Gas	69,2	47,4	53,5	52,9	42,4	40,2										
ENERGIA	143,49	118,07	121,00	115,49	98,64	95,80										
% Evolució	0,0	-17,7	2,5	-4,6	-14,6	-2,9										

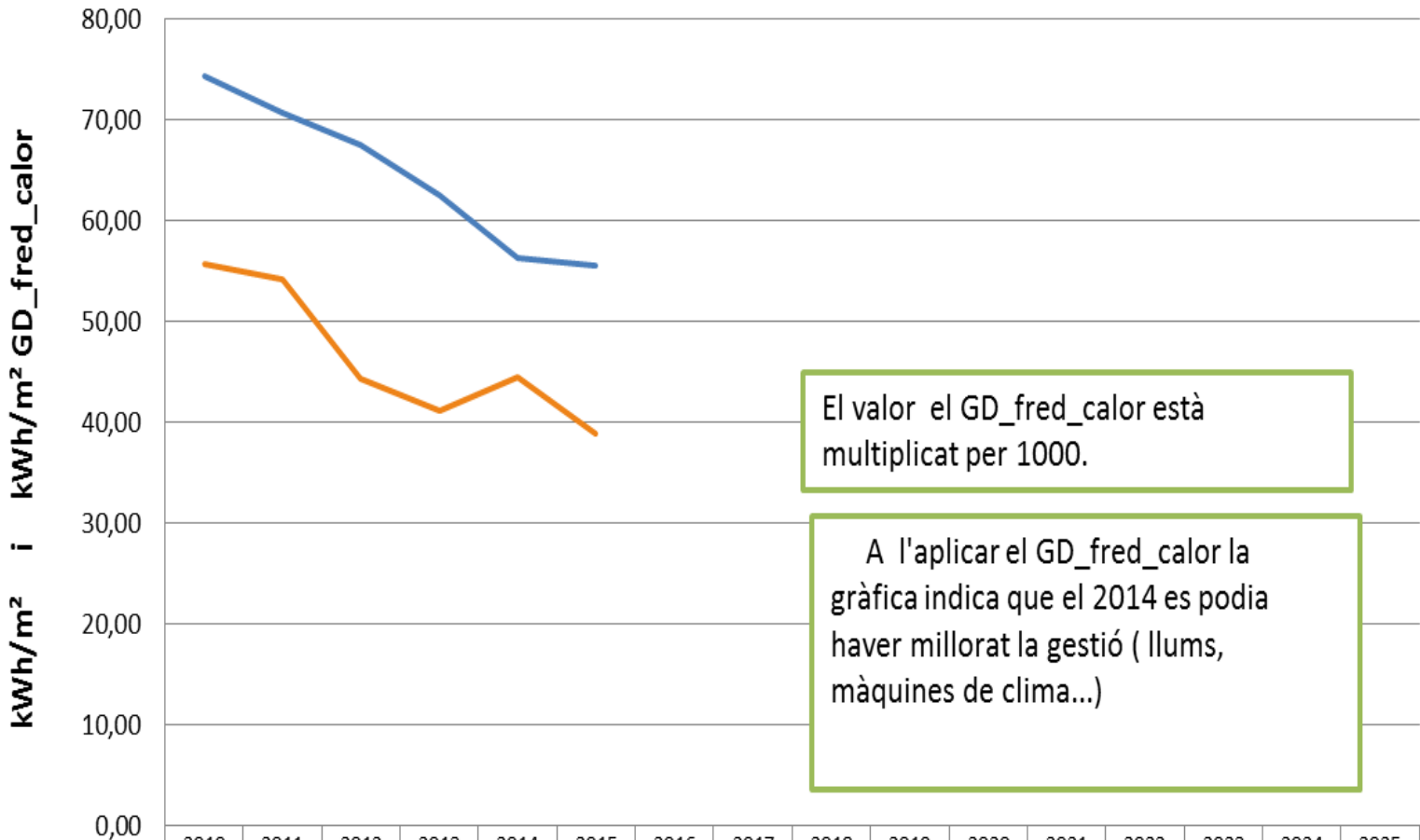
Campus Terrassa kWh_{gas} / m² i kWh/m² GD_{fred}



El valor el GD_{fred} està multiplicat per 1000.

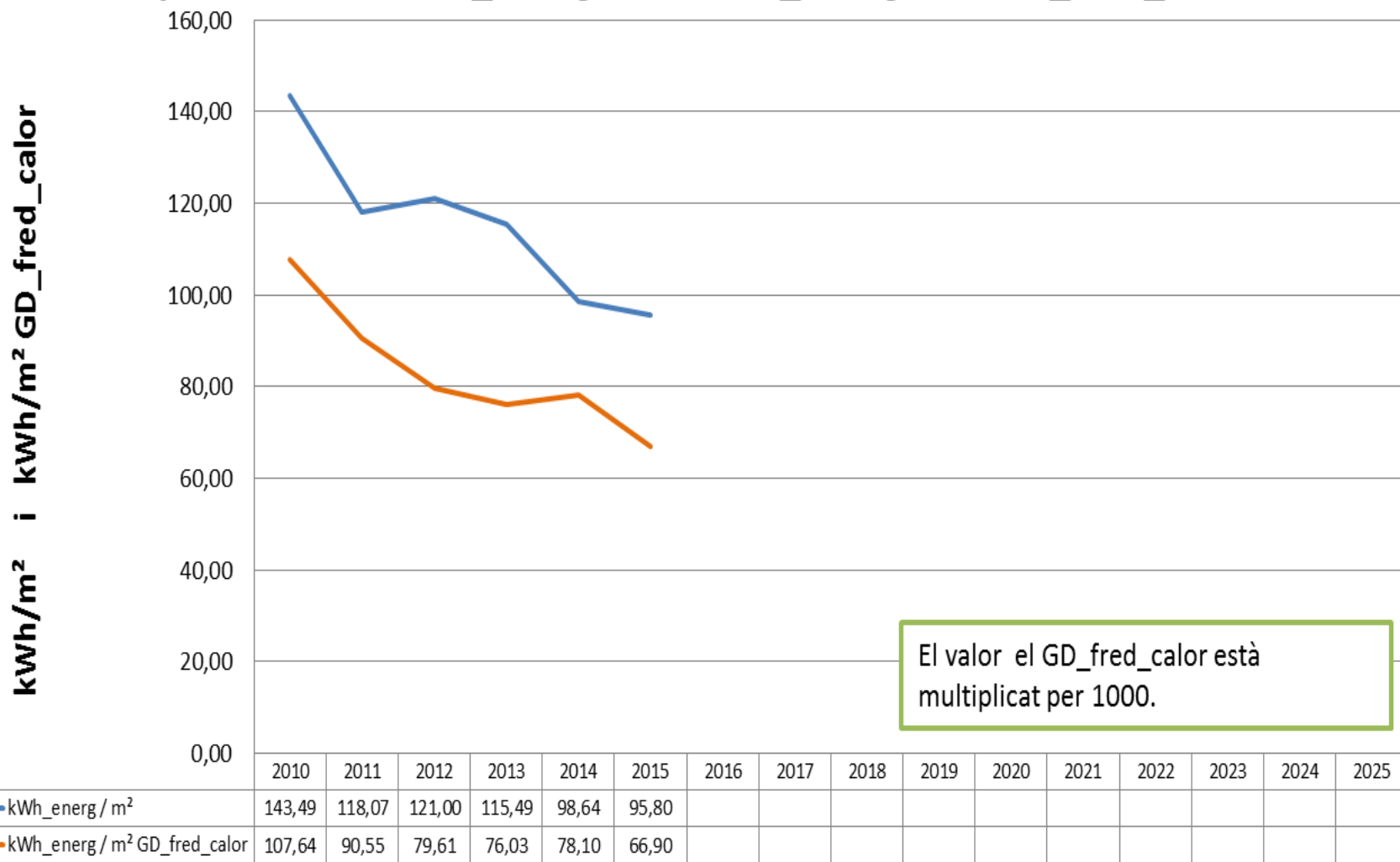
A l'aplicar el GD_{fred} aplanar la gràfica del valor kWh/m², indicant que es gestionen adequadament les instal·lacions de producció de calor.

Campus Terrassa kWh_elèc / m² i kWh_elèc/m² GD_fred_calor



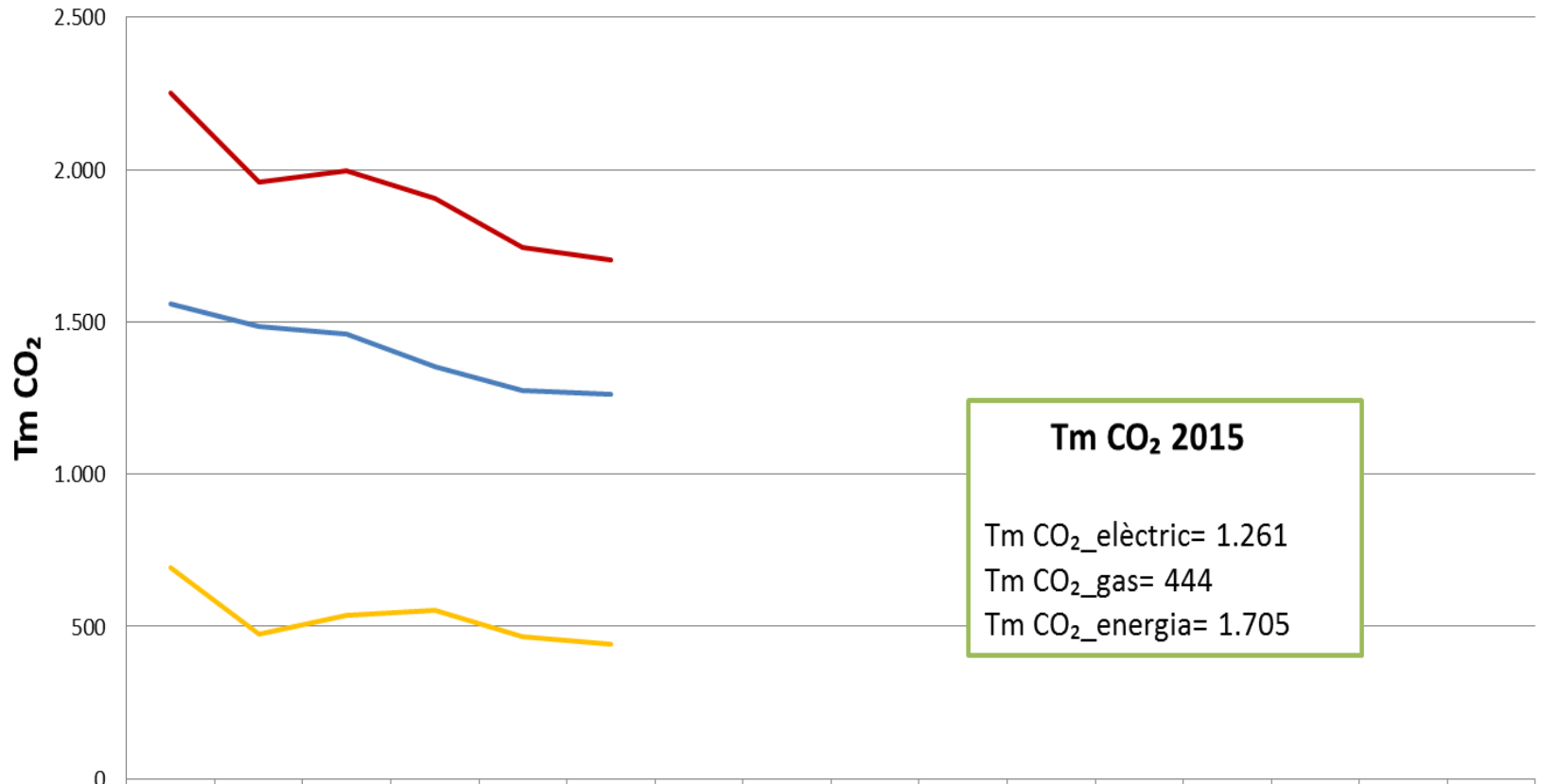
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— kWh_elec / m ²	74,30	70,68	67,50	62,55	56,28	55,61										
— kWh_elec / m ² GD_fred_calor	55,74	54,20	44,41	41,18	44,56	38,83										

Campus Terrassa kWh_energ/m² i kWh_energ / m² GD_fred_calor



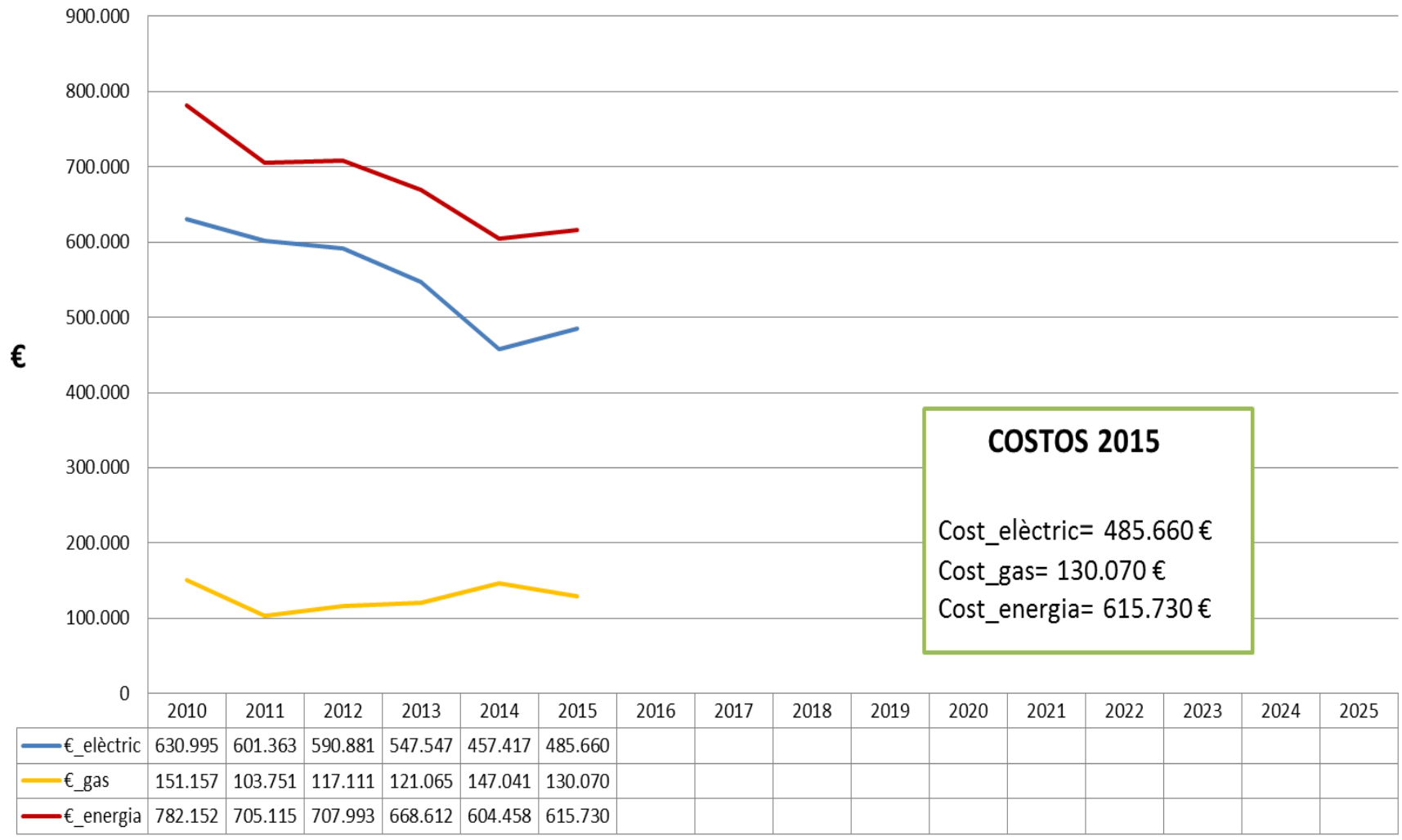
El valor el GD_fred_calor està multiplicat per 1000.

Campus Terrassa Tm CO₂

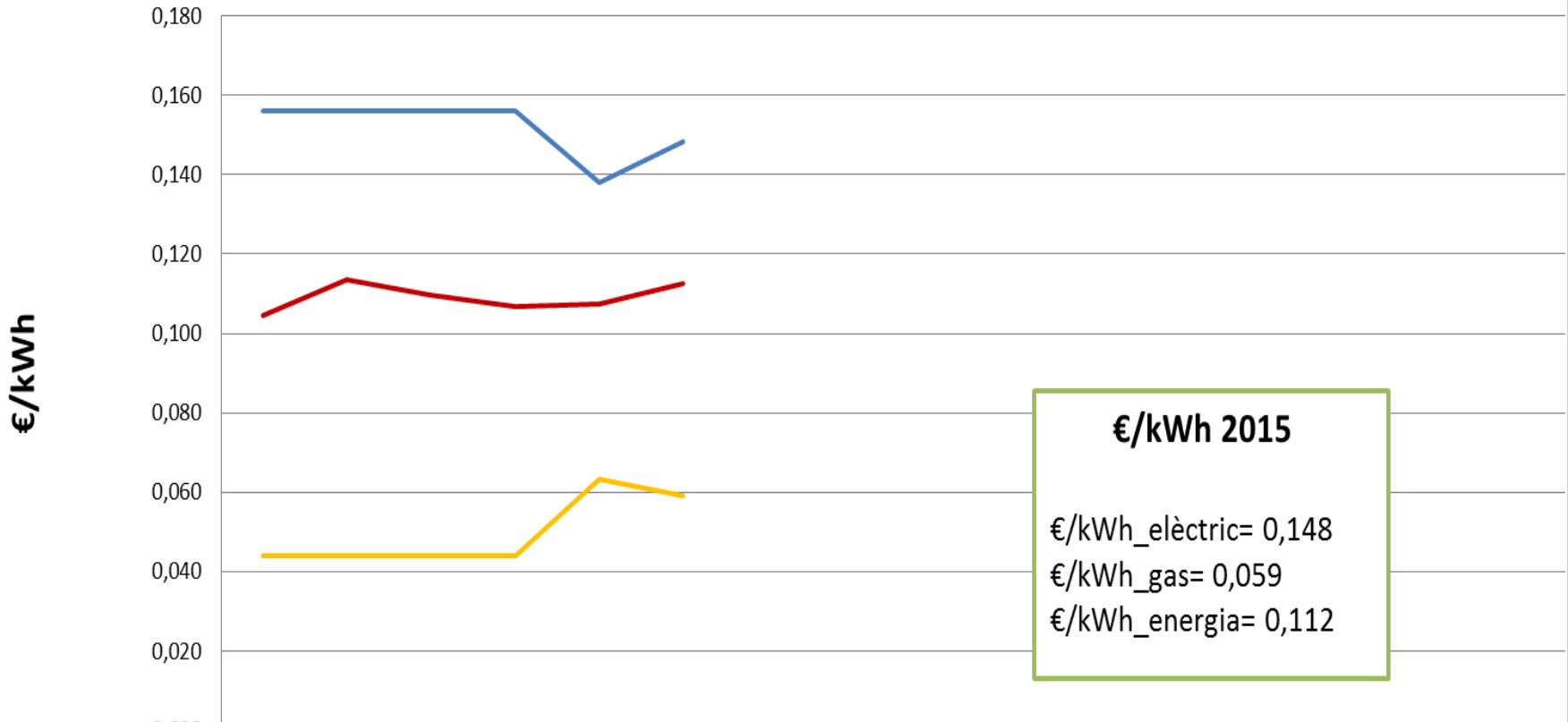


	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Tm CO ₂ _elèctric	1.557	1.484	1.458	1.351	1.276	1.261										
Tm CO ₂ _gas	693	475	537	555	468	444										
Tm CO ₂ _energia	2.250	1.960	1.995	1.906	1.744	1.705										

Campus Terrassa Costos energètics €



Campus Terrassa €/kWh

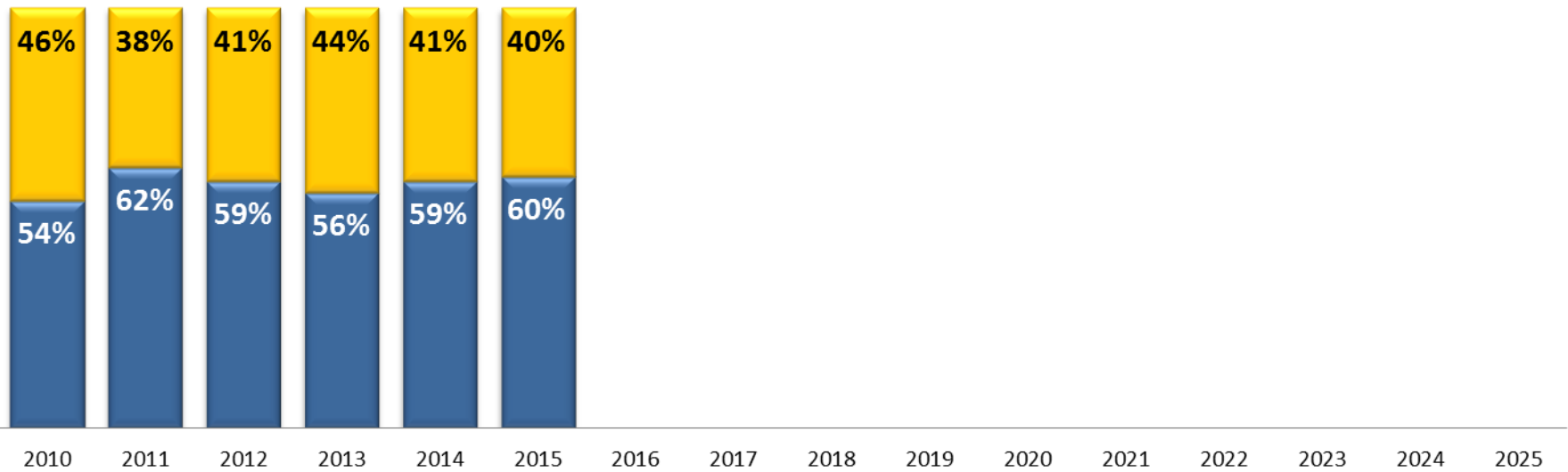


€/kWh 2015
 €/kWh_elèctric= 0,148
 €/kWh_gas= 0,059
 €/kWh_energia= 0,112

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— €/KWh_elèctric	0,156	0,156	0,156	0,156	0,138	0,148										
— €/KWh_gas	0,044	0,044	0,044	0,044	0,063	0,059										
— €/KWh_energia	0,105	0,113	0,110	0,107	0,107	0,112										

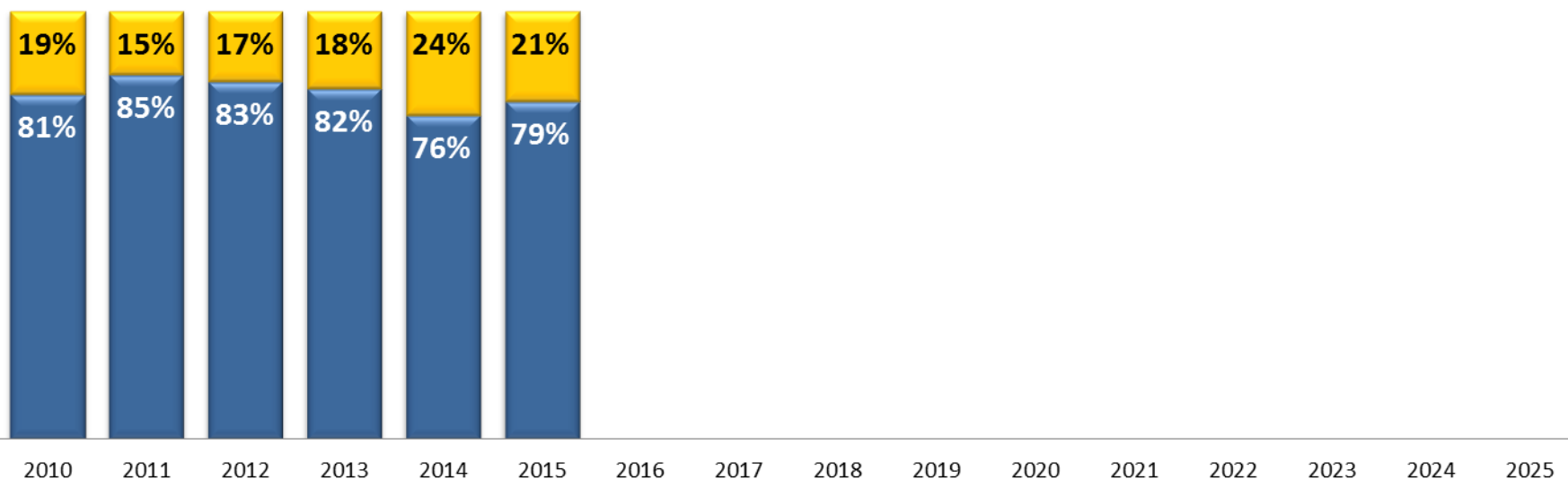
Campus Terrassa

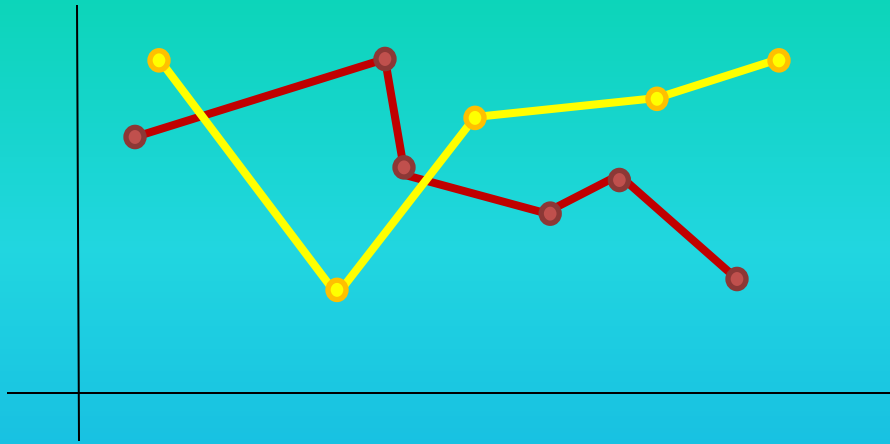
Consum energia (%kWh_elèctric i %kWh_gas)



Campus Terrassa

Consum energia (%€_elèctric i %€_gas)

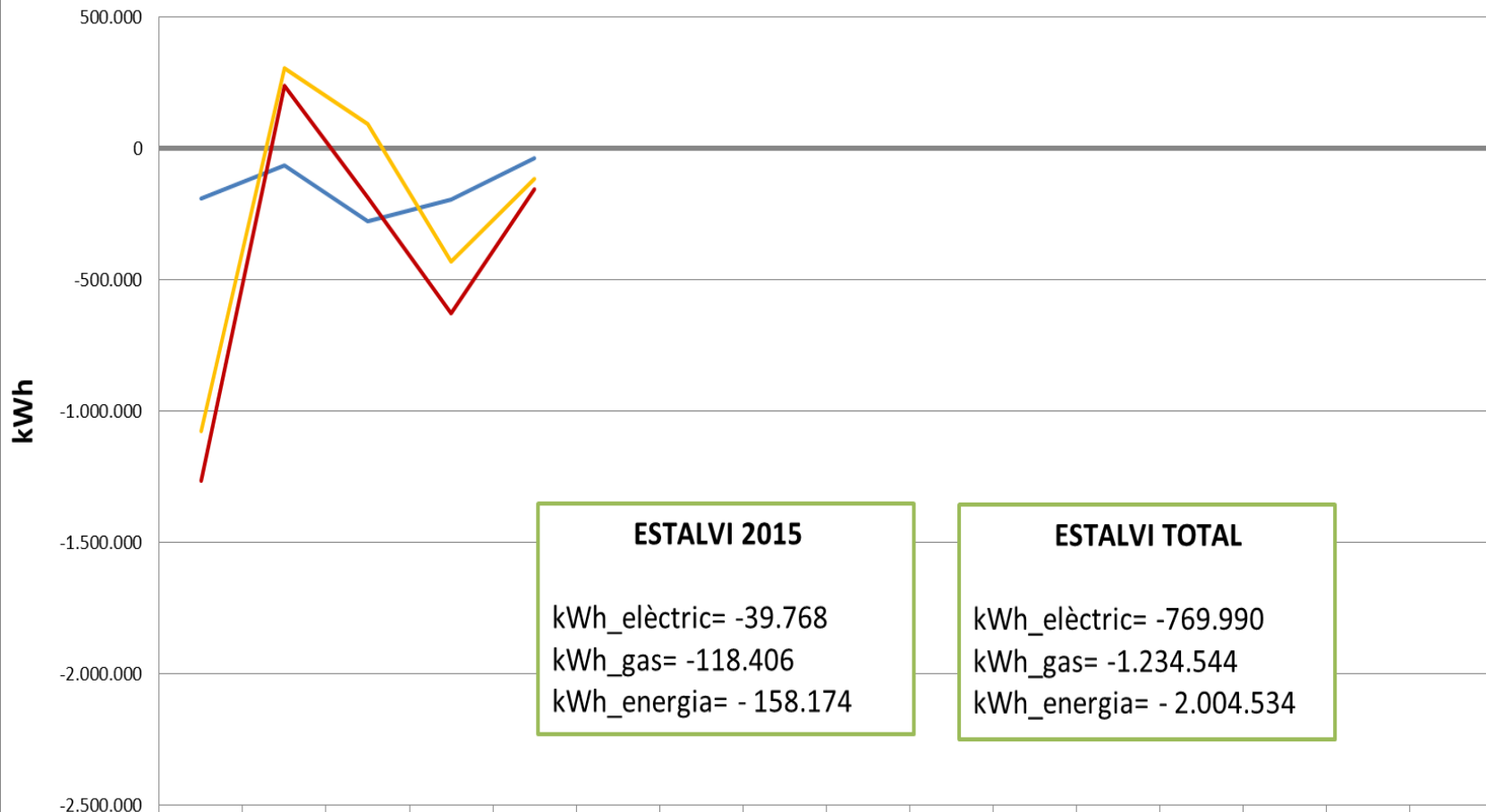




ESTALVIS anuals

Campus Terrassa 2015

kWh ESTALVI respecte l'any anterior Campus Terrassa



ESTALVI 2015

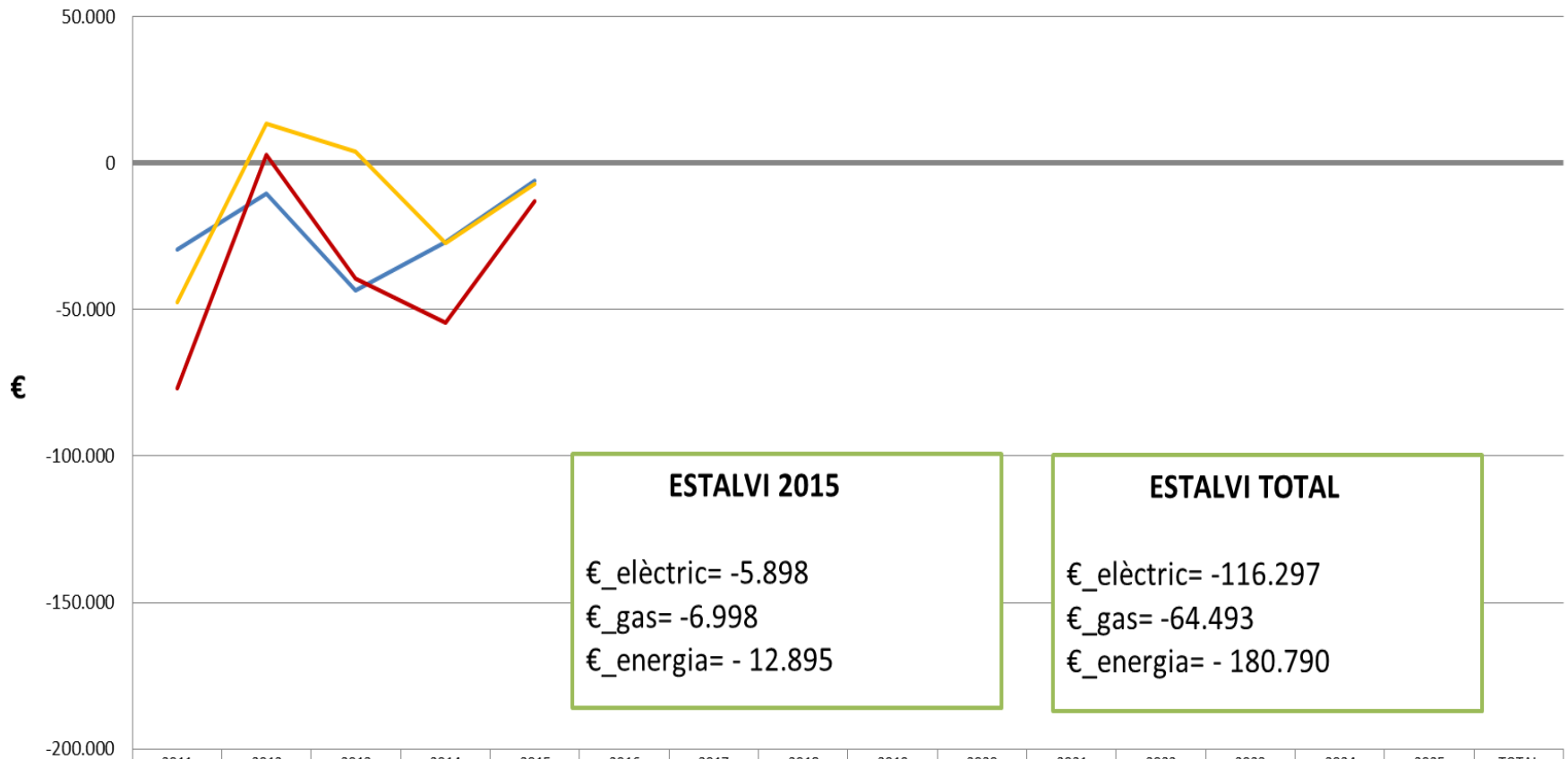
kWh_elèctric= -39.768
 kWh_gas= -118.406
 kWh_energia= -158.174

ESTALVI TOTAL

kWh_elèctric= -769.990
 kWh_gas= -1.234.544
 kWh_energia= -2.004.534

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
— kWh_elèctric	-189.943	-67.194	-277.784	-195.301	-39.768											-769.990
— kWh_gas	-1.077.412	303.637	89.851	-432.214	-118.406											-1.234.544
— kWh_energia	-1.267.355	236.443	-187.933	-627.515	-158.174											-2.004.534

€ ESTALVI respecte l'any anterior Campus Terrassa

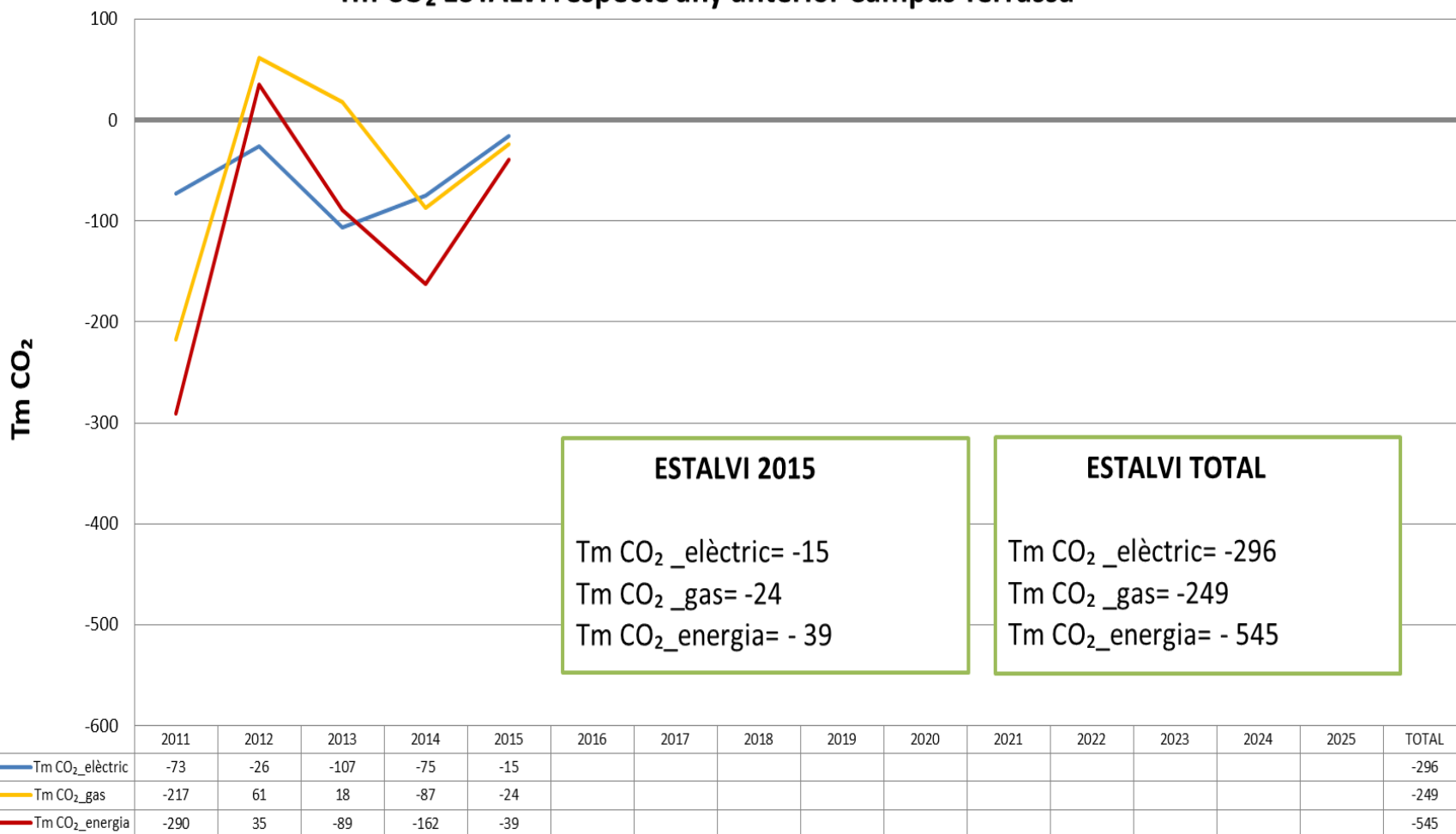


ESTALVI 2015
 €_elèctric= -5.898
 €_gas= -6.998
 €_energia= - 12.895

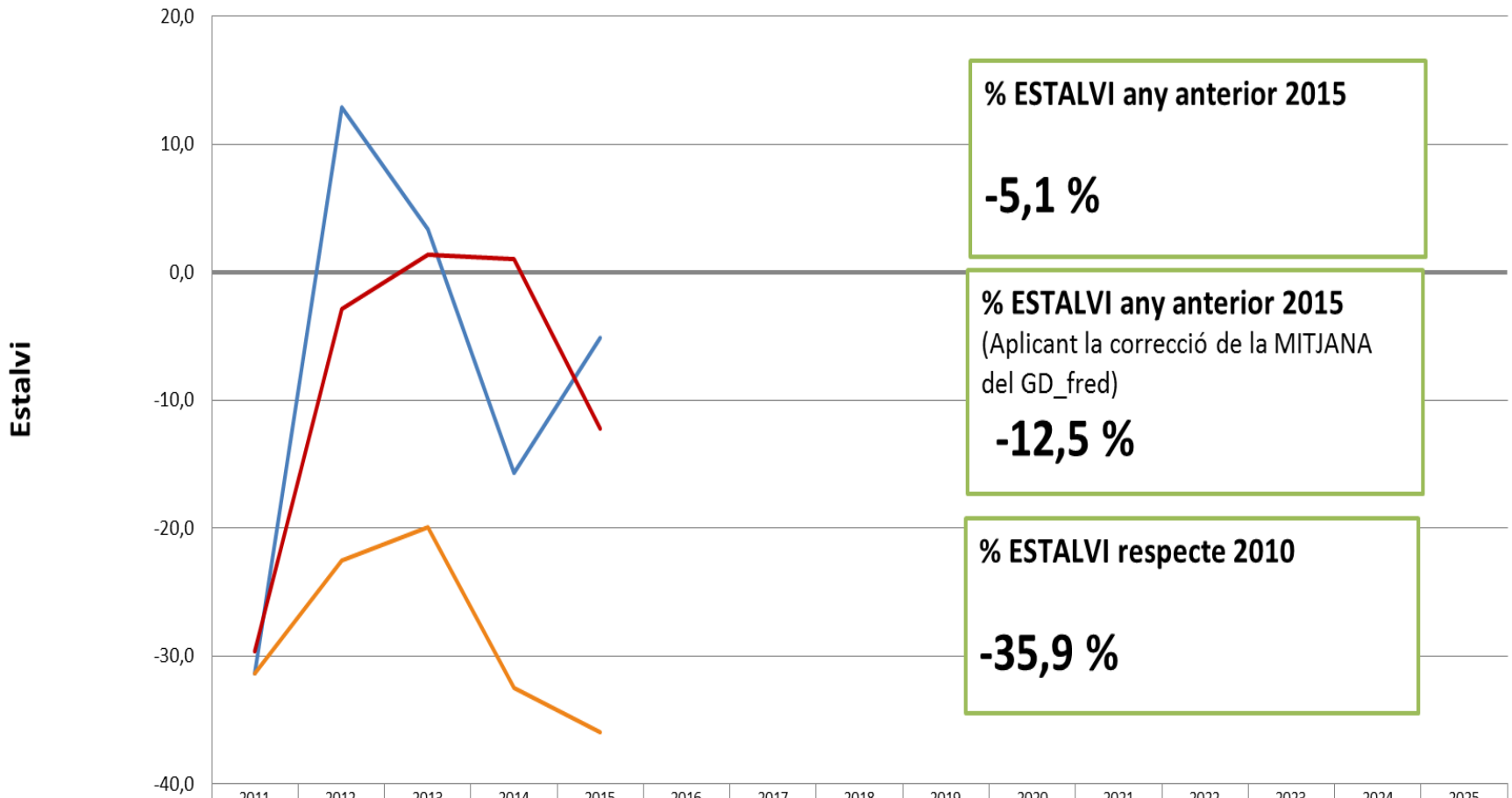
ESTALVI TOTAL
 €_elèctric= -116.297
 €_gas= -64.493
 €_energia= - 180.790

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
€_elèctric	-29.631	-10.482	-43.334	-26.952	-5.898											-116.297
€_gas	-47.406	13.360	3.953	-27.402	-6.998											-64.493
€_energia	-77.037	2.878	-39.381	-54.354	-12.895											-180.790

Tm CO₂ ESTALVI respecte any anterior Campus Terrassa

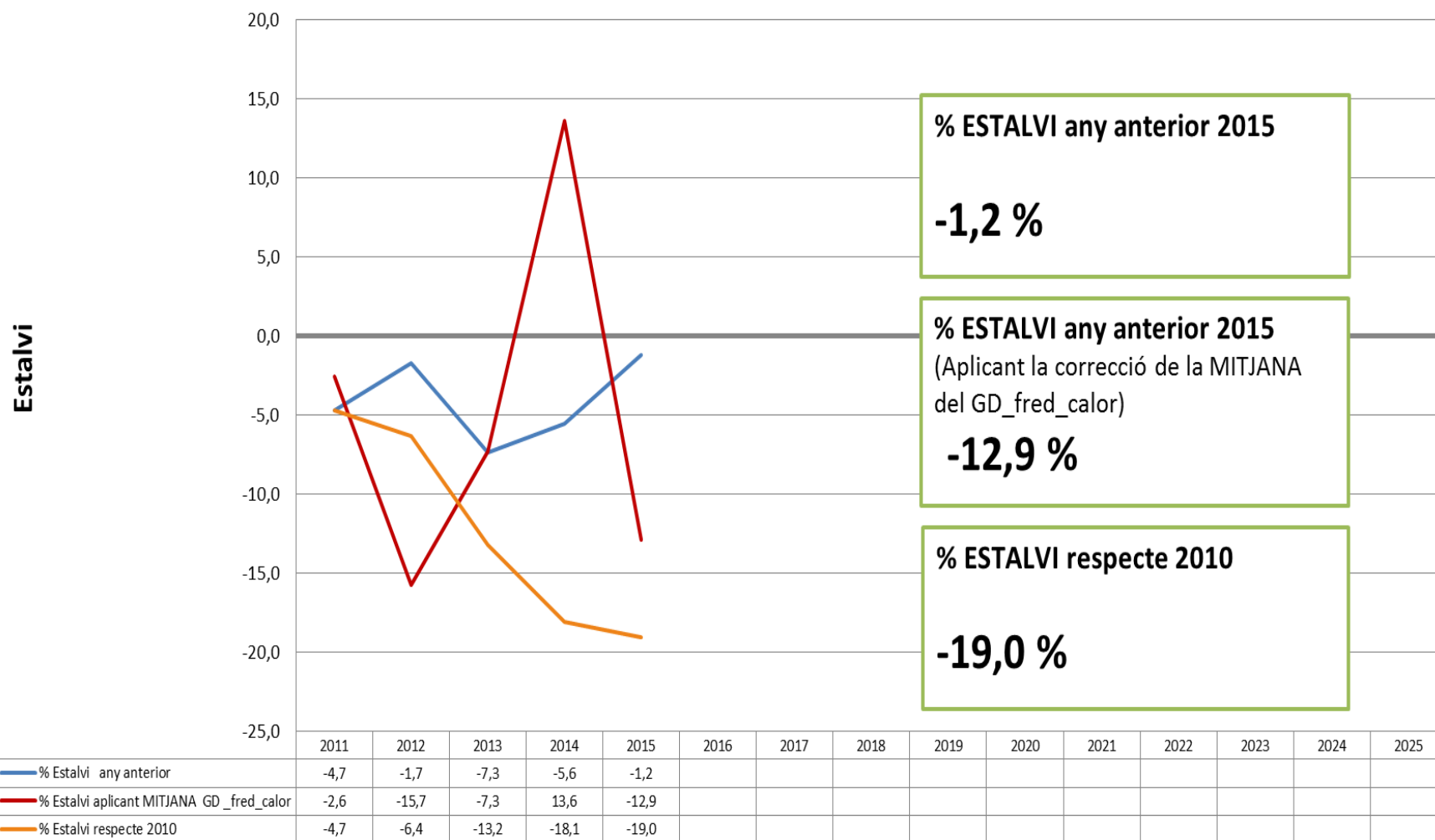


% d'ESTALVI GAS Campus Terrassa

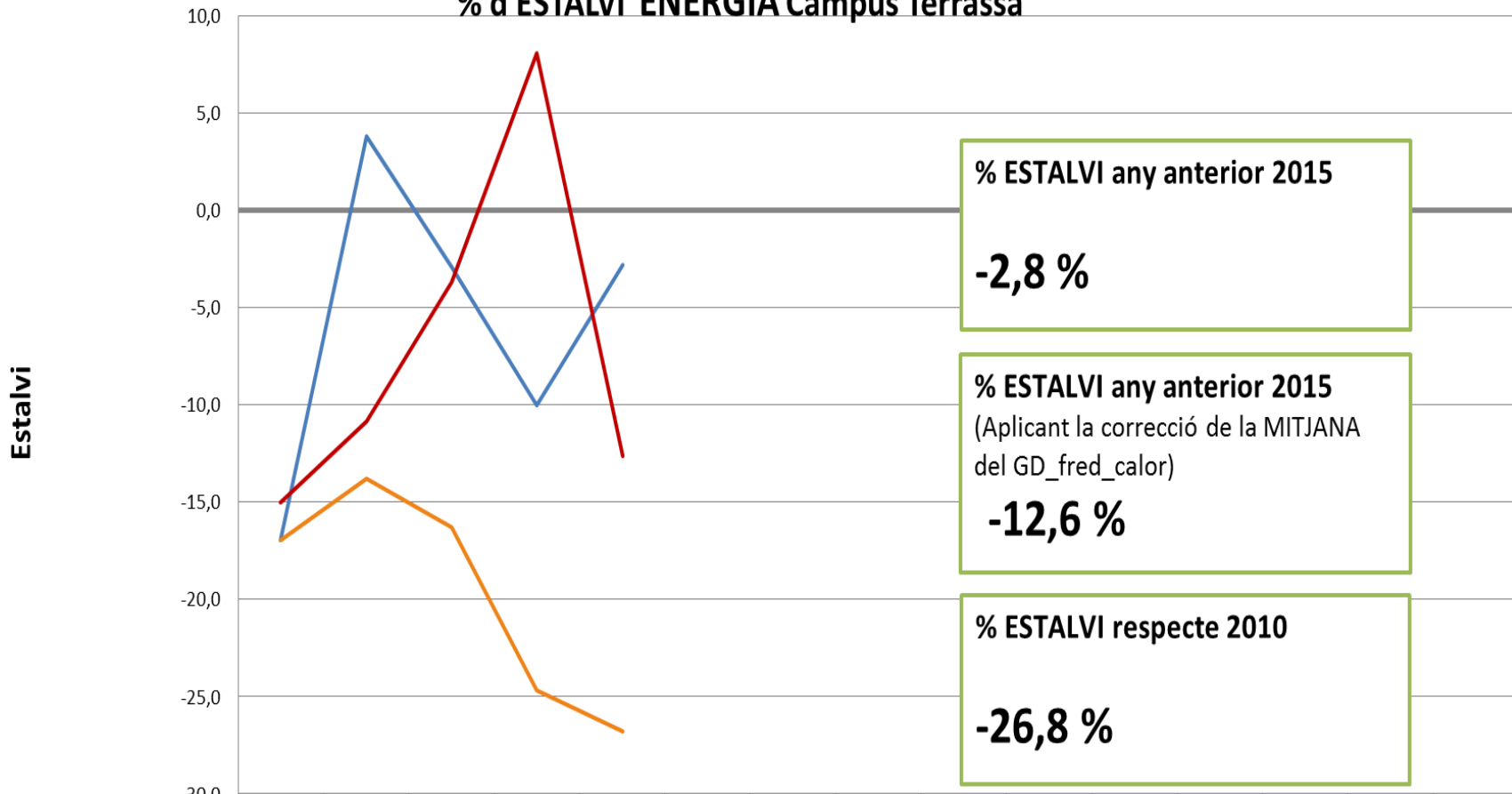


	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— % Estalvi any anterior	-31,4	12,9	3,4	-15,7	-5,1										
— % Estalvi aplicant MITJANA GD_fred	-29,64	-2,86	1,34	0,97	-12,25										
— % Estalvi respecte 2010	-31,4	-22,5	-19,9	-32,5	-35,9										

% d'ESTALVI ELECTRICITAT Campus Terrassa



% d'ESTALVI ENERGIA Campus Terrassa



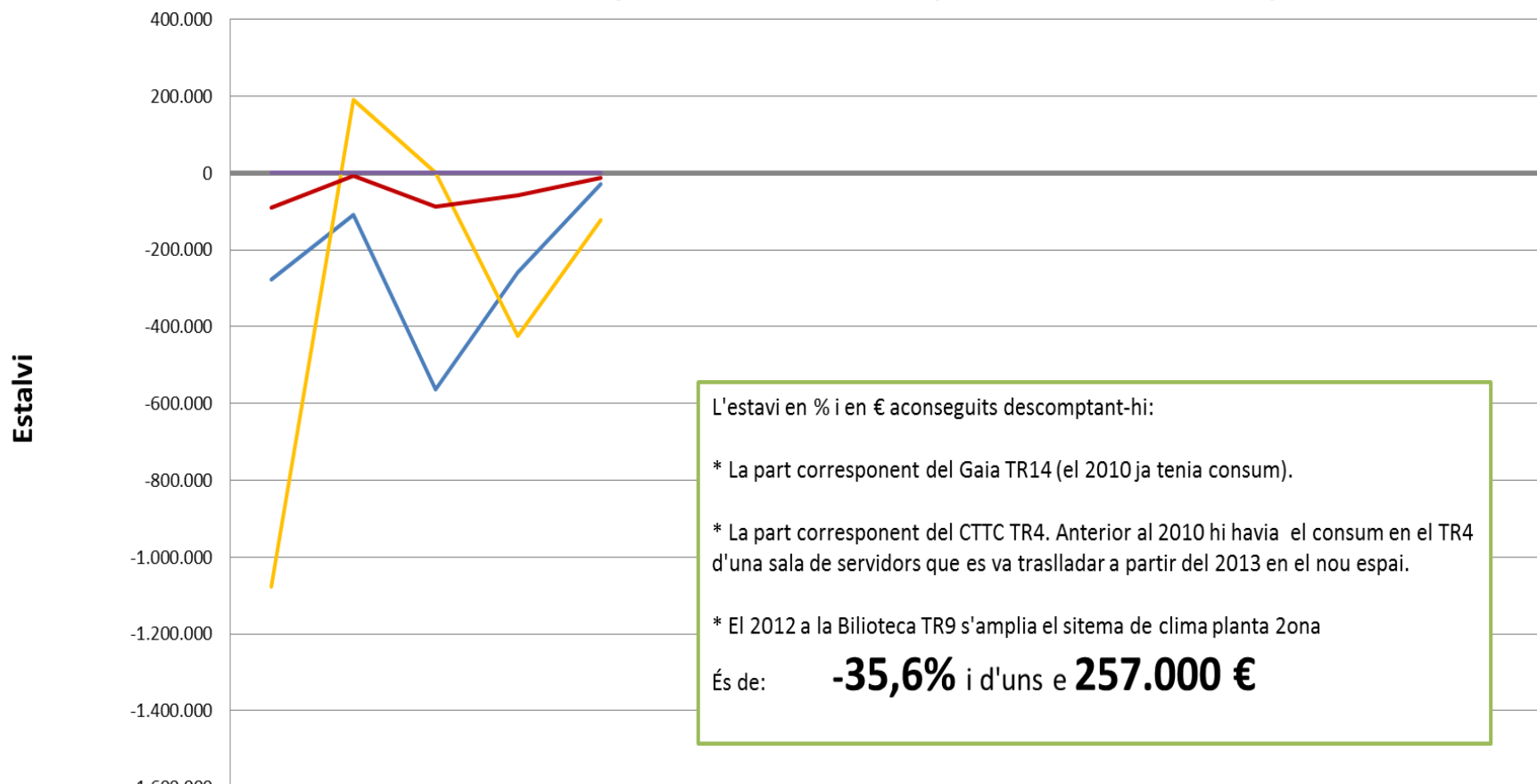
% ESTALVI any anterior 2015
-2,8 %

% ESTALVI any anterior 2015
(Aplicant la correcció de la MITJANA del GD_fred_calor)
-12,6 %

% ESTALVI respecte 2010
-26,8 %

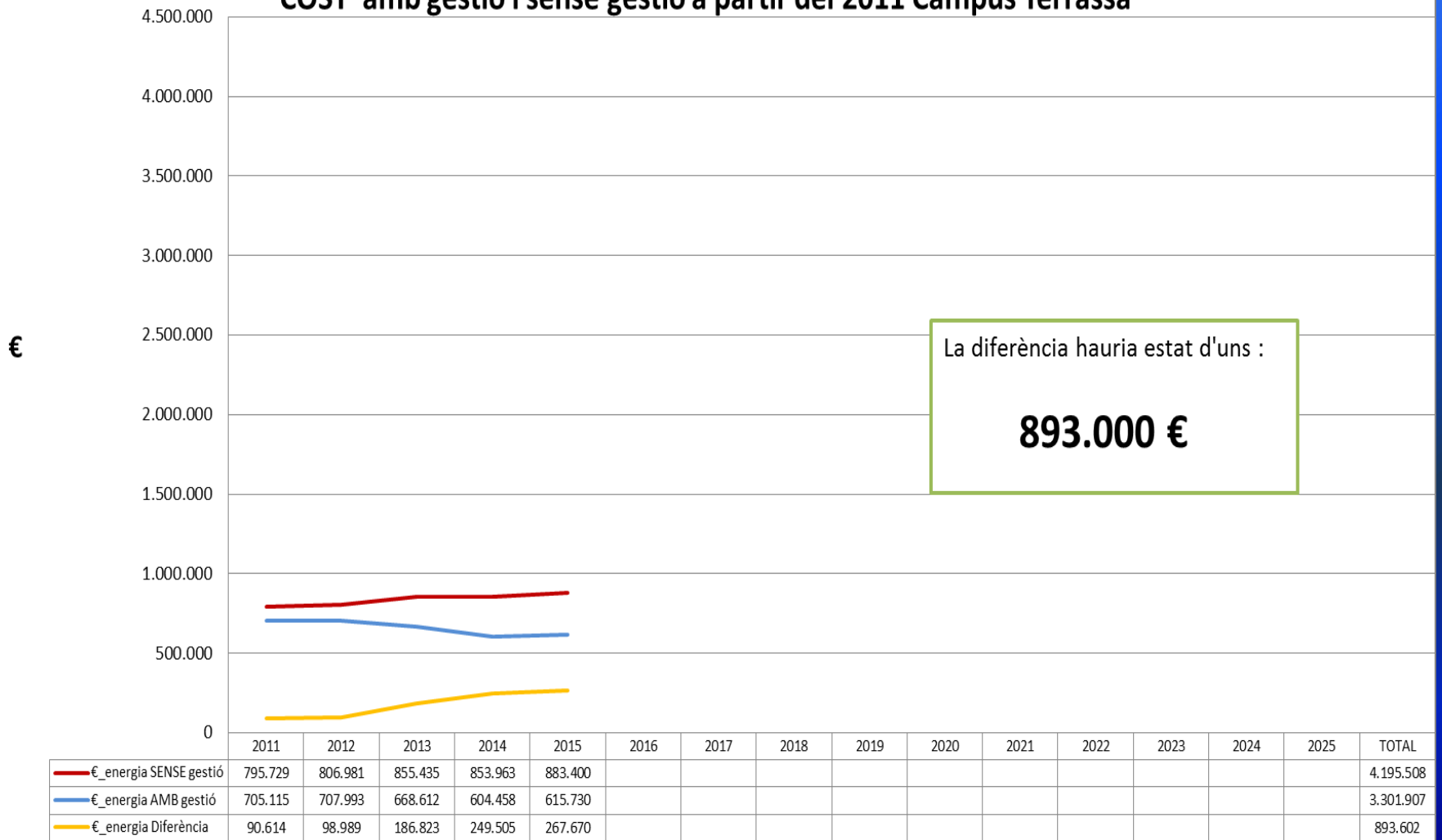
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— % Estalvi any anterior	-16,9	3,8	-2,9	-10,0	-2,8										
— % Estalvi aplicant MITJANA GD_fred_calor	-15,0	-10,8	-3,7	8,1	-12,6										
— % Estalvi respecte 2010	-16,9	-13,8	-16,3	-24,7	-26,8										

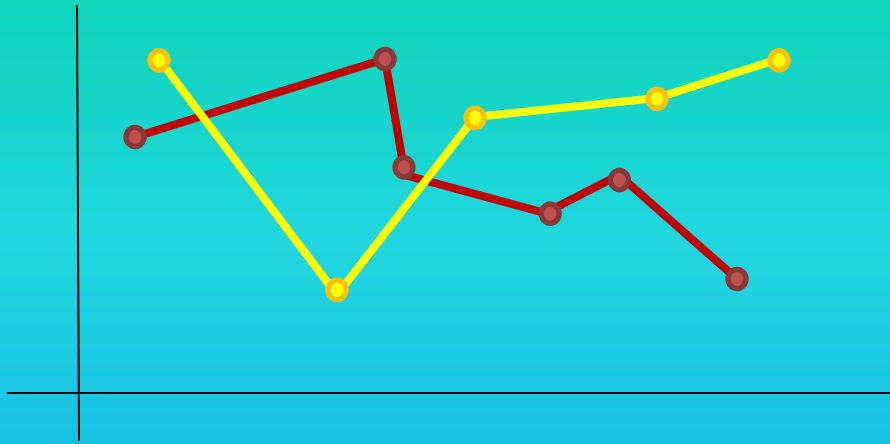
ESTALVI restant les noves aportacions de consum (GAIA, CTTC i Biblioteca)



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
— kWh_elèctric any anterior	-276.973	-107.782	-563.269	-258.869	-28.007											-1.234.900
— kWh_gas any anterior	-1.077.412	191.797	804	-423.613	-121.937											-1.430.361
— € d'estalvi any anterior	-90.614	-8.375	-87.835	-59.023	-11.596											-257.442
— % d'estalvi respecte 2010	-18,1	-17,0	-24,5	-33,6	-35,6											

COST amb gestió i sense gestió a partir del 2011 Campus Terrassa



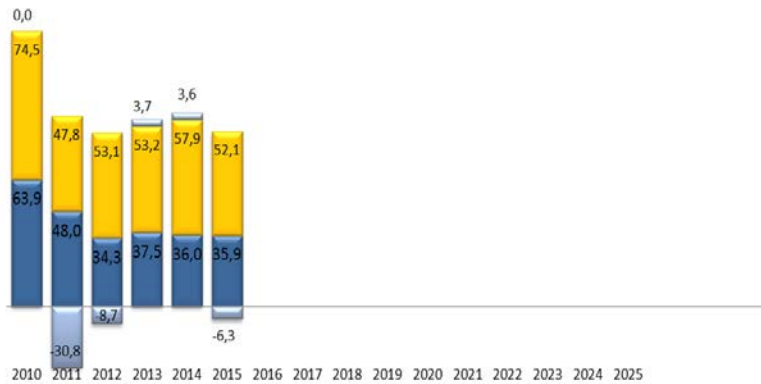


DADES anuals per edificis 2015

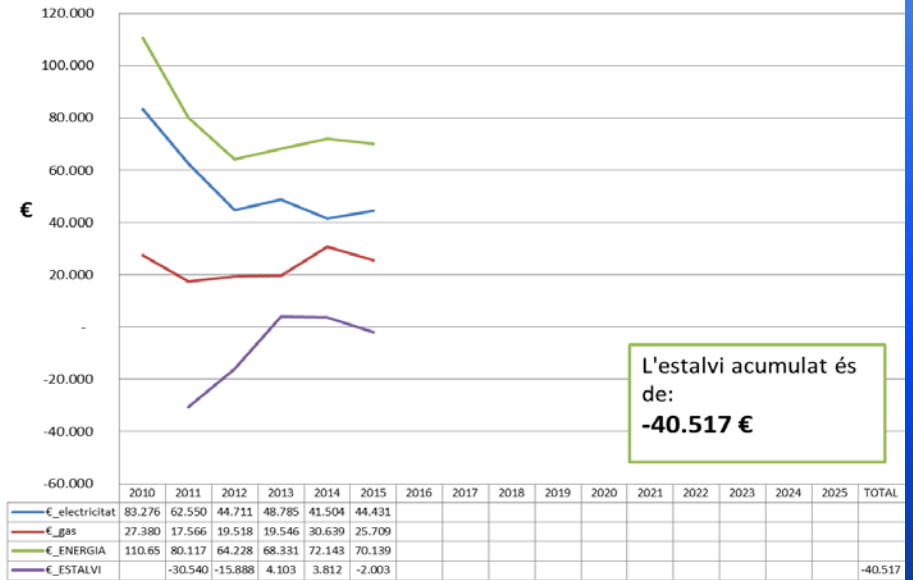
Campus Terrassa

TR1 Consum Energia (kWh/m²)

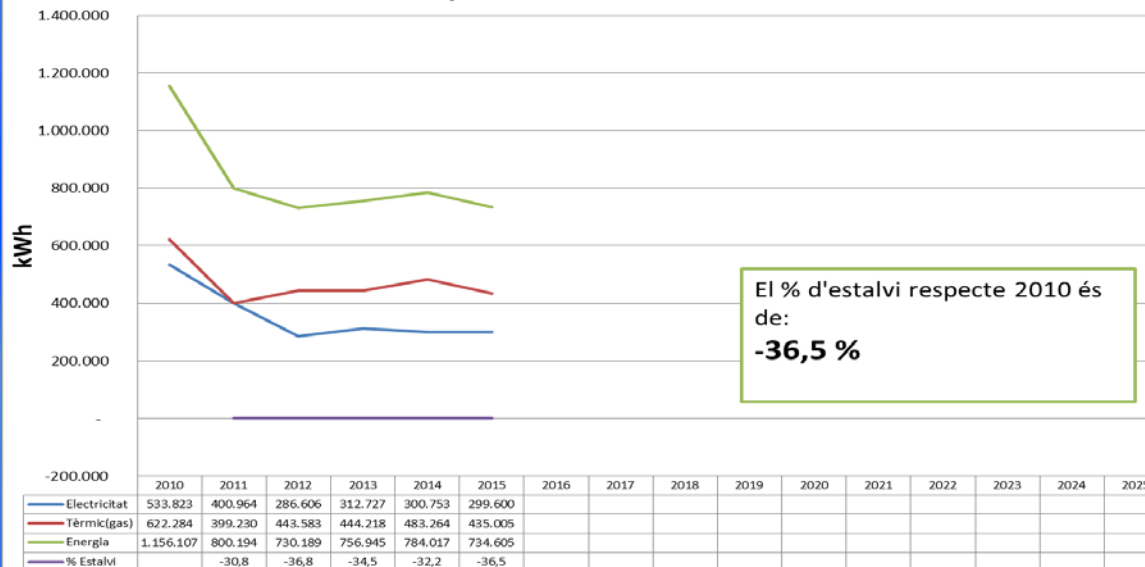
■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior



TR1 Campus Terrassa € Cost i € d'estalvi



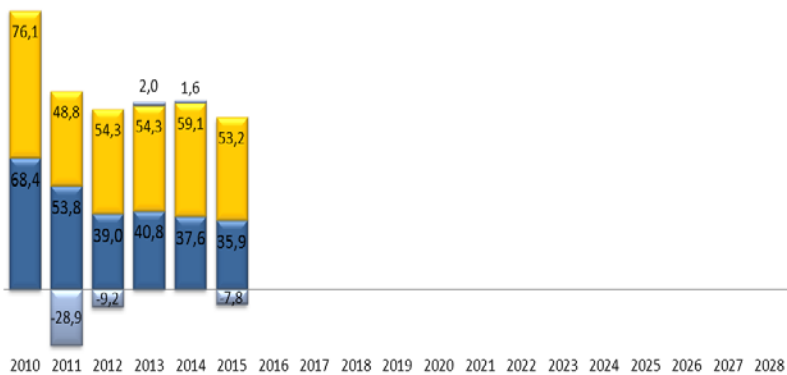
TR1 Campus Terrassa kWh i % Estalvi



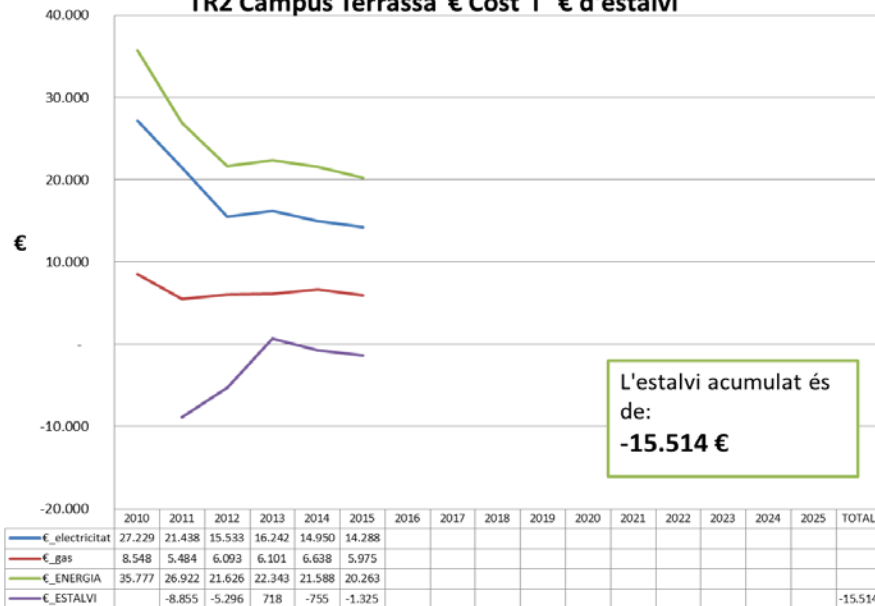
Campus Terrassa

TR2 Consum Energia (kWh/m²)

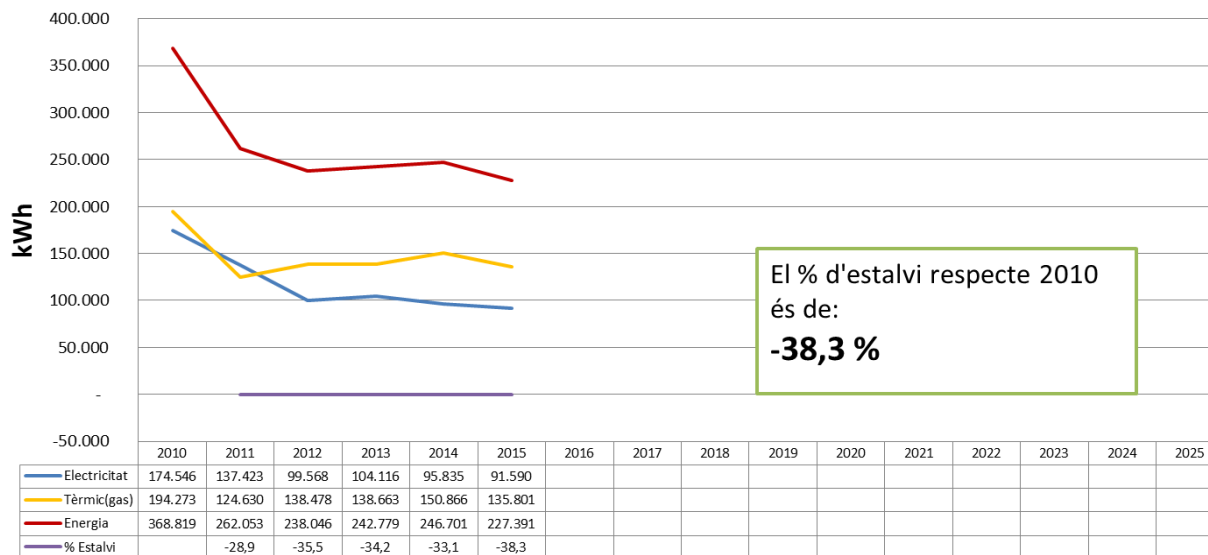
Electricitat Tèrmic(gas) % Evolució respecte any anterior



TR2 Campus Terrassa € Cost i € d'estalvi



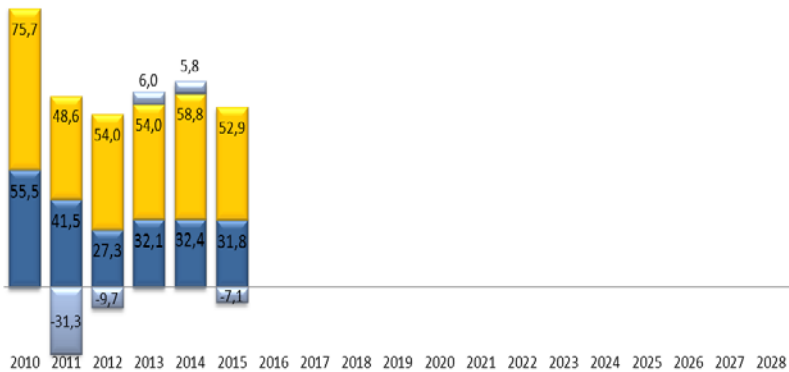
TR2 Campus Terrassa kWh i % Estalvi



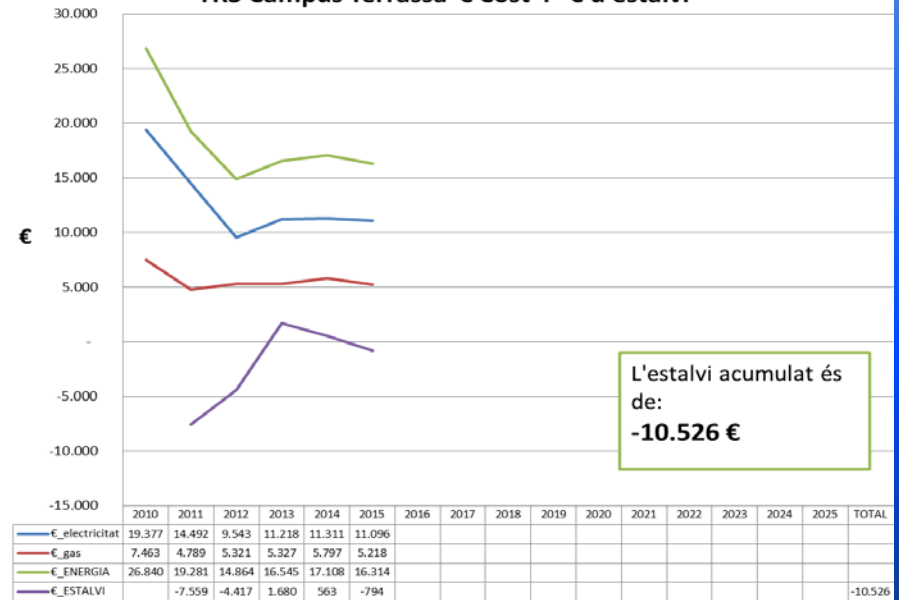
Campus Terrassa

TR3 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

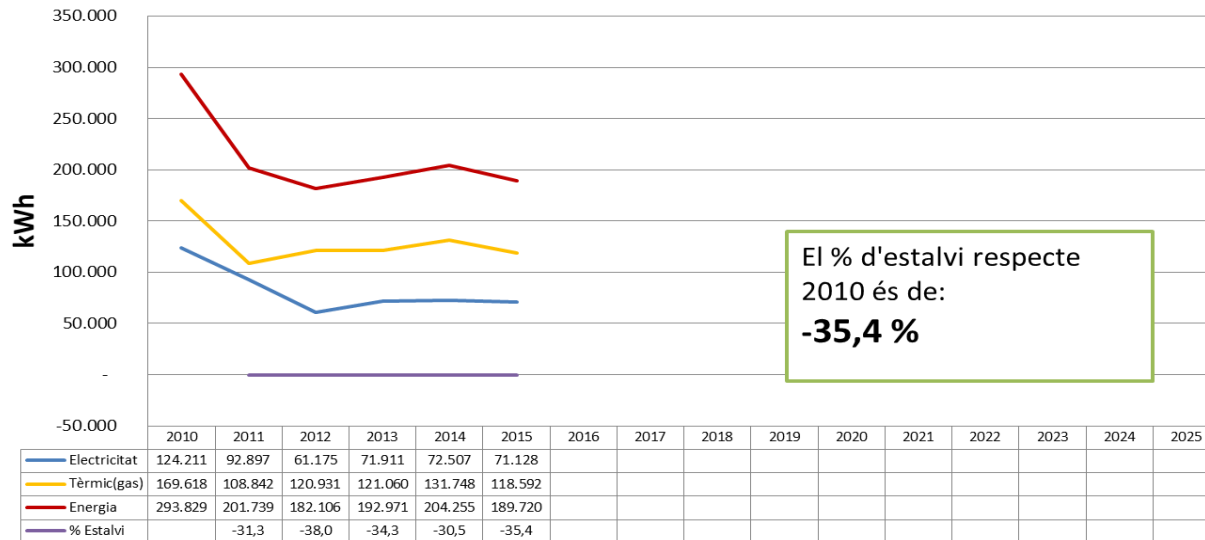


TR3 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-10.526 €

TR3 Campus Terrassa kWh i % Estalvi

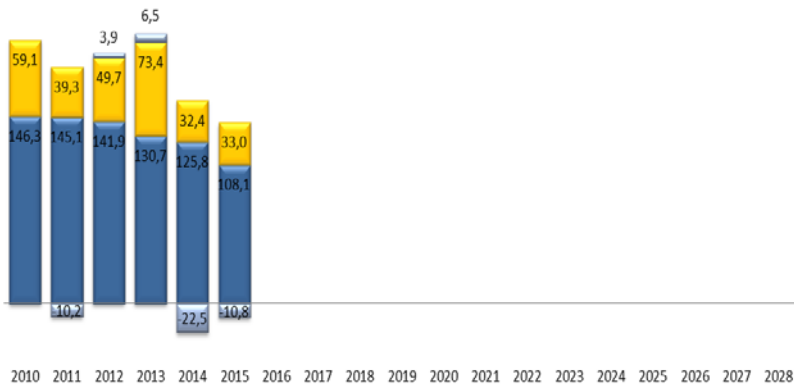


El % d'estalvi respecte 2010 és de:
-35,4 %

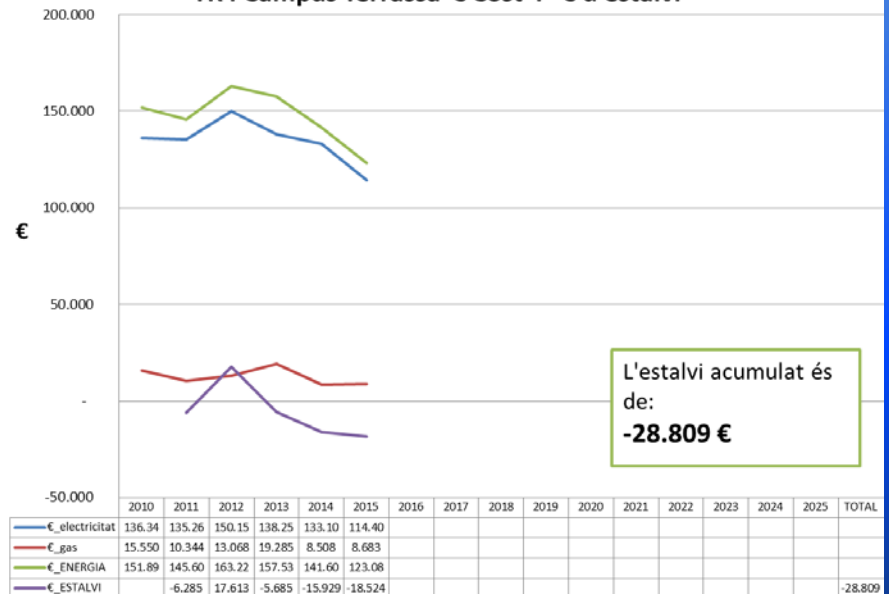
Campus Terrassa

TR4 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

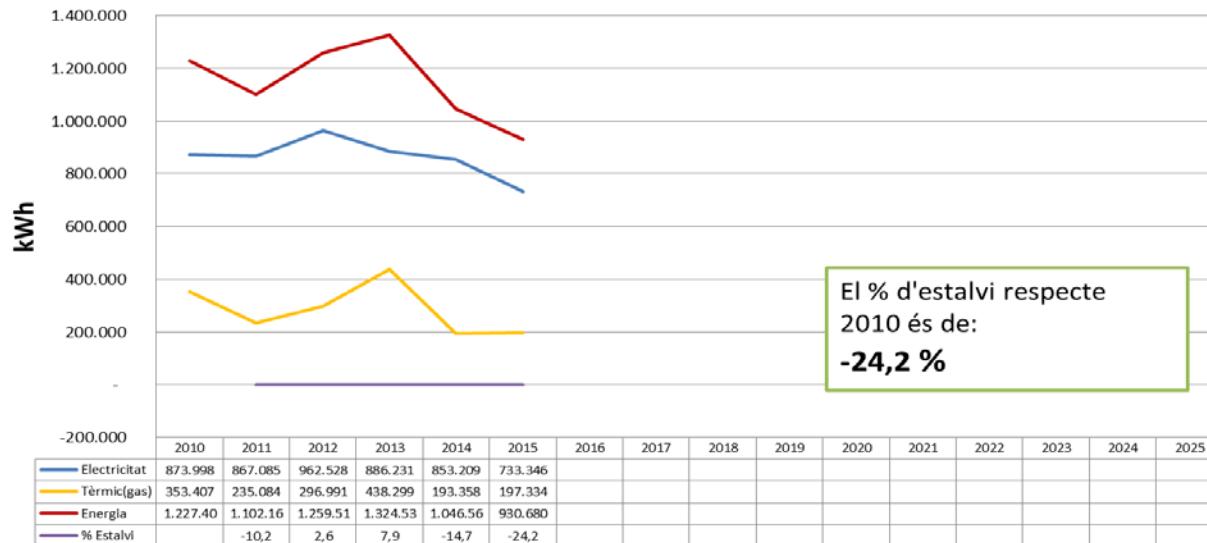


TR4 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-28.809 €

TR4 Campus Terrassa kWh i % Estalvi

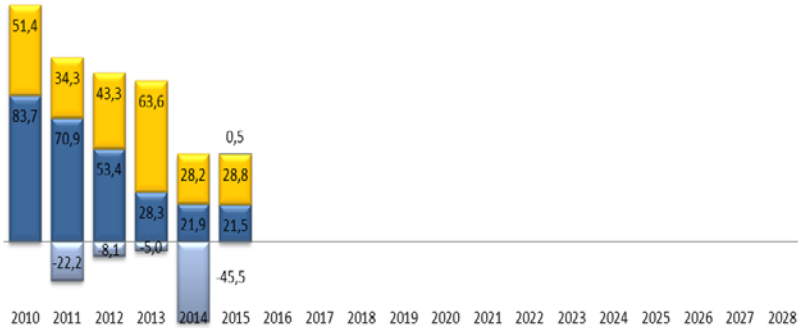


El % d'estalvi respecte 2010 és de:
-24,2 %

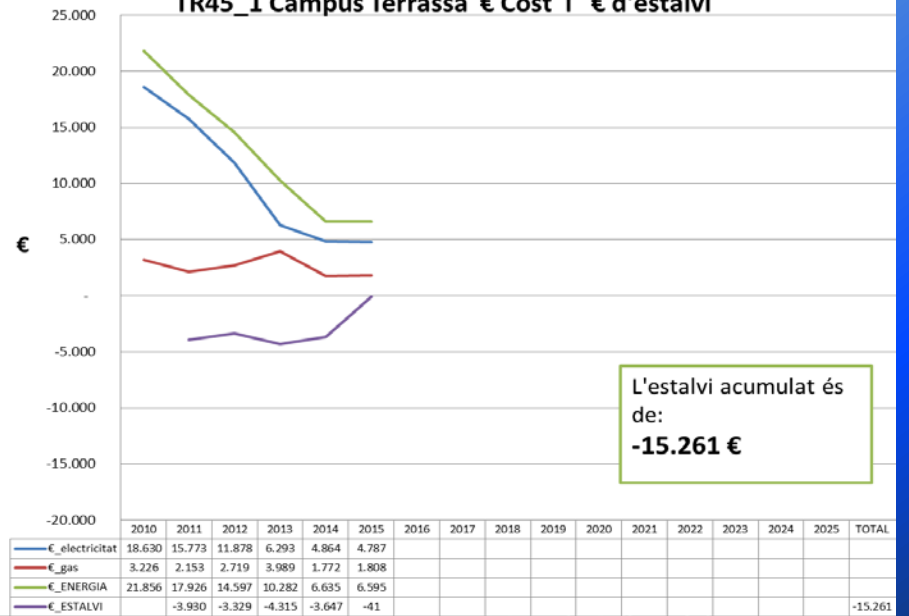
Campus Terrassa

TR45_1 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

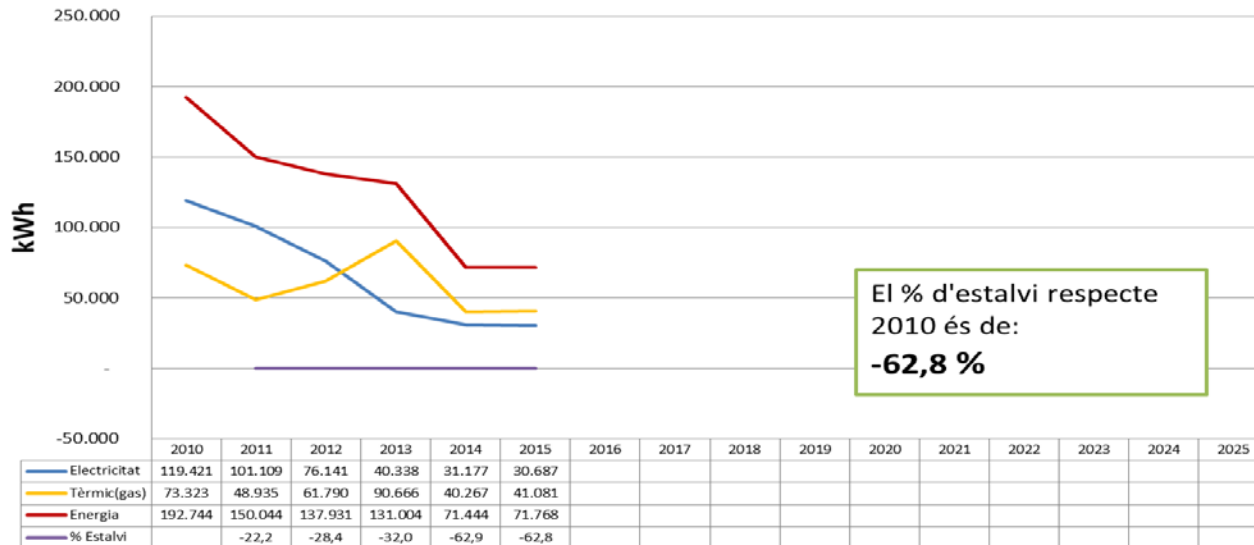


TR45_1 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-15.261 €

TR45_1 Campus Terrassa kWh i % Estalvi

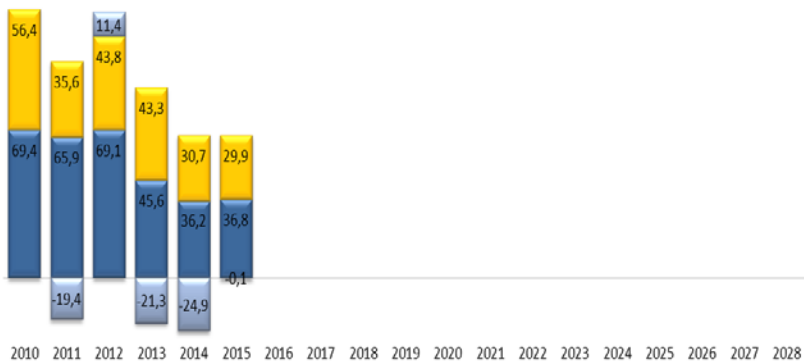


El % d'estalvi respecte 2010 és de:
-62,8 %

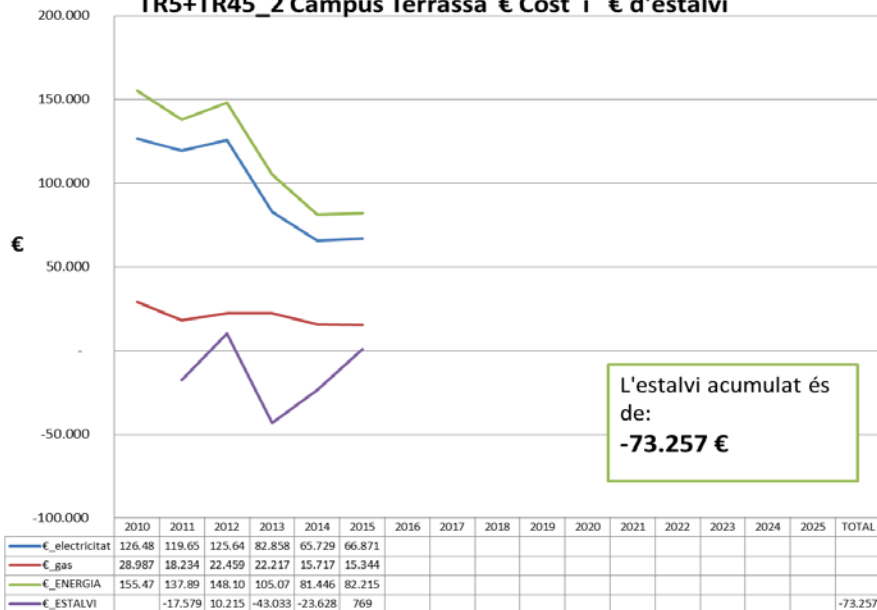
Campus Terrassa

TR5+TR45_2 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

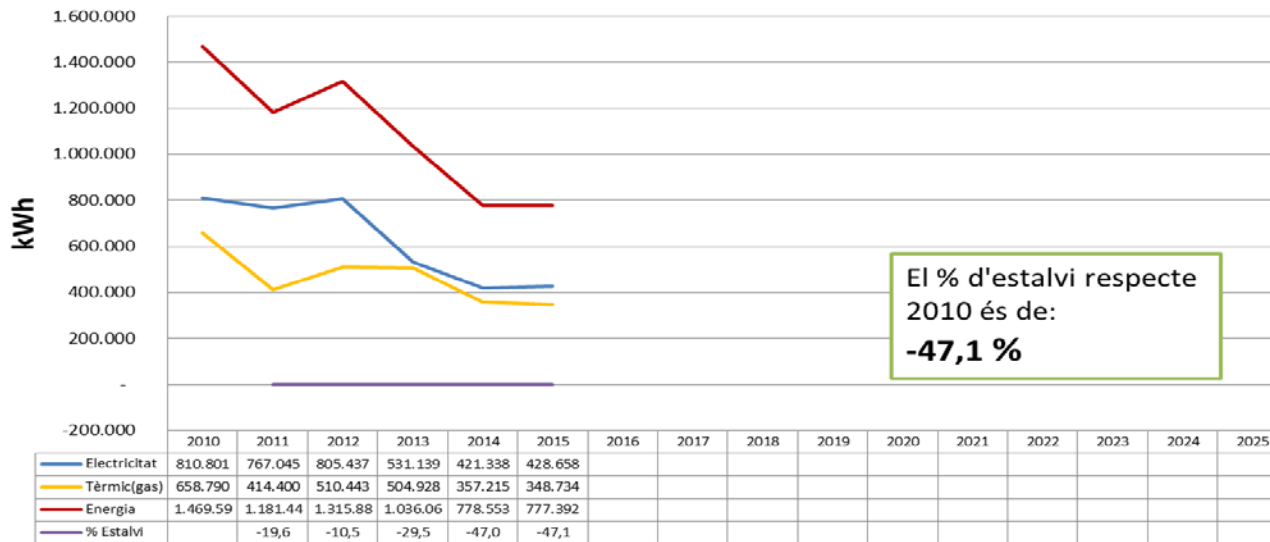


TR5+TR45_2 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-73.257 €

TR5+TR45_2 Campus Terrassa kWh

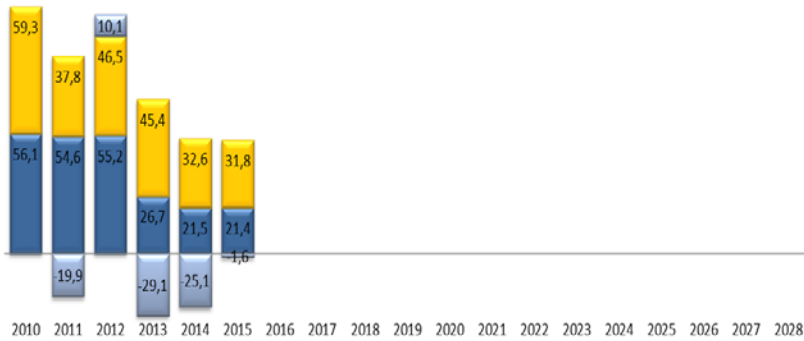


El % d'estalvi respecte 2010 és de:
-47,1 %

Campus Terrassa

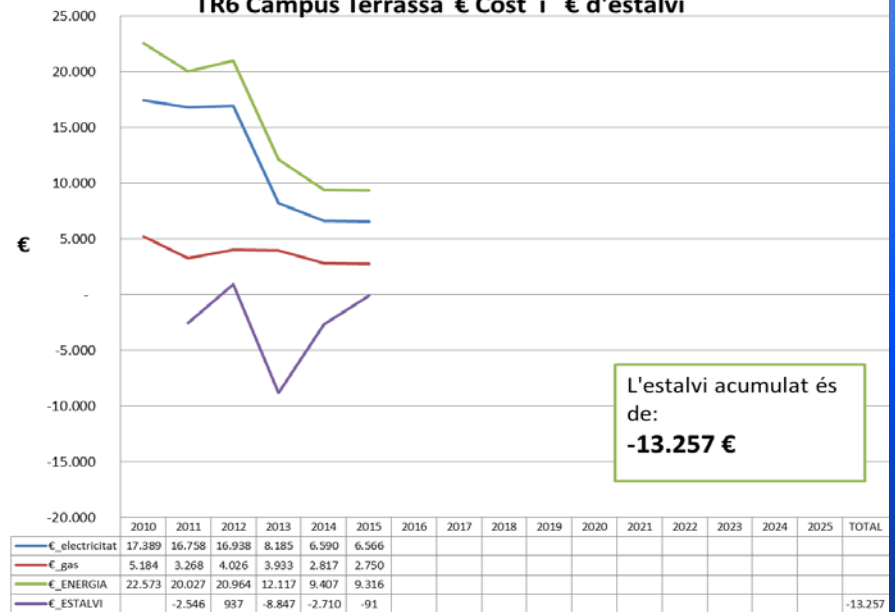
TR6 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior



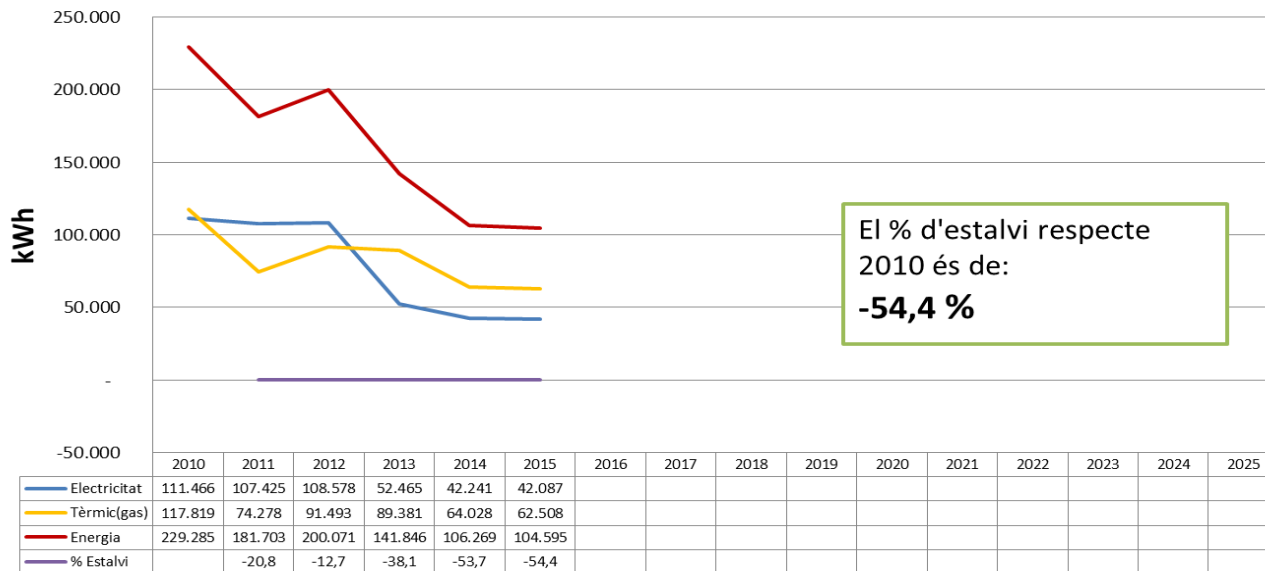
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028

TR6 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-13.257 €

TR6 Campus Terrassa kWh i % Estalvi

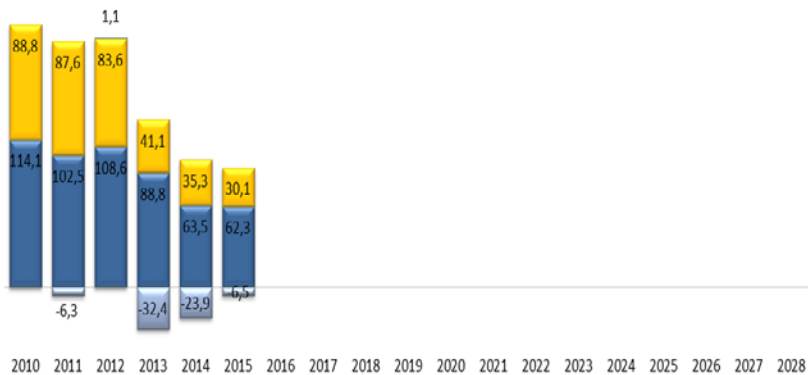


El % d'estalvi respecte 2010 és de:
-54,4 %

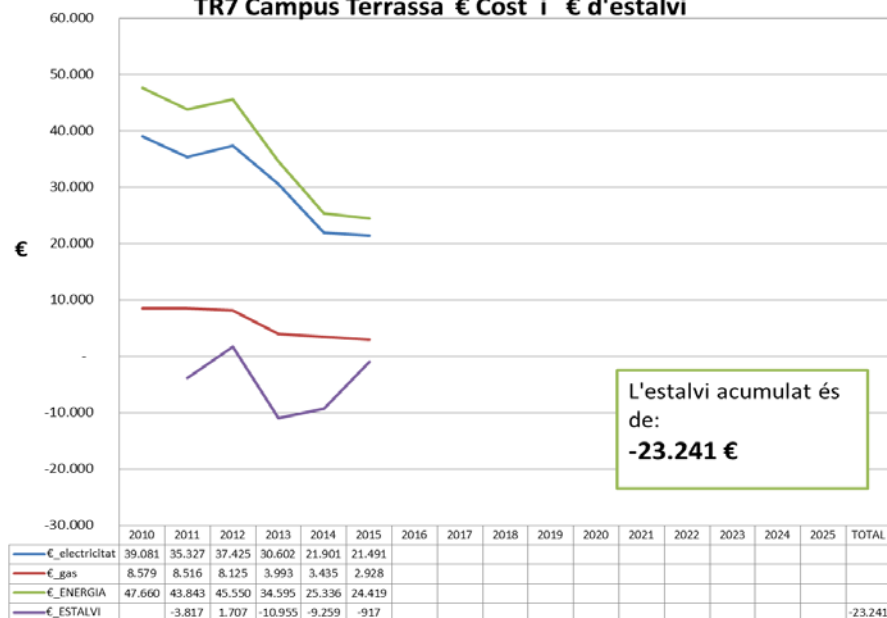
Campus Terrassa

TR7 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

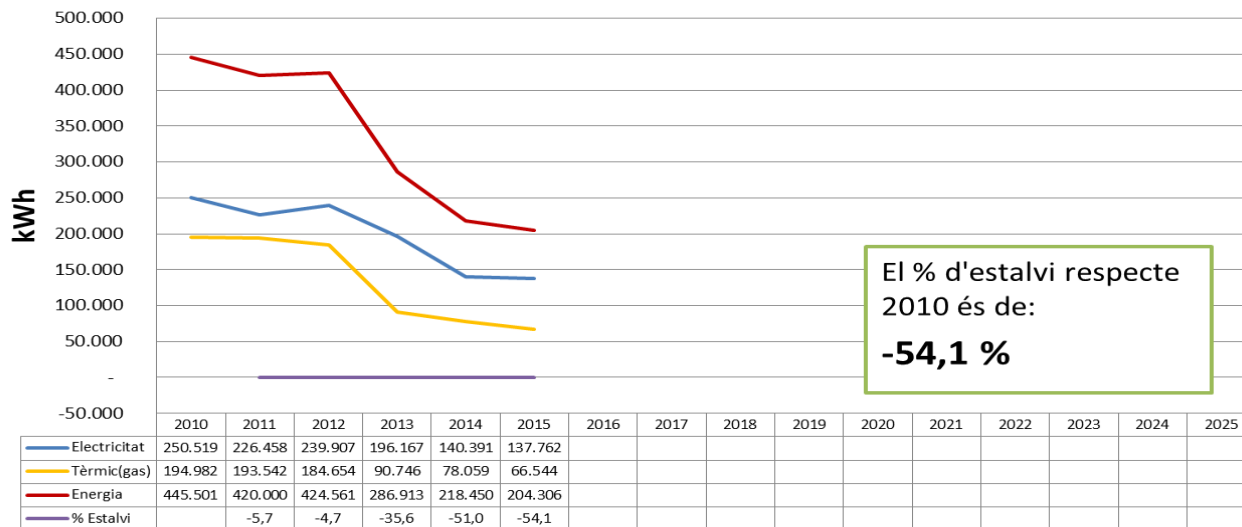


TR7 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-23.241 €

TR7 Campus Terrassa kWh i % Estalvi

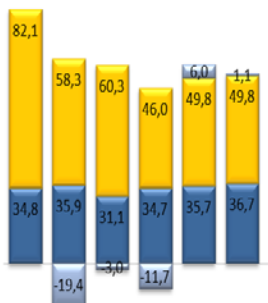


El % d'estalvi respecte 2010 és de:
-54,1 %

Campus Terrassa

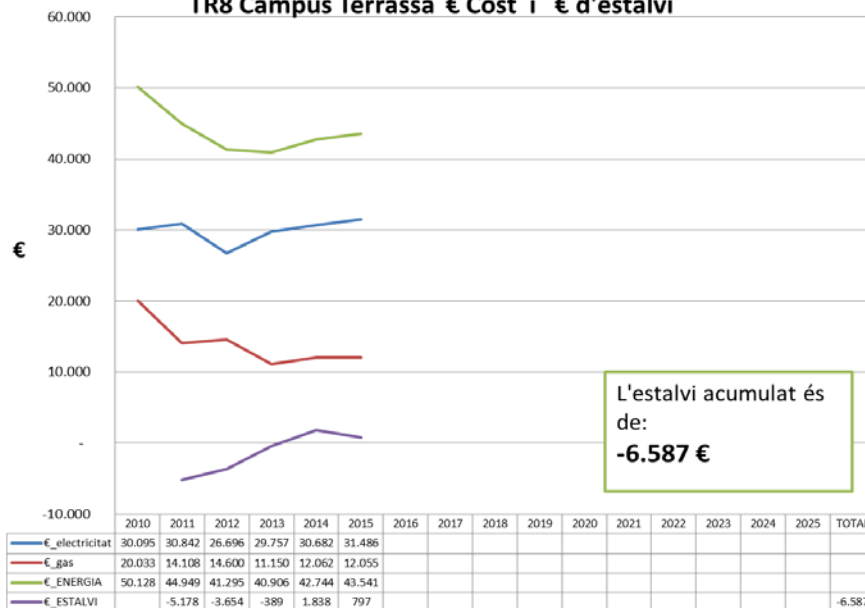
TR8 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior



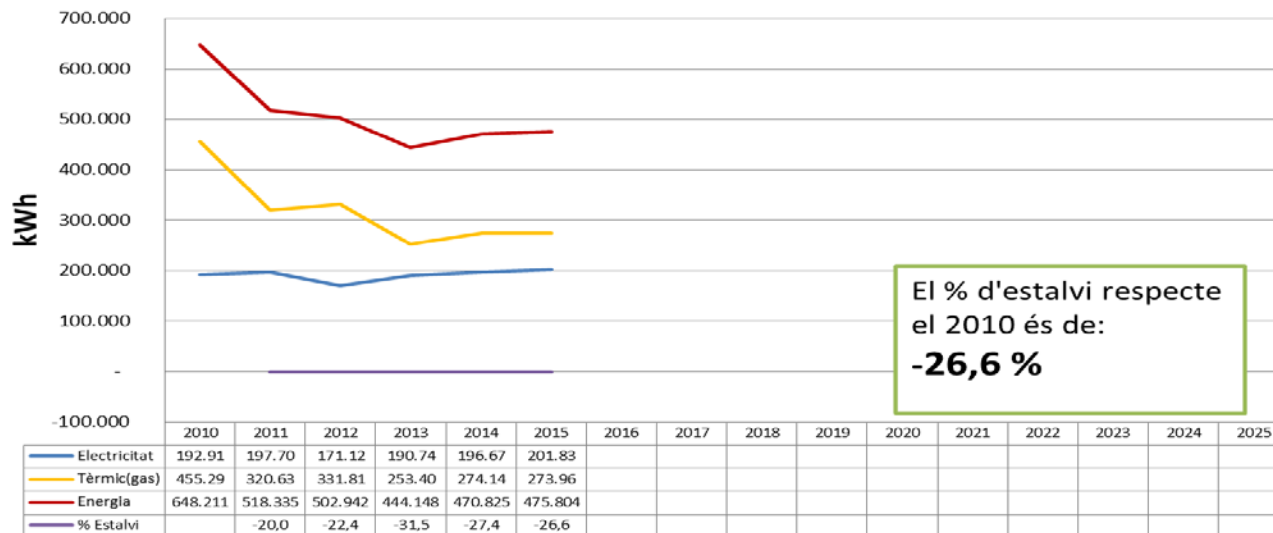
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028

TR8 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-6.587 €

TR8 Campus Terrassa kWh i % Estalvi

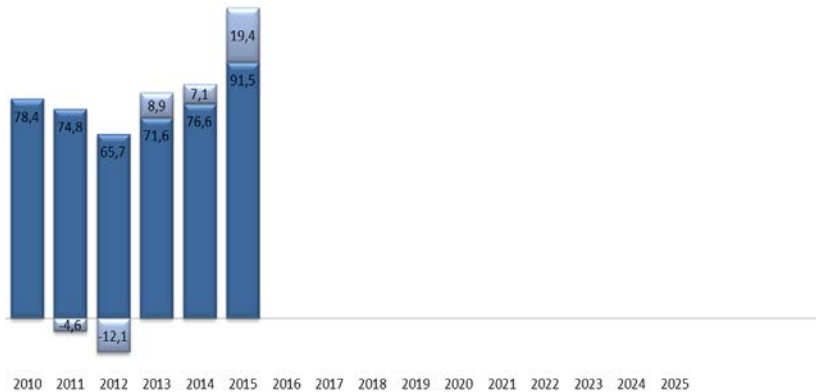


El % d'estalvi respecte el 2010 és de:
-26,6 %

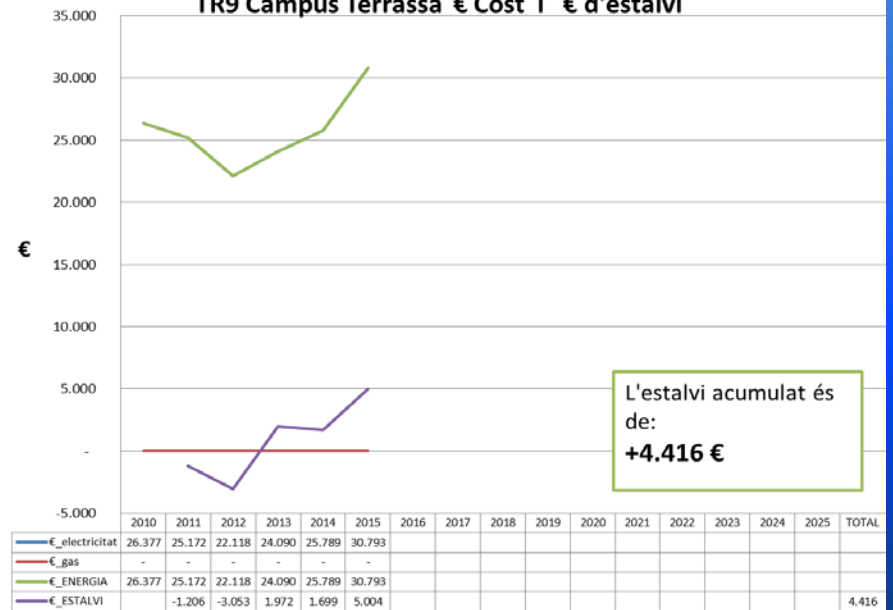
Campus Terrassa

TR9 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

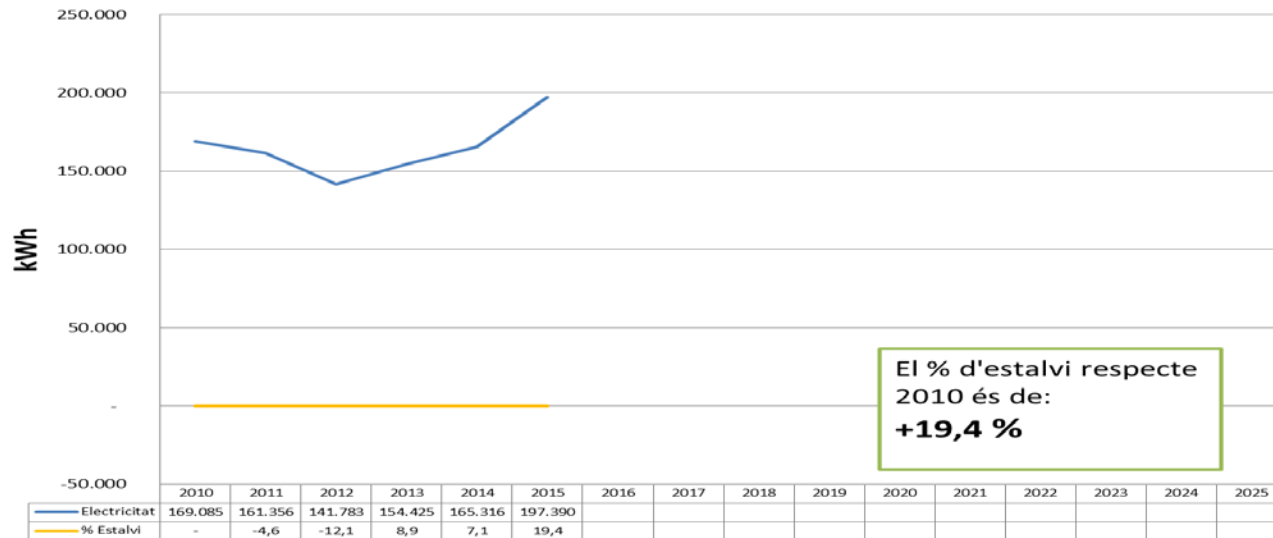


TR9 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
+4.416 €

TR9 Campus Terrassa kWh i % Estalvi

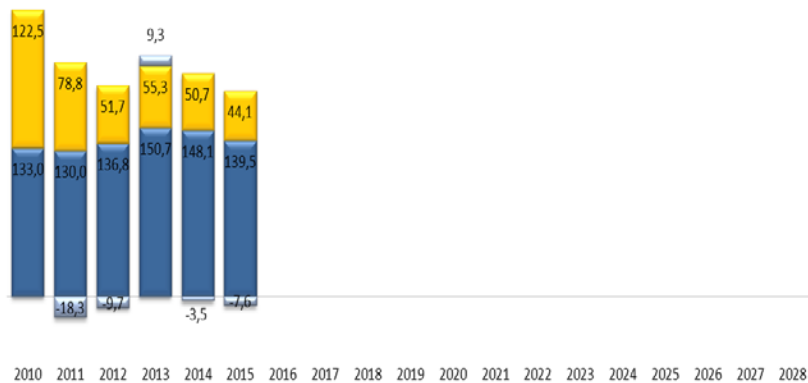


El % d'estalvi respecte 2010 és de:
+19,4 %

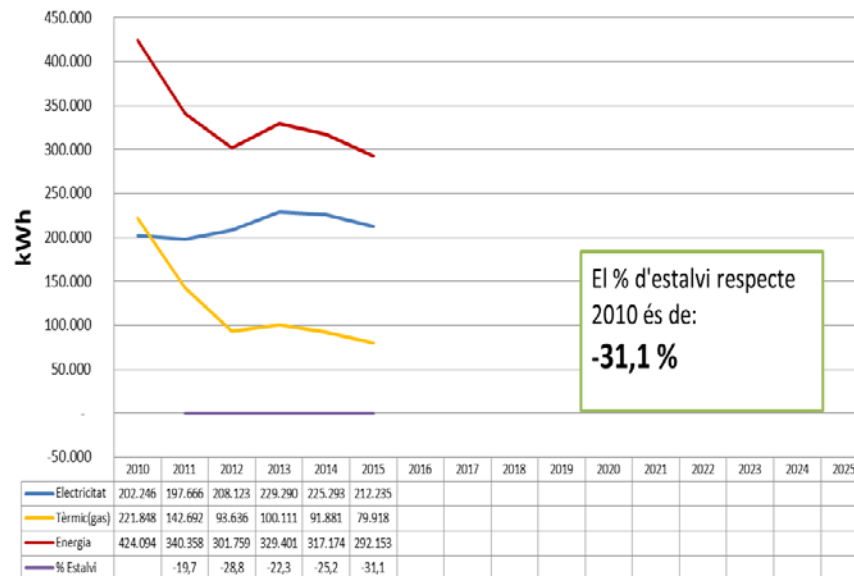
Campus Terrassa

TR10 Consum Energia (kWh/m²)

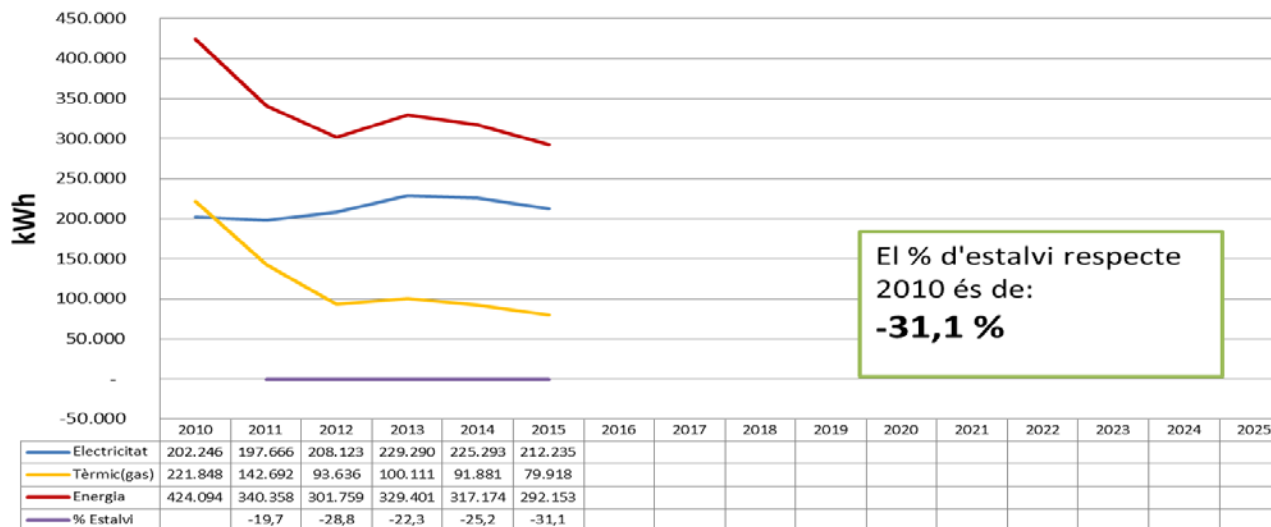
■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior



TR10 Campus Terrassa kWh i % Estalvi



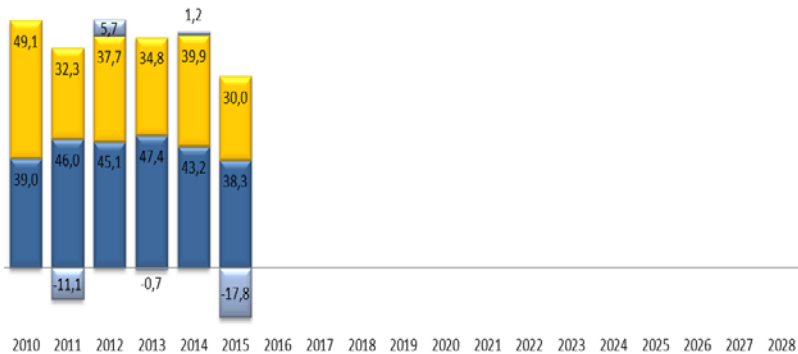
TR10 Campus Terrassa kWh i % Estalvi



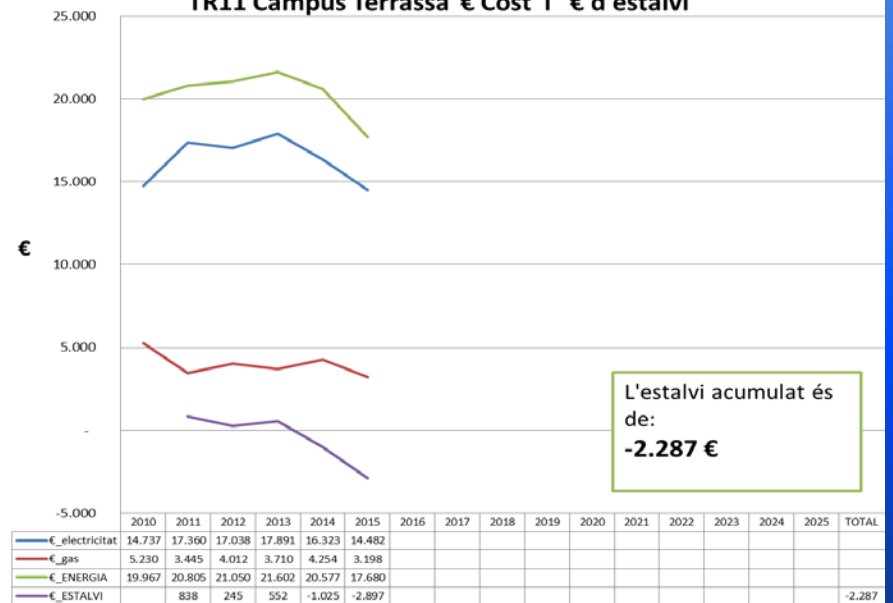
Campus Terrassa

TR11 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

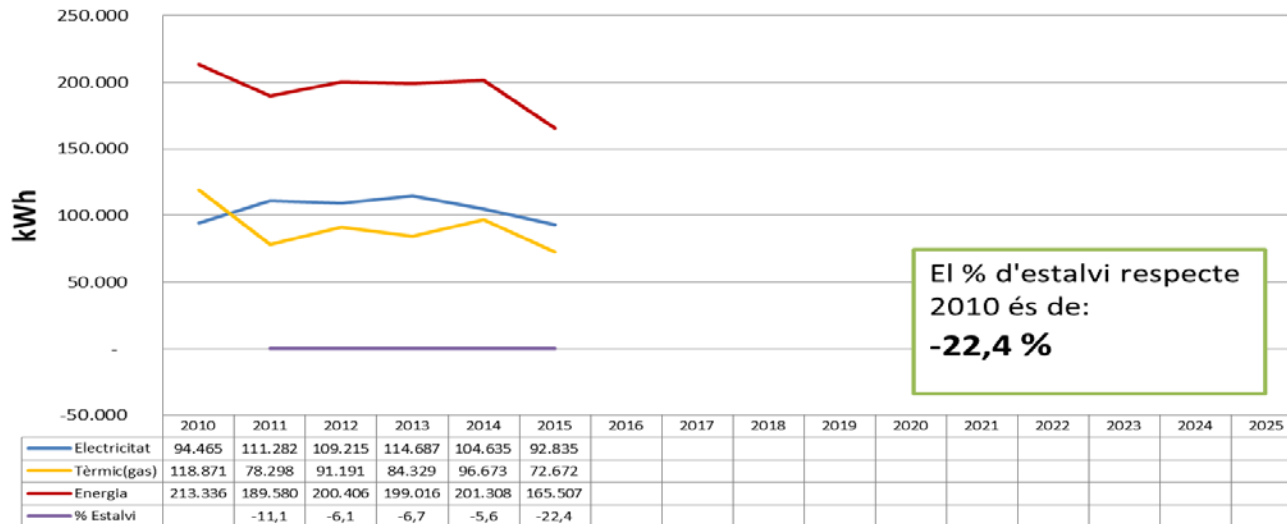


TR11 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
-2.287 €

TR11 Campus Terrassa kWh i % Estalvi

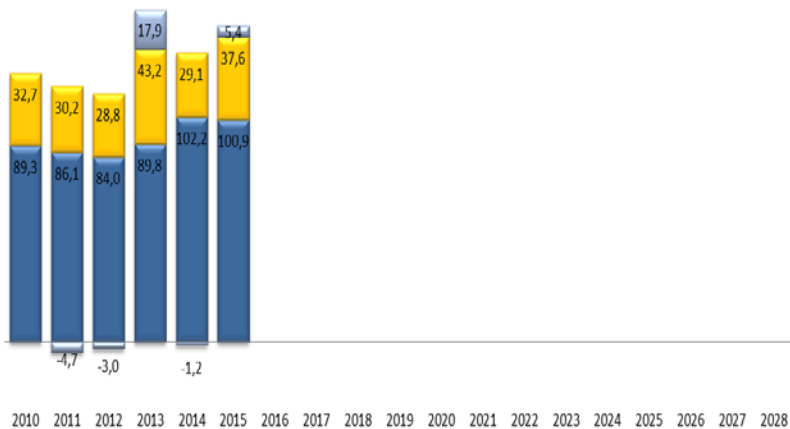


El % d'estalvi respecte 2010 és de:
-22,4 %

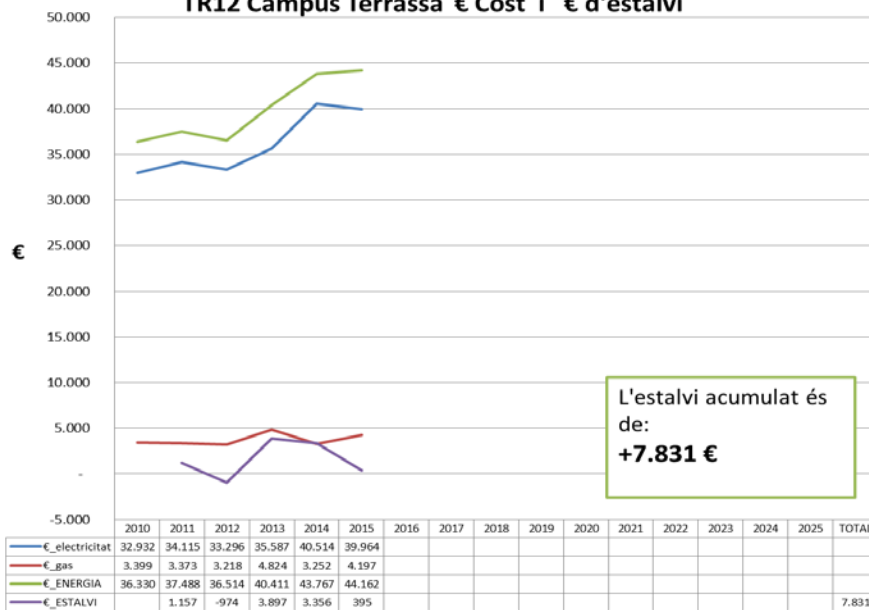
Campus Terrassa

TR12 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

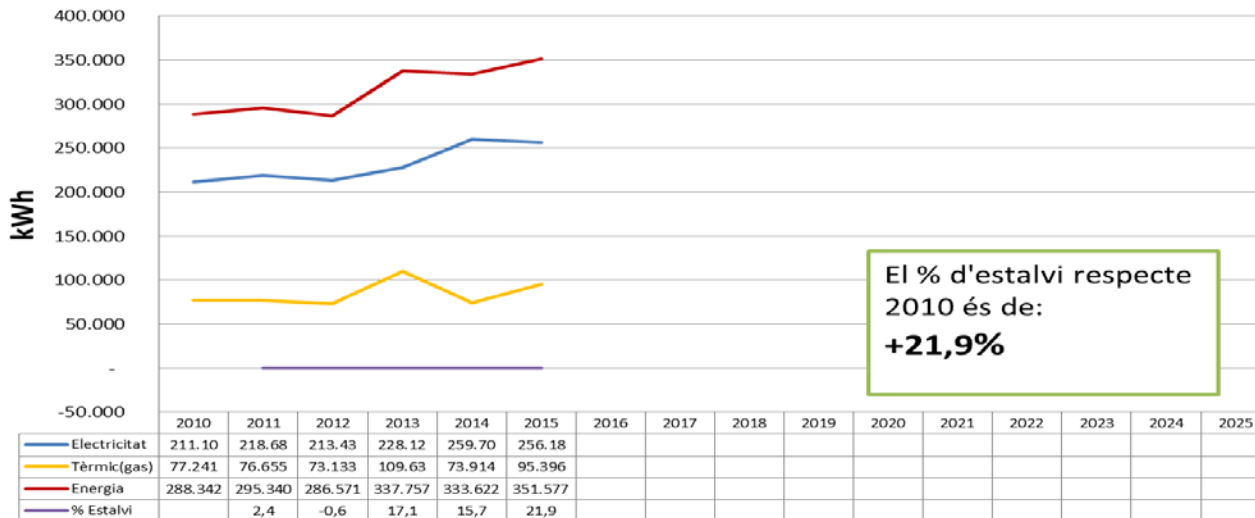


TR12 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
+7.831 €

TR12 Campus Terrassa kWh i % Estalvi

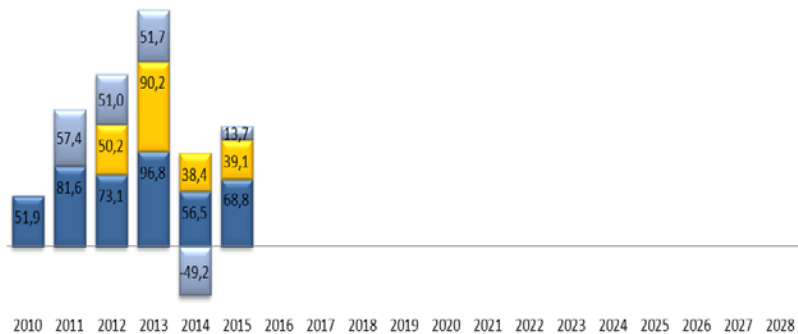


El % d'estalvi respecte 2010 és de:
+21,9%

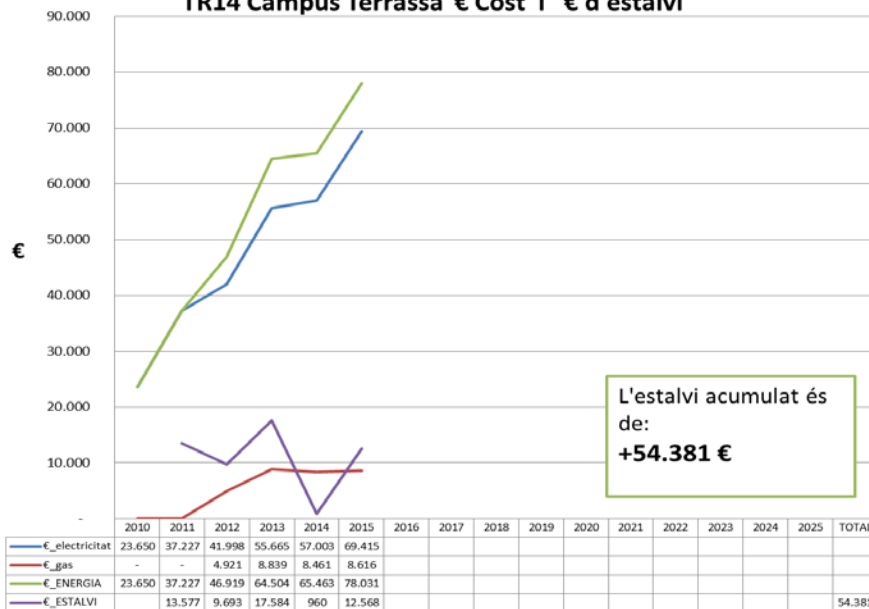
Campus Terrassa

TR14 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

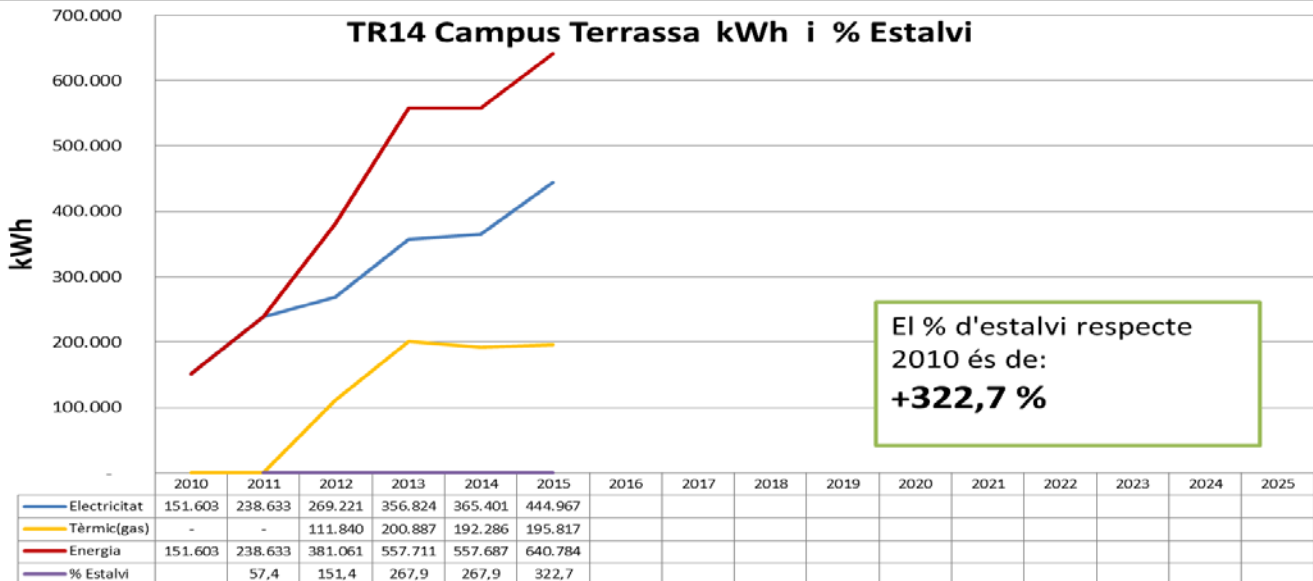


TR14 Campus Terrassa € Cost i € d'estalvi



L'estalvi acumulat és de:
+54.381 €

TR14 Campus Terrassa kWh i % Estalvi

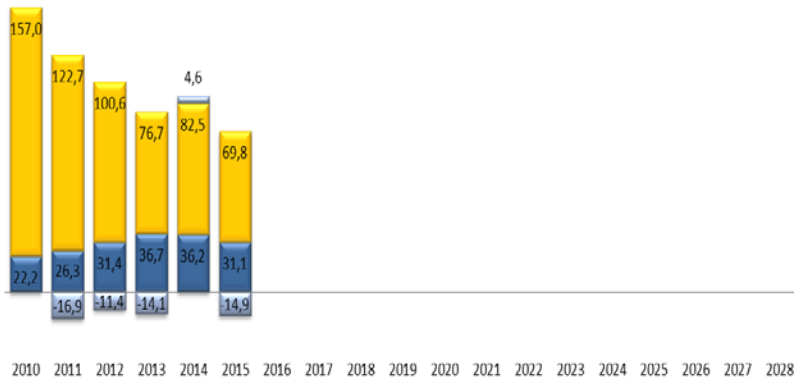


El % d'estalvi respecte 2010 és de:
+322,7 %

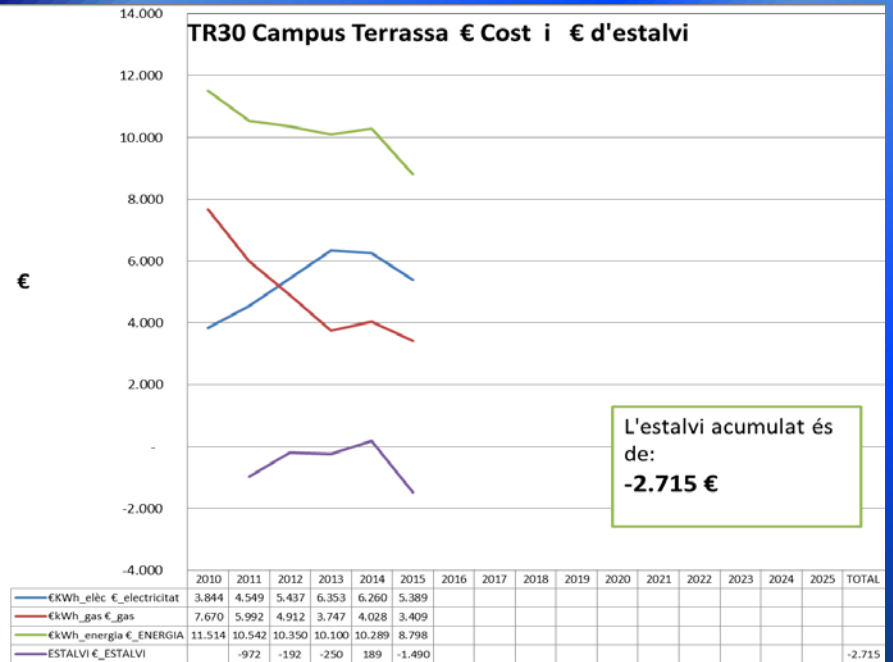
Campus Terrassa

TR30 Consum Energia (kWh/m²)

■ Electricitat ■ Tèrmic(gas) ■ % Evolució respecte any anterior

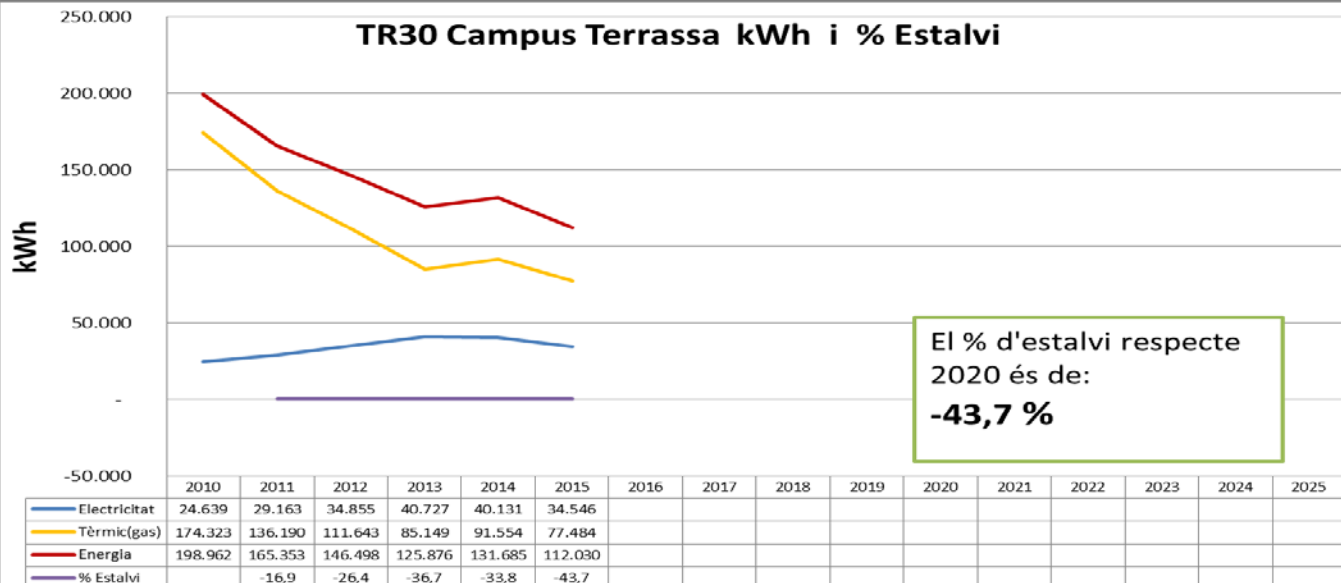


TR30 Campus Terrassa € Cost i € d'estalvi

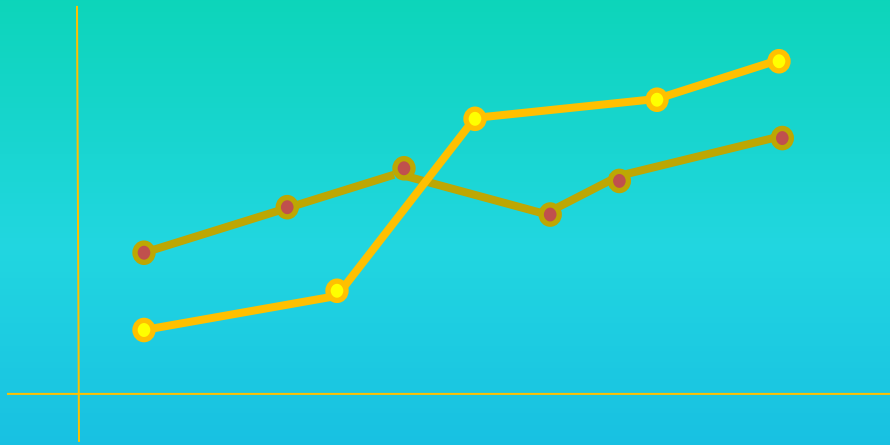


L'estalvi acumulat és de:
-2.715 €

TR30 Campus Terrassa kWh i % Estalvi

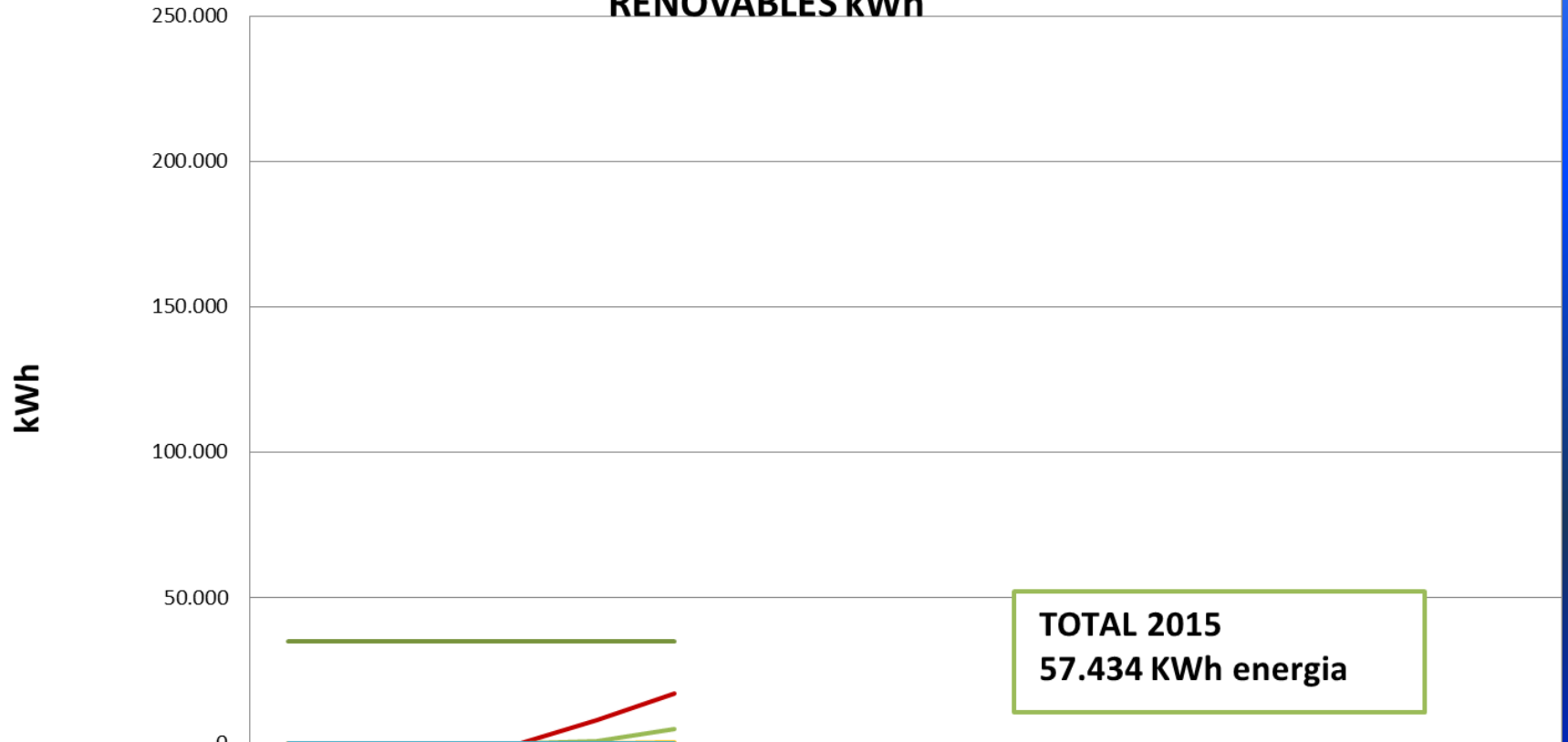


El % d'estalvi respecte 2020 és de:
-43,7 %



RENOVABLES anuals 2015

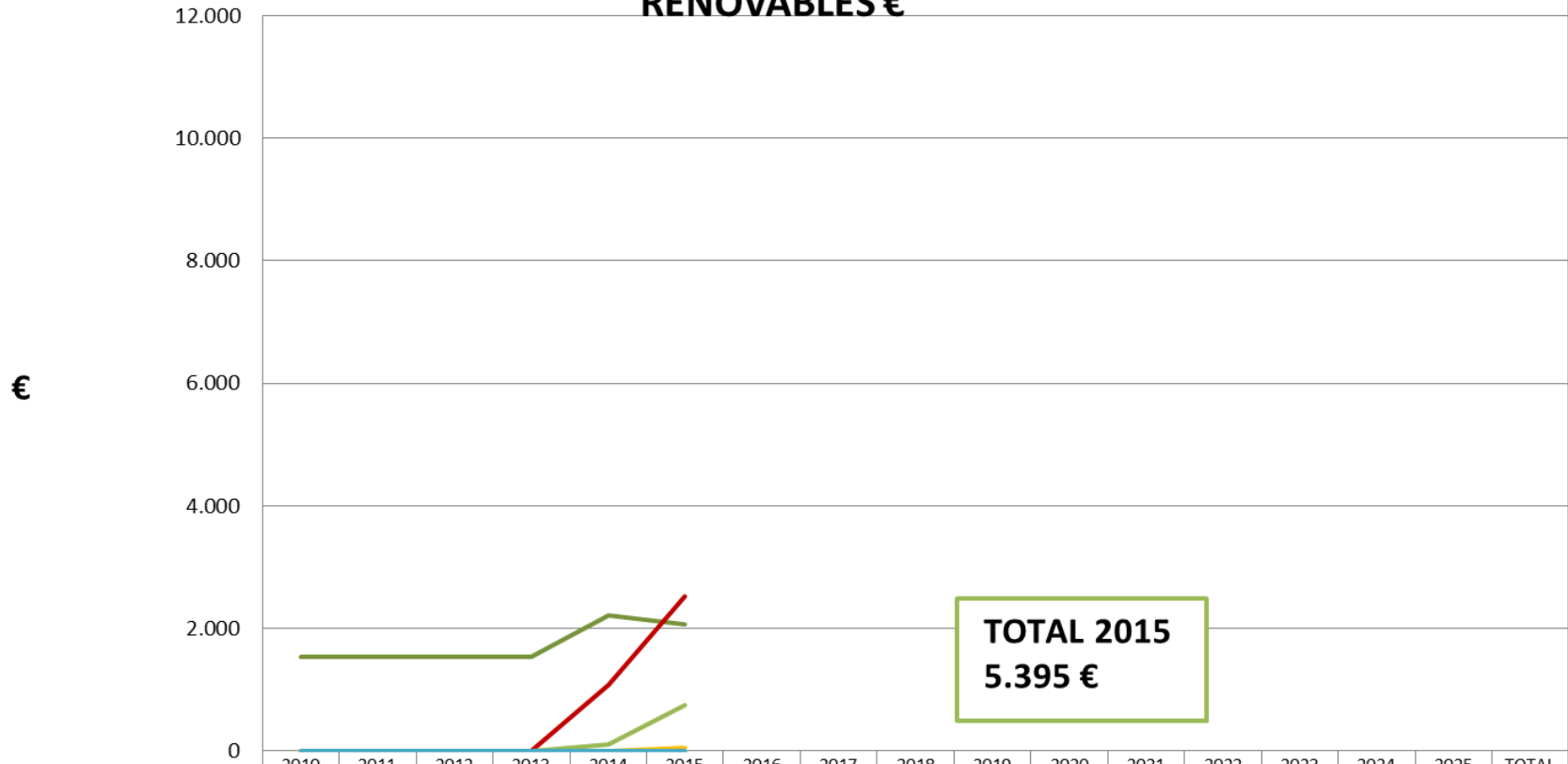
RENOVABLES kWh



**TOTAL 2015
57.434 KWh energia**

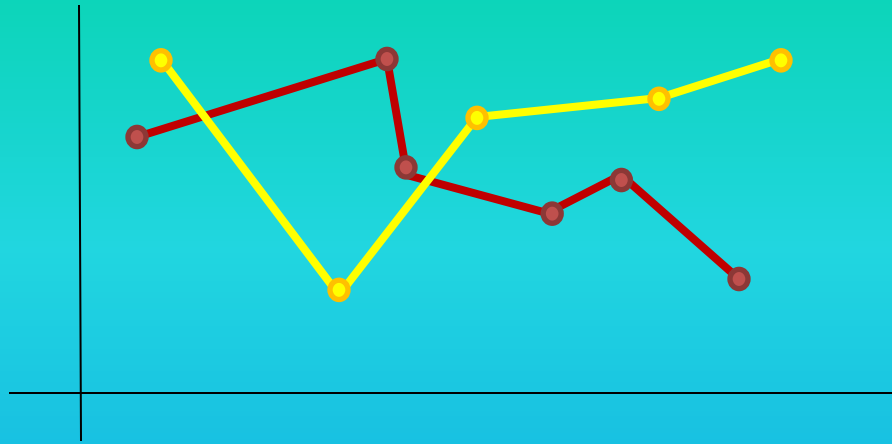
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
TR5 UPC Aigua (estimatiu)	35.000	35.000	35.000	35.000	35.000	35.000											210.000
TR14 UPC FotoVolt	0	0	0	0	7.863	17.015											24.878
TR14 SEER FotoVolt	0	0	0	0	811	5.083											5.894
TR5 MM FotoVolt	0	0	0	0	0	323											323
TR5 MM Aeòlica	0	0	0	0	0	13											13

RENOVABLES €



**TOTAL 2015
5.395 €**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
TR5 UPC Aigua (estimatiu)	1.540	1.540	1.540	1.540	2.219	2.069											10.448
TR14 UPC FotoVolt	0	0	0	0	1.085	2.523											3.608
TR14 SEER FotoVolt	0	0	0	0	112	754											866
TR5 MM FotoVolt	0	0	0	0	0	48											48
TR5 MM Aeòlica	0	0	0	0	0	2											



Cost/dia laboral i festiu

Estudi realitzat amb dades del 2014

COST DIA LABORAL

EDIFICI	m ²	kWh_term(gas)	€_term(gas) mitjana/dia	kWh_elec mitjana/dia	€_elec mitjana/dia	€_ener mitjana/dia
		mitjana/dia LABORAL	LABORAL	LABORAL	LABORAL	LABORAL
TR1	9.429	3.803	240	1.087	150	390
TR2	2.940	1.186	75	325	45	120
TR3	2.577	1.039	65	252	35	100
EET	14.946	6.028	380	1.664	223	603
TR4	7.626	1.641	103	2.414	333	437
TR45_1	1.579	388	24	112	16	40
TR5+TR45_2	13.056	2.850	180	1.358	187	367
TR6	2.344	512	32	161	22	54
ETSEIAT	24.605	5.391	340	4.046	508	847
TR7	2.624	564	36	479	66	102
TR8 FOOT	6.446	2.237	141	618	85	226
TR9	2.393		0	690	95	95
TR10	2.218	706	44	644	89	133
TR11	2.779	615	39	312	43	82
TR12	3.198	800	50	904	125	175
TR14	7.639	1.774	112	791	109	221
TR30	1.350	586	37	146	20	57
TOTAL CT ENERGIA	68.197	18.701	1.178	10.292	1.420	2.598

COST DIA FESTIU

EDIFICI	m ²	kWh_term(gas) mitjana/dia FESTIU	€_term(gas) mitjana/dia FESTIU	kWh_elec mitjana/dia FESTIU	€_elec mitjana/dia FESTIU	€_ener mitjana/dia FESTIU
TR1	9.429	0	0	410	57	57
TR2	2.940	0	0	128	18	18
TR3	2.577	0	0	103	14	14
EET	14.946	0	0	641	87	87
TR4	7.626	0	0	2.025	280	280
TR45_1	1.579	0	0	24	3	3
TR5+TR45_2	13.056	0	0	505	70	70
TR6	2.344	0	0	62	9	9
ETSEIAT	24.605	0	0	2.617	368	368
TR7	2.624	0	0	144	20	20
TR8 FOOT	6.446	0	0	369	51	51
TR9	2.393		0	87	12	12
TR10	2.218	0	0	483	67	67
TR11	2.779	0	0	177	24	24
TR12	3.198	0	0	277	38	38
TR14	7.639	0	0	624	86	86
TR30	1.350	0	0	6	1	1
TOTAL CT ENERGIA	68.197	0	0	5.421	748	748

ESTALVI DIA TANCAMENT HIVERN

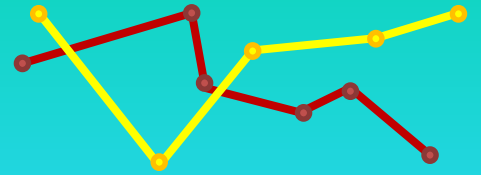
EDIFICI	m ²	kWh_term(gas)	€_term(gas) mitjana/dia	kWh_elec mitjana/dia	€_elec mitjana/dia	€_ener mitjana/dia
		mitjana/dia TANCAMENT	TANCAMENT	TANCAMENT	TANCAMENT	TANCAMENT
TR1	9.429	3.803	240	677	93	333
TR2	2.940	1.186	75	197	27	102
TR3	2.577	1.039	65	149	21	86
EET	14.946	6.028	380	1.023	136	516
TR4	7.626	1.641	103	389	54	157
TR45_1	1.579	388	24	88	12	37
TR5+TR45_2	13.056	2.850	180	852	118	297
TR6	2.344	512	32	99	14	46
ETSEIAT	24.605	5.391	340	1.429	140	479
TR7	2.624	564	36	335	46	82
TR8 FOOT	6.446	2.237	141	249	34	175
TR9	2.393	0	0	603	83	83
TR10	2.218	706	44	162	22	67
TR11	2.779	615	39	136	19	57
TR12	3.198	800	50	628	87	137
TR14	7.639	1.774	112	167	23	135
TR30	1.350	586	37	140	19	56
TOTAL CT ENERGIA	68.197	18.701	1.178	4.871	672	1.850

ESTALVI DIA TANCAMENT ESTIU

EDIFICI	m ²	kWh_term(gas) mitjana/dia TANCAMENT	€_term(gas) mitjana/dia TANCAMENT	kWh_elec mitjana/dia TANCAMENT	€_elec mitjana/dia TANCAMENT	€_ener mitjana/dia TANCAMENT
TR1	9.429	0	0	677	93	93
TR2	2.940	0	0	197	27	27
TR3	2.577	0	0	149	21	21
EET	14.946	0	0	1.023	136	136
TR4	7.626	0	0	389	54	54
TR45_1	1.579	0	0	88	12	12
TR5+TR45_2	13.056	0	0	852	118	118
TR6	2.344	0	0	99	14	14
ETSEIAT	24.605	0	0	1.429	140	140
TR7	2.624	0	0	335	46	46
TR8 FOOT	6.446	0	0	249	34	34
TR9	2.393	0	0	603	83	83
TR10	2.218	0	0	162	22	22
TR11	2.779	0	0	136	19	19
TR12	3.198	0	0	628	87	87
TR14	7.639	0	0	167	23	23
TR30	1.350	0	0	140	19	19
TOTAL CT ENERGIA	68.197	0	0	4.871	672	672

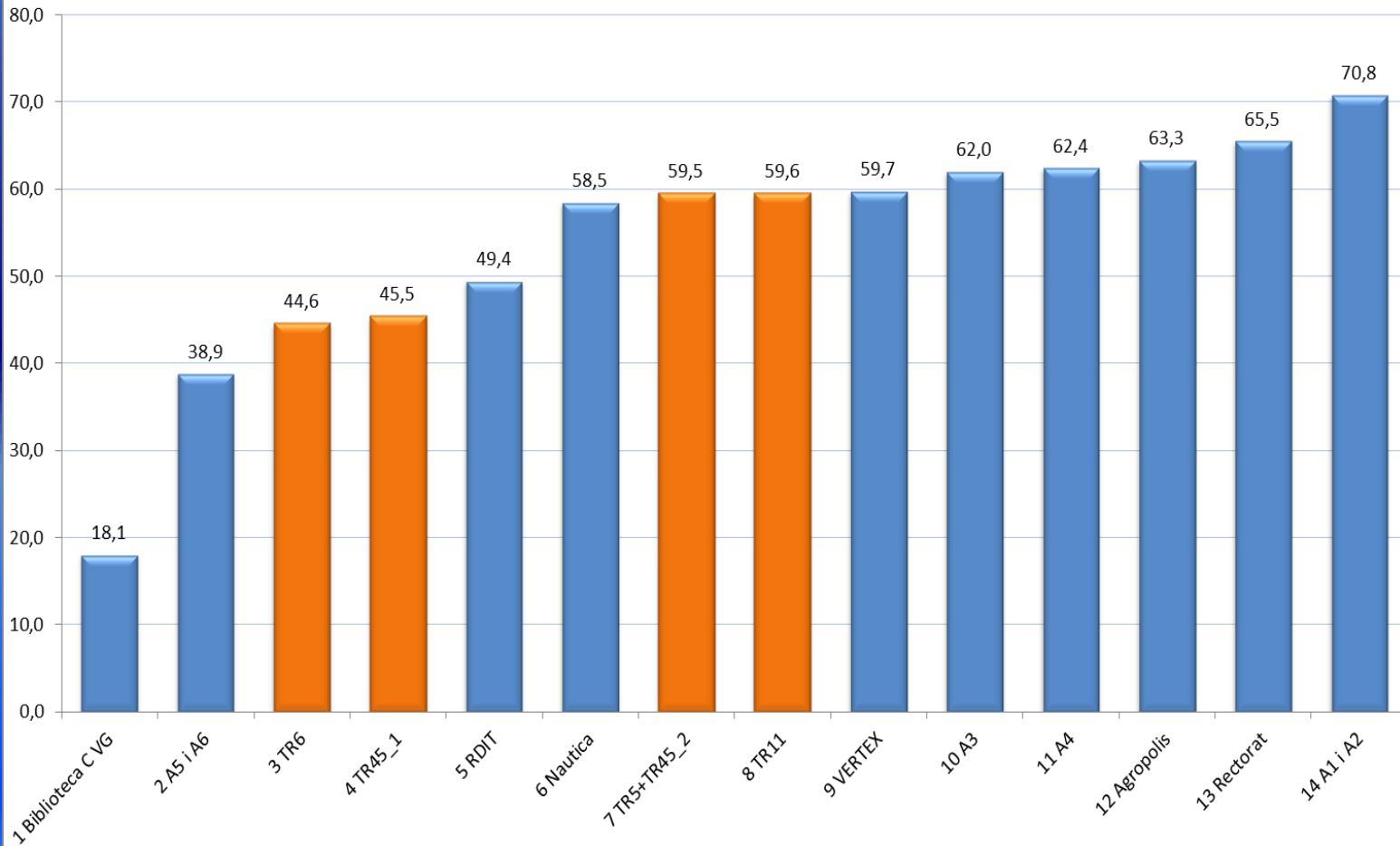
ESTALVI NADAL ANY 2014 TOT EL CAMPUS-1/3 TR1 -TR4-TR11-TR14

	Dies TANCAMENT	kWh ESTALVI/dia	€ ESTALVI/dia	TOTAL ESTALVI kWh	% del kWh TOTAL	€
Tèrmica(gas)	8	13.404	844	107.229	4,4	6.755
Elèctrica	8	3.953	546	31.627	0,9	4.364
Energia	8	17.357	1.390	138.856	2,4	11.120

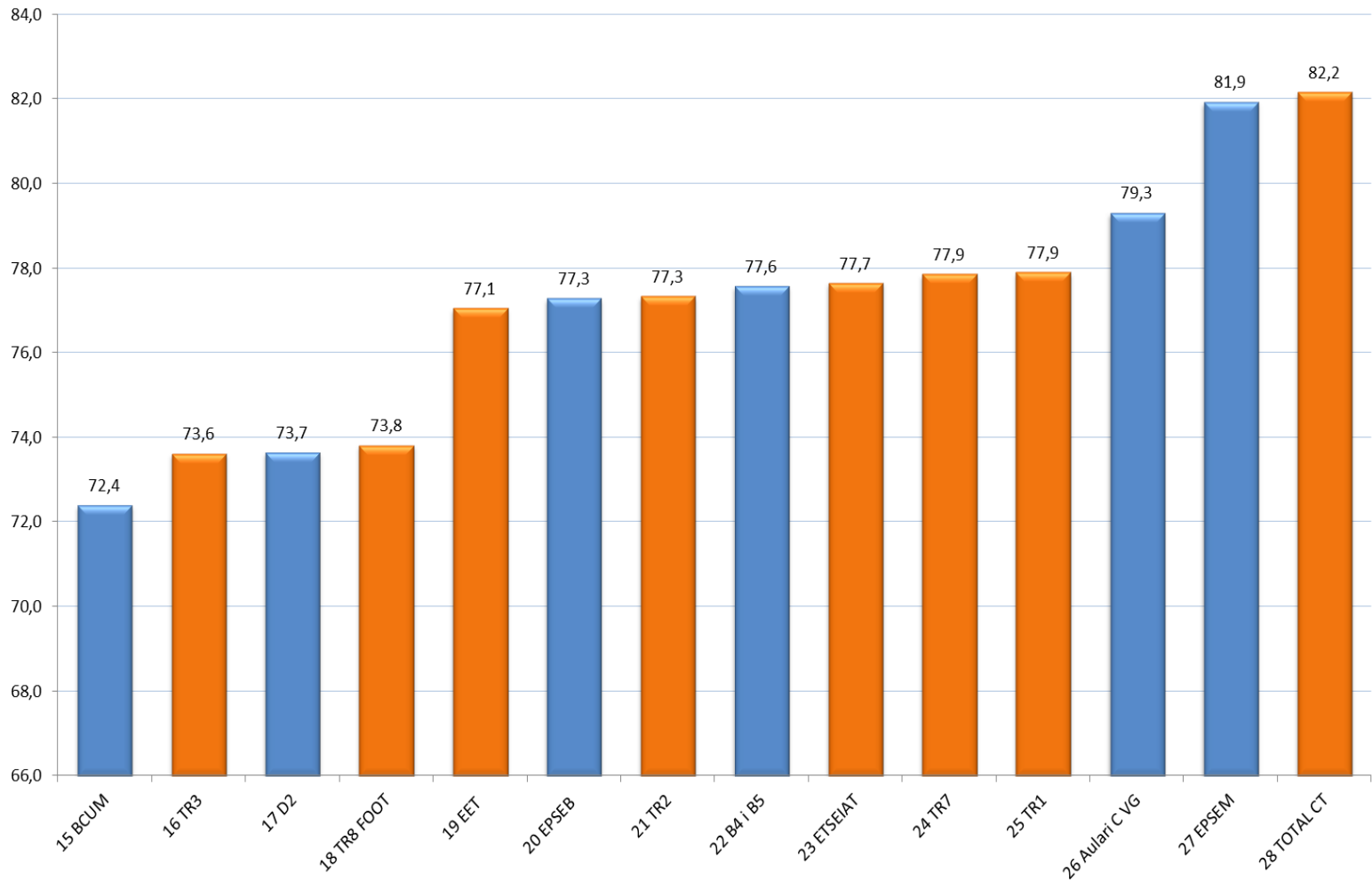


Comparar consums d'altres campus

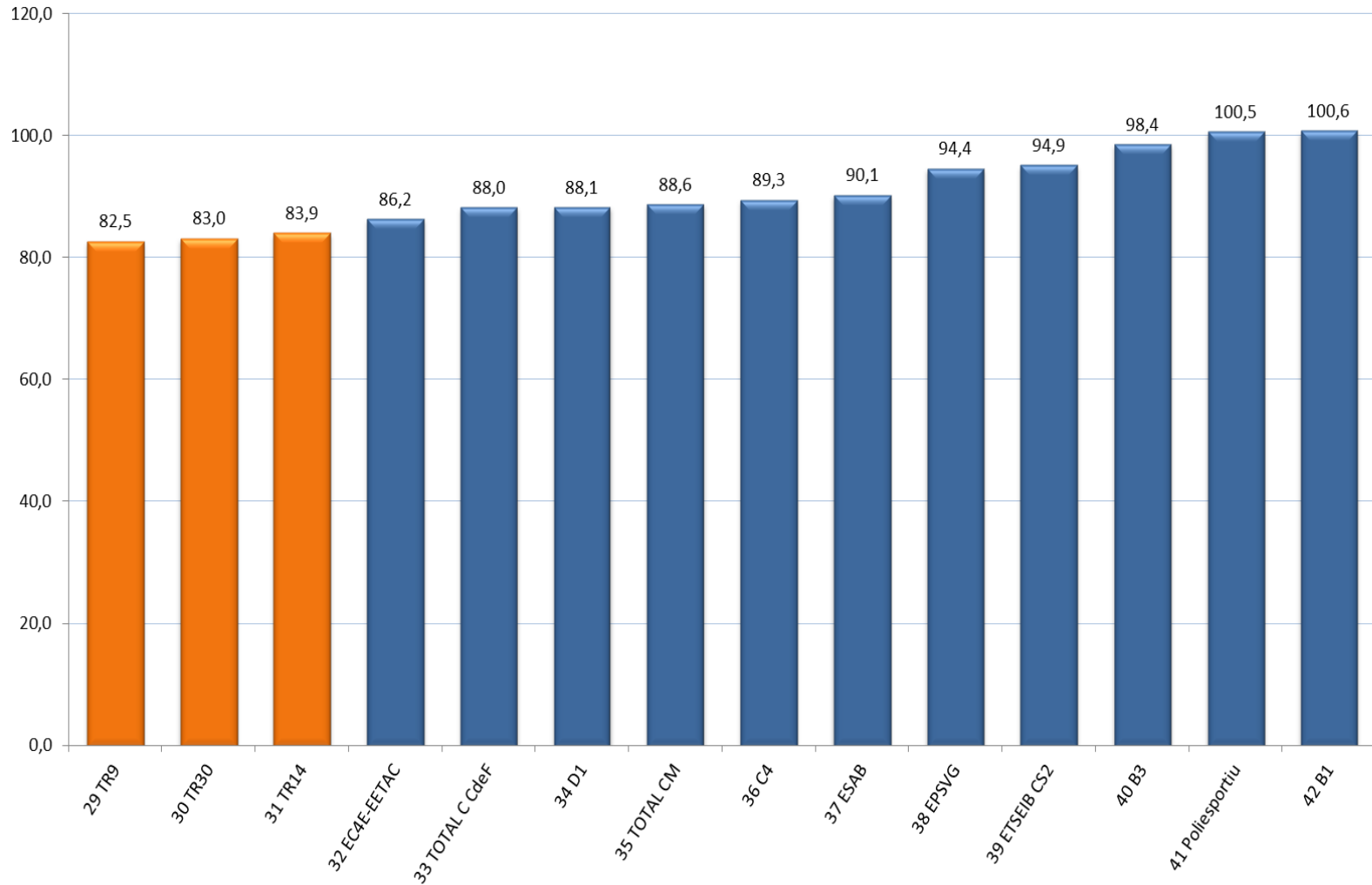
RÀNQUING ENERGÈTIC UPC 2015 kWh/m²



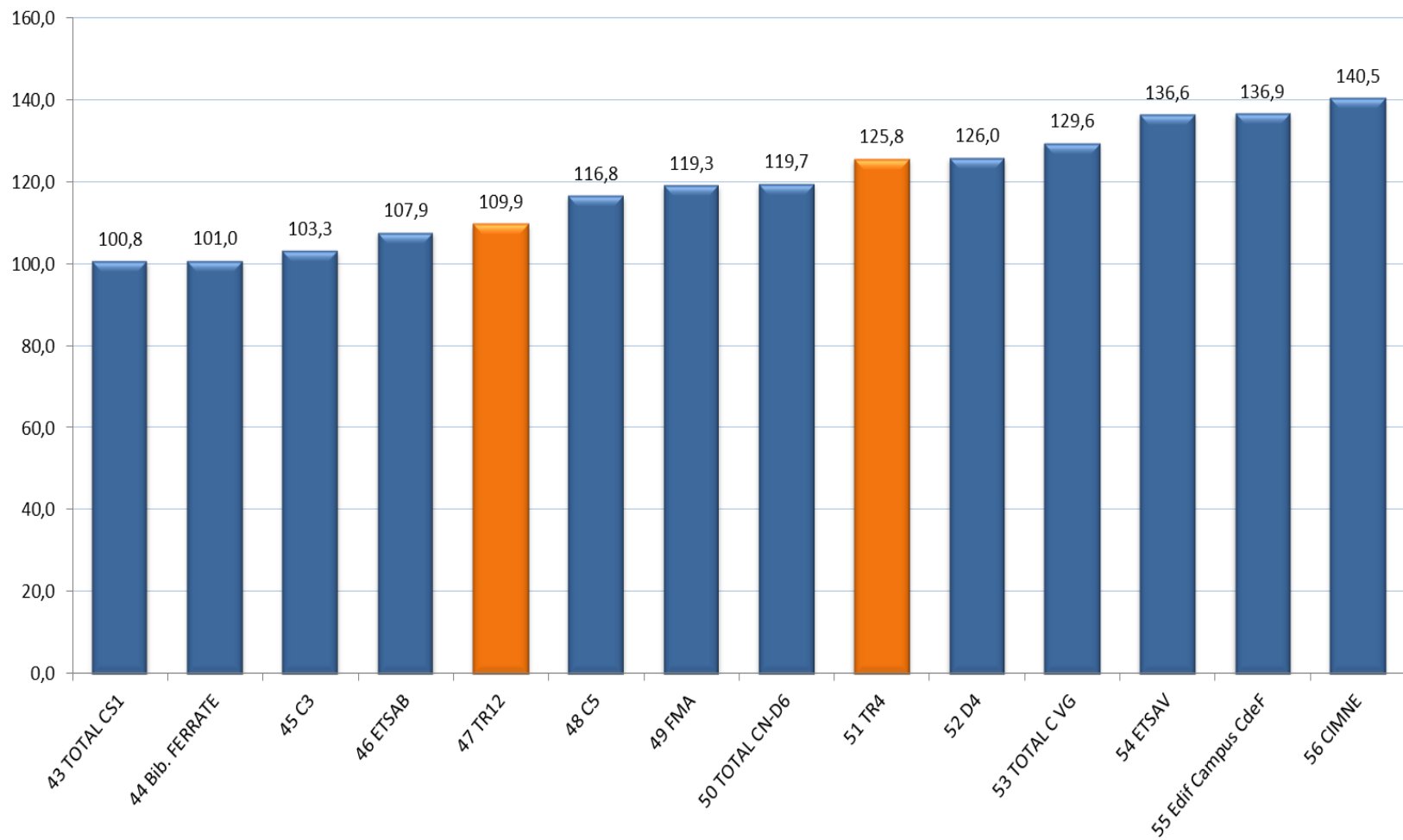
RÀNQUING ENERGÈTIC UPC 2015 kWh/m²



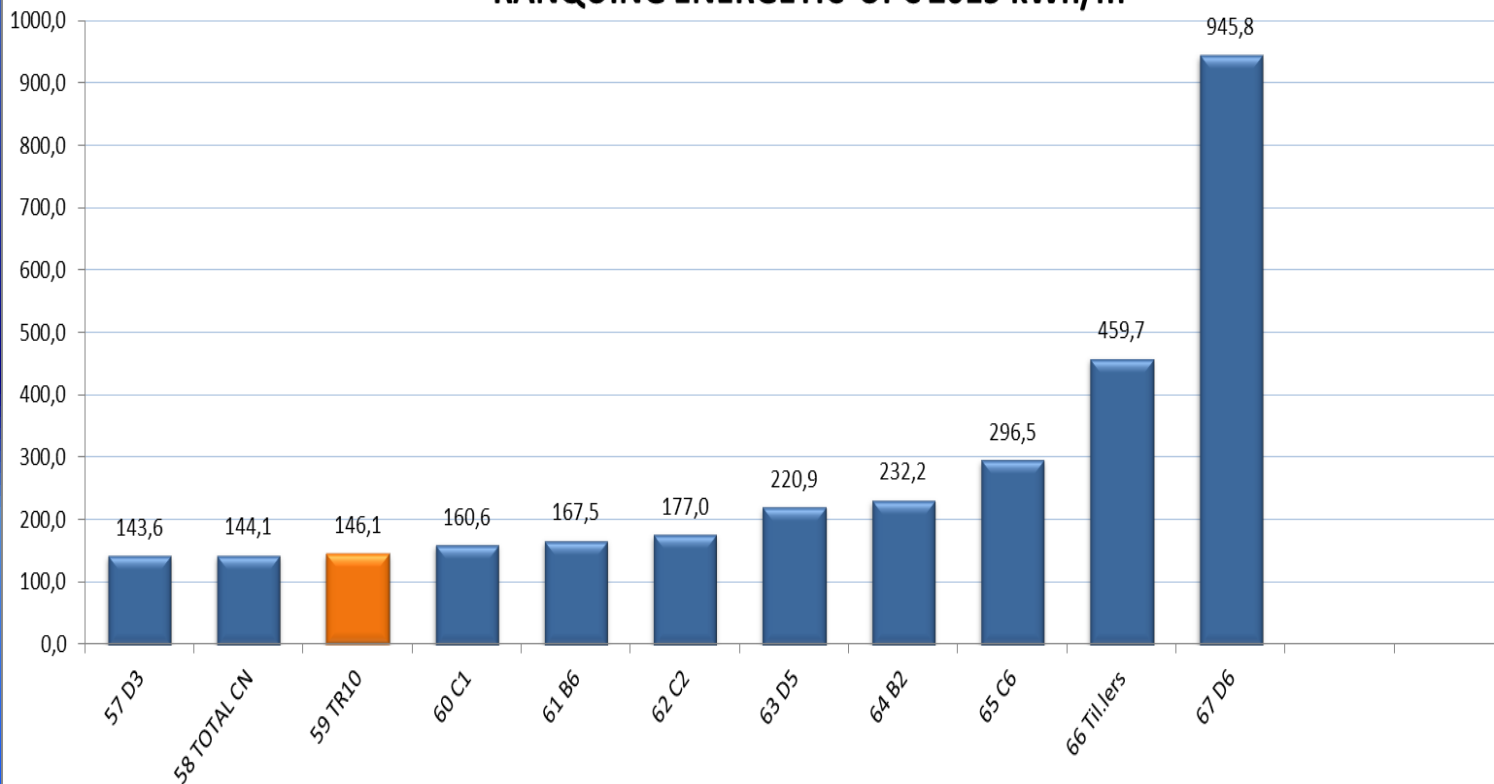
RÀNQUING ENERGÈTIC UPC 2015 kWh/m²



RÀNQUING ENERGÈTIC UPC 2015 kWh/m²



RÀNQUING ENERGÈTIC UPC 2015 kWh/m²

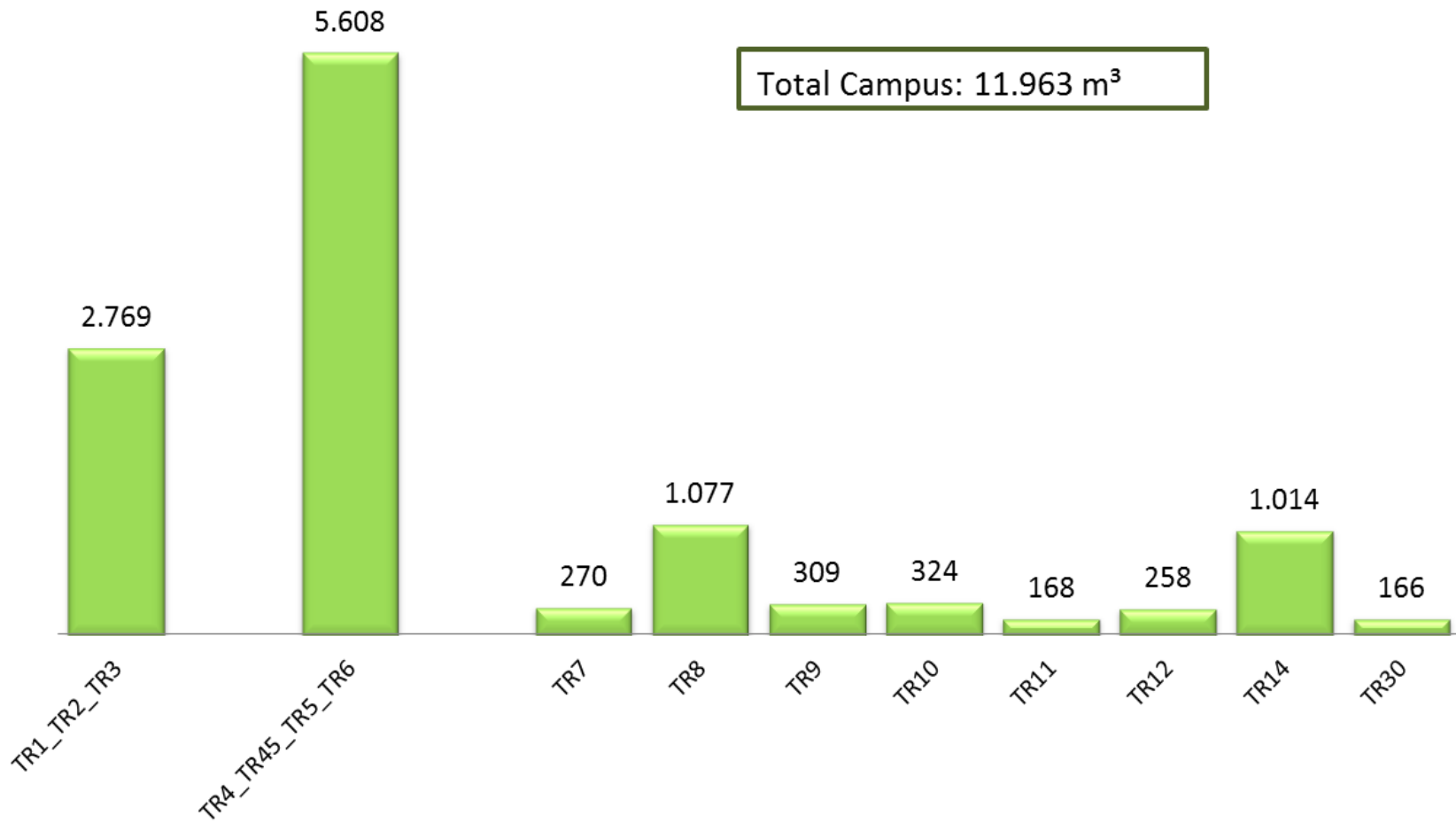




AIGUA per edificis i anuals Campus 2015

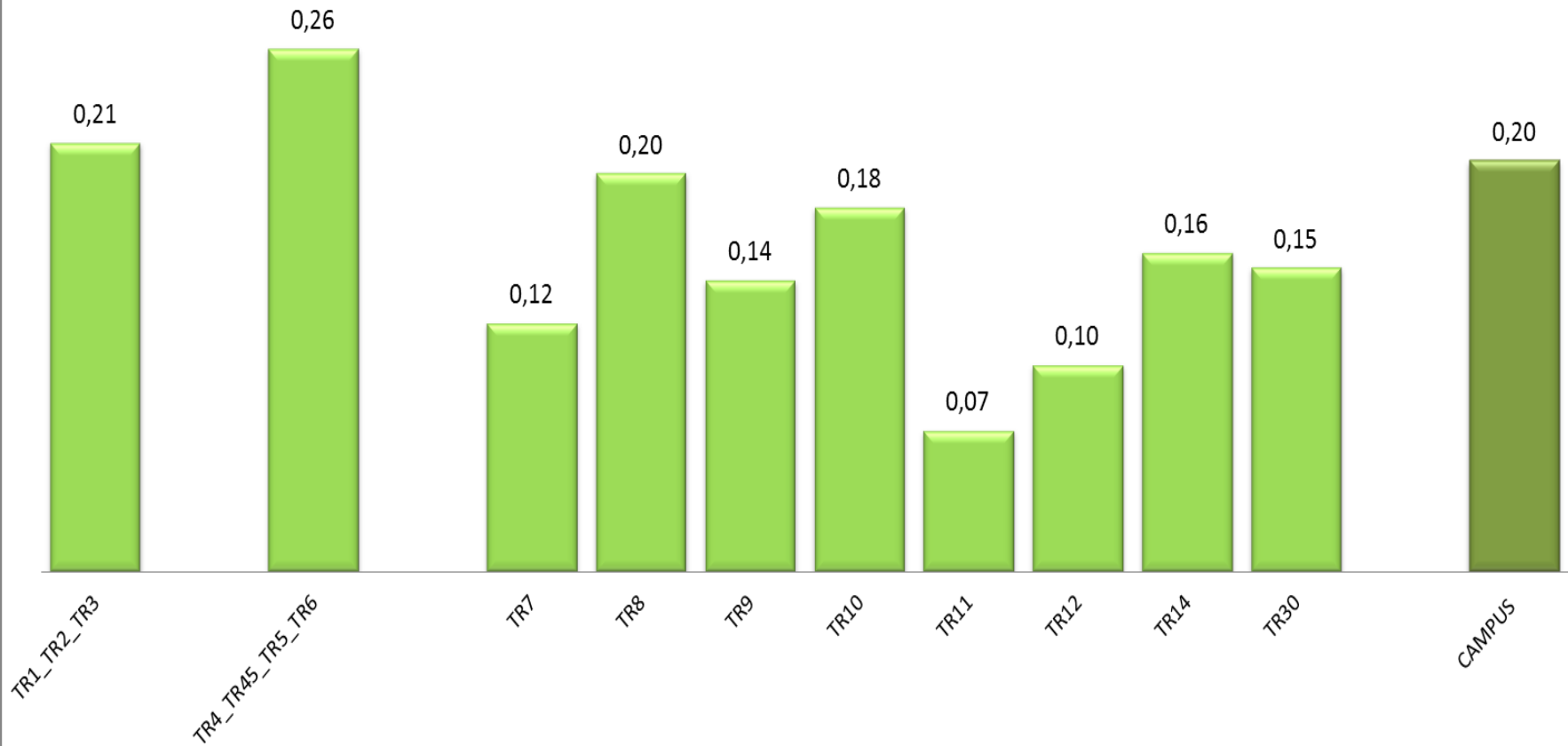
Campus Terrassa

Consum aigua 2015 (m³)



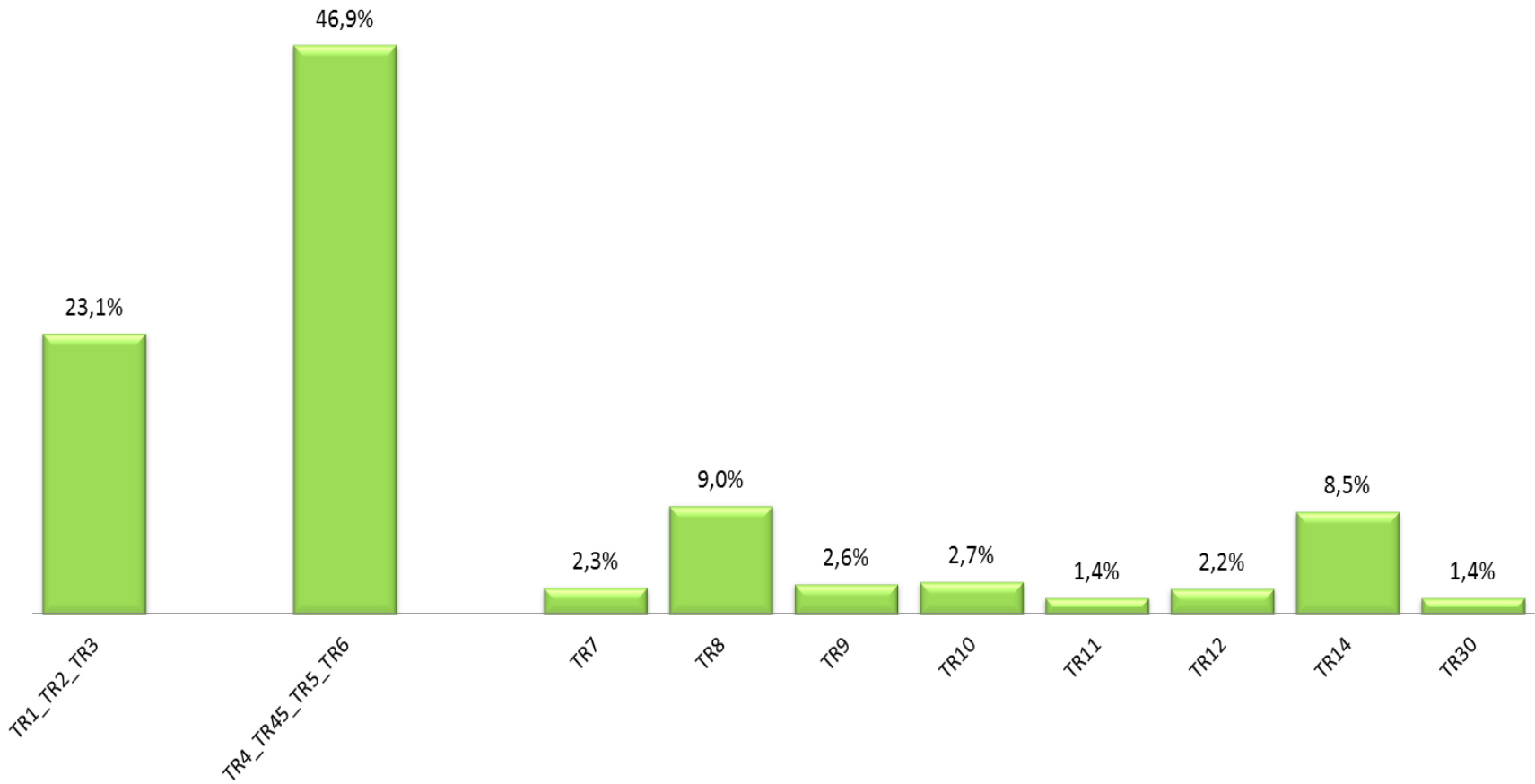
Campus Terrassa

Consum aigua 2015 (m³/m²)

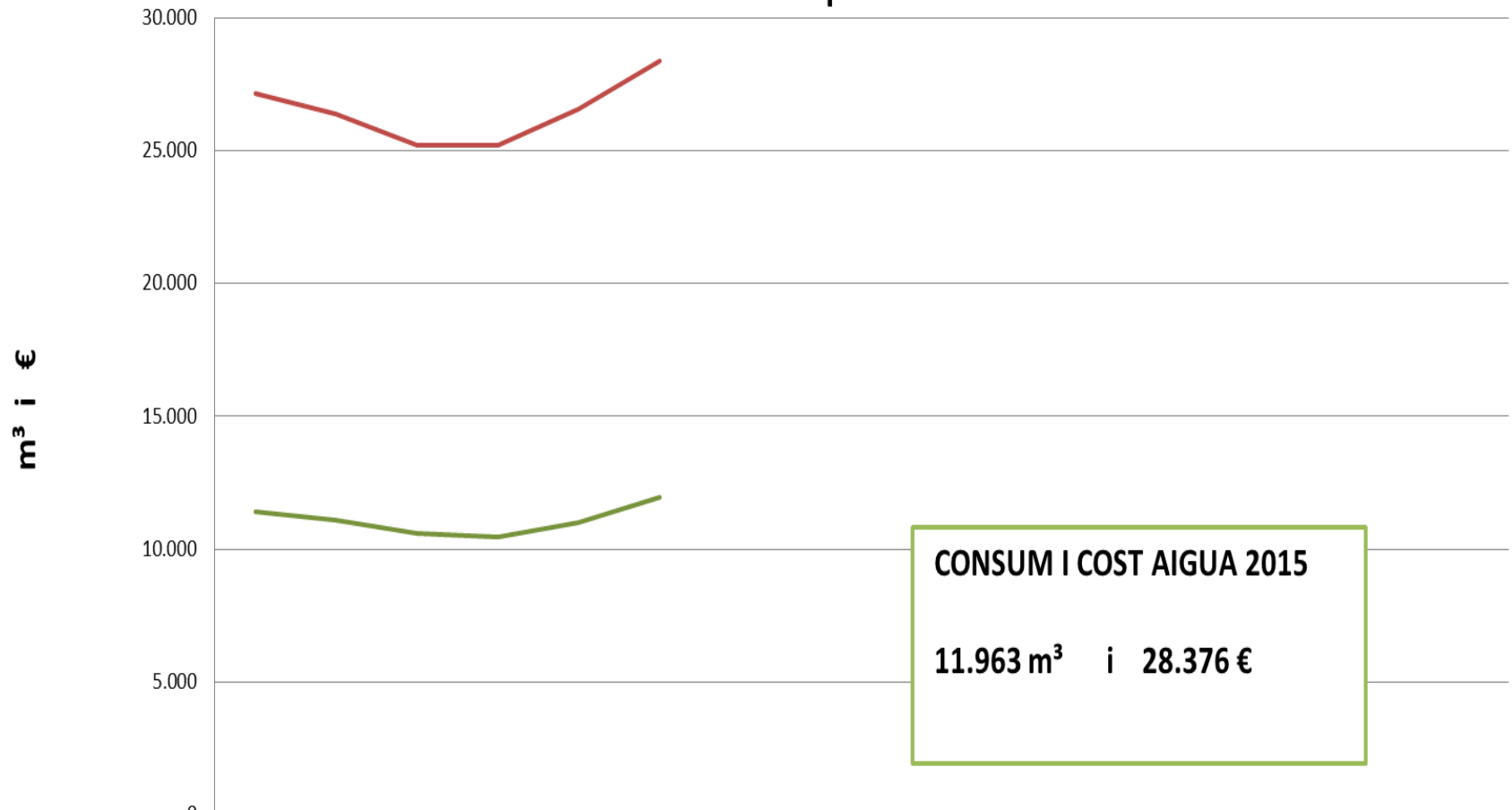


Campus Terrassa

Consum aigua 2015 (% m³)

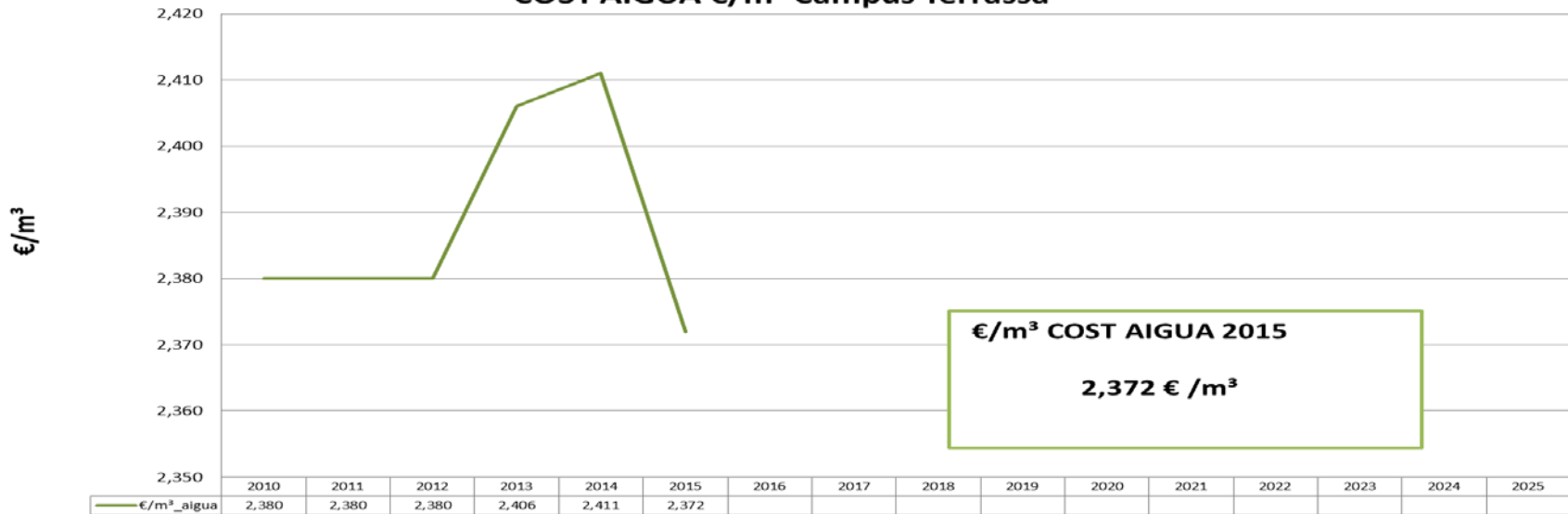


CONSUM AIGUA Campus Terrassa

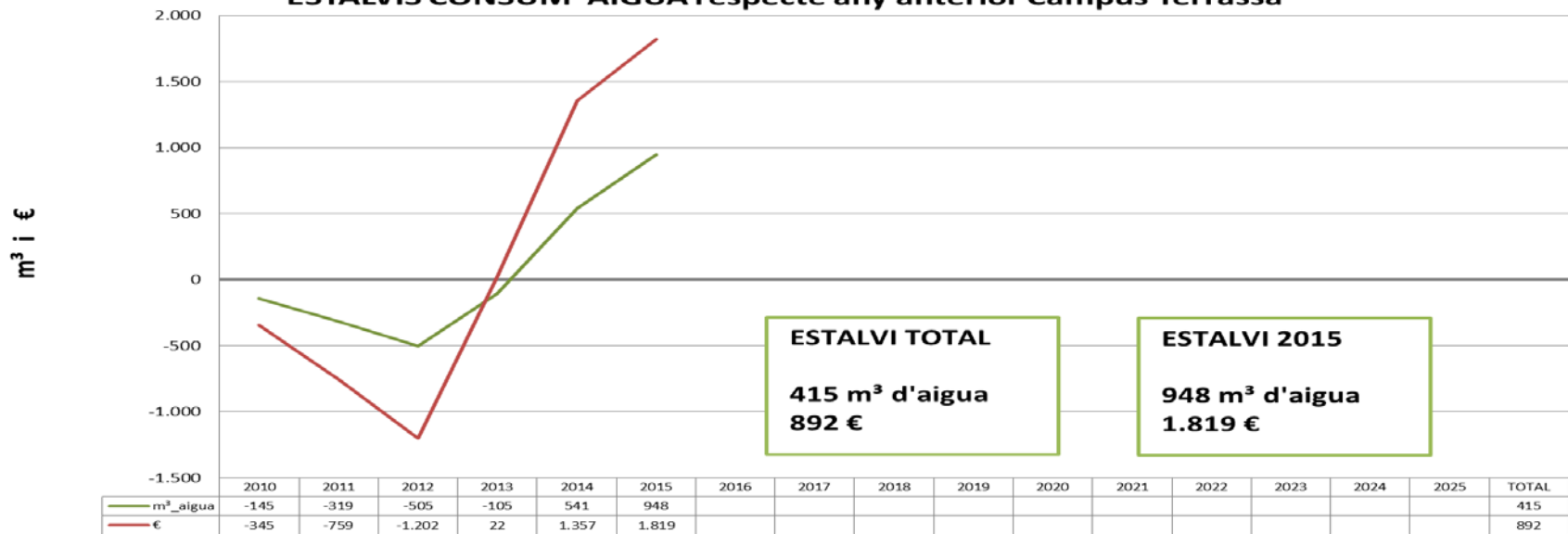


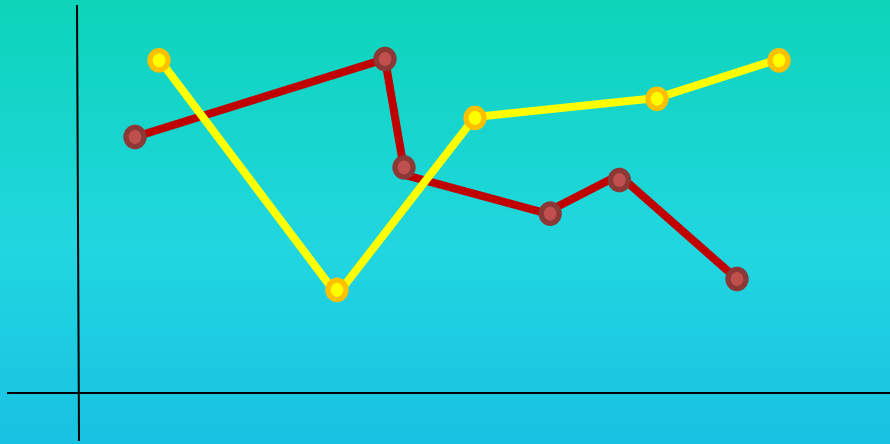
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
— m³_aigua	11.403	11.084	10.579	10.474	11.015	11.963										
— €_aigua	27.139	26.380	25.178	25.200	26.557	28.376										

COST AIGUA €/m³ Campus Terrassa



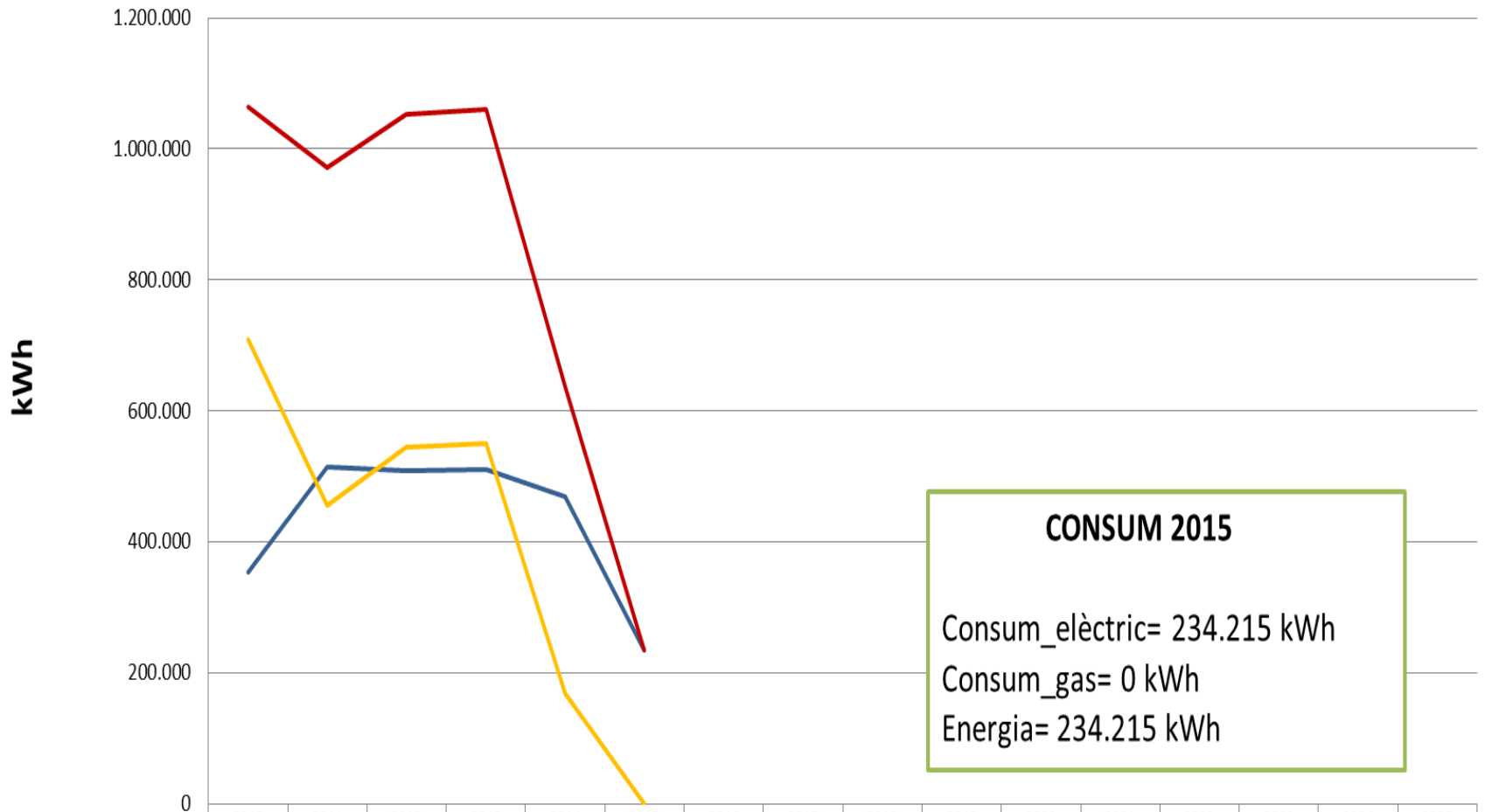
ESTALVIS CONSUM AIGUA respecte any anterior Campus Terrassa





DADES anuals IPCT 2015

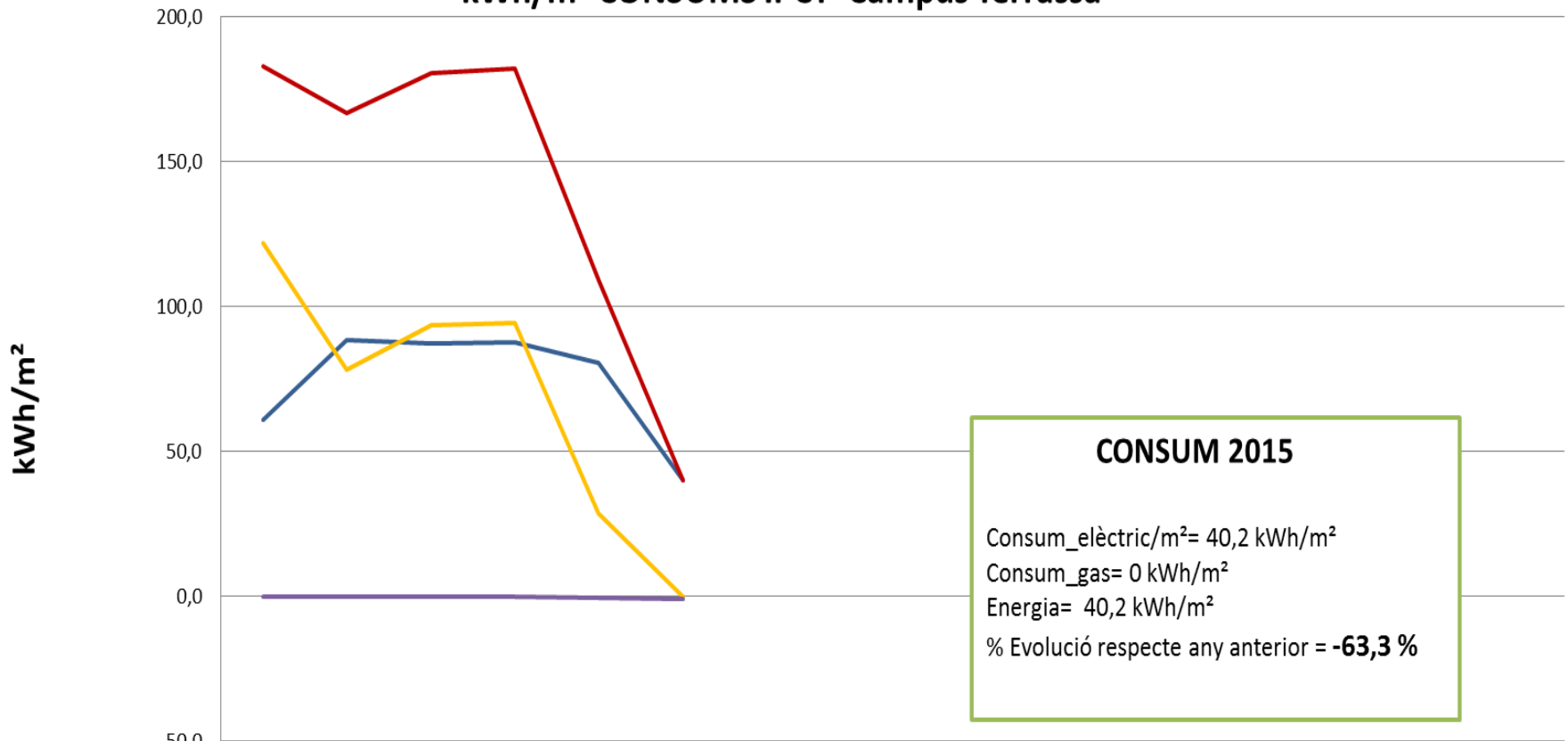
CONSUMS IPCT Campus Terrassa



CONSUM 2015
 Consum_elèctric= 234.215 kWh
 Consum_gas= 0 kWh
 Energia= 234.215 kWh

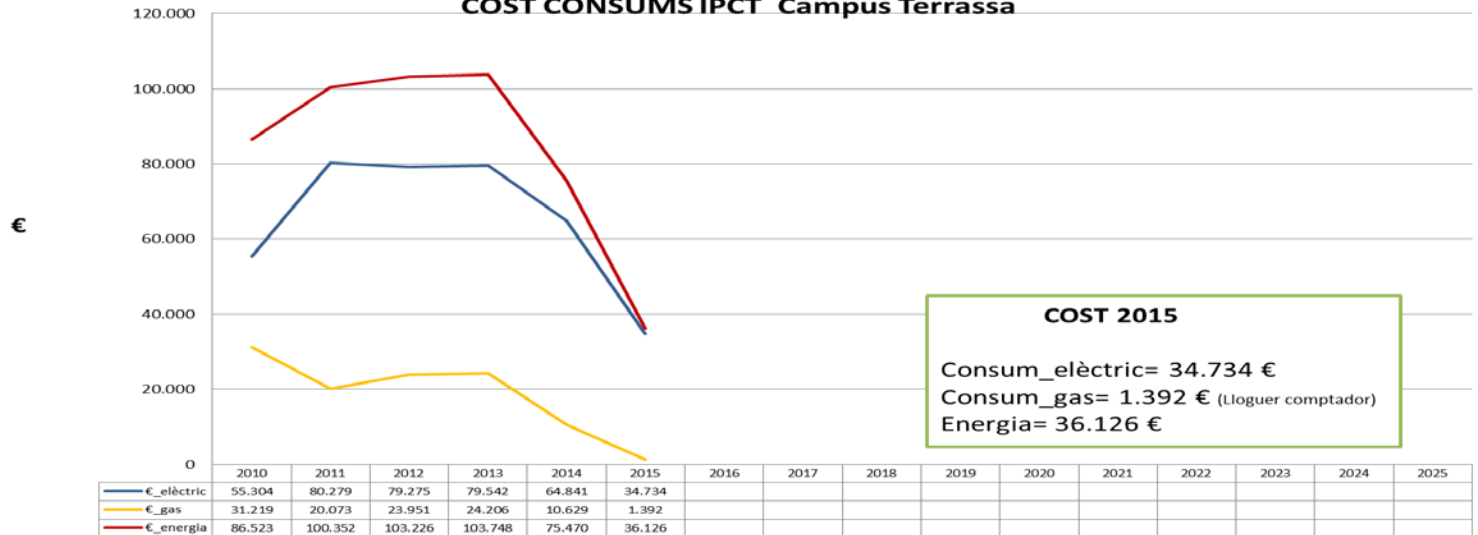
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
kWh_elèctric	354.514	514.608	508.175	509.883	469.863	234.215										
kWh_gas	709.522	456.199	544.331	550.132	167.653	0										
kWh_energia	1.064.036	970.807	1.052.506	1.060.015	637.516	234.215										

kWh/m² CONSUMS IPCT Campus Terrassa

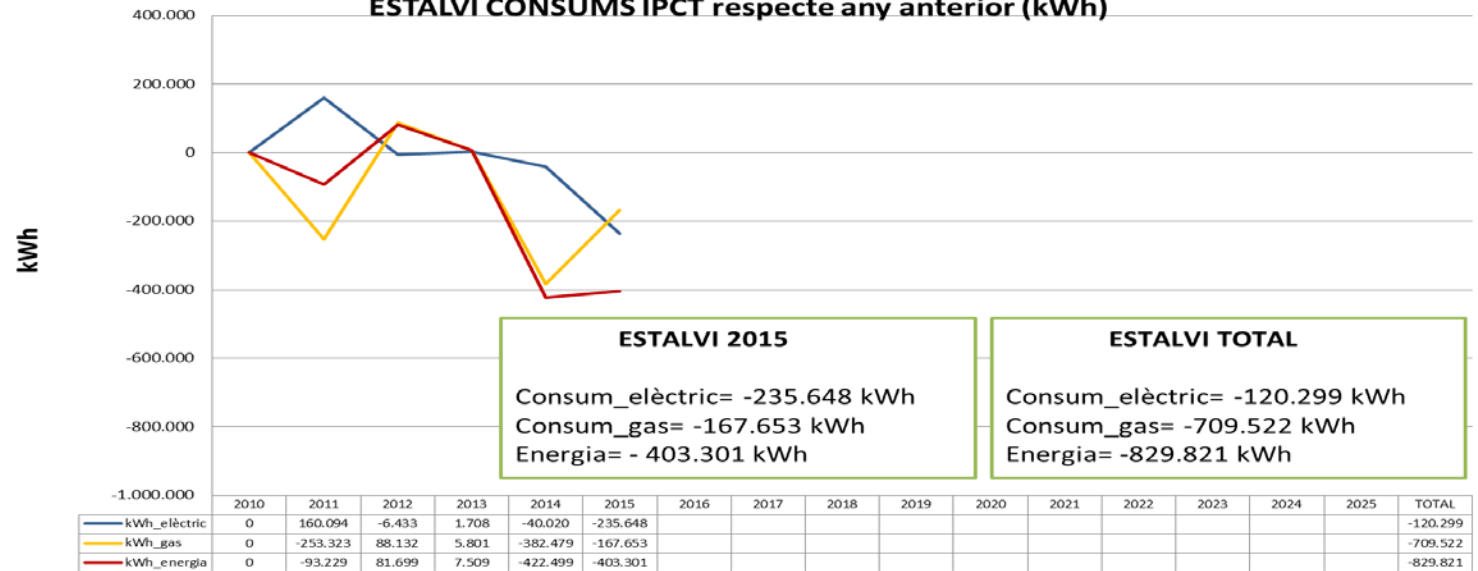


	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
kWh_elèctric/m ²	60,9	88,4	87,3	87,6	80,7	40,2										
kWh_gas/m ²	121,9	78,4	93,5	94,5	28,8	0,0										
kWh_energia/m ²	182,8	166,8	180,8	182,1	109,5	40,2										
% Evolució	0,0%	-8,8%	8,4%	0,7%	-39,9%	-63,3%										

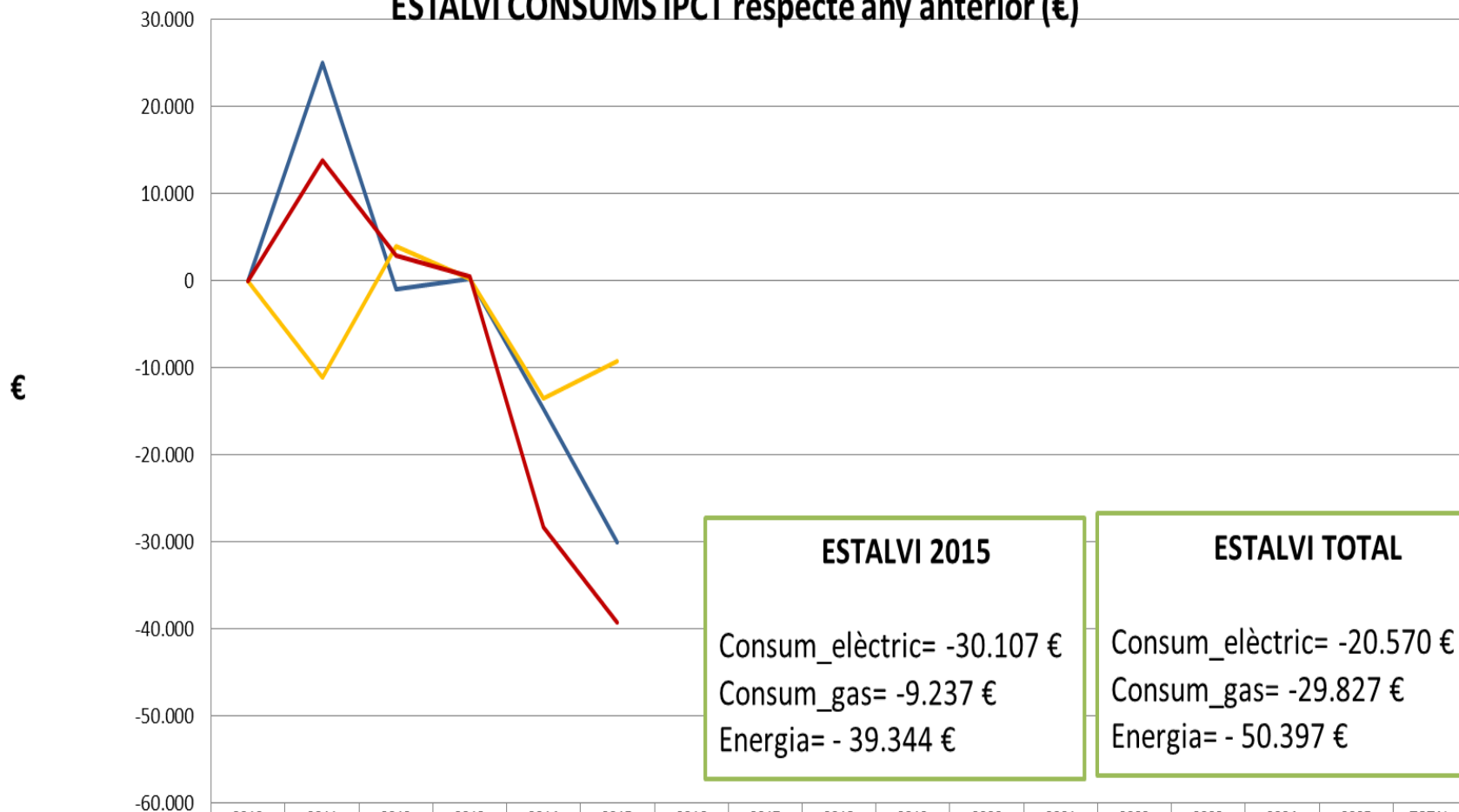
COST CONSUMS IPCT Campus Terrassa



ESTALVI CONSUMS IPCT respecte any anterior (kWh)

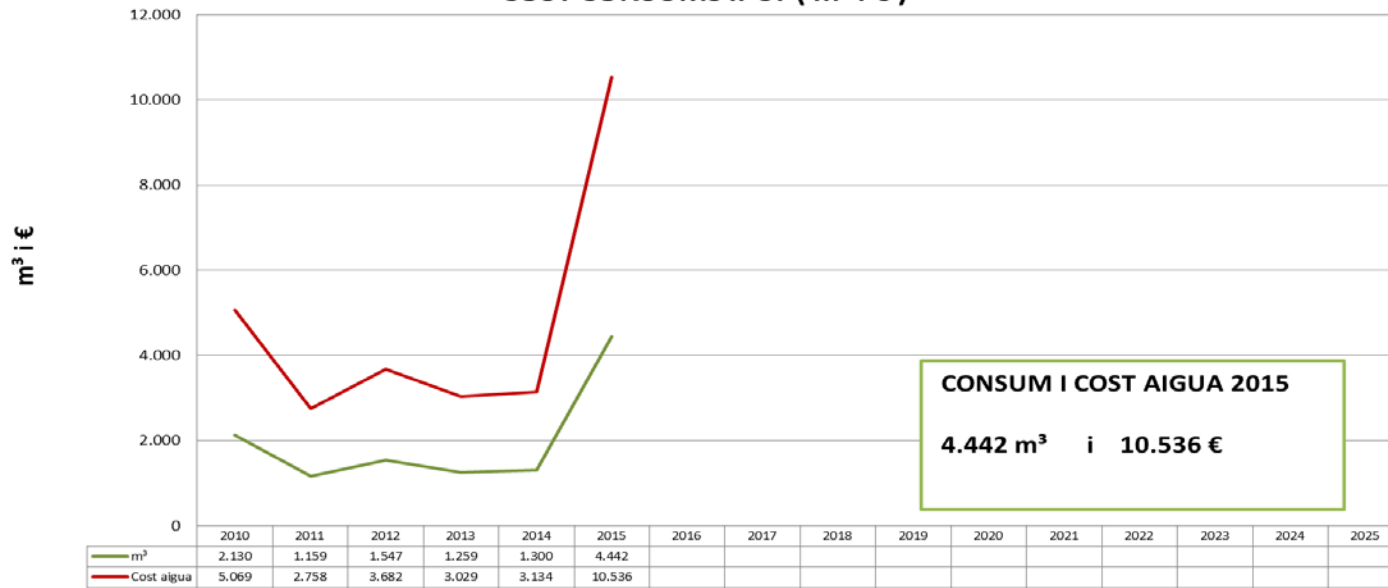


ESTALVI CONSUMS IPCT respecte any anterior (€)



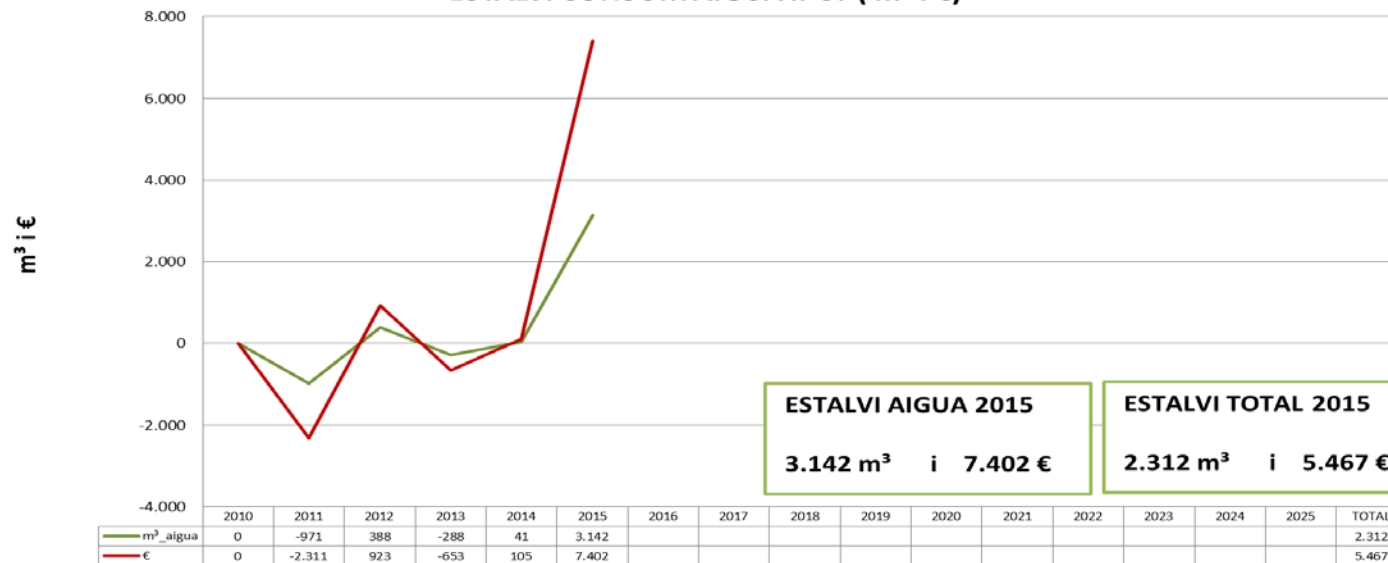
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	TOTAL
— €_kWh_elèctric	0	24.975	-1.004	266	-14.701	-30.107											-20.570
— €_kWh_gas	0	-11.146	3.878	255	-13.577	-9.237											-29.827
— €_kWh_energia	0	13.828	2.874	522	-28.277	-39.344											-50.397

COST CONSUMS IPCT (m³ i €)



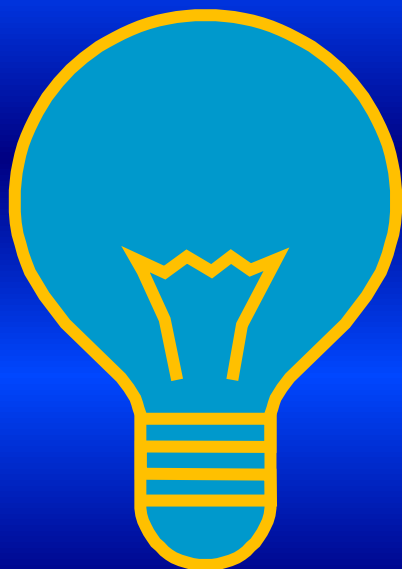
CONSUM I COST AIGUA 2015
4.442 m³ i 10.536 €

ESTALVI CONSUM AIGUA IPCT (m³ i €)



ESTALVI AIGUA 2015
3.142 m³ i 7.402 €

ESTALVI TOTAL 2015
2.312 m³ i 5.467 €



Gestió Energètica 2015

SERVEI D'OBRES I MANTENIMENT DEL CAMPUS TERRASSA



UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Campus de Terrassa