



REGIONE
CAMPANIA



PROVINCIA DI
AVELLINO



COMUNE DI
LACEDONIA



COMUNE DI
BISACCIA

OGGETTO:

“Progetto di un impianto agrivoltaico denominato "CSPV LACEDONIA", di potenza pari a 34,406 MWp e delle relative opere di connessione alla RTN, da realizzarsi nel comune di Lacedonia (AV) e Bisaccia (AV)”

ELABORATO:

Relazione idrologica e idraulica - Appendice A



PROPONENTE:



ABEI ENERGY GREEN ITALY IV S.R.L.
VIA VINCENZO BELLINI, 22
00198- ROMA (RM)
P.IVA 16335511008

PROGETTAZIONE:



Ing. Carmen Martone
Iscr. n. 1872
Ordine Ingegneri Potenza
C.F. MRTCMN73D56H703E



Geol. Raffaele Nardone
Iscr. n. 243
Ordine Geologi Basilicata
C.F. NRDRFL71H04A509H

EGM PROJECT S.R.L.
VIA VERRASTRO 15/A
85100- POTENZA (PZ)
P.IVA 02094310766
REA PZ-206983

Livello prog.	Cat. opera	N° . prog.elaborato	Tipo elaborato	N° foglio	Tot. fogli	Nome file	Scala
PD	I.IF	A.44.a	R			A44.a_Relazione _idraulica_AppA	

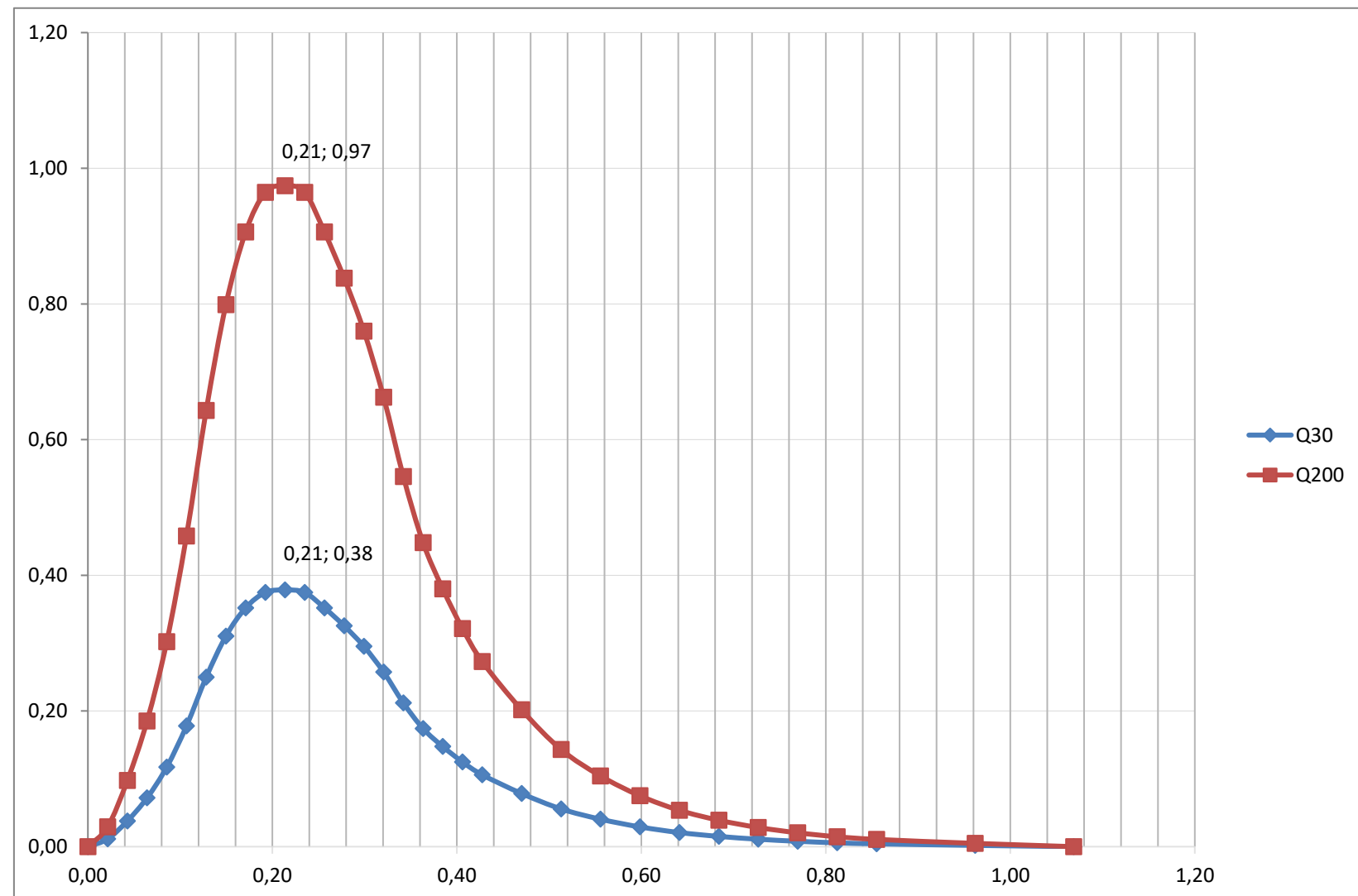
REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
00	DICEMBRE 2023	Emissione		Geol. Raffaele Nardone EGM Project	Ing. Carmen Martone EGM Project



BACINO 1 - PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}		km	m/m
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%							
156787.00	0.16	662.29	782.18	119.89	719.16	0.00	118.71	118.71	20.96	72.99	86.27	94.00	40.42	0.15	0.758	15.81%

t/ta	Q/Qp	t(h)	Q30	Q200
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.02	0.01	0.03
0.3	0.19	0.04	0.04	0.10
0.4	0.31	0.06	0.07	0.19
0.5	0.47	0.09	0.12	0.30
0.6	0.66	0.11	0.18	0.46
0.7	0.82	0.13	0.25	0.64
0.8	0.93	0.15	0.31	0.80
0.9	0.99	0.17	0.35	0.91
1	1	0.19	0.37	0.96
1.1	0.99	0.21	0.38	0.97
1.2	0.93	0.24	0.37	0.96
1.3	0.86	0.26	0.35	0.91
1.4	0.78	0.28	0.33	0.84
1.5	0.68	0.30	0.30	0.76
1.6	0.56	0.32	0.26	0.66
1.7	0.46	0.34	0.21	0.55
1.8	0.39	0.36	0.17	0.45
1.9	0.33	0.38	0.15	0.38
2	0.28	0.41	0.12	0.32
2.2	0.207	0.43	0.11	0.27
2.4	0.147	0.47	0.08	0.20
2.6	0.107	0.51	0.06	0.14
2.8	0.077	0.56	0.04	0.10
3	0.055	0.60	0.03	0.08
3.2	0.04	0.64	0.02	0.05
3.4	0.029	0.68	0.02	0.04
3.6	0.021	0.73	0.01	0.03
3.8	0.015	0.77	0.01	0.02
4	0.011	0.81	0.01	0.01
4.5	0.005	0.85	0.00	0.01
5	0	0.96	0.00	0.00

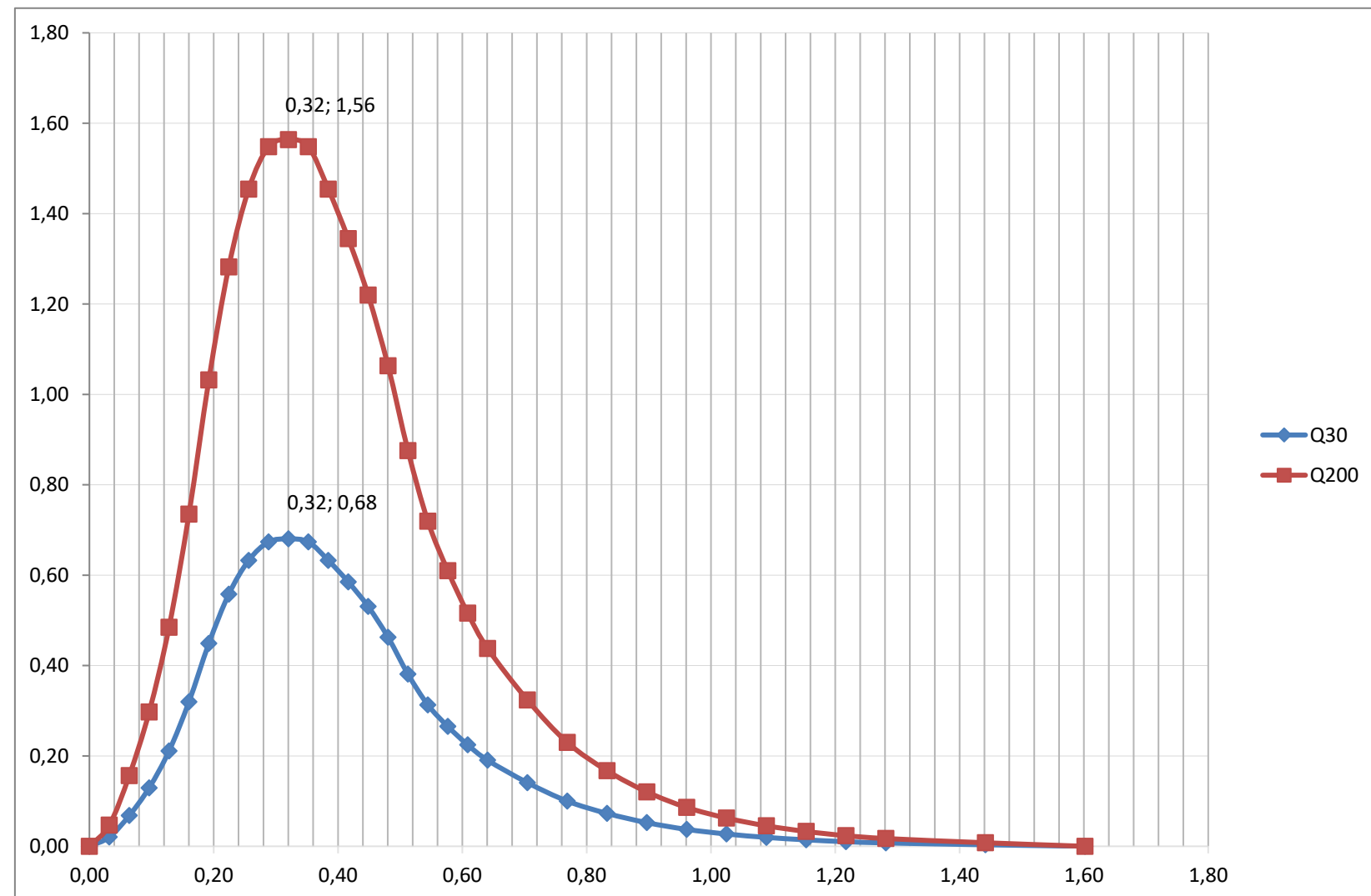
	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.12	0.1943	0.21	19.41	2.48	0.38
T200	2.55				27.66	6.39	0.97



BACINO 2 - PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}		km	m/m
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%							
239890.40	0.24	672.41	831.40	158.99	755.44	0.00	132.07	132.07	19.73	72.64	86.06	95.66	41.13	0.15	1.199	13.26%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.03	0.02	0.05
0.3	0.19	0.06	0.07	0.16
0.4	0.31	0.10	0.13	0.30
0.5	0.47	0.13	0.21	0.48
0.6	0.66	0.16	0.32	0.73
0.7	0.82	0.19	0.45	1.03
0.8	0.93	0.22	0.56	1.28
0.9	0.99	0.26	0.63	1.45
1	1	0.29	0.67	1.55
1.1	0.99	0.32	0.68	1.56
1.2	0.93	0.35	0.67	1.55
1.3	0.86	0.38	0.63	1.45
1.4	0.78	0.42	0.59	1.34
1.5	0.68	0.45	0.53	1.22
1.6	0.56	0.48	0.46	1.06
1.7	0.46	0.51	0.38	0.88
1.8	0.39	0.54	0.31	0.72
1.9	0.33	0.58	0.27	0.61
2	0.28	0.61	0.22	0.52
2.2	0.207	0.64	0.19	0.44
2.4	0.147	0.70	0.14	0.32
2.6	0.107	0.77	0.10	0.23
2.8	0.077	0.83	0.07	0.17
3	0.055	0.90	0.05	0.12
3.2	0.04	0.96	0.04	0.09
3.4	0.029	1.03	0.03	0.06
3.6	0.021	1.09	0.02	0.05
3.8	0.015	1.15	0.01	0.03
4	0.011	1.22	0.01	0.02
4.5	0.005	1.28	0.01	0.02
5	0	1.44	0.00	0.01

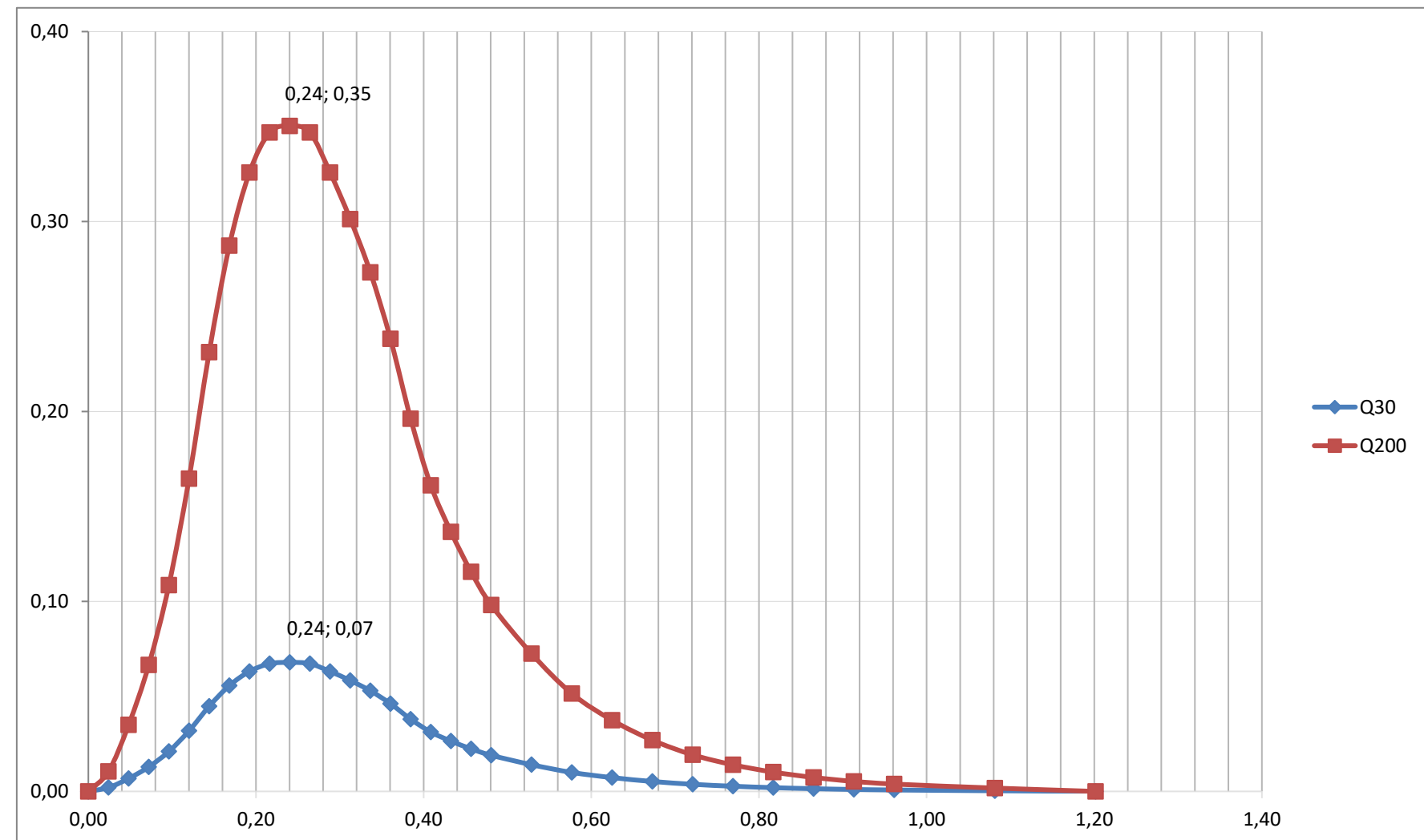
	KT	t _i [ore]	t _{p=t_c} [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.17	0.2912	0.32	23.99	4.37	0.68
T200	2.55				34.17	10.04	1.56



BACINO_2_Interferenza- PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CNII	CNIII	SII	SIII		km	m/m
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%							
154950.00	0.15	799.53	961.38	161.85	868.98	0.00	487.75	487.75	31.26	60.28	77.92	167.38	71.97	0.01	0.800	20.23%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.02	0.00	0.01
0.3	0.19	0.05	0.01	0.04
0.4	0.31	0.07	0.01	0.07
0.5	0.47	0.10	0.02	0.11
0.6	0.66	0.12	0.03	0.16
0.7	0.82	0.14	0.04	0.23
0.8	0.93	0.17	0.06	0.29
0.9	0.99	0.19	0.06	0.33
1	1	0.22	0.07	0.35
1.1	0.99	0.24	0.07	0.35
1.2	0.93	0.26	0.07	0.35
1.3	0.86	0.29	0.06	0.33
1.4	0.78	0.31	0.06	0.30
1.5	0.68	0.34	0.05	0.27
1.6	0.56	0.36	0.05	0.24
1.7	0.46	0.38	0.04	0.20
1.8	0.39	0.41	0.03	0.16
1.9	0.33	0.43	0.03	0.14
2	0.28	0.46	0.02	0.12
2.2	0.207	0.48	0.02	0.10
2.4	0.147	0.53	0.01	0.07
2.6	0.107	0.58	0.01	0.05
2.8	0.077	0.62	0.01	0.04
3	0.055	0.67	0.01	0.03
3.2	0.04	0.72	0.00	0.02
3.4	0.029	0.77	0.00	0.01
3.6	0.021	0.82	0.00	0.01
3.8	0.015	0.87	0.00	0.01
4	0.011	0.91	0.00	0.01
4.5	0.005	0.96	0.00	0.00
5	0	1.08	0.00	0.00

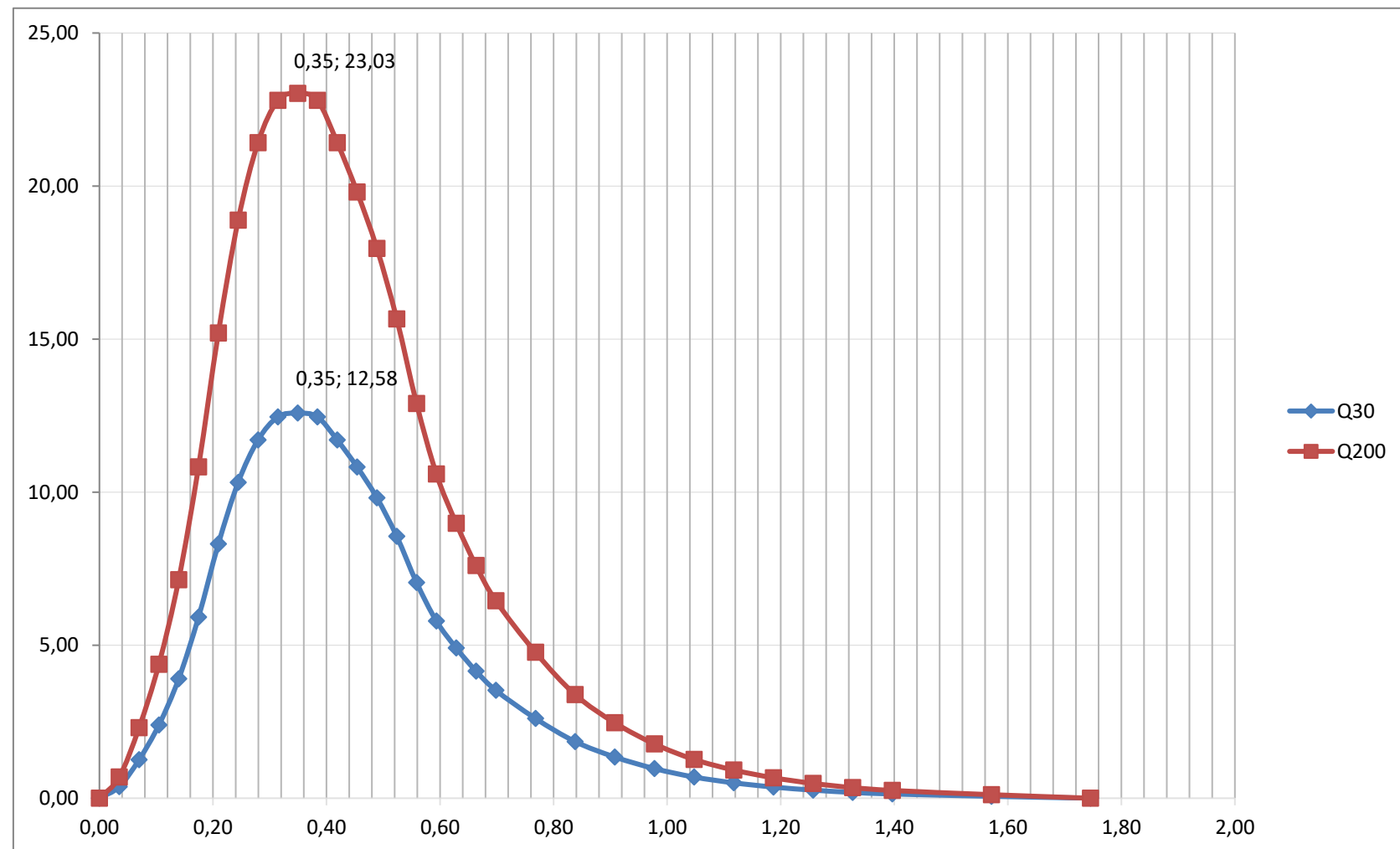
	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.13	0.2185	0.24	20.69	0.51	0.07
T200	2.55				29.47	2.61	0.35



BACINO_5- PARAMETRI MORFOMETRICI																
VERSANTE													ASTA PRINCIPALE			
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}		km	m/m
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%							
2084622.00	2.08	753.33	953.27	199.94	844.67	0.00	292.11	292.11	20.38	83.49	92.16	50.24	21.60	0.91	1.847	10.82%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.03	0.38	0.69
0.3	0.19	0.07	1.26	2.30
0.4	0.31	0.10	2.39	4.38
0.5	0.47	0.14	3.90	7.14
0.6	0.66	0.17	5.91	10.82
0.7	0.82	0.21	8.30	15.20
0.8	0.93	0.24	10.32	18.88
0.9	0.99	0.28	11.70	21.42
1	1	0.31	12.46	22.80
1.1	0.99	0.35	12.58	23.03
1.2	0.93	0.38	12.46	22.80
1.3	0.86	0.42	11.70	21.42
1.4	0.78	0.45	10.82	19.80
1.5	0.68	0.49	9.81	17.96
1.6	0.56	0.52	8.56	15.66
1.7	0.46	0.56	7.05	12.90
1.8	0.39	0.59	5.79	10.59
1.9	0.33	0.63	4.91	8.98
2	0.28	0.66	4.15	7.60
2.2	0.207	0.70	3.52	6.45
2.4	0.147	0.77	2.60	4.77
2.6	0.107	0.84	1.85	3.38
2.8	0.077	0.91	1.35	2.46
3	0.055	0.98	0.97	1.77
3.2	0.04	1.05	0.69	1.27
3.4	0.029	1.12	0.50	0.92
3.6	0.021	1.19	0.36	0.67
3.8	0.015	1.26	0.26	0.48
4	0.011	1.33	0.19	0.35
4.5	0.005	1.40	0.14	0.25
5	0	1.57	0.06	0.12

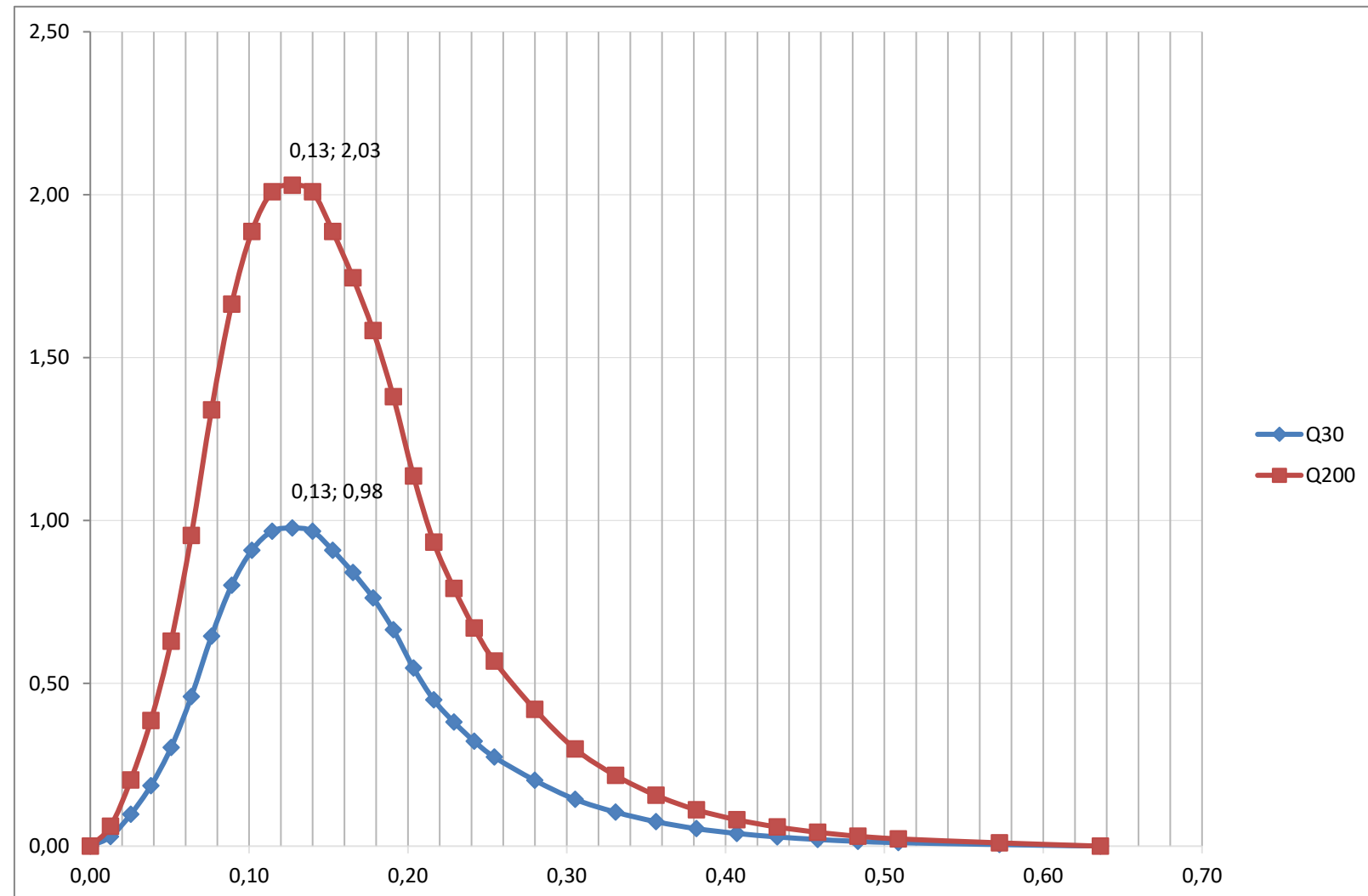
	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.19	0.3174	0.35	25.02	10.13	12.58
T200	2.55				35.65	18.54	23.03



BACINO_8- PARAMETRI MORFOMETRICI																
VERSANTE										ASTA PRINCIPALE						
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
163368.00	0.16	778.86	869.61	90.75	820.34	0.00	87.06	87.06	14.23	85.00	92.95	44.82	19.27	1.00	0.437	20.78%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.01	0.03	0.06
0.3	0.19	0.03	0.10	0.20
0.4	0.31	0.04	0.19	0.39
0.5	0.47	0.05	0.30	0.63
0.6	0.66	0.06	0.46	0.95
0.7	0.82	0.08	0.64	1.34
0.8	0.93	0.09	0.80	1.66
0.9	0.99	0.10	0.91	1.89
1	1	0.11	0.97	2.01
1.1	0.99	0.13	0.98	2.03
1.2	0.93	0.14	0.97	2.01
1.3	0.86	0.15	0.91	1.89
1.4	0.78	0.17	0.84	1.74
1.5	0.68	0.18	0.76	1.58
1.6	0.56	0.19	0.66	1.38
1.7	0.46	0.20	0.55	1.14
1.8	0.39	0.22	0.45	0.93
1.9	0.33	0.23	0.38	0.79
2	0.28	0.24	0.32	0.67
2.2	0.207	0.25	0.27	0.57
2.4	0.147	0.28	0.20	0.42
2.6	0.107	0.31	0.14	0.30
2.8	0.077	0.33	0.10	0.22
3	0.055	0.36	0.08	0.16
3.2	0.04	0.38	0.05	0.11
3.4	0.029	0.41	0.04	0.08
3.6	0.021	0.43	0.03	0.06
3.8	0.015	0.46	0.02	0.04
4	0.011	0.48	0.01	0.03
4.5	0.005	0.51	0.01	0.02
5	0	0.57	0.00	0.01

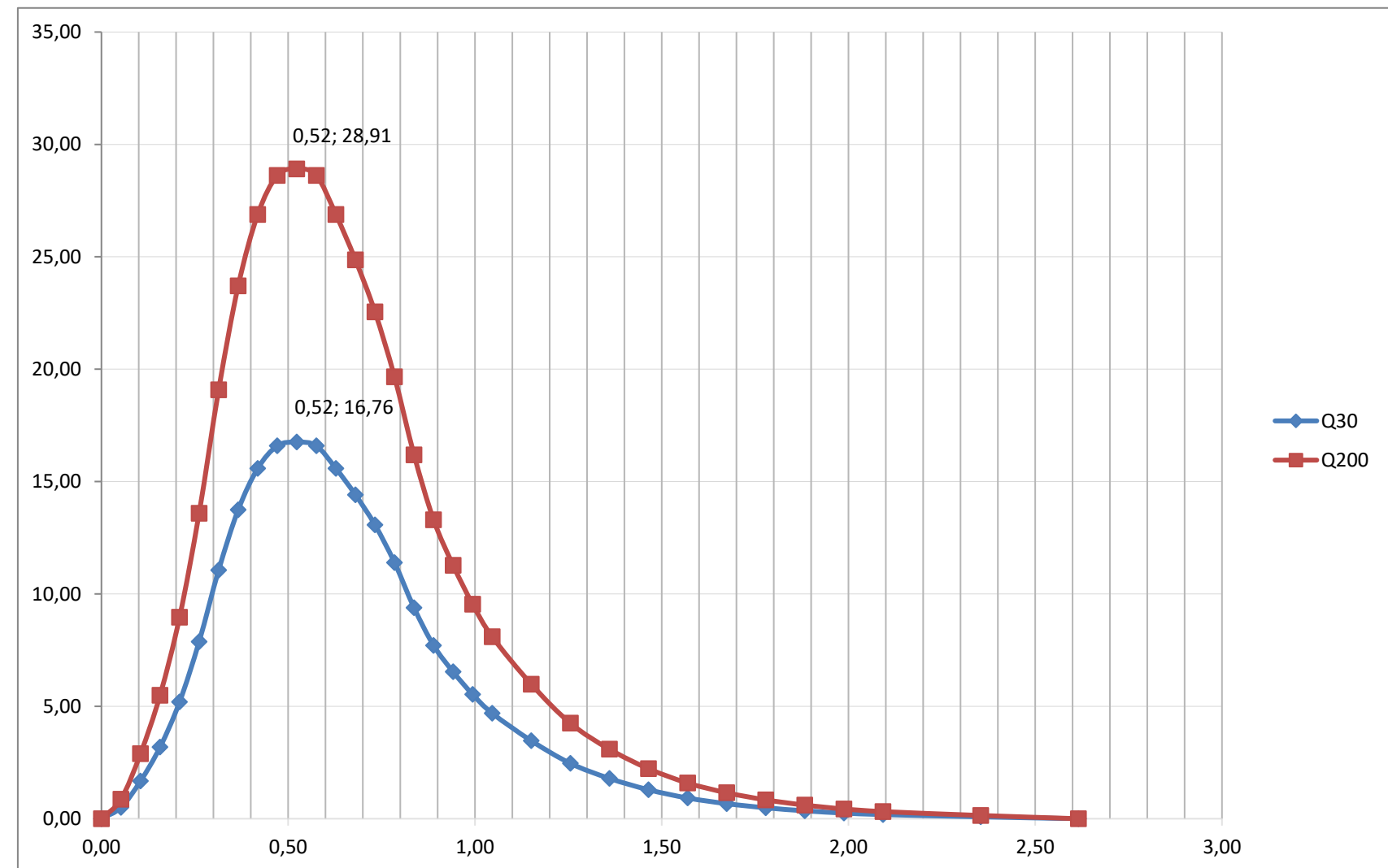
	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.07	0.1156	0.13	14.27	3.66	0.98
T200	2.55				20.33	7.60	2.03



BACINO_10- PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CNII	CNIII	SII	SIII			
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
2771284.00	2.77	794.08	906.71	112.62	859.78	0.00	237.05	237.05	14.16	85.02	92.96	44.74	19.24	1.00	2.552	4.41%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.05	0.50	0.87
0.3	0.19	0.10	1.68	2.89
0.4	0.31	0.16	3.18	5.49
0.5	0.47	0.21	5.19	8.96
0.6	0.66	0.26	7.88	13.59
0.7	0.82	0.31	11.06	19.08
0.8	0.93	0.37	13.74	23.70
0.9	0.99	0.42	15.58	26.88
1	1	0.47	16.59	28.62
1.1	0.99	0.52	16.76	28.91
1.2	0.93	0.58	16.59	28.62
1.3	0.86	0.63	15.58	26.88
1.4	0.78	0.68	14.41	24.86
1.5	0.68	0.73	13.07	22.55
1.6	0.56	0.78	11.39	19.66
1.7	0.46	0.84	9.38	16.19
1.8	0.39	0.89	7.71	13.30
1.9	0.33	0.94	6.54	11.27
2	0.28	0.99	5.53	9.54
2.2	0.207	1.05	4.69	8.09
2.4	0.147	1.15	3.47	5.98
2.6	0.107	1.26	2.46	4.25
2.8	0.077	1.36	1.79	3.09
3	0.055	1.46	1.29	2.23
3.2	0.04	1.57	0.92	1.59
3.4	0.029	1.67	0.67	1.16
3.6	0.021	1.78	0.49	0.84
3.8	0.015	1.88	0.35	0.61
4	0.011	1.99	0.25	0.43
4.5	0.005	2.09	0.18	0.32
5	0	2.35	0.08	0.14

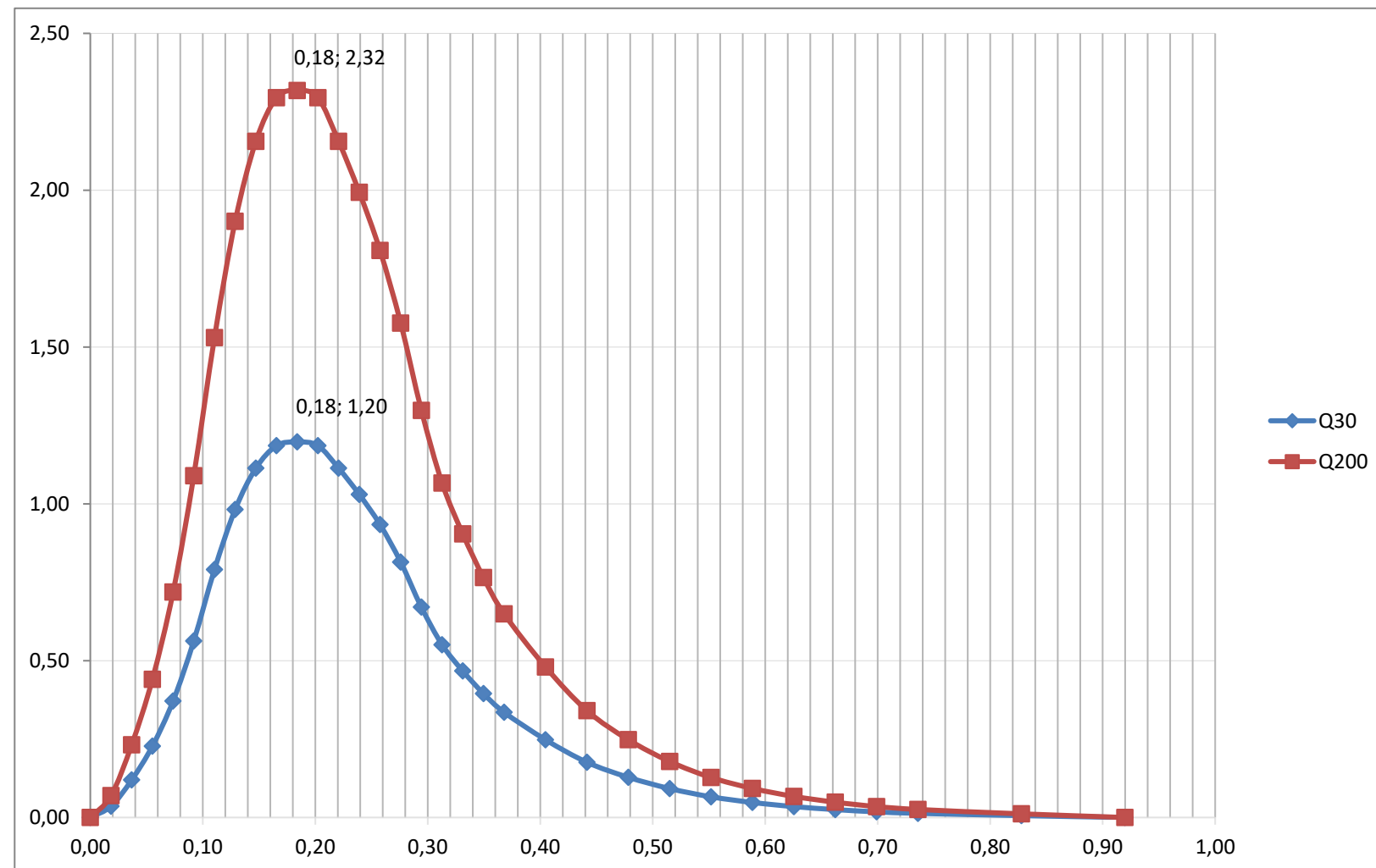
	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.29	0.4756	0.52	30.17	15.21	16.76
T200	2.55				42.98	26.23	28.91




BACINO_13- PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				f	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}		km	m/m
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%							
180076.00	0.18	894.41	985.38	90.97	936.99	0.00	119.89	119.89	14.06	85.00	92.95	44.82	19.27	1.00	0.687	13.23%

t/ta	Q/Qp	t(h)	Q ₃₀	Q ₂₀₀
0.1	0.03	0.00	0.00	0.00
0.2	0.1	0.02	0.04	0.07
0.3	0.19	0.04	0.12	0.23
0.4	0.31	0.06	0.23	0.44
0.5	0.47	0.07	0.37	0.72
0.6	0.66	0.09	0.56	1.09
0.7	0.82	0.11	0.79	1.53
0.8	0.93	0.13	0.98	1.90
0.9	0.99	0.15	1.11	2.16
1	1	0.17	1.19	2.29
1.1	0.99	0.18	1.20	2.32
1.2	0.93	0.20	1.19	2.29
1.3	0.86	0.22	1.11	2.16
1.4	0.78	0.24	1.03	1.99
1.5	0.68	0.26	0.93	1.81
1.6	0.56	0.28	0.81	1.58
1.7	0.46	0.29	0.67	1.30
1.8	0.39	0.31	0.55	1.07
1.9	0.33	0.33	0.47	0.90
2	0.28	0.35	0.40	0.76
2.2	0.207	0.37	0.34	0.65
2.4	0.147	0.40	0.25	0.48
2.6	0.107	0.44	0.18	0.34
2.8	0.077	0.48	0.13	0.25
3	0.055	0.52	0.09	0.18
3.2	0.04	0.55	0.07	0.13
3.4	0.029	0.59	0.05	0.09
3.6	0.021	0.63	0.03	0.07
3.8	0.015	0.66	0.03	0.05
4	0.011	0.70	0.02	0.03
4.5	0.005	0.74	0.01	0.03
5	0	0.83	0.01	0.01

	KT	t _i [ore]	t _p =t _c [ore]	t _a [ore]	H (t _c)	V [mm]	Q _p [m ³ /s]
T30	1.79	0.10	0.1672	0.18	17.84	5.88	1.20
T200	2.55				25.42	11.38	2.32



	<p style="text-align: center;">Progetto di un impianto agrivoltaico denominato "CSPV LACEDONIA", di potenza pari a 34,406 MWp e delle relative opere di connessione alla RTN, da realizzarsi nel comune di Lacedonia (AV) e Bisaccia (AV)</p> <p style="text-align: center;">RELAZIONE IDROLOGICA E IDRAULICA – APPENDICE A <i>Bacini Idrografici: Dati morfometrici ed idrogrammi di piena</i></p>	<p style="text-align: center;">DATA: DICEMBRE 2023 <i>Pag. 8 di 8</i></p>
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