Intestazione ....

RELAZIONE TECNICA

CONDIZIONAMENTO

Indice:

Condizioni al contorno
Dettaglio ambienti
Riepilogo piani/zone/ambienti

Watts Italia s.r.l.

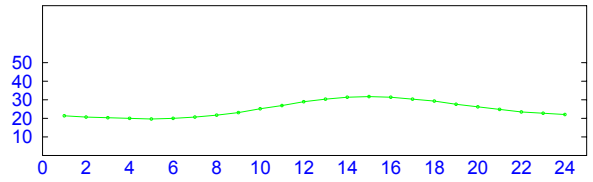
Progetto:

Intestazione ....

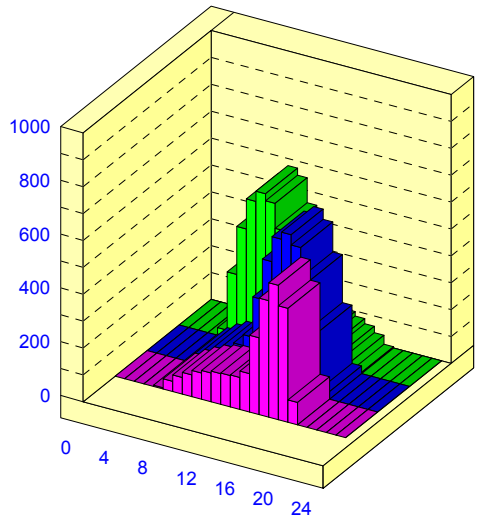
CONDIZIONI ESTERNE DI PROGETTO

Temperatura massima esterna bulbo secco	=	31.9
Escursione massima giornaliera	=	12.0
Umidità relativa esterna	=	48.0
Umidità assoluta esterna	=	14.3
Coefficiente di limpidezza atmosferico	=	1.00

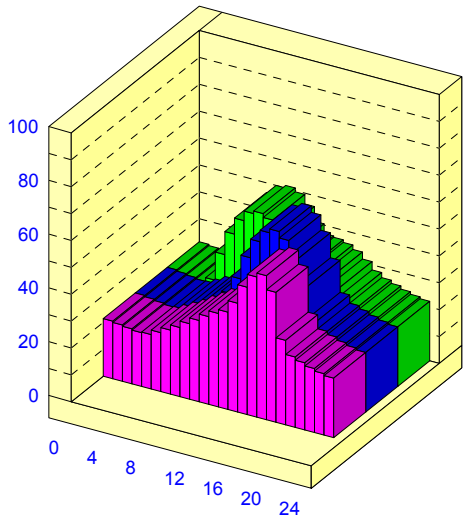
TEMPERATURA ESTERNA



SOLAR HEAT GAIN (W/m²)



TEMPERATURA SOLE-ARIA



SE SW NW

PROFILO ORARIO DELLE CONDIZIONI ESTERNE DEL GIORNO 21 Luglio (ora solare)

Ora	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	temperatura esterna													
	20.7	21.8	23.4	25.2	27.2	29.1	30.6	31.5	31.9	31.5	30.7	29.4	27.8	26.3
	temperatura sole-aria in [°C]													
SE	40.6	46.5	50.0	50.9	49.5	45.9	40.4	37.0	36.5	35.5	33.7	31.2	28.1	26.3
SW	23.8	25.7	28.0	30.6	37.0	45.9	52.8	57.2	58.5	56.2	50.5	41.2	29.3	26.3
NW	23.8	25.7	28.0	30.3	32.7	34.7	36.3	40.5	47.4	52.2	53.5	48.4	31.5	26.3
	apporto solare SGHF in [W/m²]													
SE	425	535	575	547	454	305	156	113	97	82	63	39	6	0
SW	63	82	97	113	156	305	454	547	575	535	425	245	28	0
NW	63	82	97	107	114	116	119	142	285	433	499	425	82	0

Watts Italia s.r.l.

Progetto:

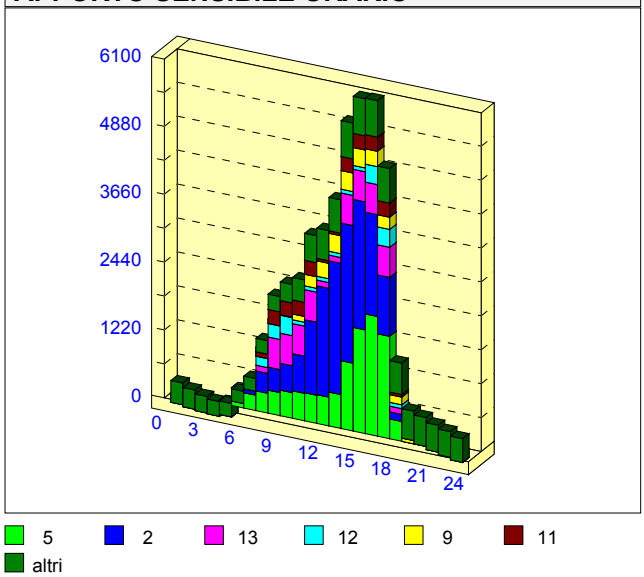
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010101	UFFICIO 01			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	7.25	5.00	3.05	110.6

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SW	0.50		25.00	3.05	69.85	0.60
02	S.E 200	4	SW	2.94		1.00	1.60	6.40	0.59
03	PTE 702	4		0.44		3.20	1.00	0.00	
04	P.E 103	1	NW	0.50		7.25	3.05	15.71	1.00
05	S.E 200	4	NW	2.94		1.00	1.60	6.40	0.59
06	P.I 301	1		1.27		11.00	3.05	33.55	
07	PAV 508	1	TF	1.05	4	5.00	7.25	36.25	
08	SOF 602	1		0.24		5.00	7.25	36.25	0.30

APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
09	1.85	144	39.9	
	Qop =	11.000	l/s pers.	

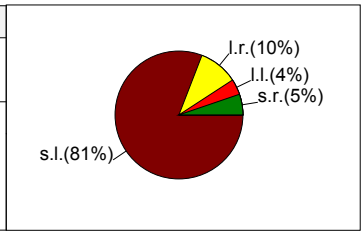
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
10	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
11	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(4) 10	70 58	70	254 210	
12	Illuminazione a incandescenza 10W/m2	(33) 90	10 0	80	326 0	
13	Personal Computer (Fundamentals 1989)	(4) 10	150 0	50	544 0	

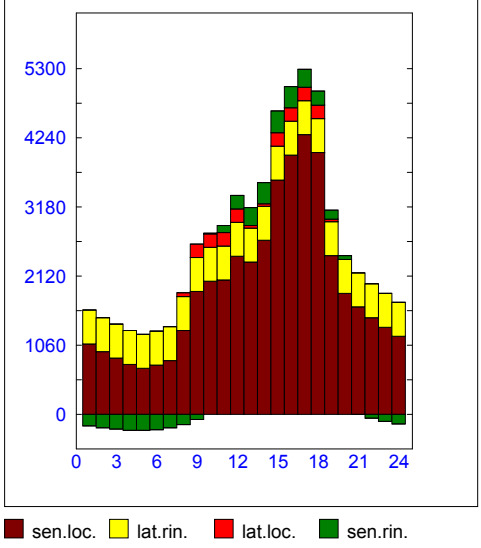
TOTALI: [W]

Carico Massimo teorico 5327 **Ora 17**

Latente		Sensibile	
rinnovo	526	rinnovo	280
locale	210	locale	4311
Totale	**736**	**Totale**	**4591**



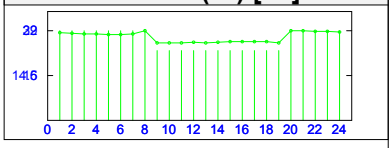
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa	=	4573	W
Differenziale termostato	=	1.0	°C
ERmax	=	4606	W
ERmin	=	0	W

TERMOSTATO (T) [°C] TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	27.7	27.8	28.0	29.0	25.1	25.1	25.1	25.2	25.2	25.2	25.4	25.4	25.5	25.4	25.1

Watts Italia s.r.l.

Progetto:

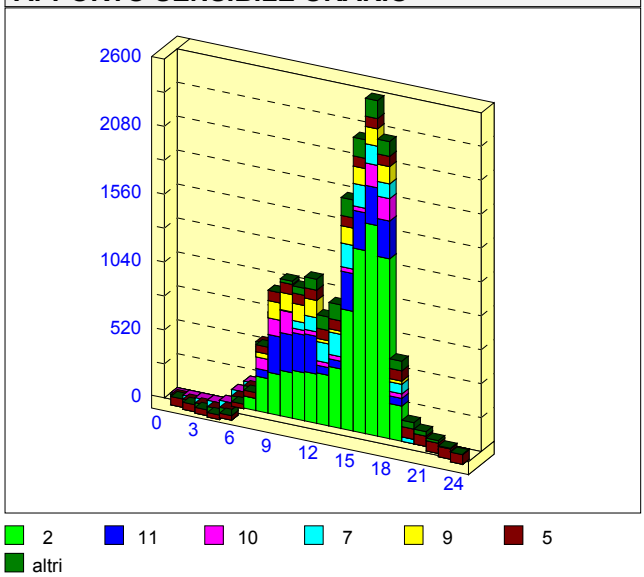
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010102	UFFICIO 02			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	3.50	5.50	3.05	58.7

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	NW	0.50		3.50	3.05	5.87	0.60
02	S.E 200	3	NW	2.94		1.00	1.60	4.80	0.59
03	PTE 702	3		0.44		3.20	1.00	0.00	
04	P.I 301	1		1.27		13.00	3.05	39.65	
05	PAV 508	1	TF	1.05	4	5.50	3.50	19.25	
06	SOF 602	1		0.24	0	5.50	3.50	19.25	0.30

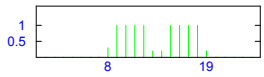
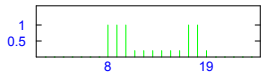
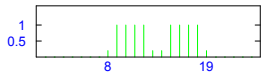
APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	76	21.2	
	Qop =	11.000	l/s pers.	

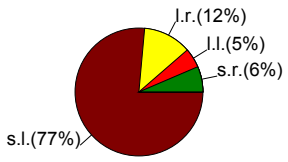
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(2) 10	70 58	70	135 112	
10	Illuminazione a incandescenza 10W/m2	(17) 90	10 0	80	173 0	
11	Personal Computer (Fundamentals 1989)	(2) 10	150 0	50	289 0	

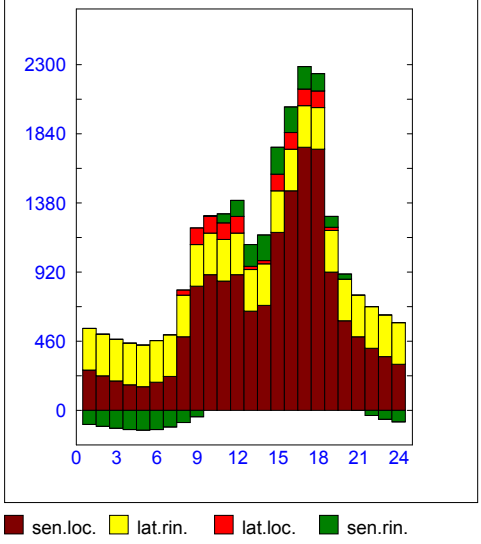
TOTALI: [W]

Carico Massimo teorico 2300 **Ora 17**

Latente		Sensibile	
rinnovo	279	rinnovo	148
locale	112	locale	1761
Totale	**391**	**Totale**	**1909**



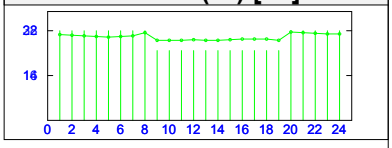
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 1800 W
Differenziale termostato = 1.0 °C
ERmax = 1804 W
ERmin = 0 W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	26.1	26.2	26.4	27.5	25.1	25.1	25.1	25.1	25.0	25.0	25.2	25.4	25.5	25.5	25.1

Progetto:

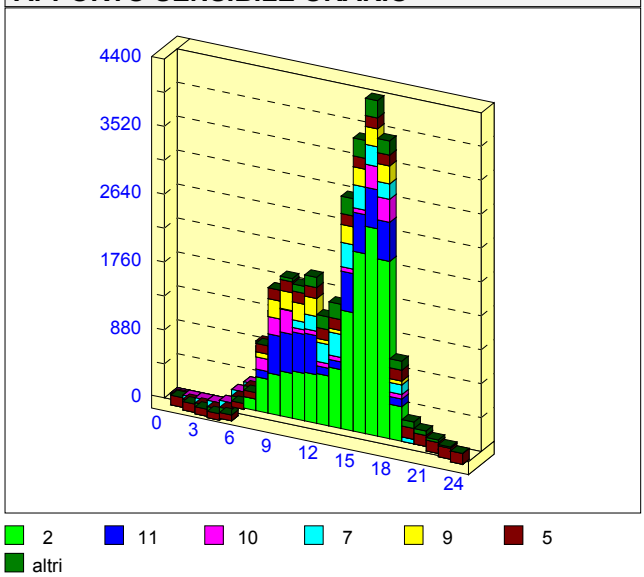
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010103	UFFICIO 03			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	6.10	5.50	3.05	102.3

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	NW	0.50		6.10	3.05	10.60	0.60
02	S.E 200	5	NW	2.94		1.00	1.60	8.00	0.59
03	PTE 702	5		0.44		3.20	1.00	0.00	
04	P.I 301	1		1.27		16.00	3.05	48.80	
05	PAV 508	1	TF	1.05	4	5.50	6.10	33.55	
06	SOF 602	1		0.24		5.50	6.10	33.55	0.30

APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	133	36.9	
	Qop =	11.000	l/s pers.	

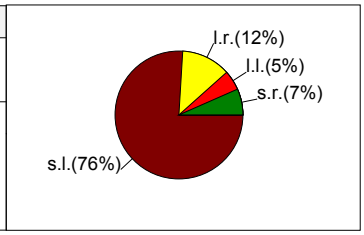
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(3) 10	70 58	70	235 195	
10	Illuminazione a incandescenza 10W/m2	(30) 90	10 0	80	302 0	
11	Personal Computer (Fundamentals 1989)	(3) 10	150 0	50	503 0	

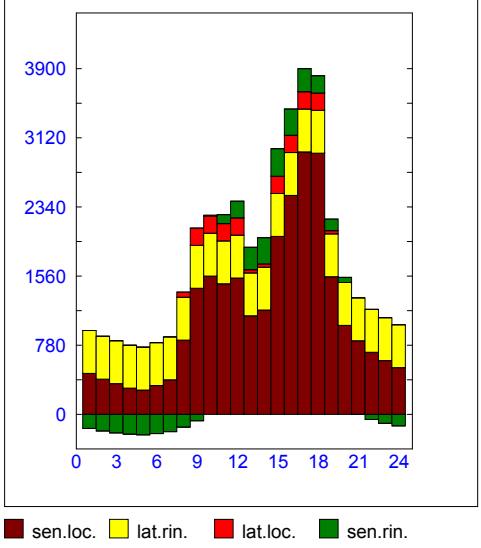
TOTALI: [W]

Carico Massimo teorico 3918 **Ora 17**

Latente		Sensibile	
rinnovo	487	rinnovo	259
locale	195	locale	2978
Totale	**682**	**Totale**	**3237**



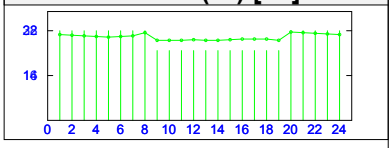
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 3051 W
Differenziale termostato = 1.0 °C
ERmax = 3060 W
ERmin = 0 W

TERMOSTATO (T) [°C] TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	26.1	26.2	26.4	27.4	25.1	25.1	25.1	25.1	25.0	25.0	25.3	25.4	25.5	25.5	25.1

Progetto:

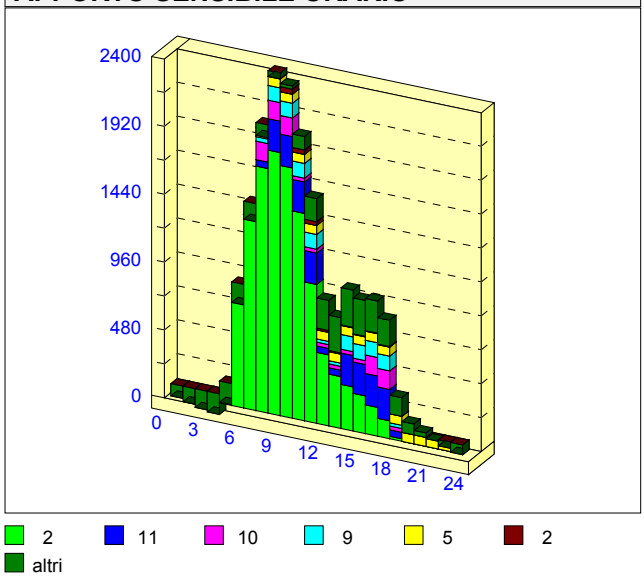
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010104	UFFICIO 04			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	3.70	4.00	3.05	45.1

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SE	0.50		3.70	3.05	6.48	0.60
02	S.E 200	3	SE	2.94		1.00	1.60	4.80	0.59
03	PTE 702	3		0.44		3.20	1.00	0.00	
04	P.I 301	1		1.27		12.00	3.05	36.60	
05	PAV 508	1	TF	1.05	4	4.00	3.70	14.80	
06	SOF 602	1		0.24		4.00	3.70	14.80	0.30

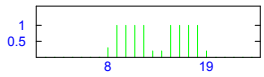
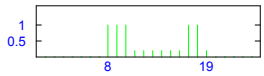
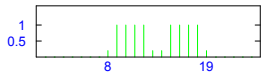
APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	59	16.3	
	Qop =	11.000	l/s pers.	

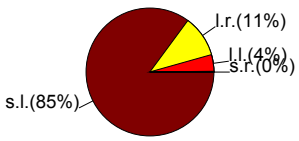
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(1) 10	70 58	70	104 86	
10	Illuminazione a incandescenza 10W/m2	(13) 90	10 0	80	133 0	
11	Personal Computer (Fundamentals 1989)	(1) 10	150 0	50	222 0	

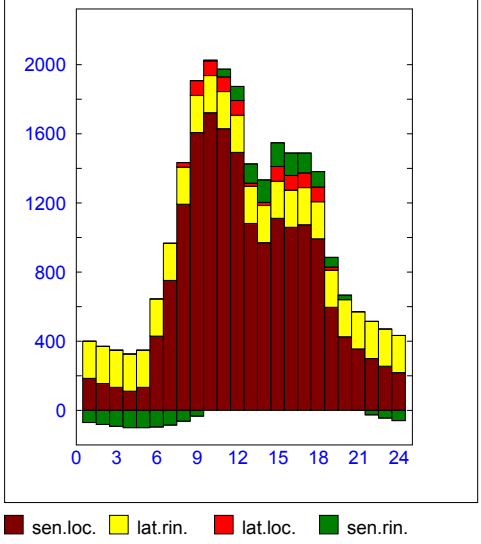
TOTALI: [W]

Carico Massimo teorico 2036 **Ora 10**

Latente		Sensibile	
rinnovo	215	rinnovo	4
locale	86	locale	1731
Totale	**301**	**Totale**	**1735**



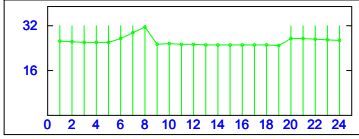
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 1923 W
Differenziale termostato = 1.0 °C
ERmax = 1923 W
ERmin = 0 W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	26.0	27.5	29.4	31.6	25.5	25.5	25.5	25.4	25.2	25.1	25.2	25.2	25.1	25.1	24.9

Watts Italia s.r.l.

Progetto:

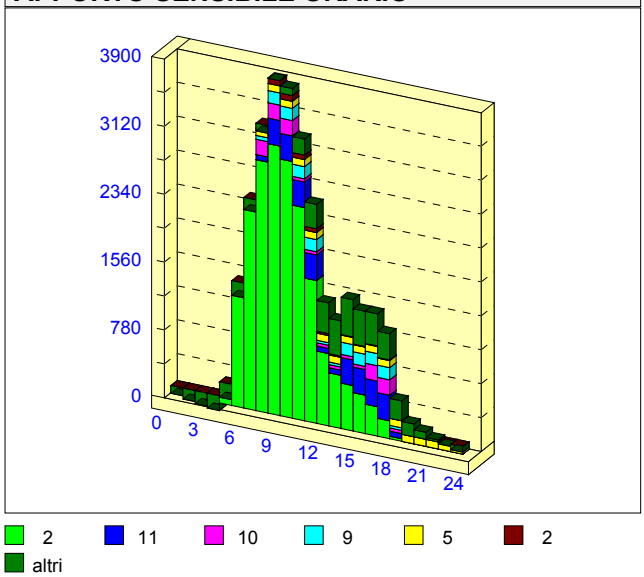
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010105	UFFICIO 05			
Uri = 50	q	largh	lungh	altez	volume
Ta = 24	1	4.90	4.00	3.05	59.8

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SE	0.50	0	3.70	3.05	3.28	0.60
02	S.E 200	5	SE	2.94		1.00	1.60	8.00	0.59
03	PTE 702	5		0.44		3.20	1.00	0.00	
04	P.I 301	1		1.27		12.00	3.05	36.60	
05	PAV 508	1	TF	1.05	4	4.00	4.90	19.60	
06	SOF 602	1		0.24		4.00	4.90	19.60	0.30

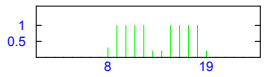
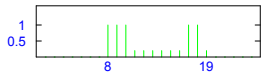
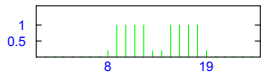
APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	78	21.6	
	Qop =	11.000	l/s pers.	

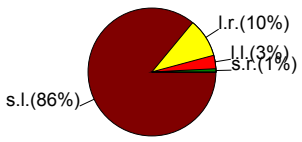
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(2) 10	70 58	70	137 114	
10	Illuminazione a incandescenza 10W/m2	(18) 90	10 0	80	176 0	
11	Personal Computer (Fundamentals 1989)	(2) 10	150 0	50	294 0	

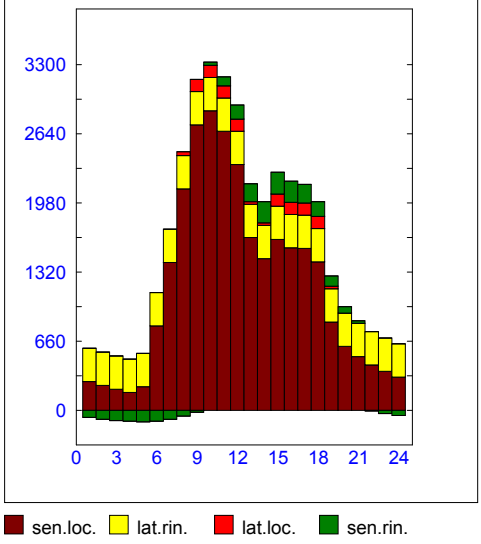
TOTALI: [W]

Carico Massimo teorico 3343 **Ora 10**

Latente		Sensibile	
rinnovo	322	rinnovo	31
locale	114	locale	2876
Totale	**436**	**Totale**	**2907**



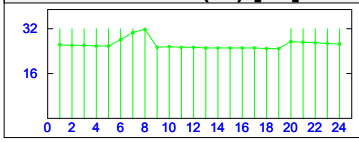
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa	=	3085	W
Differenziale termostato	=	1.0	°C
ERmax	=	3097	W
ERmin	=	0	W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	25.9	28.1	30.7	31.7	25.5	25.5	25.4	25.3	25.1	25.1	25.1	25.1	25.1	25.0	24.8

Progetto:

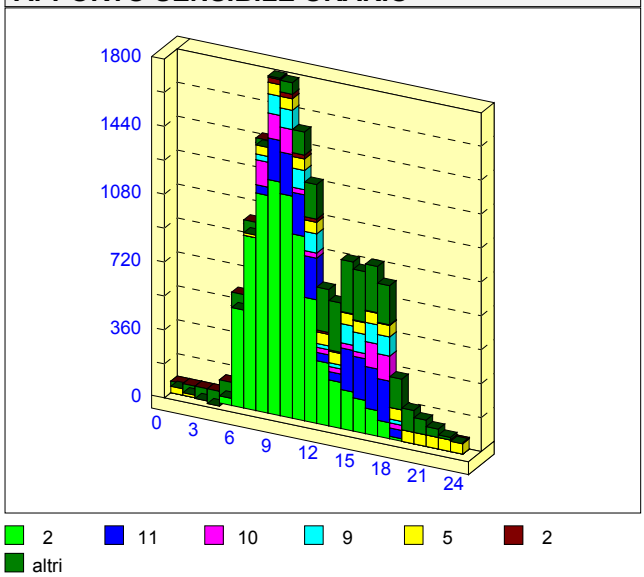
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010106	UFFICIO 06			
Uri = 50	q	largh	lungh	altez	volume
Ta = 24	1	3.70	4.00	3.05	45.1

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SE	0.50		3.70	3.05	8.08	0.60
02	S.E 200	2	SE	2.94		1.00	1.60	3.20	0.59
03	PTE 702	2		0.44		3.20	1.00	0.00	
04	P.I 301	1		1.27		12.00	3.05	36.60	
05	PAV 508	1	TF	1.05	4	4.00	3.70	14.80	
06	SOF 602	1		0.24		4.00	3.70	14.80	0.30

APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = UF1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	59	16.3	
	Qop =	11.000	l/s pers.	

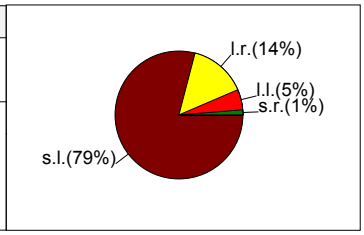
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(1) 10	70 58	70	104 86	
10	Illuminazione a incandescenza 10W/m2	(13) 90	10 0	80	133 0	
11	Personal Computer (Fundamentals 1989)	(1) 10	150 0	50	222 0	

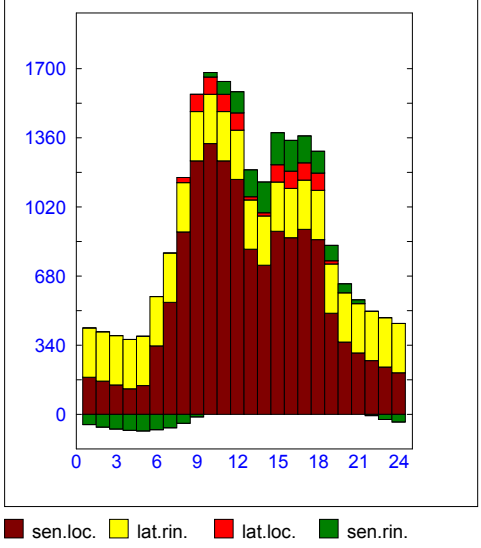
TOTALI: [W]

Carico Massimo teorico 1692 **Ora 10**

Latente		Sensibile	
rinnovo	243	rinnovo	24
locale	86	locale	1340
Totale	**329**	**Totale**	**1364**



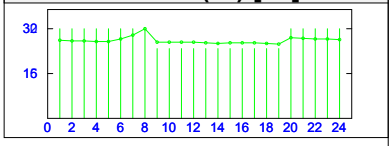
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 1419 W
Differenziale termostato = 1.0 °C
ERmax = 1424 W
ERmin = 0 W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	25.7	26.7	28.0	30.1	25.5	25.5	25.5	25.4	25.2	25.1	25.2	25.2	25.2	25.2	24.9

Watts Italia s.r.l.

Progetto:

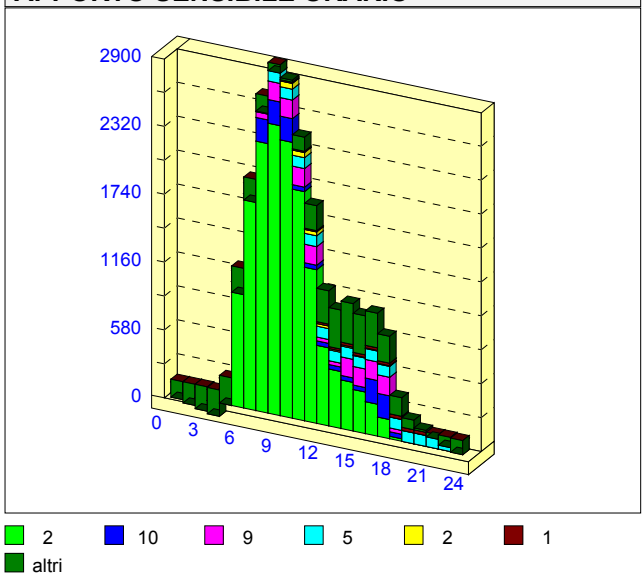
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010107	ATTESA			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	4.50	5.00	3.05	68.6

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SE	0.50		4.50	3.05	7.32	0.60
02	S.E 200	4	SE	2.94		1.00	1.60	6.40	0.59
03	PTE 702	4		0.44	0	3.20	1.00	0.00	
04	P.I 301	1		1.27		12.00	3.05	36.60	
05	PAV 508	1	TF	1.05	4	5.00	4.50	22.50	
06	SOF 602	1		0.24		5.00	4.50	22.50	0.30

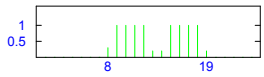
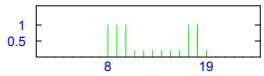
APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = AT1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
07	1.85	89	24.8	
	Qop =	11.000	l/s pers.	

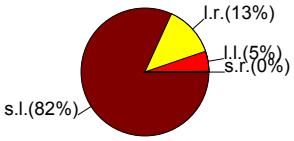
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
08	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
09	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(2) 10	70 58	70	158 131	
10	Illuminazione a incandescenza 10W/m2	(20) 90	10 0	80	202 0	

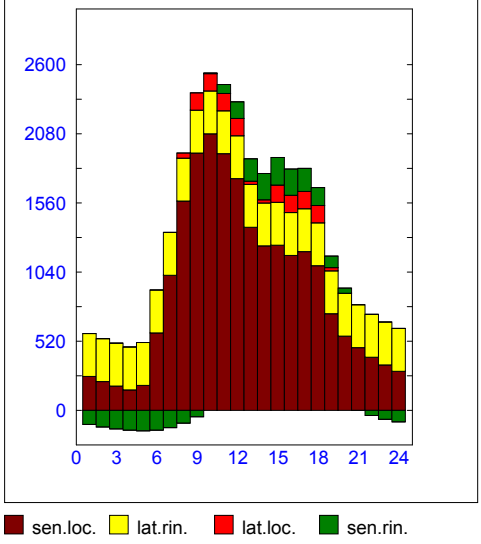
TOTALI: [W]

Carico Massimo teorico 2551 **Ora 10**

Latente		Sensibile	
rinnovo	326	rinnovo	5
locale	131	locale	2089
Totale	**457**	**Totale**	**2094**



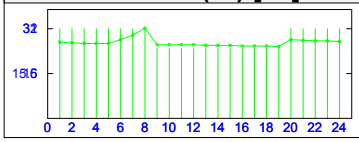
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 2348 W
Differenziale termostato = 1.0 °C
ERmax = 2368 W
ERmin = 0 W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	25.9	27.2	28.9	31.2	25.5	25.5	25.4	25.4	25.2	25.2	25.2	25.1	25.1	25.0	24.9

Watts Italia s.r.l.

Progetto:

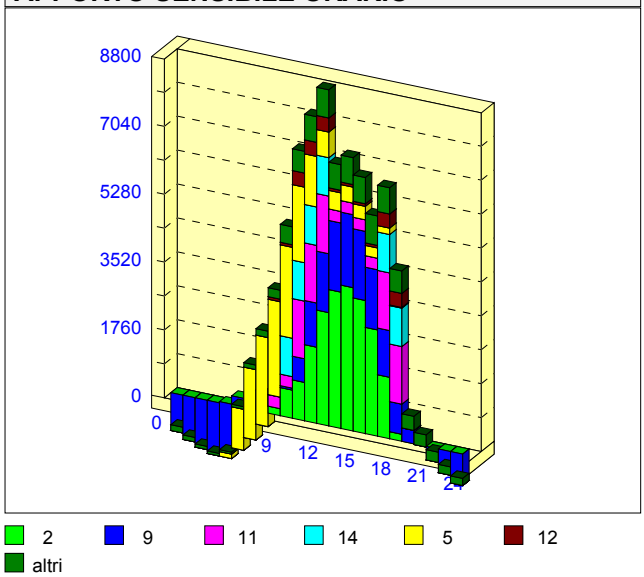
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010108	RIUNIONI			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	8.30	5.00	3.05	126.6

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	SW	0.50		8.30	3.05	15.72	0.60
02	S.E 200	6	SW	2.94	0	1.00	1.60	9.60	0.59
03	PTE 702	6		0.44	0	3.20	1.00	0.00	
04	P.E 103	1	SE	0.50	0	5.00	3.05	8.85	1.00
05	S.E 200	4	SE	2.94	0	1.00	1.60	6.40	0.59
06	P.I 301	1		1.27		13.00	3.05	39.65	
07	PAV 508	1	TF	1.05	4	5.00	8.30	41.50	
08	SOF 602	1		0.24	0	5.00	8.30	41.50	0.30

APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = RI1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
09	9.10	807	224.1	
	Qop =	10.000	l/s pers.	

nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
10	0.00	0	0.0	

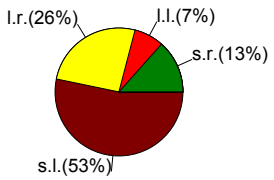
nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
11	Persona seduta a riposo amb. 25°C (PIZZETTI)	(22) 54	67 38	70	1501 852	
12	Illuminazione a incandescenza 10W/m2	(37) 90	10 0	80	373 0	
13	Personal Computer (Fundamentals 1989)	1 (2)	150 0	50	150 0	

..... continua

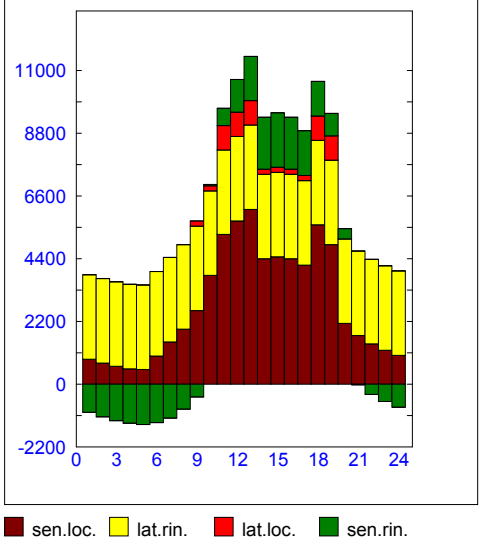
TOTALI: [W]

Carico Massimo teorico 11442 **Ora 13**

Latente		Sensibile	
rinnovo	2954	rinnovo	1538
locale	852	locale	6098
Totale	**3806**	**Totale**	**7636**



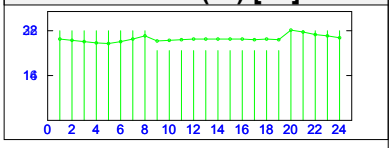
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 7137 W
Differenziale termostato = 1.0 °C
ERmax = 7146 W
ERmin = 0 W

TERMOSTATO (T) [°C] TEMP. REALE (Tr) [°C]

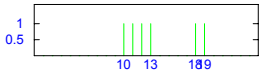


Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	24.0	24.5	25.3	26.3	24.8	25.0	25.3	25.4	25.5	25.3	25.4	25.3	25.3	25.4	25.3

Watts Italia s.r.l.

Progetto:

Intestazione ....

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
14	LAVAGNA LUMINOSA	1 (2)	1000 0	50	1000 0	

Progetto:

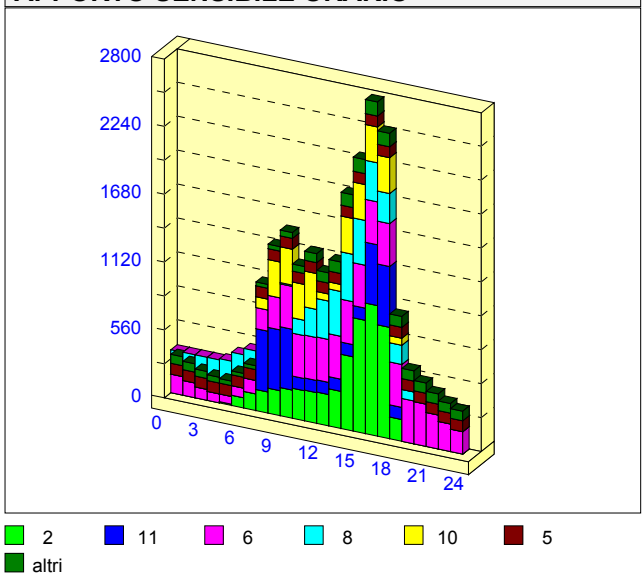
Intestazione ....

DESCRIZIONE DI OGNI AMBIENTE

AMBIENTE :	010109	CORRIDOIO			
Uri = 50	q	largh	lungh	altez	volume
Ta = 25	1	12.00	7.00	3.05	256.2

nr	Co-str	q	es	k W/mK	dt K	lungh m	al/la m	superf m²	alfa/ Ft·g·Fc
01	P.E 103	1	NW	0.50		2.30	3.05	3.81	0.60
02	S.E 200	2	NW	2.94	0	1.00	1.60	3.20	0.59
03	PTE 702	2		0.44	0	3.20	1.00	0.00	
04	P.I 301	1		1.27		12.00	3.05	36.60	
05	P.I 303	1	U1	0.93	4	8.00	3.05	24.40	
06	PAV 508	1	TF	1.05	4	7.00	12.00	84.00	
07	SOF 602	1		0.24	0	7.00	12.00	84.00	0.30

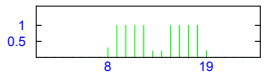
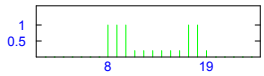
APPORTO SENSIBILE ORARIO



RICAMBI APPORTI: chiave = CO1

nr	ricambi rinnovo	portata m³/h	aria l/s	prog. oraria
08	0.93	166	46.2	
	Qop =	11.000	l/s pers.	

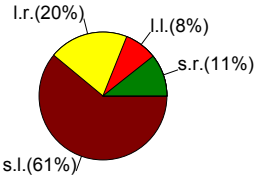
nr	ricambi infiltraz.	portata m³/h	aria l/s	prog. oraria
09	0.00	0	0.0	

nr	Descrizione apporti	N ns	sensibile latente	% rad	Tot sen[W] Tot lat[W]	Prog. oraria
10	Impiegato di ufficio attività moderata amb. 25°C (PIZZETTI)	(4) 5	70 58	70	294 244	
11	Illuminazione a incandescenza 10W/m2	(50) 60	10 0	80	504 0	

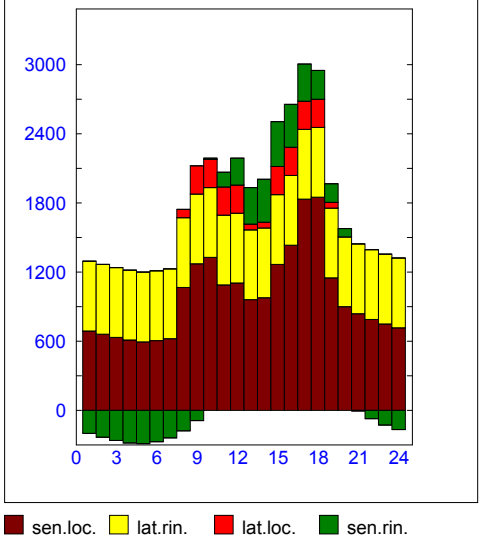
TOTALI: [W]

Carico Massimo teorico 3019 **Ora 17**

Latente		Sensibile	
rinnovo	609	rinnovo	324
locale	244	locale	1843
Totale	**853**	**Totale**	**2167**



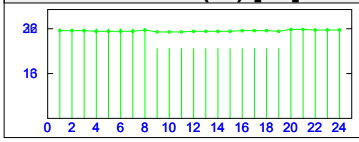
CARICO TOTALE ORARIO



SIMULAZIONE DI FUNZIONAMENTO

Potenza sensibile rimossa = 1196 W
Differenziale termostato = 1.0 °C
ERmax = 1197 W
ERmin = 0 W

TERMOSTATO (T) [°C]
TEMP. REALE (Tr) [°C]



Ora	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
T	32.0	32.0	32.0	32.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Tr	25.3	25.3	25.3	25.6	25.1	25.1	25.1	25.2	25.2	25.2	25.3	25.4	25.5	25.5	25.2

Watts Italia s.r.l.

Progetto:

Intestazione ....

PROFILO ORARIO DEL CARICO TERMICO GLOBALE DEL GIORNO 21 Luglio (ora solare)

Ora	7	8	9	10	11	12	13	14
W	10966	16034	22003	25150	27504	28788	26311	24354
Ora	15	16	17	18	19	20	21	22
W	28607	29378	30280	30981	22284	15150	13134	11524

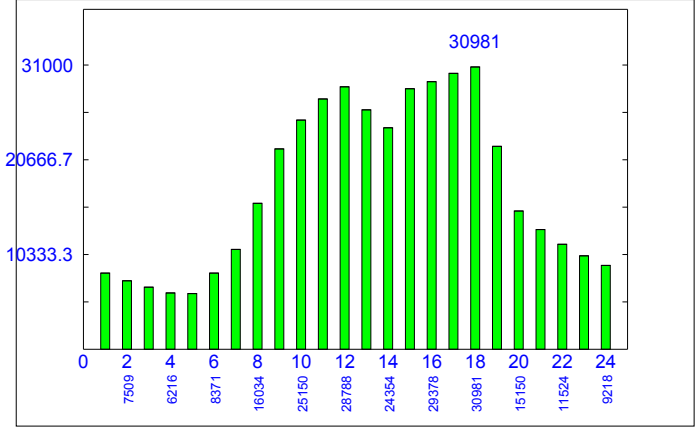
RIEPILOGO CARICO TERMICO ESTIVO MESE: Luglio

denominazione zona	dati risultati dall'analisi in regime continuo					potenze di picco unità terminali		
		portata di ventilaz in l/s ; carichi in W				pot necess	a.prim.+FC	tutta aria
	tbs °C *UR %*	volume ***port. rinn***	**ora critica** ***carico tot***	**sens. loc** *sens. rinn*	laten. loc *laten. rinn*	sensibile *totale*	tbs di imm *potenza FC*	tbs di imm *portata l/s*
GLOBALE EDIFICIO		611 *447.1*	18 *30981*	20537 *2455*	2028 *5961*			
01 Piano ultimo								
0101 Globale								
01 UFFICIO 01	25 *50*	77 *39.9*	17 *5327*	4311 *280*	210 *526*	4591 *5327*	15.0 *3821*	21.0 *876.3*
02 UFFICIO 02	25 *50*	41 *21.2*	17 *2300*	1761 *148*	112 *279*	1909 *2300*	15.0 *1500*	21.0 *357.8*
03 UFFICIO 03	25 *50*	72 *36.9*	17 *3918*	2978 *259*	195 *487*	3237 *3918*	15.0 *2524*	21.0 *605.4*
04 UFFICIO 04	25 *50*	32 *16.3*	10 *2036*	1731 *4*	86 *215*	1735 *2036*	15.0 *1531*	21.0 *351.9*
05 UFFICIO 05	24 *50*	42 *21.6*	10 *3343*	2876 *31*	114 *322*	2908 *3343*	15.0 *2638*	21.0 *779.5*
06 UFFICIO 06	24 *50*	32 *16.3*	10 *1692*	1340 *24*	86 *243*	1363 *1692*	15.0 *1160*	21.0 *363.1*
07 ATTESA	25 *50*	48 *24.8*	10 *2551*	2089 *5*	131 *326*	2094 *2551*	15.0 *1785*	21.0 *424.6*
08 RIUNIONI	25 *50*	89 *224.1*	13 *11442*	6098 *1538*	852 *2954*	7636 *11442*	20.0 *4719*	21.0 *1239.3*
09 CORRIDOIO	25 *50*	179 *46.2*	17 *3019*	1843 *324*	244 *609*	2167 *3019*	15.0 *1274*	21.0 *374.5*

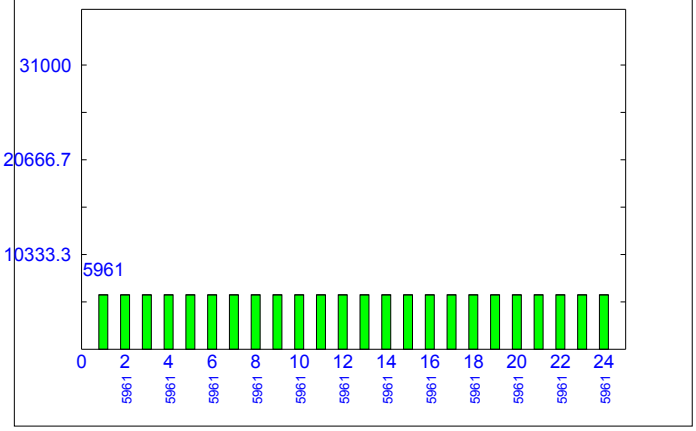
Intestazione ....

TOTALI EDIFICIO [W]

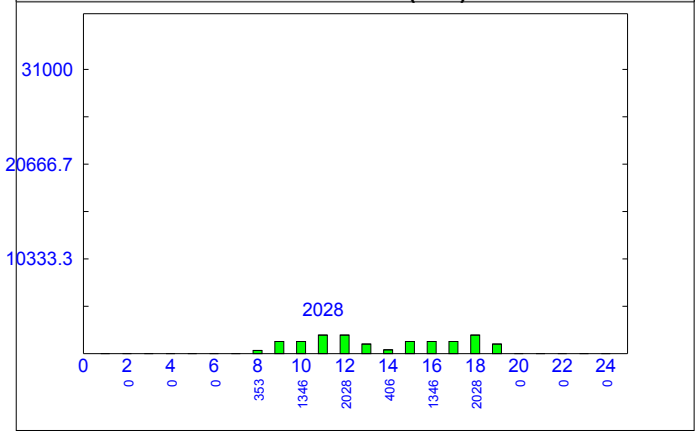
Carico totale



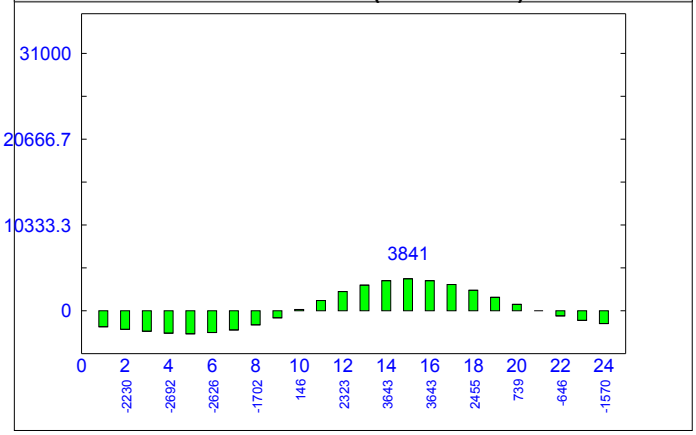
Carico latente (ventilazione)



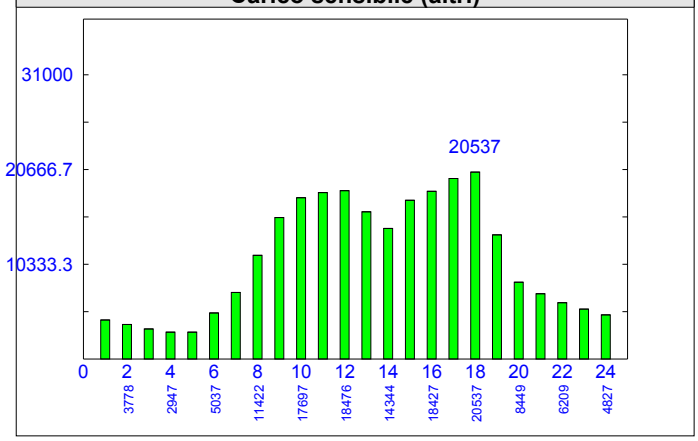
Carico latente (altri)



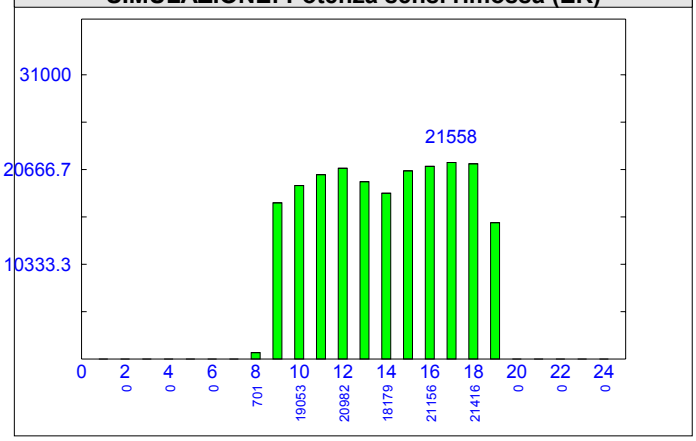
Carico sensibile (ventilazione)



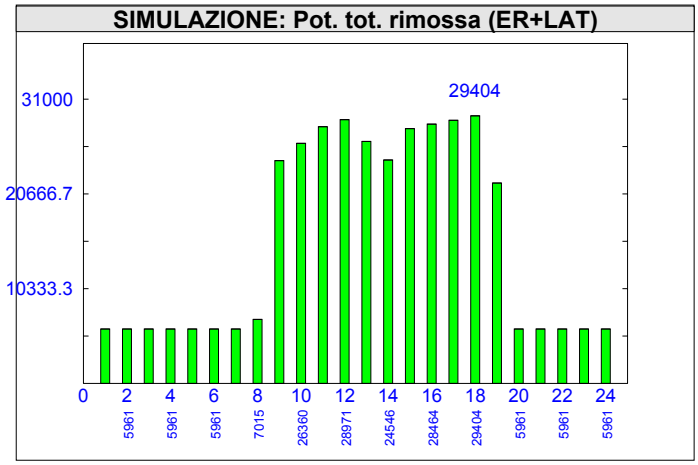
Carico sensibile (altri)



SIMULAZIONE: Potenza sens. rimossa (ER)



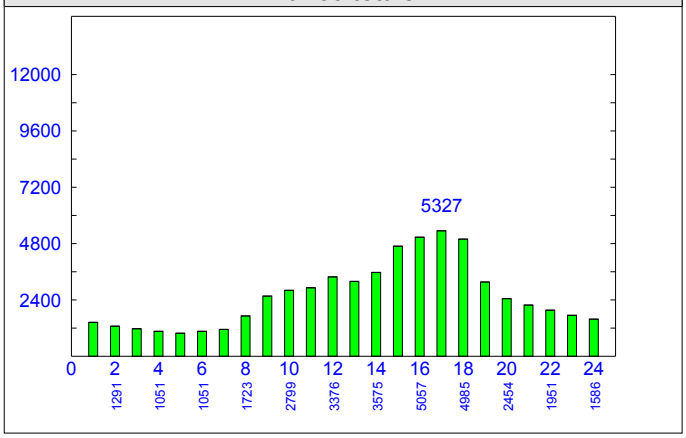
SIMULAZIONE: Pot. tot. rimossa (ER+LAT)



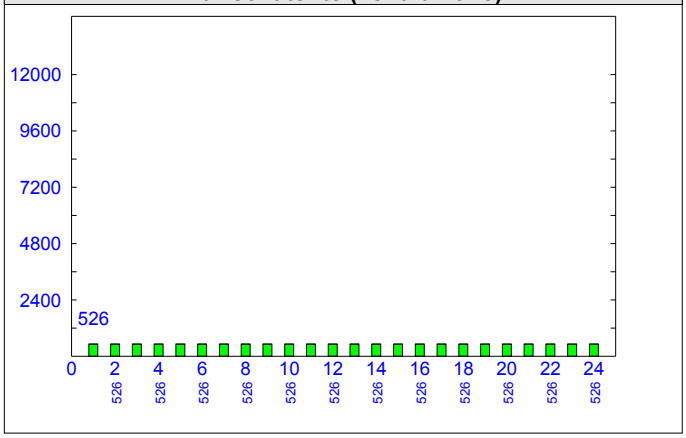
Intestazione ....

TOTALI AMBIENTE : 010101 UFFICIO 01

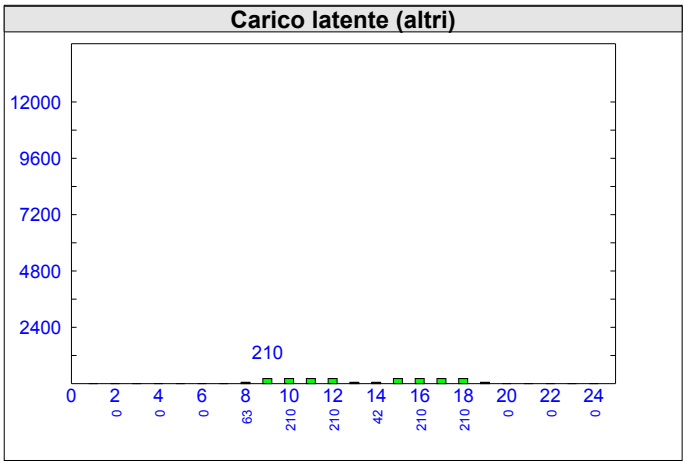
Carico totale



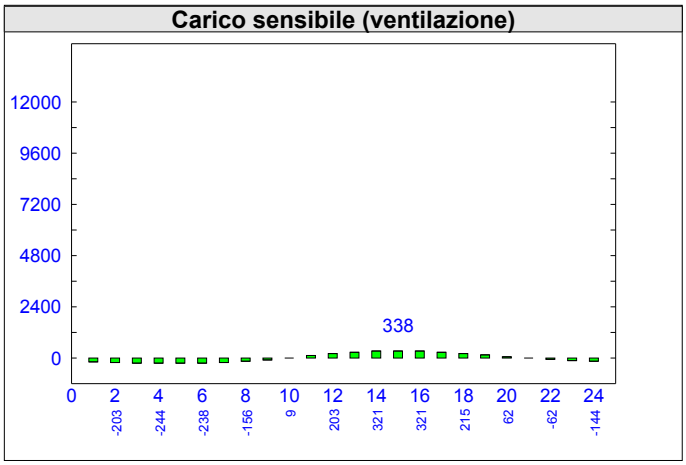
Carico latente (ventilazione)



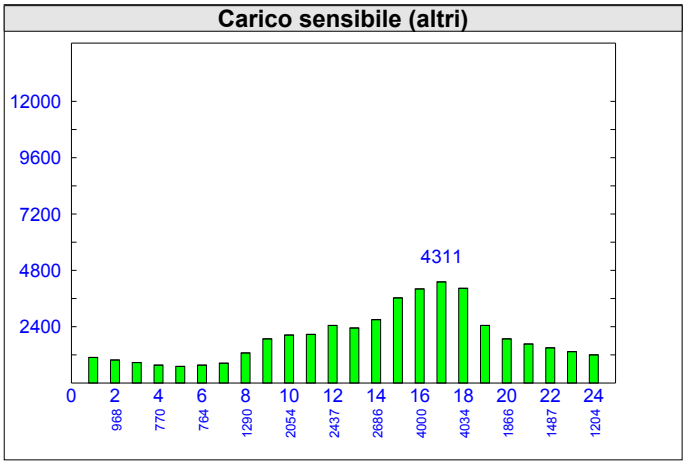
Carico latente (altri)



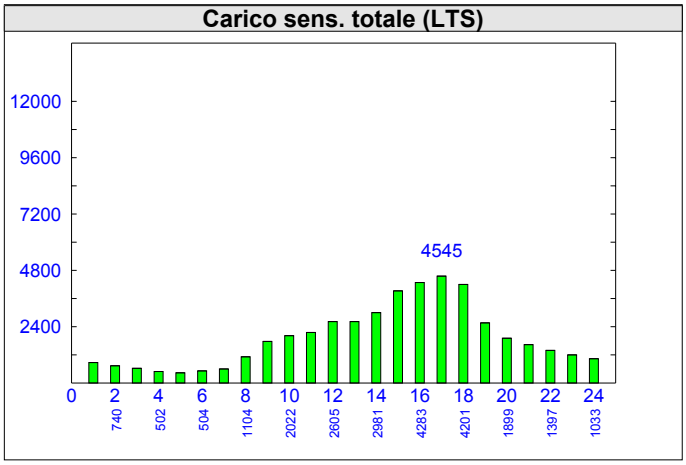
Carico sensibile (ventilazione)



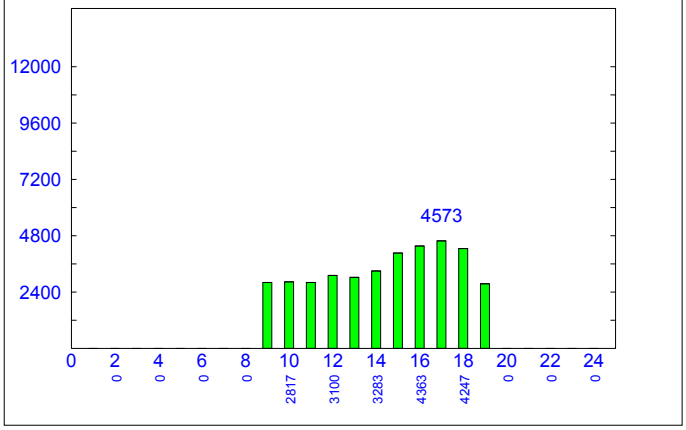
Carico sensibile (altri)



Carico sens. totale (LTS)



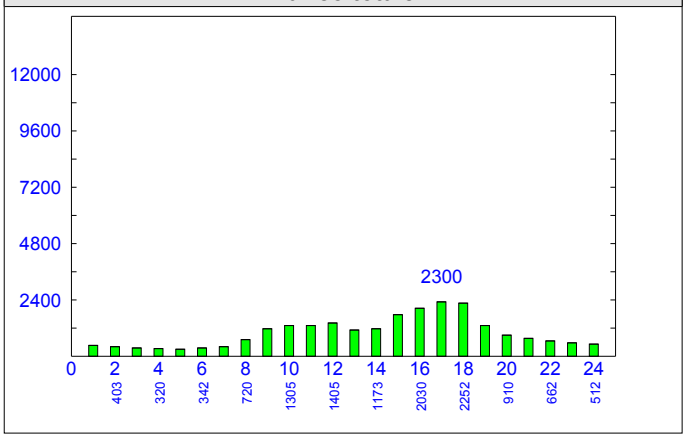
SIMULAZIONE: Potenza sens. rimossa (ER)



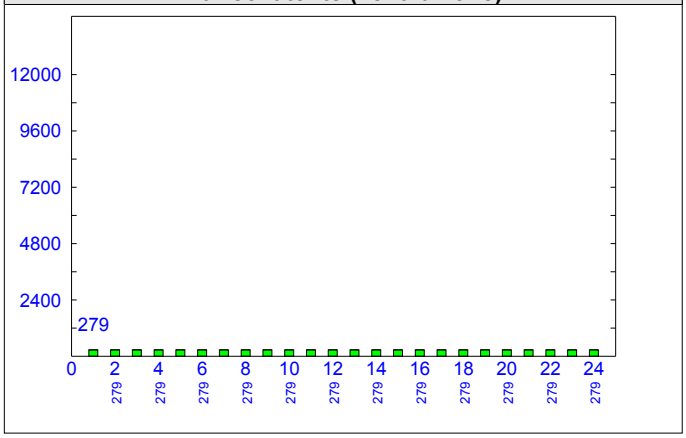
Intestazione ....

TOTALI AMBIENTE : 010102 UFFICIO 02

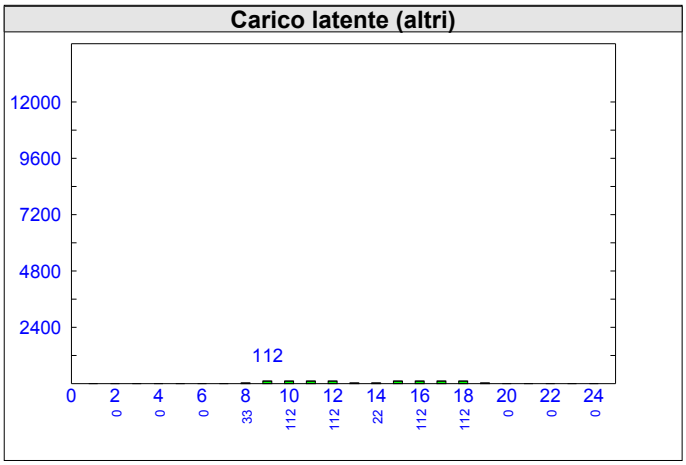
Carico totale



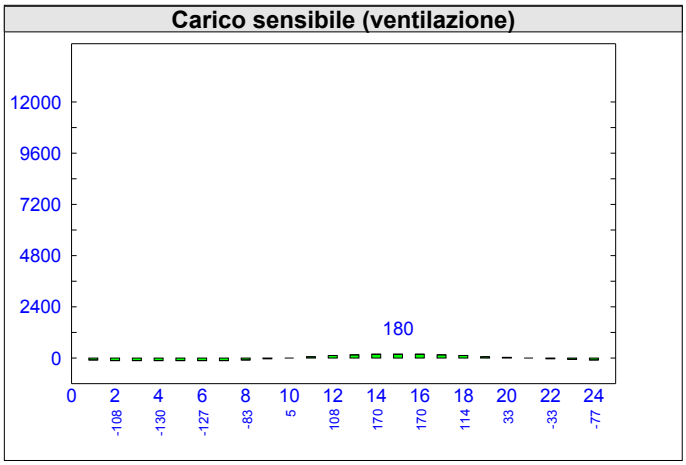
Carico latente (ventilazione)



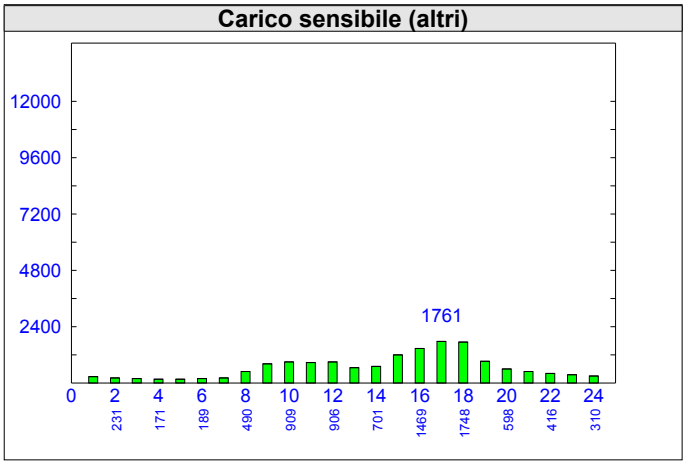
Carico latente (altri)



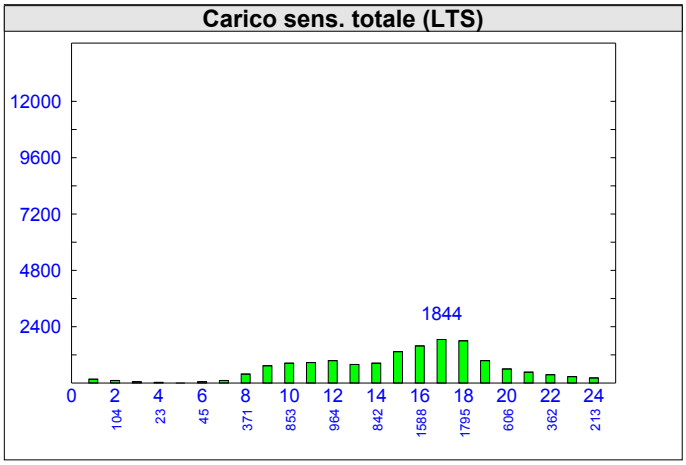
Carico sensibile (ventilazione)



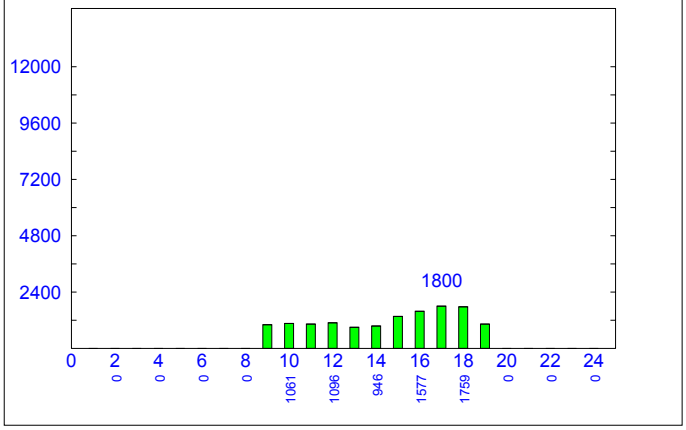
Carico sensibile (altri)



Carico sens. totale (LTS)



SIMULAZIONE: Potenza sens. rimossa (ER)

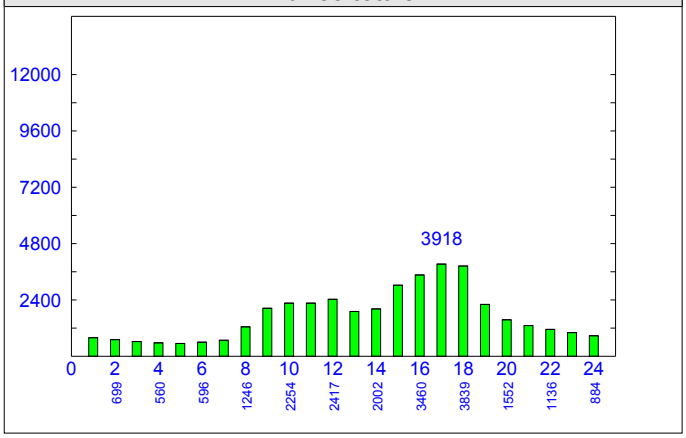


Watts Italia s.r.l.

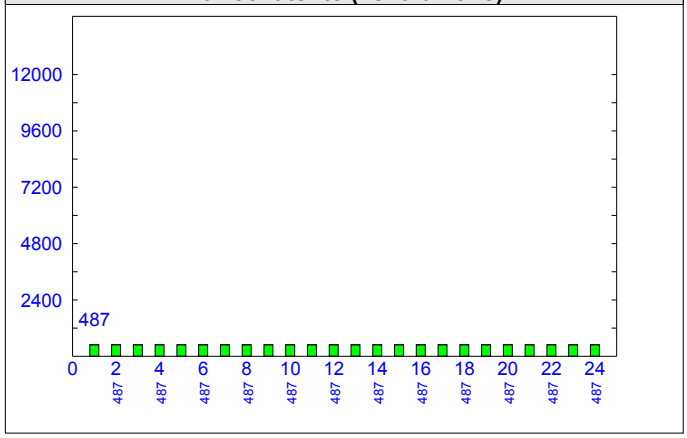
Intestazione ....

TOTALI AMBIENTE : 010103 UFFICIO 03

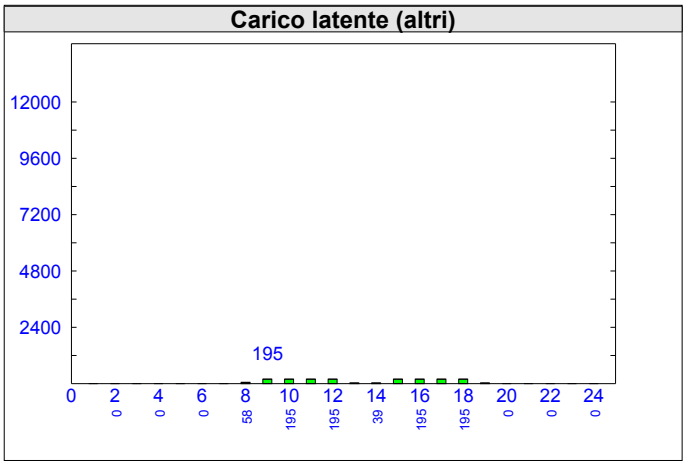
Carico totale



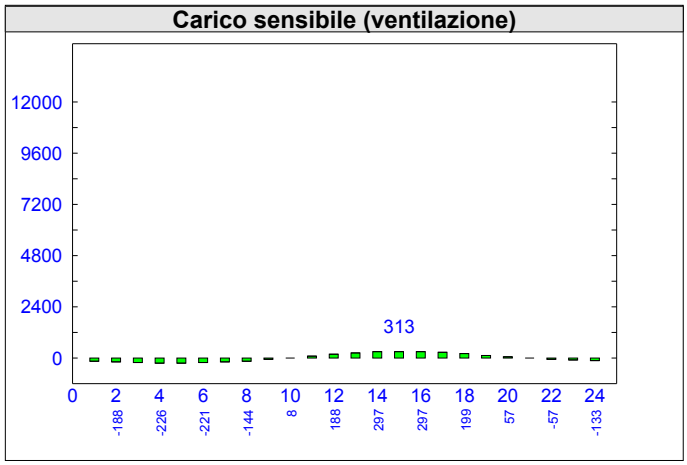
Carico latente (ventilazione)



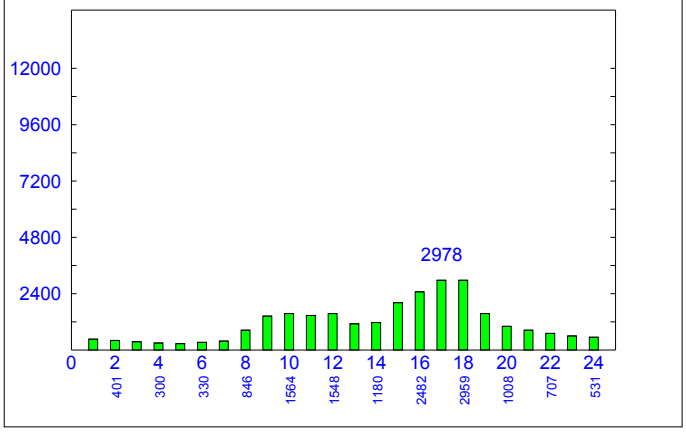
Carico latente (altri)



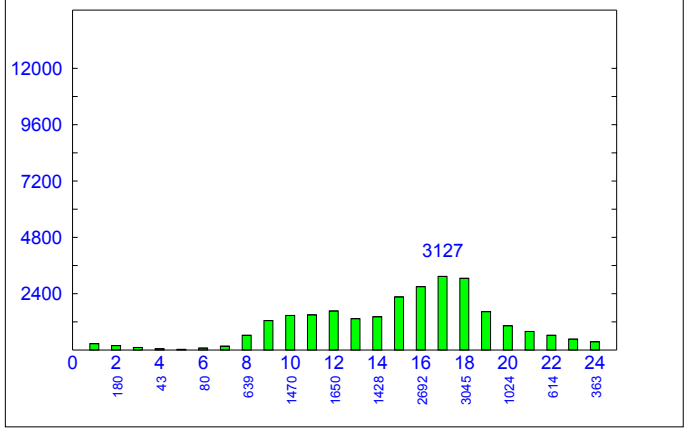
Carico sensibile (ventilazione)



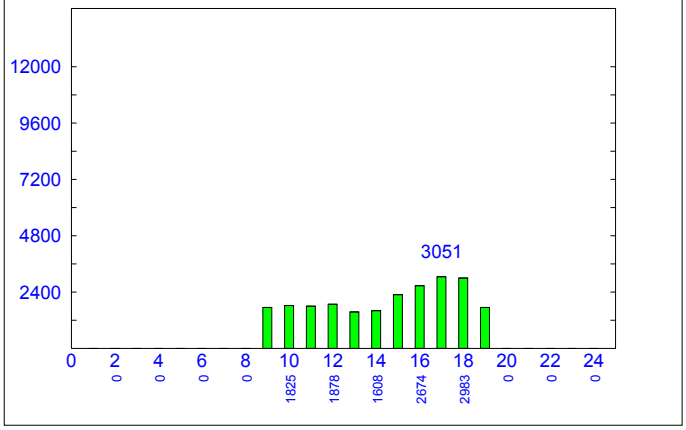
Carico sensibile (altri)



Carico sens. totale (LTS)



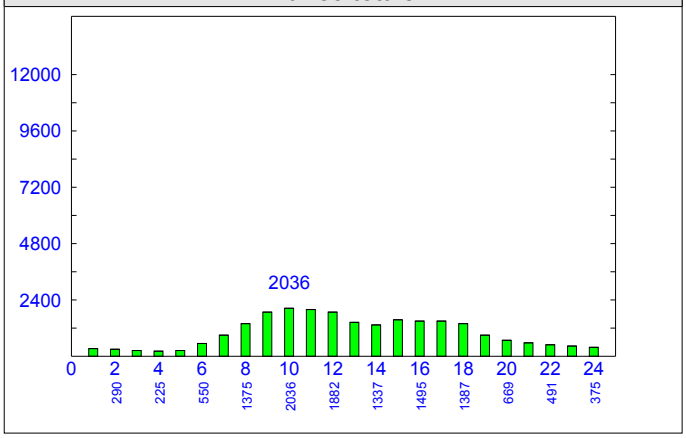
SIMULAZIONE: Potenza sens. rimossa (ER)



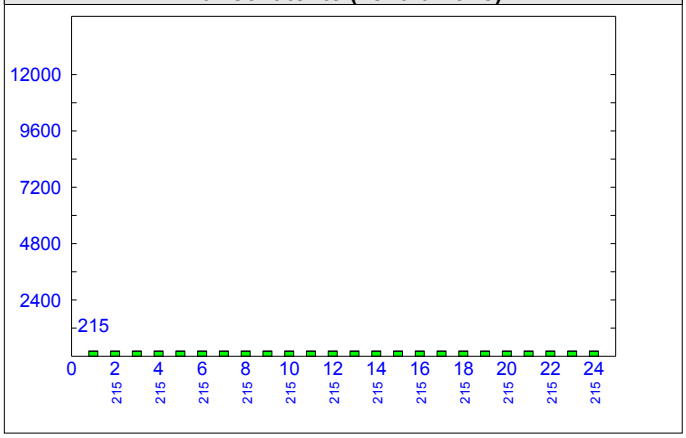
Intestazione ....

TOTALI AMBIENTE : 010104 UFFICIO 04

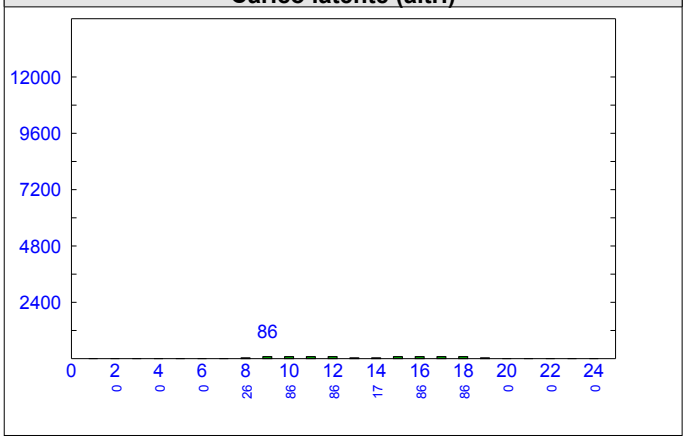
Carico totale



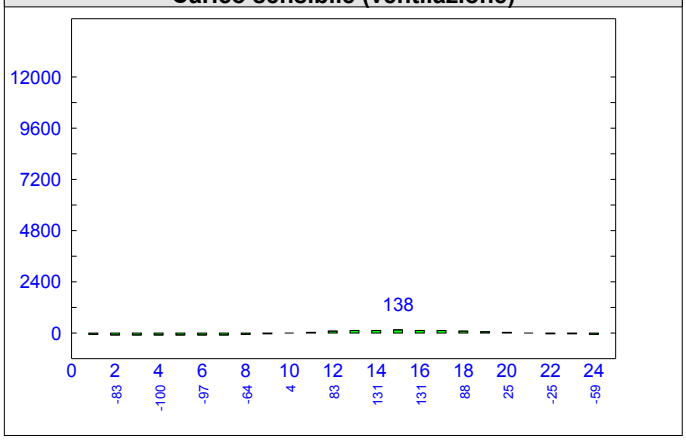
Carico latente (ventilazione)



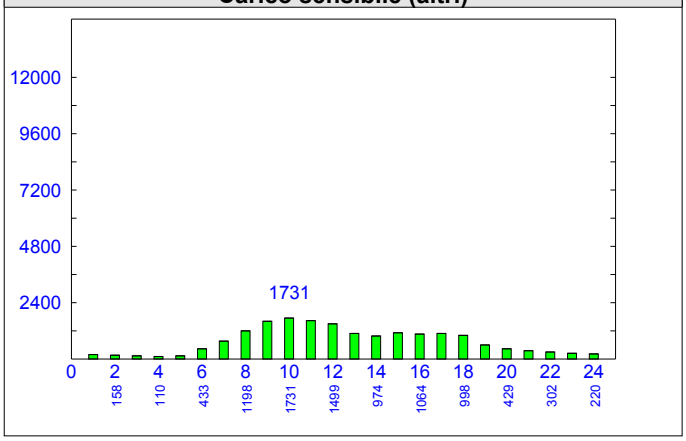
Carico latente (altri)



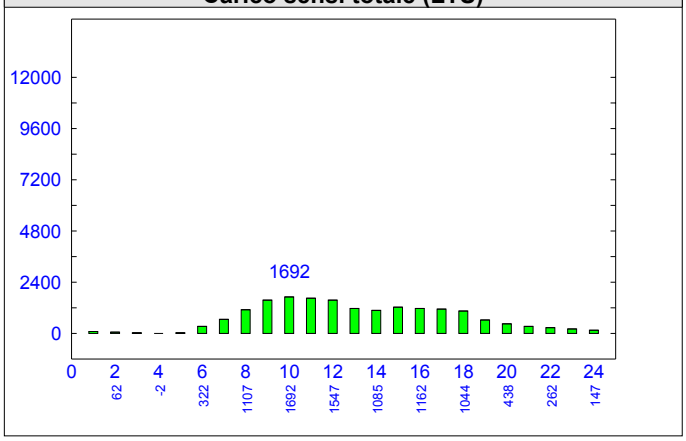
Carico sensibile (ventilazione)



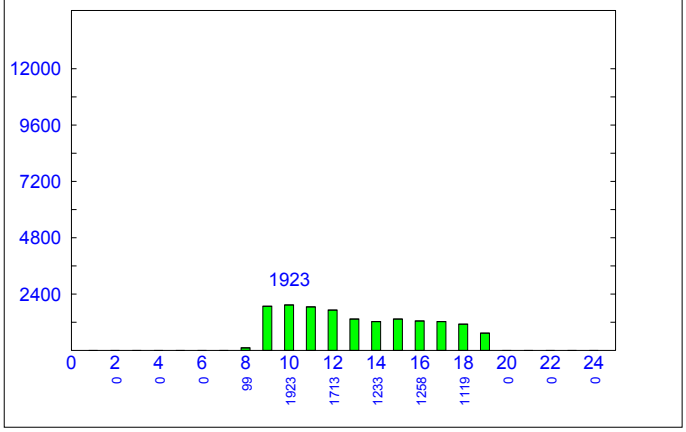
Carico sensibile (altri)



Carico sens. totale (LTS)



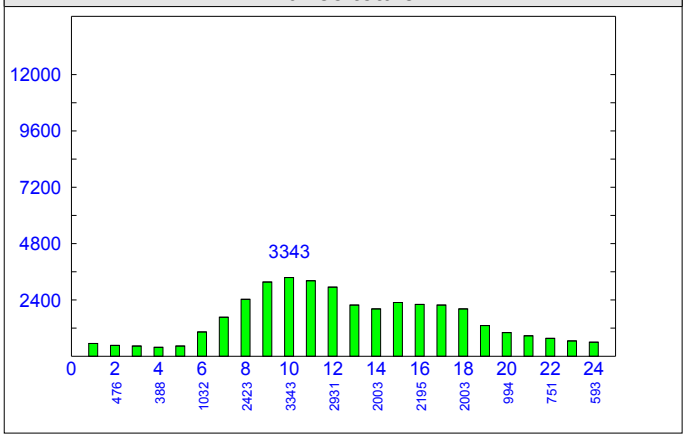
SIMULAZIONE: Potenza sens. rimossa (ER)



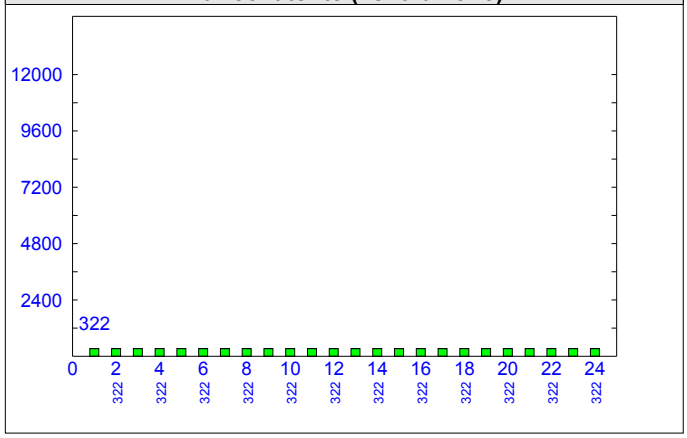
Intestazione ....

TOTALI AMBIENTE : 010105 UFFICIO 05

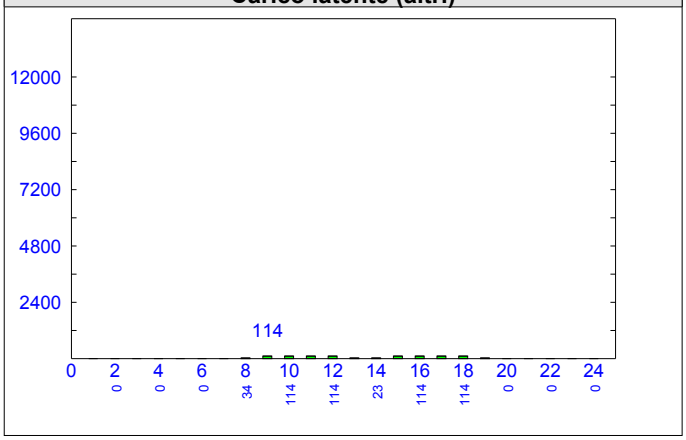
Carico totale



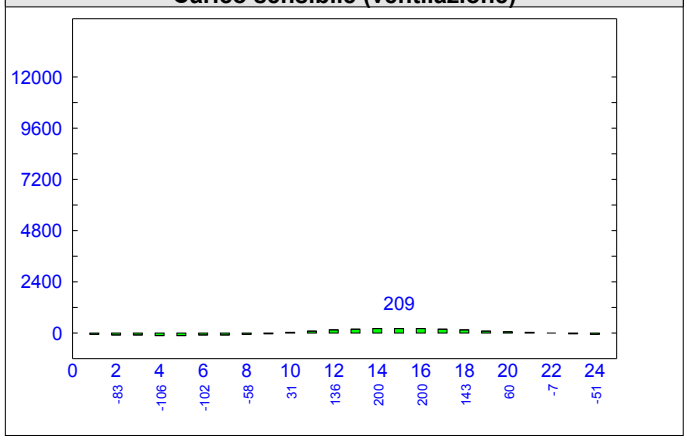
Carico latente (ventilazione)



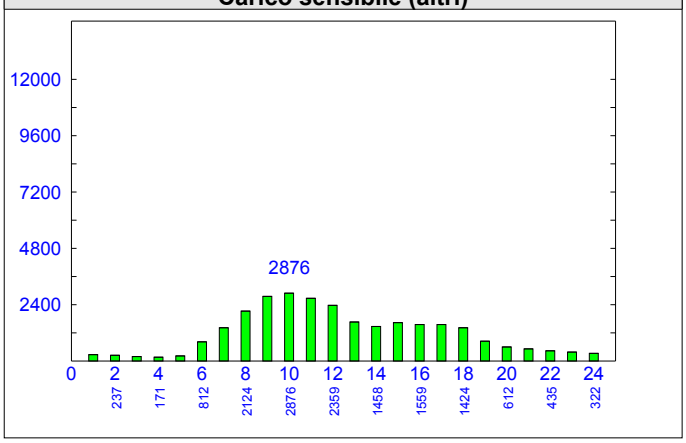
Carico latente (altri)



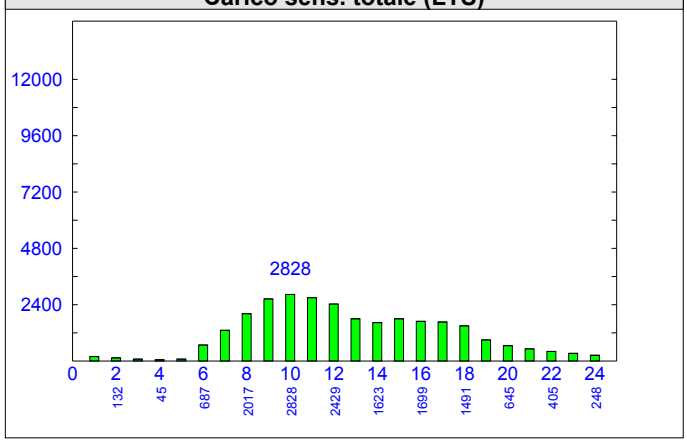
Carico sensibile (ventilazione)



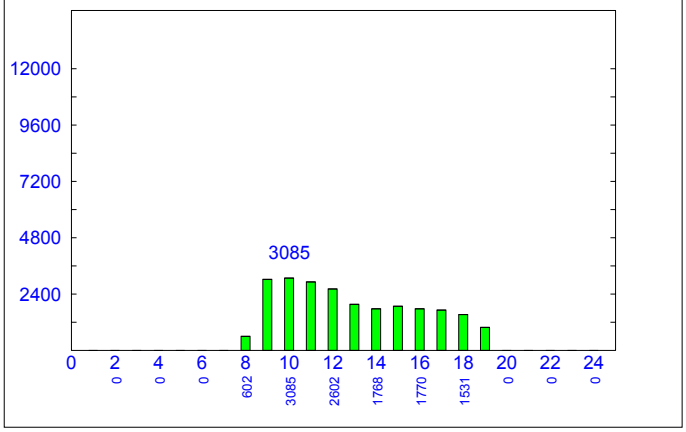
Carico sensibile (altri)



Carico sens. totale (LTS)



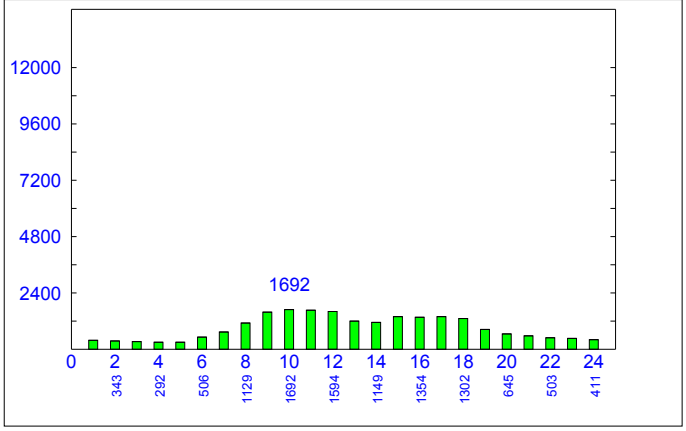
SIMULAZIONE: Potenza sens. rimossa (ER)



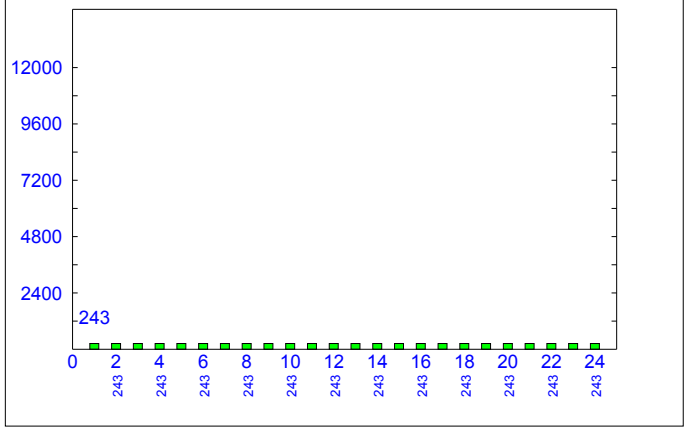
Intestazione ....

TOTALI AMBIENTE : 010106 UFFICIO 06

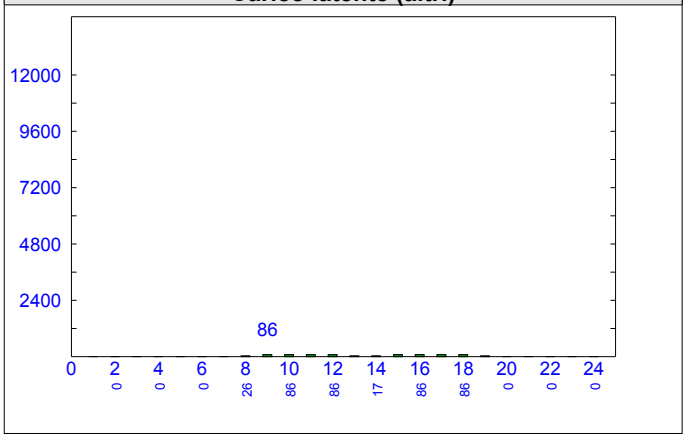
Carico totale



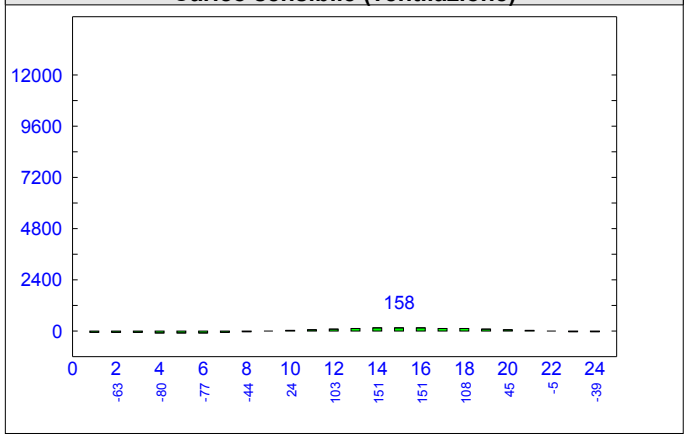
Carico latente (ventilazione)



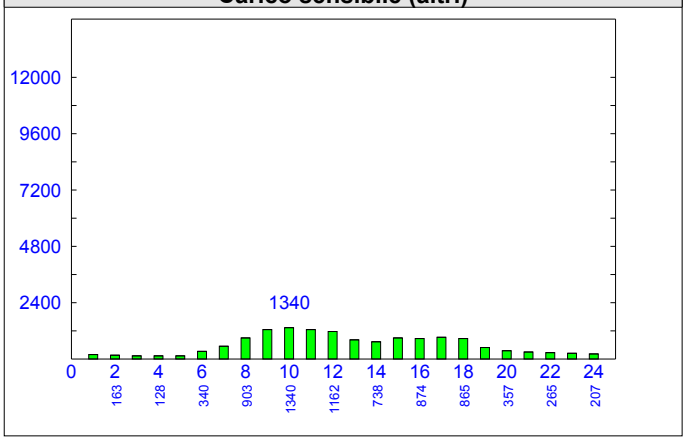
Carico latente (altri)



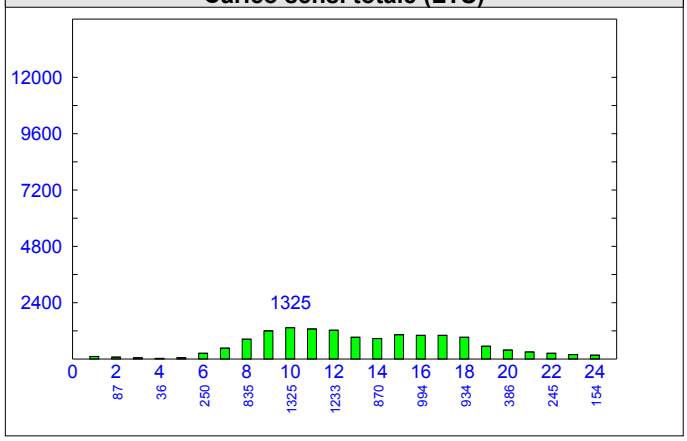
Carico sensibile (ventilazione)



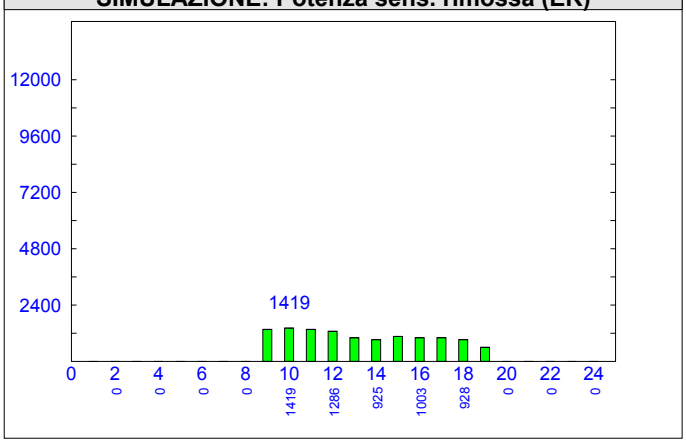
Carico sensibile (altri)



Carico sens. totale (LTS)



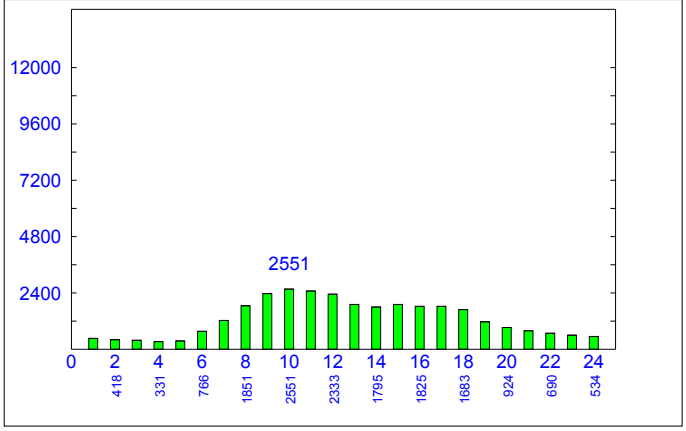
SIMULAZIONE: Potenza sens. rimossa (ER)



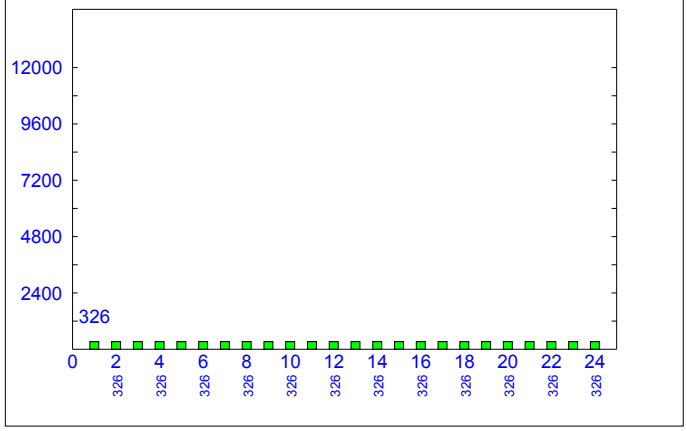
Intestazione ....

TOTALI AMBIENTE : 010107 ATTESA

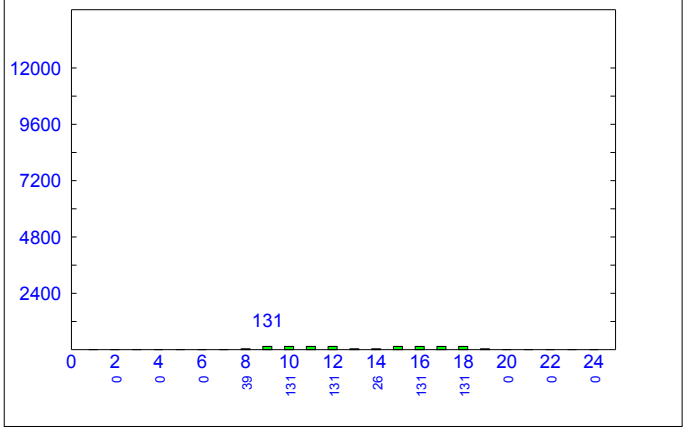
Carico totale



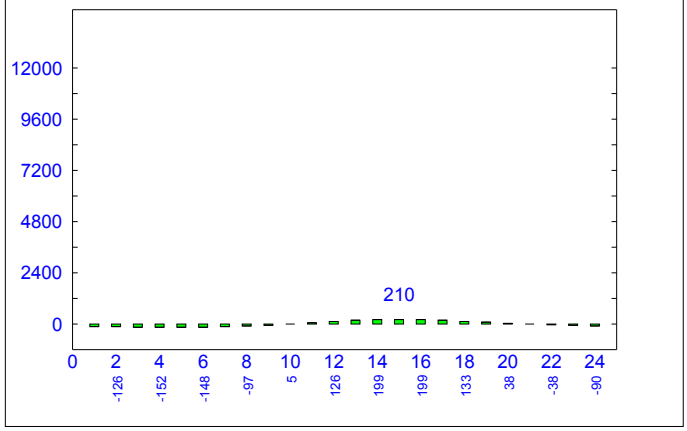
Carico latente (ventilazione)



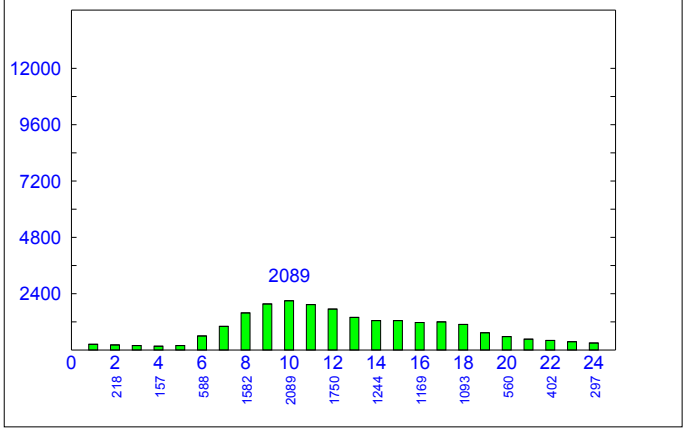
Carico latente (altri)



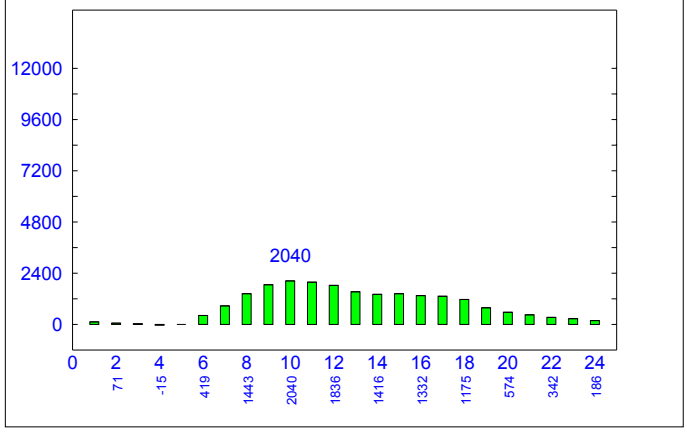
Carico sensibile (ventilazione)



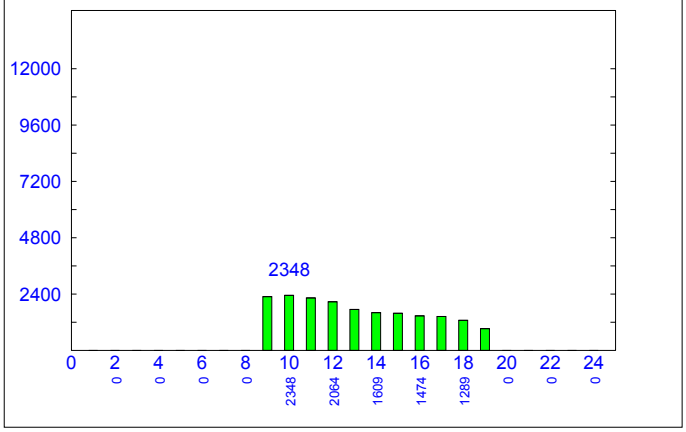
Carico sensibile (altri)



Carico sens. totale (LTS)



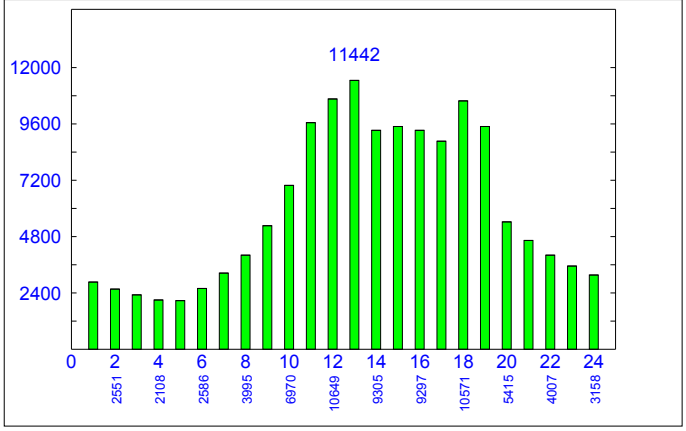
SIMULAZIONE: Potenza sens. rimossa (ER)



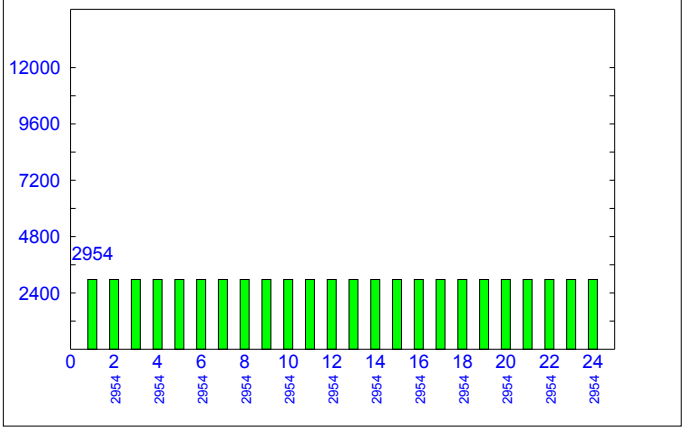
Intestazione ....

TOTALI AMBIENTE : 010108 RIUNIONI

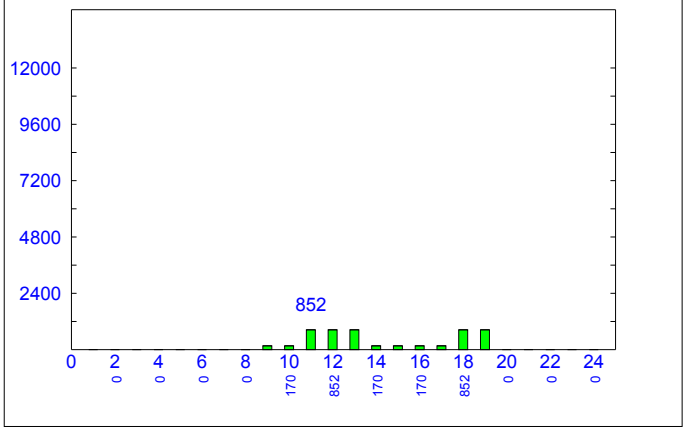
Carico totale



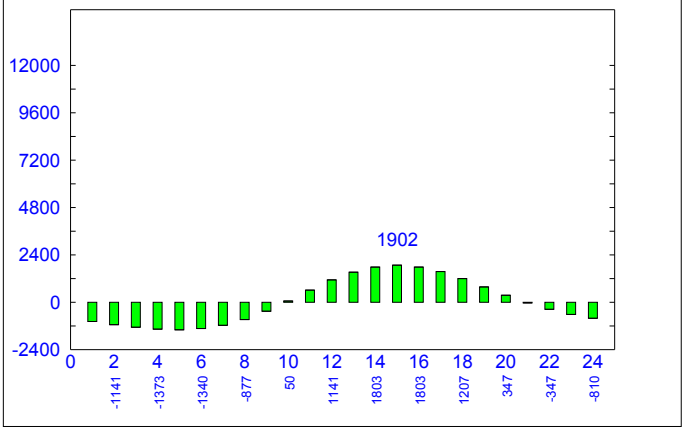
Carico latente (ventilazione)



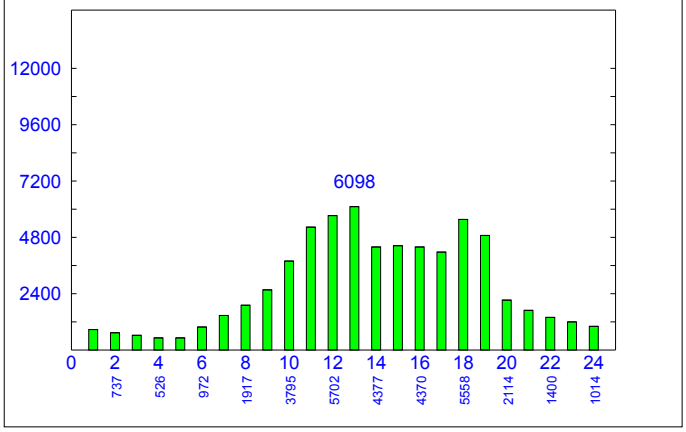
Carico latente (altri)



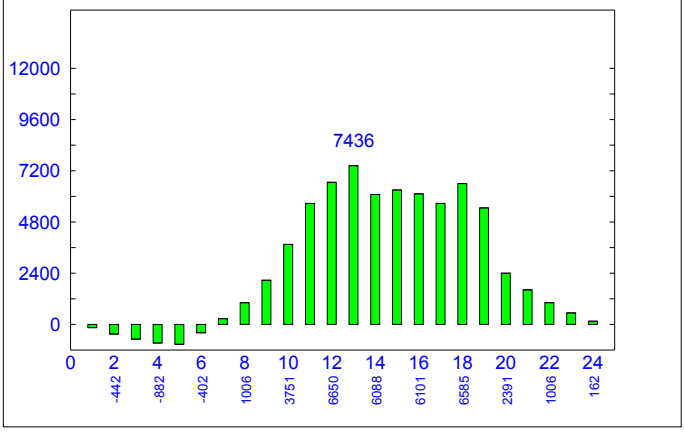
Carico sensibile (ventilazione)



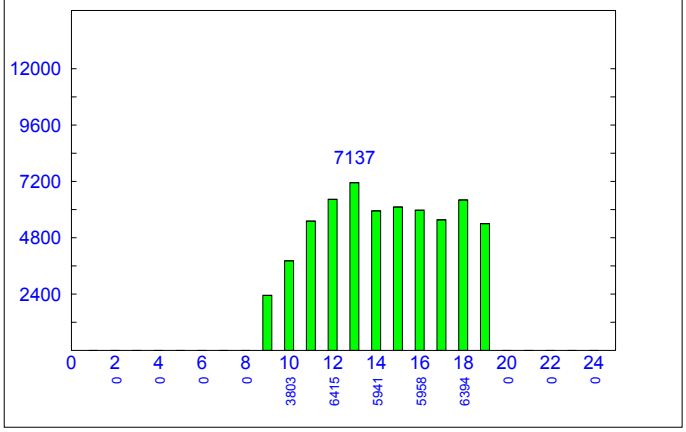
Carico sensibile (altri)



Carico sens. totale (LTS)



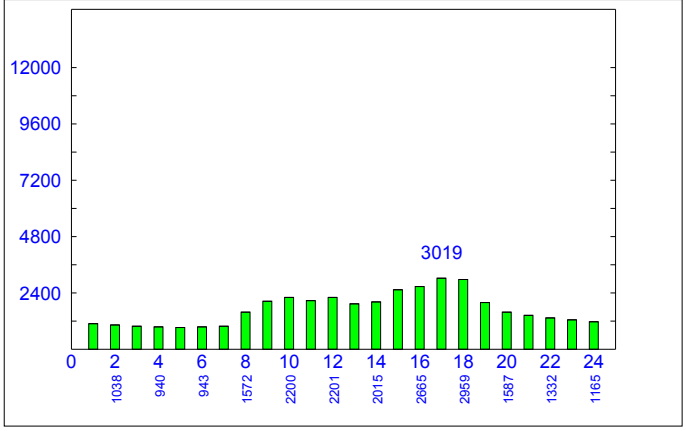
SIMULAZIONE: Potenza sens. rimossa (ER)



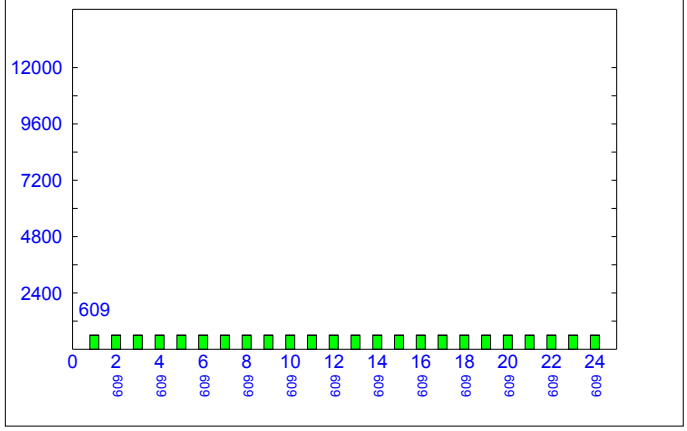
Intestazione ....

TOTALI AMBIENTE : 010109 CORRIDOIO

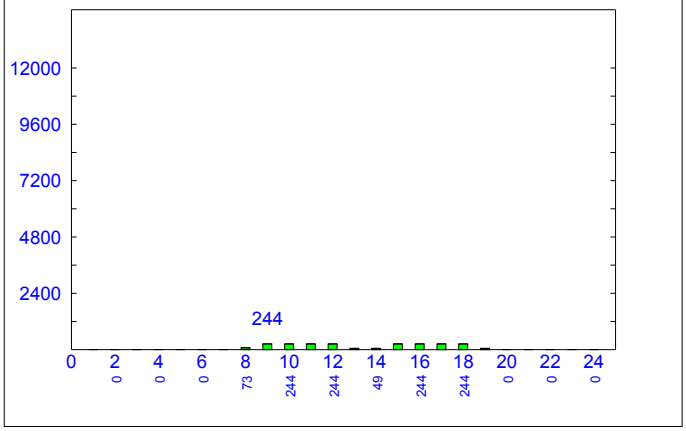
Carico totale



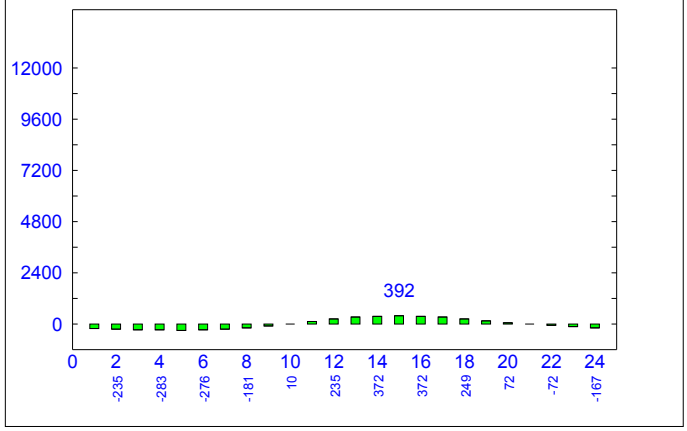
Carico latente (ventilazione)



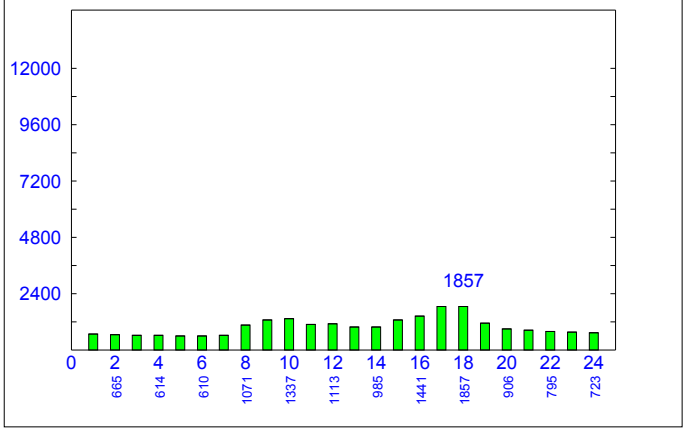
Carico latente (altri)



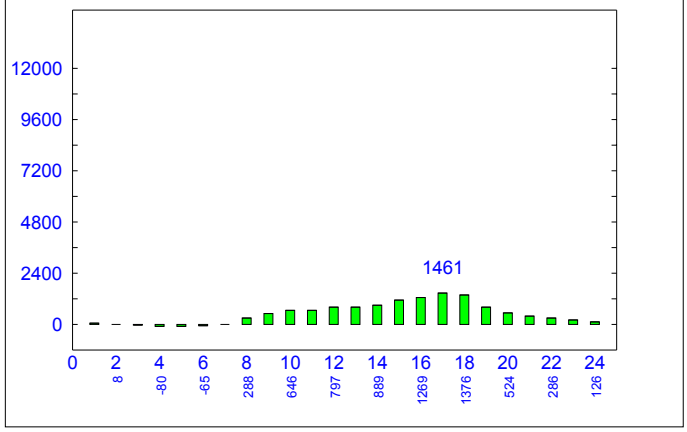
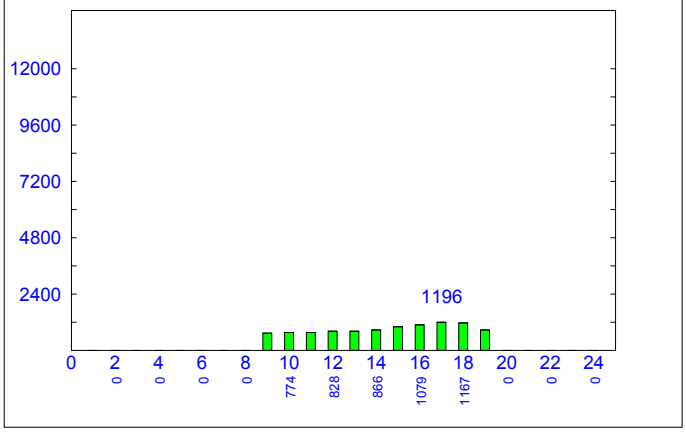
Carico sensibile (ventilazione)



Carico sensibile (altri)



Carico sens. totale (LTS)



SIMULAZIONE: Potenza sens. rimossa (ER)