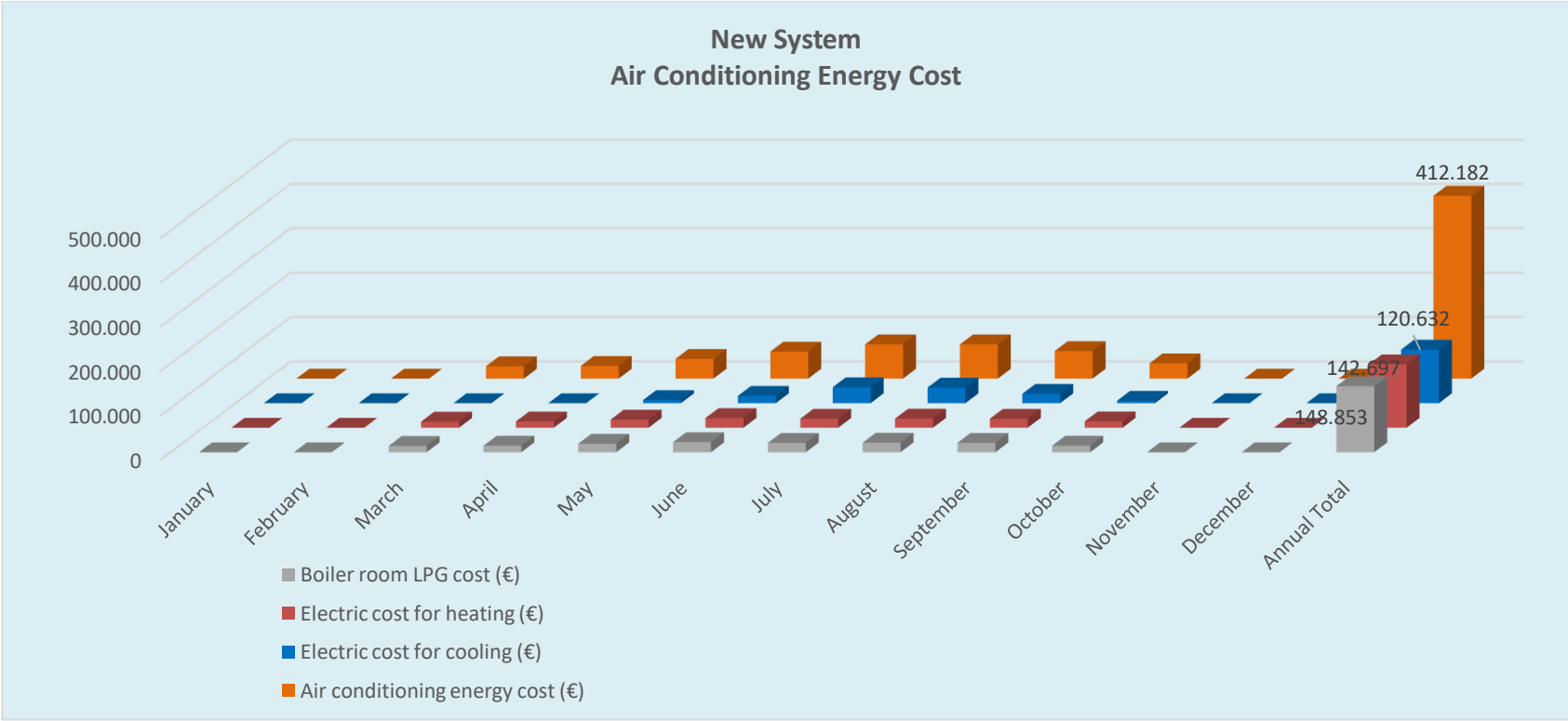
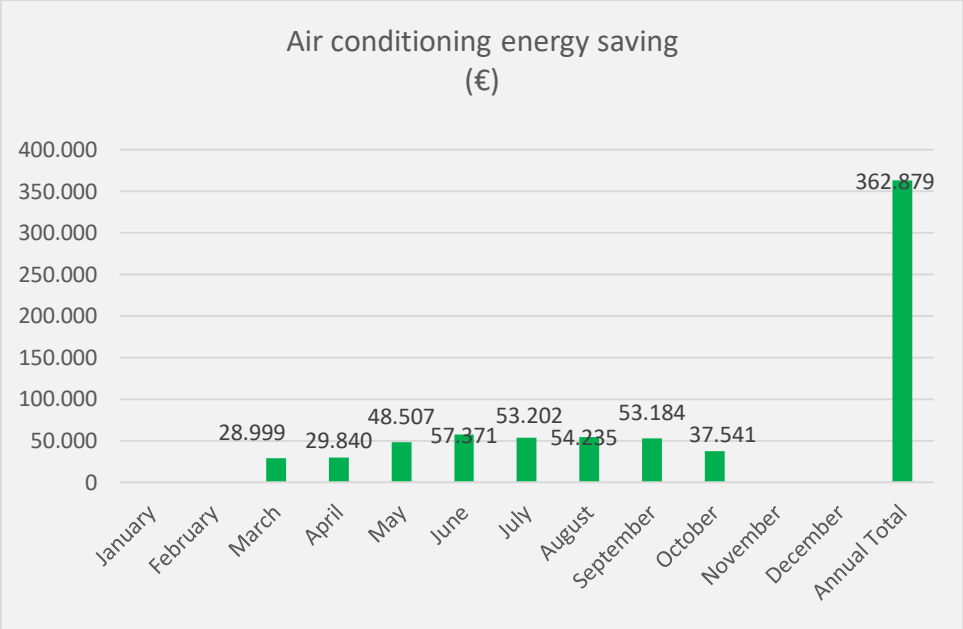
ENERGY ANALYSIS FOR NEW AIR CONDITIONING SYSTEM										
NEW SYSTEM										
Month	**Thermal energy (KWHx1000)**	**Boiler room thermal energy (KWHx1000)**	**Boiler room LPG cost (€)**	**Heat pump thermal energy (KWHx1000)**	**Heat pump electric consumption (KWHx1000)**	**Electric cost for heating (€)**	**Cooling energy (KWHx1000)**	**Electric consumption for cooling (KWHx1000)**	**Electric cost for cooling (€)**	**Air conditioning energy cost (€)**
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	690	203	14.206	518	136	13.618	0	0	0	27.824
April	710	209	14.618	533	140	14.013	0	0	0	28.631
May	930	274	19.147	698	184	18.355	393	69	6.895	44.397
June	1100	324	22.647	825	217	21.711	935	164	16.404	60.761
July	1020	300	21.000	765	201	20.132	2051	360	35.982	77.114
August	1040	306	21.412	780	205	20.526	2000	351	35.088	77.026
September	1020	300	21.000	765	201	20.132	1192	209	20.912	62.044
October	720	212	14.824	540	142	14.211	305	54	5.351	34.385
November	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0
Annual Total	**7.230**	**2.126**	**148.853**	5423	**1.427**	**142.697**	**6.876**	**1.206**	**120.632**	412.182

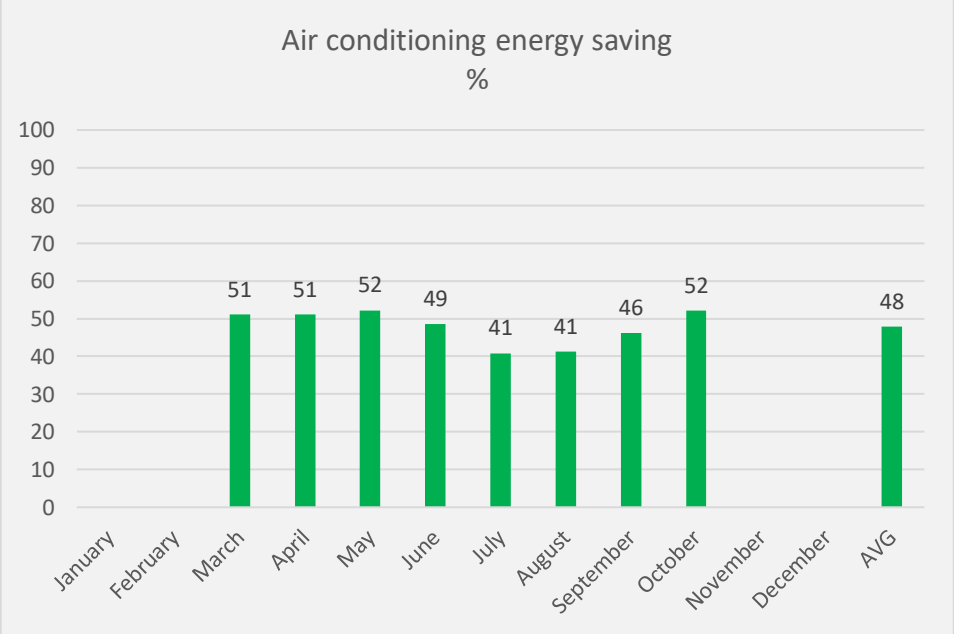
Annual operating cost of boilers and water-cool chillers :

148.853€ + 142.697€ + 120.632€ **= 412.182€**

ANNUAL ENERGY COST SAVINGS
775.061€ - 412.182€ **= 362.879€ → 47%**


New System
Air Conditioning Energy Cost
500.000
400.000
300.000
200.000
100.000
0
412.182
120.632
142.697
148.853
January
February
March
April
May
June
July
August
September
October
November
December
Annual Total
Boiler room LPG cost (€)
Electric cost for heating (€)
Electric cost for cooling (€)
Air conditioning energy cost (€)


Air conditioning energy saving
(€)
400.000
350.000
300.000
250.000
200.000
150.000
100.000
50.000
0
28.999
29.840
48.507
57.371
53.202
54.235
53.184
37.541
362.879
January
February
March
April
May
June
July
August
September
October
November
December
Annual Total


Air conditioning energy saving
%
100
90
80
70
60
50
40
30
20
10
0
51
51
52
49
41
41
46
52
48
January
February
March
April
May
June
July
August
September
October
November
December
AVG