

HPP



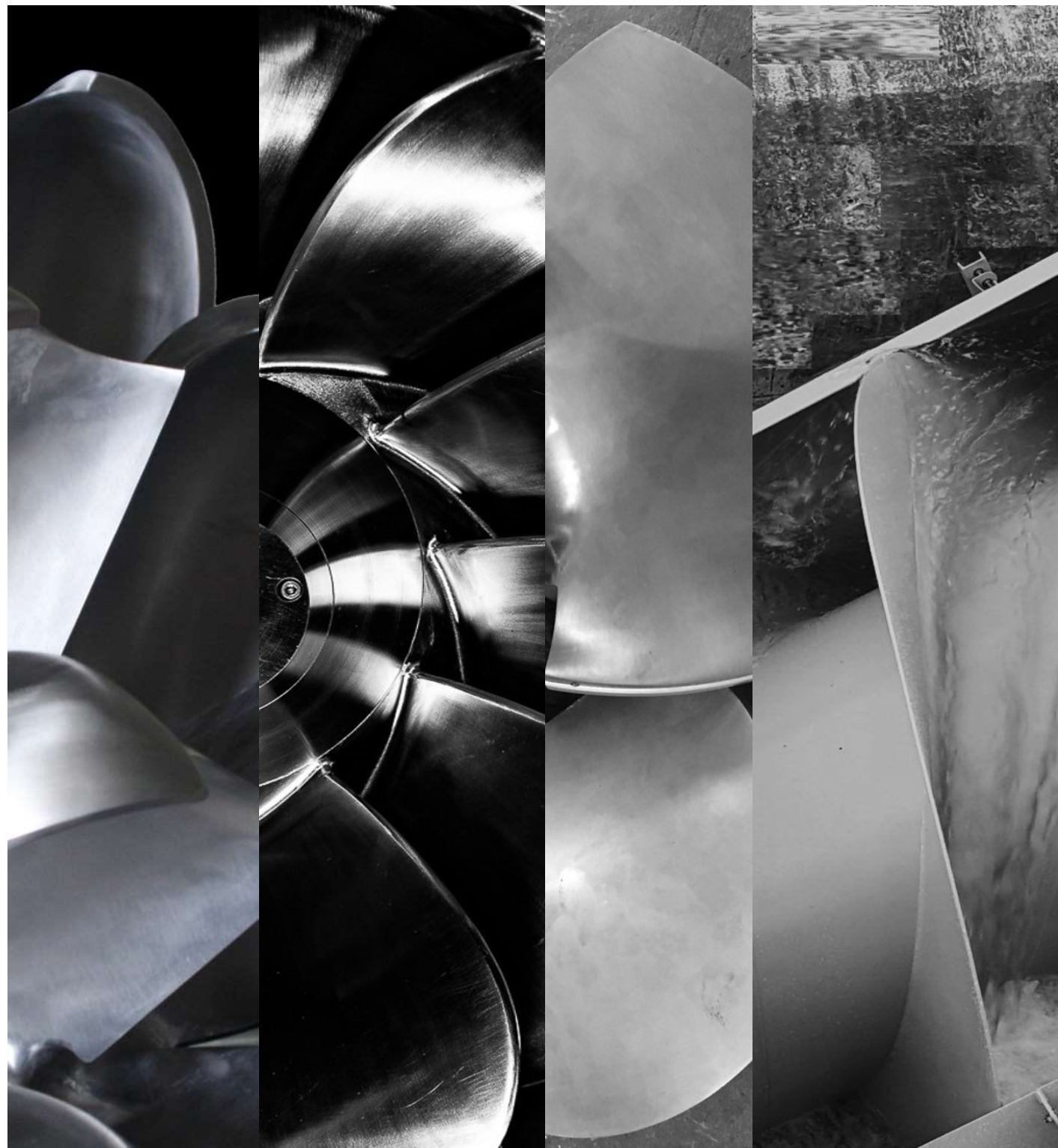
TURNING WATER
INTO **POWER**

HPP

References

Références

Referencias



Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m³/s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
1748	France	2024	Pelton	133,1	0,49	1	592	560	560	Turnkey
2533	Sao Tome & P.	2024	Pelton	489,9	0,45	2	895	1 933	3 866	Turnkey
3284	France	2024	Pelton	195,3	0,30	1	560	513	513	Turnkey
2843	France	2024	Francis	81,0	1,10	1	470	794	794	Turnkey
2843	France	2024	Francis	79,1	3,30	1	710	2 364	2 364	Turnkey
3183	France	2023	Pelton	2000,0	0,12	1	617	2 103	2 103	Refurbishment
3335	Nepal	2023	Francis	214,8	4,08	2			0	Design
3204	India	2023	Pelton	187,7	0,55	2	730	903	1 806	Design
3203	India	2023	Pelton	278,0	0,70	1	900	1 644	1 644	Design
3138	France	2023	Francis	30,2	4,05	1	805	1 033	1 033	Turnkey
2817	France	2023	Pelton	283,5	0,40	1	680	925	925	Turnkey
2721	France	2023	Pelton	347,0	0,15	1	515	429	429	Turnkey
2147	La Réunion	2023	Pelton	144,3	0,44	1	655	530	530	Turnkey
2751	France	2023	Pelton	237,6	2,80	1	985	5 883	5 883	Turnkey
2088	France	2023	Francis	30,9	2,70	1	760	751	751	Turnkey
2088	France	2023	Francis	30,9	1,30	1	515	365	365	Turnkey
2695	India	2023	Pelton	164,2	0,65	2	835	916	1 832	Design
2852	France	2023	Kaplan	2,7	30,00	1	2870	709	709	Design
2362	La Réunion	2022	Pelton	185,2	0,09	1	565	138	138	Turnkey
2447-8	France	2022	Pelton	570,0	0,12	1	940	597	597	Refurbishment
2693	France	2022	HydroScrew	5,0	5,61	1	3750	195	195	Turnkey
2740	India	2022	Francis	96,1	1,01	1	430	870	870	Design
2988	France	2022	Pelton	493,0	0,03	1	620	142	142	Design
2986	France	2022	Pelton	330,0	0,37	1	748	1 030	1 030	Turnkey
2680	France	2022	Pelton	617,0	0,64	1	1023	3 314	3 314	Turnkey
1888	India	2022	Pelton	218,0	1,03	2	790	1 700	3 400	Design
1520	DRC (Congo)	2022	Francis	193,0	8,00	1	970	14 200	14 200	Turnkey
2932	France	2022	Francis	27,0	0,40	1	300	90	90	Turnkey
1934	Brazil	2022	Pelton	327,0	1,20	1	950	3 500	3 500	Refurbishment
2567	DRC (Congo)	2022	Pelton	77,9	0,32	1	590	190	190	Turnkey
1691	France	2022	Kaplan	17,2	3,50	1	820	500	500	Turnkey
2773-2	France	2021	Pelton	183,0	0,30	1	570	540	540	Refurbishment
2773-1	France	2021	Pelton	194,5	1,40	1	755	2 324	2 324	Refurbishment

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m³/s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
2747	France	2021	Pelton	200,0	0,25	1	716	450	450	Refurbishment
2531	France	2021	Pelton	475,0	0,35	1	830	1 450	1 450	Refurbishment
2000	France	2021	Kaplan	5,0	42,00	2	2870	1 914	3 828	Turnkey
1517	France	2021	Pelton	305,0	0,07	1	485	180	180	Turnkey
2023	France	2021	Pelton	468,7	0,06	1	594	208	208	Turnkey
2447-2	France	2021	Pelton	440,0	0,54	1	861	2 000	2 000	Refurbishment
2428	France	2021	Pelton	127,5	0,95	1	750	1 030	1 030	Turnkey
2024	France	2021	Pelton	112,6	0,25	1	565	238	238	Turnkey
1937	France	2021	HydroScrew	4,0	1,80	1	2100	53	53	Turnkey
2612	France	2021	Pelton	310,0	0,60	1	691	1 543	1 543	Refurbishment
1665	France	2021	Pelton	278,8	0,37	1	445	898	898	Turnkey
1952	France	2021	Pelton	577,0	0,40	1	990	2 000	2 000	Turnkey
2235	Belgium	2021	Francis	37,7	13,50	2	1575	4 432	8 864	Refurbishment
2153	France	2020	Pelton	360,0	0,60	1	765	1 786	1 786	Turnkey
1959	Belgium	2020	Francis	143,6	3,30	2	720	4 072	8 144	Refurbishment
2530	Turkey	2020	Francis	60,0	4,53	1	730	2 376	2 376	Turnkey
2500	Turkey	2020	Francis	45,0	6,25	2	1020	2 475	4 950	Turnkey
1700	Brazil	2020	Francis	47,6	1,90	2	545	782	1 564	Refurbishment
2274	France	2020	Kaplan	8 & 7.5	4,20	2	920	277 & 260	537	Turnkey
1773	France	2020	Pelton	143,0	0,45	1	640	560	560	Turnkey
2490	Turkey	2020	Pelton	260,5	1,22	2	643	2 750	5 500	Turnkey
1551	France	2020	Pelton	369,0	0,32	1	795	1 000	1 000	Turnkey
1402	France	2020	Kaplan	3,4	8,00	1	1400	238	238	Refurbishment
2250	Turkey	2020	Francis Double	34,0	12,00	2	2 x 980	3 500	7 000	Design
1564-3	France	2020	Pelton	160,0	0,50	1	690	685	685	Design
1053	France	2020	Kaplan	10,0	10,00	1	1400	900	900	Refurbishment
1957	France	2021	Kaplan	1,6	9,50	1	1650	119	119	Refurbishment
1591	France	2019	Pelton	132,0	0,50	1	770	500	500	Refurbishment
2163	Switzerland	2019	Pelton	475,0	0,06	1	590	213	213	Refurbishment
2127	France	2019	Pelton	101,0	0,50	1	819	450	450	Turnkey
1564-2	France	2019	Francis	23,3	1,20	1	530	240	240	Turnkey
1955	France	2019	HydroScrew	2,2	2,10	1	2400	40	40	Turnkey

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m³/s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
1914	France	2019	Pelton	236,0	0,17	1	618	330	330	Turnkey
1886	France	2019	Pelton	310,0	0,60	1	691	1 600	1 600	Refurbishment
1884	France	2019	Francis	98,7	4,10	1	950	3 500	3 500	Refurbishment
1740	France	2019	Pelton	123,0	1,68	1	880	1 800	1 800	Refurbishment
1862	France	2019	Pelton	77,5	0,66	1	700	445	445	Turnkey
1816	France	2019	Pelton	122,1	0,35	1	606	360	360	Turnkey
1815	France	2019	Pelton	329,0	0,18	1	724	490	490	Turnkey
1458	France	2019	Francis	53,0	0,30	1	260	140	140	Turnkey
1633	France	2019	Pelton	80,4	0,47	1	614	300	300	Turnkey
1432	New Caledonia	2018	Pelton	498,8	0,71	1	920	3 160	3 160	Turnkey
1637	France	2018	Pelton	340,0	0,48	1	770	1 400	1 400	Refurbishment
1577-3	Comoros	2018	Crossflow	17,5	0,10	1	290	11	11	Refurbishment
1577-2	Comoros	2018	Francis	32,0	1,00	1	450	266	266	Refurbishment
1577-1	Comoros	2018	Francis	27,0	1,50	1	500	341	341	Refurbishment
1313	France	2018	Pelton	415,0	1,10	1	840	3 900	3 900	Turnkey
1668	France	2018	Francis	21,0	2,00	1	670	370	370	Refurbishment
1558	France	2018	Pelton	320,0	3,20	1	-	9 050	9 050	Refurbishment
1481	France	2018	Francis	31,5	1,55	1	550	436	436	Refurbishment
1562	Madagascar	2018	Francis	141,9	0,50	1	320	635	635	Turnkey
N50240T	France	2017	HydroScrew	2,6	2,60	1	2500	46	46	Turnkey
N50239B	France	2017	HydroScrew	2,5	1,80	1	2100	31	31	Turnkey
N50238A	France	2017	HydroScrew	4,1	2,75	1	2800	82	82	Turnkey
1326	France	2017	Kaplan	11,0	15,00	1	1650	1 500	1 500	Turnkey
1318	Rwanda	2017	Pelton	80,0	0,40	1	614	281	281	Turnkey
1504	Madagascar	2017	Francis	70,5	0,67	1	390	400	400	Turnkey
1512	France	2017	Pelton	93,9	1,65	2	913	1 365	2 730	Turnkey
1443	France	2017	Kaplan	12,0	1,50	1	530	160	160	Refurbishment
1380	France	2017	Pelton	123,1	1,50	2	913	1 645	3 290	Turnkey
1258-3	Philippines	2017	Francis	55,5	2,00	2	490	980	1 960	Turnkey
1258-2	India	2017	Pelton	147,3	1,46	1	1030	1 900	1 900	Turnkey
1224	DRC (Congo)	2017	Pelton	240,0	3,50	2	1490	7 500	15 000	Turnkey
1439	DRC (Congo)	2017	Pelton	197,0	0,80	1	930	1 400	1 400	Turnkey
1449	France	2017	Pelton	400,0	0,12	1	797	420	420	Turnkey

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m³/s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
1413-2	Scotland	2017	Pelton	71,2	0,87	1	675	548	548	Turnkey
1413-1	Scotland	2017	Pelton	113,6	0,45	1	585	450	450	Turnkey
1354	India	2017	Pelton	289,1	0,26	1	700	685	685	Refurbishment
1385	France	2017	Pelton	142,8	0,50	1	963	560	560	Refurbishment
N50250W	France	2016	HydroScrew	2,5	3,00	1	2800	53	53	Turnkey
N50249D	France	2016	HydroScrew	2,8	1,90	1	2300	35	35	Turnkey
1400	Switzerland	2016	Pelton	31,0	0,12	1	373	33	33	Refurbishment
1139	France	2016	Pelton	441,0	0,55	1	860	2 050	2 050	Turnkey
1220-2	France	2016	Pelton	305,0	0,90	1	870	2 424	2 424	Refurbishment
1220-1	France	2016	Pelton	288,0	1,20	1	870	2 940	2 940	Refurbishment
1185	Middle East	2016	Francis	40,0	0,55	1	350	180	180	Turnkey
1191	Cameroon	2015	Francis	48,3	3,50	2	750	1 450	2 900	Turnkey
1198	France	2015	Pelton	272,0	0,15	1	679	345	345	Turnkey
1035	France	2015	Kaplan	5,5	0,22	1	240	11	11	Turnkey
1162	Middle East	2015	Francis	54,0	0,30	1	300	130	130	Turnkey
1173	India	2015	Francis	34,0	2,70	2	700	750	1 500	Turnkey
1095	France	2015	Kaplan	13,7	4,00	1	940	>425	>425	Turnkey
1054	France	2015	Kaplan	9,0	12,00	1	1600	850	850	Turnkey
982	South Africa	2015	Kaplan	15,3	30,00	3	2500	4 010	12 030	Turnkey
N50225V	France	2014	HydroScrew	2,5	2,70	1	2800	47	47	Turnkey
N50224T	France	2014	HydroScrew	2,5	2,80	1	2800	49	49	Turnkey
N50223S	France	2014	HydroScrew	2,5	2,90	1	2800	50	50	Turnkey
1146	Middle East	2014	Pelton	440,0	0,60	2	1150	2 240	4 480	Turnkey
1056	France	2014	Kaplan	11,5	20,00	2	2360	2 752	5 504	Refurbishment
1137	India	2014	Francis	50,0	1,50	2	510	500	1 000	Turnkey
1111	India	2014	Pelton	280,0	0,10	2	450	200	400	Turnkey
889	DRC (Congo)	2014	Francis Double	58,0	11,00	4	960	5 400	21 600	Turnkey
926-3	Romania	2014	Pelton	130,5	0,60	1	590	657	657	Turnkey
926-2	Romania	2014	Pelton	68,3	0,60	1	648	344	344	Turnkey
926-1	Romania	2014	Pelton	118,6	0,42	1	570	418	418	Turnkey
917	Turkey	2014	Pelton	220,0	0,40	1	590	726	726	Turnkey
815-6	Romania	2014	Francis	63,3	1,05	1	450	565	565	Turnkey

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m³/s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
815-4	Romania	2014	Francis	35,3	0,85	1	450	250	250	Turnkey
815-3	Romania	2014	Francis	62,0	1,10	1	450	565	565	Turnkey
815-1	Romania	2014	Francis	53,6	0,80	1	400	315	315	Turnkey
N50222R	France	2013	HydroScrew	2,3	2,00	1	2500	35	35	Turnkey
1027	Ireland	2013	Francis	15,0	2.5+3.5	2	830+940	250+350	600	Refurbishment
1063	Ecuador	2013	Pelton	190,7	1,50	1	1200	2 390	2 390	Refurbishment
1048	France	2013	Francis	20,0	1,50	1	600	250	250	Refurbishment
1041	France	2013	Kaplan	8,0	20,00	1	2060	1 200	1 200	Refurbishment
962-3	DRC (Congo)	2013	Kaplan	11,0	53,00	2	3100	5 050	10 100	Turnkey
962-2	DRC (Congo)	2013	Kaplan	13,7	45,00	2	3100	5 320	10 640	Turnkey
931	Romania	2013	Francis	53,0	1,80	1	510	926	926	Refurbishment
886	Turkey	2013	Francis	46,8	6,40	2	960	2 300	4 600	Turnkey
878	India	2013	Kaplan	4,8	60,00	2	3600	2 000	4 000	Turnkey
877	India	2013	Kaplan	7,0	60,00	2	3600	3 000	6 000	Turnkey
962-1	DRC (Congo)	2012	Francis	28,2	11,00	2	1380	2 650	5 300	Turnkey
974-2	Romania	2012	Pelton	87,7	0,98	1	745	729	729	Turnkey
974-1	Romania	2012	Pelton	111,2	0,98	1	700	928	928	Turnkey
960	France	2012	Pelton	194,0	0,45	1	735	730	730	Turbine
946	France	2012	Pelton	68,0	0,65	1	655	385	385	Turbine
847	DRC (Congo)	2012	Francis	18,0	5,50	1	1000	820	820	Turnkey
346	India	2012	Kaplan	4,3	11,55	2	1800	410	820	Turnkey
842	India	2012	Kaplan	7,1	14,50	1	1800	863	863	Turnkey
704	India	2012	Kaplan	12,0	54,00	3	3100	5 650	16 950	Turnkey
875	Nigeria	2011	Francis	14,5	5,00	2	1100	600	1 200	Turnkey
862	India	2011	Kaplan	6,0	62,00	3	3600	3 000	9 000	Turnkey
836	India	2011	Francis	134,0	2,61	2	750	2 500	5 000	Turnkey
815-5	Romania	2011	Pelton	64,6	0,23	1	425	122	122	Turnkey
815-2	Romania	2011	Pelton	90,0	0,35	1	500	256	256	Turnkey
671	India	2011	Pelton	190,0	1,65	1	1096	2 728	2 728	Turnkey
634	India	2011	Kaplan	2,5	39,90	1	3600	831	831	Turnkey
799	India	2010	Kaplan	2,9	42,50	2	3600	1 020	2 040	Turnkey
792	Madagascar	2010	Francis	31,0	10,00	2	1380	3 000	6 000	Turnkey

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m ³ /s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
737	India	2010	Pelton	215,0	1,04	1	971	1 950	1 950	Turnkey
621	India	2010	Kaplan	11,0	43,70	3	2900	4 000	12 000	Turnkey
599	India	2010	Francis	195,0	3,55	4	800	5 750	23 000	Turnkey
586	India	2010	Francis	52,0	7,75	2	1080	3 340	6 680	Turnkey
564	India	2010	Francis	54,5	6,00	2	960	2 681	5 362	Turnkey
583	India	2009	Francis	109,0	3,85	2	780	3 450	6 900	Turnkey
601	India	2008	Francis	35,0	8,62	2	1180	2 500	5 000	Turnkey
600	France	2008	Kaplan	4,3	5,00	1	1200	180	180	Turnkey
659	Kenya/Uganda	2007	Pelton	240,0	3,00	4	1025	6 000	24 000	Detailed studies
588	Sri Lanka	2006	Francis	22,8	4,50	1	962	900	900	Turnkey
588	Sri Lanka	2006	Francis	22,8	9,00	1	1380	1 800	1 800	Turnkey
545	Sri Lanka	2005	Pelton	200,0	1,10	1	750	1 950	1 950	Turnkey
452	France	2004	Pelton	380,0	0,36	1	760	1 140	1 140	Design + Runner
391	France	2004	Pelton	44,0	0,25	1	430	90	90	Turnkey
551	Tahiti	2003	Francis	163,0	1,20	1	460	1 620	1 620	Refurbishment
500	Sri Lanka	2003	Francis	87,0	2,35	1	650	1 750	1 750	Turnkey
522	France	2002	Kaplan	3,2	10,00	3	1700	250	750	Turnkey
505	Sri Lanka	2002	Pelton	95,0	1,40	1	780	1 080	1 080	Turnkey
386	India	2002	Kaplan	7,0	38,50	2	2900	2 250	4 500	Turnkey
385	India	2002	Kaplan	6,5	20,00	1	2000	1 100	1 100	Turnkey
508	Belgium	2001	Kaplan	1,6	22,50	2	2900	300	600	Design
365	India	2001	Kaplan	5,6	17,00	1	2000	800	800	Turnkey
383	India	2001	Kaplan	10,0	12,00	1	1700	1 000	1 000	Turnkey
383	India	2001	Kaplan	9,0	11,00	1	1700	900	900	Turnkey
338	India	2001	Kaplan	6,1	21,00	4	2300	1 100	4 400	Turnkey
360	India	2000	Kaplan	6,3	23,00	4	2300	1 100	4 400	Turnkey
358	India	2000	Kaplan	7,5	13,00	2	1700	830	1 660	Turnkey
364	India	1999	Kaplan	3,6	20,00	1	2300	560	560	Turnkey
259	France	1999	Kaplan	2,5	100,00	7		285	2 000	Refurbishment
363	India	1998	Kaplan	12,0	14,00	1	2000	1 400	1 400	Turnkey
325-3	India	1997	Kaplan	7,3	23,00	2	2300	1 380	2 760	Turnkey
325-2	India	1997	Kaplan	4,7	23,00	2	2300	874	1 748	Turnkey
325-1	India	1997	Kaplan	6,3	23,00	2	2300	1 200	2 400	Turnkey

Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m ³ /s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
15	Italy	1997	Francis	6,3	2,00	3	800	100	300	Refurbishment
371	France	1996	Francis	30,0	5,50	1	962	1 350	1 350	Design + Runner
298	Guinea	1996	Francis	48,0	14,00	2	1000	5 500	11 000	Design
258	France	1996	Kaplan	1,8	12,00	2	2000	170	340	Turnkey
245	France	1995	Pelton	400,0	0,45	1	900	1 500	1 500	Refurbishment
245	France	1995	Pelton	285,0	0,40	3	900	900	2 700	Refurbishment
265	France	1994	Pelton	400,0	0,60	1	1075	2 000	2 000	Design + Runner
264	France	1994	Kaplan	2,3	23,00	1	2500	425	425	Turnkey
227	Portugal	1994	Pelton	210,0	0,60	1	650	1 200	1 200	Turnkey
227	Portugal	1994	Pelton	210,0	0,30	1	650	600	600	Turnkey
185	Portugal	1994	Pelton	210,0	1,00	1	770	1 660	1 660	Refurbishment
185	Portugal	1994	Pelton	210,0	0,50	1	960	830	830	Refurbishment
158	Portugal	1994	Kaplan	6,7	6,20	1	1200	340	340	Turnkey
283	Spain	1993	Pelton	270,0	1,00	1	870	2 350	2 350	Design
187	Portugal	1993	Pelton	285,0	1,02	1	670	2 400	2 400	Turnkey
257	France	1992	Kaplan	4,7	45,00	2	2380	1 400	2 800	Design
236	France	1992	Kaplan	4,3	27,50	1	1450	965	965	Refurbishment
152	Portugal	1992	Francis	99,5	6,00	2	833	5 100	10 200	Detailed studies
202	France	1991	Francis	9,0	1,90	1	800	140	140	Turnkey
123	India	1991	Kaplan	2,7	25,00	2	2720	550	1 100	Turnkey
133	Ireland	1990	Francis	12,5	3,50	1	940	360	360	Turnkey
133	Ireland	1990	Francis	12,5	2,50	1	830	260	260	Turnkey
192	Canada	1988	Francis	17,0	55,00	1	3400	8 000	8 000	Design
16	Italy	1988	Francis	11,0	4,30	2	1000	400	800	Turnkey
13	France	1987	Kaplan	4,8	35,00	2	2720	1 400	2 800	Design
109	France	1986	Kaplan	4,8	7,80	1	1450	290	290	Refurbishment

Note:

Hydroscrew = Vis Hydrodynamique = Tornillo Hidrodinámico

Turnkey = Clé en main = Llave en mano

Refurbishment = Réhabilitation = Rehabilitación



Office / Bureau d'Études
2, allée de Longchamp,
54500 Vandoeuvre les Nancy
France

Factory / Usine
Route de Fallières,
88200 Saint-Nabord
France

+33 3 83 28 52 19

hpp@hydropowerplant.com



bpifrance



ISO 9001, ISO 14001 & ISO 45001

www.hydropowerplant.com