

# HPP



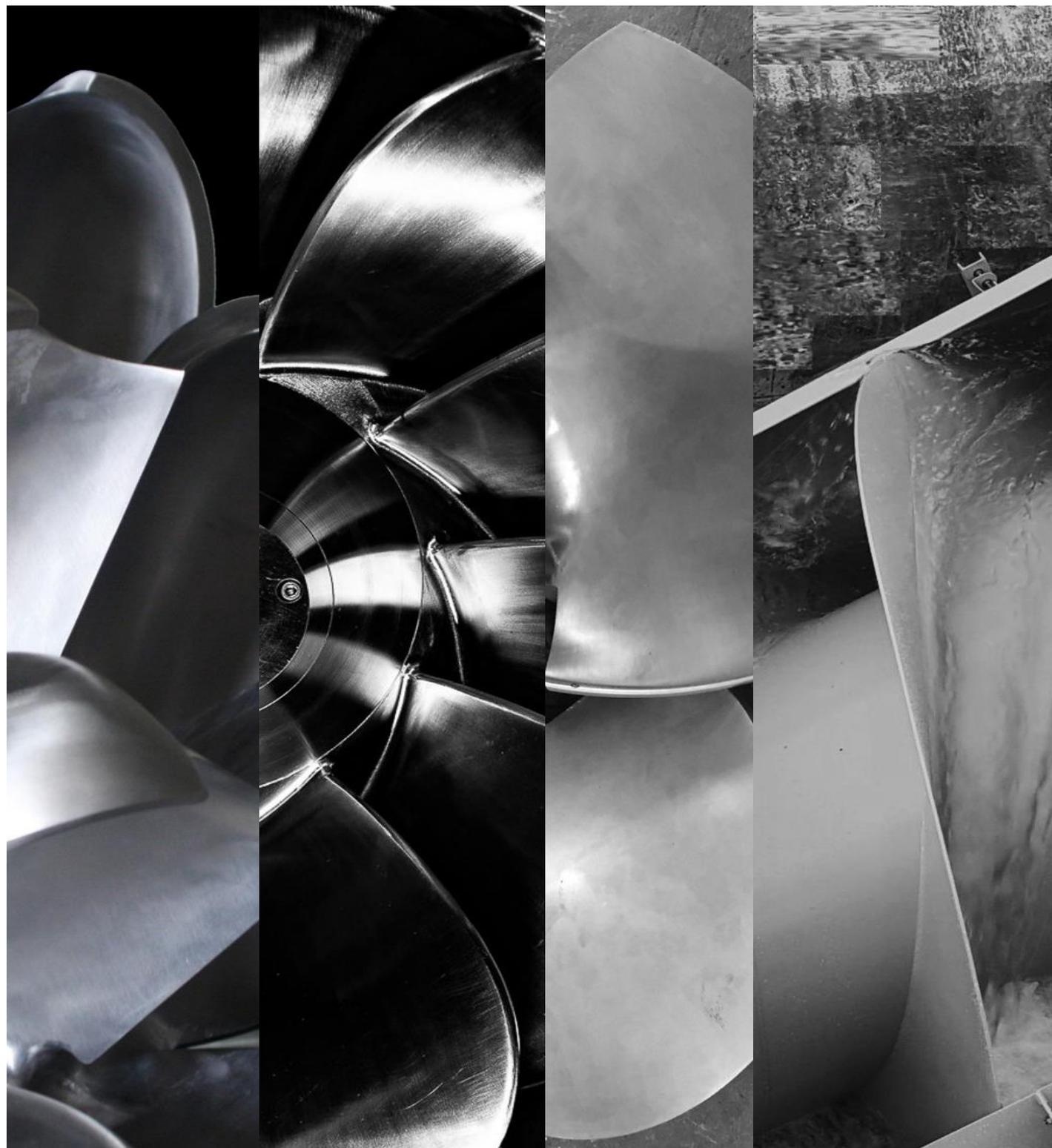
TURNING WATER  
INTO POWER



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## HPP

References  
Références  
*Referencias*



Ref	Country Pays País	Year Année Año	Type Type Tipo	Hn (m)	Qn (m <sup>3</sup> /s)	# units # groupes # u.	Ø (mm)	Power / Unit Puissance/U. Potencia/U. (kW)	Total Power Puissance totale Potencia total (kW)	Scope Périmètre Alcance
<b>2153</b>	<b>France</b>	2020	Pelton	360	0.6	1	765	1786	1786	Turnkey
<b>1959</b>	<b>Belgium</b>	2020	Francis	143.6	3.3	2	720	4072	8144	Refurbishment
<b>2530</b>	<b>Turkey</b>	2020	Francis	60	4.525	1	730	2376	2376	Turnkey
<b>2500</b>	<b>Turkey</b>	2020	Francis	44.98	6.25	2	1020	2475	4950	Turnkey
<b>2274</b>	<b>France</b>	2020	Kaplan	8 & 7.5	4.2	2	920	277 & 260	537	Turnkey
<b>1773</b>	<b>France</b>	2020	Pelton	143	0.45	1	640	560	560	Turnkey
<b>2082</b>	<b>France</b>	2020	Pelton	287	0.44	1	680	999	999	Turnkey
<b>2490</b>	<b>Turkey</b>	2020	Pelton	260.5	1.219	2	643	2750	5500	Turnkey
<b>1551</b>	<b>France</b>	2020	Pelton	368.95	0.315	1	795	1000	1000	Turnkey
<b>1402</b>	<b>France</b>	2020	Kaplan	3.4	8	1	1400	238	238	Refurbishment
<b>2250</b>	<b>Turkey</b>	2020	Francis Double	34	12	2	2 x 980	3500	7000	Design
<b>1564-3</b>	<b>France</b>	2020	Pelton	160	0.5	1	690	685	685	Design
<b>1053</b>	<b>France</b>	2020	Kaplan	10	10	1	1400	900	900	Refurbishment
<b>1957</b>	<b>France</b>	2021	Kaplan	1.6	9.5	1	1600	119	119	Refurbishment
<b>1591</b>	<b>France</b>	2019	Pelton	132	0.5	1	770	500	500	Refurbishment
<b>2163</b>	<b>Switzerland</b>	2019	Pelton	475	0.06	1	590	213	213	Refurbishment
<b>2127</b>	<b>France</b>	2019	Pelton	101	0.5	1	819	450	450	Turnkey
<b>1564-2</b>	<b>France</b>	2019	Francis	23.3	1.2	1	530	240	240	Turnkey
<b>1955</b>	<b>France</b>	2019	Hydro Screw	2.2	2.1	1	2400	40	40	Turnkey
<b>1914</b>	<b>France</b>	2019	Pelton	236	0.17	1	618	330	330	Turnkey
<b>1886</b>	<b>France</b>	2019	Pelton	310	0.6	1	691	1600	1600	Refurbishment
<b>1884</b>	<b>France</b>	2019	Francis	98.65	4.1	1	950	3500	3500	Refurbishment
<b>1740</b>	<b>France</b>	2019	Pelton	123	1.68	1	880	1800	1800	Refurbishment
<b>1862</b>	<b>France</b>	2019	Pelton	77.5	0.66	1	700	445	445	Turnkey
<b>1816</b>	<b>France</b>	2019	Pelton	122.1	0.35	1	606	360	360	Turnkey
<b>1815</b>	<b>France</b>	2019	Pelton	329	0.18	1	724	490	490	Turnkey
<b>1458</b>	<b>France</b>	2019	Francis	53	0.3	1	260	140	140	Turnkey
<b>1633</b>	<b>France</b>	2019	Pelton	80.4	0.47	1	614	300	300	Turnkey
<b>1432</b>	<b>New Caledonia</b>	2018	Pelton	498.8	0.71	1	920	3160	3160	Turnkey
<b>1637</b>	<b>France</b>	2018	Pelton	340	0.48	1	770	1400	1400	Refurbishment
<b>1577-3</b>	<b>Comoros</b>	2018	Crossflow	17.5	0.1	1	290	11	11	Refurbishment
<b>1577-2</b>	<b>Comoros</b>	2018	Francis	32	1	1	450	266	266	Refurbishment
<b>1577-1</b>	<b>Comoros</b>	2018	Francis	27	1.5	1	500	341	341	Refurbishment
<b>1313</b>	<b>France</b>	2018	Pelton	415	1.1	1	840	3900	3900	Turnkey
<b>1668</b>	<b>France</b>	2018	Francis	21	2	1	670	370	370	Refurbishment
<b>1558</b>	<b>France</b>	2018	Pelton	320	3.2	1	-	9050	9050	Refurbishment

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<b>1481</b>	<b>France</b>	2018	Francis	31.5	1.55	1	550	436	436	Refurbishment
<b>1562</b>	<b>Madagascar</b>	2018	Francis	141.93	0.5	1	320	635	635	Turnkey
<b>N50240T</b>	<b>France</b>	2017	Hydro Screw	2.6	2.6	1	2500	46	46	Turnkey
<b>N50239B</b>	<b>France</b>	2017	Hydro Screw	2.5	1.8	1	2100	31	31	Turnkey
<b>N50238A</b>	<b>France</b>	2017	Hydro Screw	4.1	2.75	1	2800	82	82	Turnkey
<b>1326</b>	<b>France</b>	2017	Kaplan	11	15	1	1650	1500	1500	Turnkey
<b>1318</b>	<b>Rwanda</b>	2017	Pelton	80	0.4	1	614	281	281	Turnkey
<b>1504</b>	<b>Madagascar</b>	2017	Francis	70.52	0.67	1	390	400	400	Turnkey
<b>1512</b>	<b>France</b>	2017	Pelton	93.87	1.65	2	913	1365	2730	Turnkey
<b>1443</b>	<b>France</b>	2017	Kaplan	12	1.5	1	530	160	160	Refurbishment
<b>1380</b>	<b>France</b>	2017	Pelton	123.12	1.5	2	913	1645	3290	Turnkey
<b>1258-3</b>	<b>Philippines</b>	2017	Francis	55.52	2	2	490	980	1960	Turnkey
<b>1258-2</b>	<b>India</b>	2017	Pelton	147.3	1.46	1	1030	1900	1900	Turnkey
<b>1224</b>	<b>DRC (Congo)</b>	2017	Pelton	240	3.5	2	1490	7500	15000	Turnkey
<b>1439</b>	<b>DRC (Congo)</b>	2017	Pelton	197	0.8	1	930	1400	1400	Turnkey
<b>1449</b>	<b>France</b>	2017	Pelton	400	0.122	1	797	420	420	Turnkey
<b>1413-2</b>	<b>Scotland</b>	2017	Pelton	71.15	0.868	1	675	548	548	Turnkey
<b>1413-1</b>	<b>Scotland</b>	2017	Pelton	113.6	0.445	1	585	450	450	Turnkey
<b>1354</b>	<b>India</b>	2017	Pelton	289.08	0.264	1	700	685	685	Refurbishment
<b>1385</b>	<b>France</b>	2017	Pelton	142.81	0.5	1	963	560	560	Refurbishment
<b>N50250W</b>	<b>France</b>	2016	Hydro Screw	2.5	3	1	2800	53	53	Turnkey
<b>N50249D</b>	<b>France</b>	2016	Hydro Screw	2.8	1.9	1	2300	35	35	Turnkey
<b>1400</b>	<b>Switzerland</b>	2016	Pelton	31	0.12	1	373	33	33	Refurbishment
<b>1139</b>	<b>France</b>	2016	Pelton	441	0.55	1	860	2050	2050	Turnkey
<b>1220-2</b>	<b>France</b>	2016	Pelton	305	0.9	1	870	2424	2424	Refurbishment
<b>1220-1</b>	<b>France</b>	2016	Pelton	288	1.2	1	870	2940	2940	Refurbishment
<b>1185</b>	<b>Middle East</b>	2016	Francis	40	0.55	1	350	180	180	Turnkey
<b>1191</b>	<b>Cameroon</b>	2015	Francis	48.32	3.5	2	750	1450	2900	Turnkey
<b>1198</b>	<b>France</b>	2015	Pelton	272	0.15	1	679	345	345	Turnkey
<b>1035</b>	<b>France</b>	2015	Kaplan	5.5	0.22	1	240	11.2	11.2	Turnkey
<b>1162</b>	<b>Middle East</b>	2015	Francis	54	0.3	1	300	130	130	Turnkey
<b>1173</b>	<b>India</b>	2015	Francis	34	2.7	2	700	750	1500	Turnkey
<b>1095</b>	<b>France</b>	2015	Kaplan	13.7	4	1	940	>425	>425	Turnkey
<b>1054</b>	<b>France</b>	2015	Kaplan	9	12	1	1600	850	850	Turnkey
<b>982</b>	<b>South Africa</b>	2015	Kaplan	15.34	30	3	2500	4010	12030	Turnkey
<b>N50225V</b>	<b>France</b>	2014	Hydro Screw	2.5	2.7	1	2800	47	47	Turnkey

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<b>N50224T</b>	<b>France</b>	2014	Hydro Screw	2.5	2.8	1	2800	49	49	Turnkey
<b>N50223S</b>	<b>France</b>	2014	Hydro Screw	2.5	2.9	1	2800	50	50	Turnkey
<b>1146</b>	<b>Middle East</b>	2014	Pelton	440	0.6	2	1150	2240	4480	Turnkey
<b>1056</b>	<b>France</b>	2014	Kaplan	11.5	20	2	2360	2752	5504	Refurbishment
<b>1137</b>	<b>India</b>	2014	Francis	50	1.5	2	510	500	1000	Turnkey
<b>1111</b>	<b>India</b>	2014	Pelton	280	0.104	2	450	200	400	Turnkey
<b>889</b>	<b>DRC (Congo)</b>	2014	Double	58	4x11	4	960	5400	21600	Turnkey
<b>926-3</b>	<b>Romania</b>	2014	Pelton	130.5	0.6	1	590	657	657	Turnkey
<b>926-2</b>	<b>Romania</b>	2014	Pelton	68.3	0.6	1	648	344	344	Turnkey
<b>926-1</b>	<b>Romania</b>	2014	Pelton	118.6	0.42	1	570	418	418	Turnkey
<b>917</b>	<b>Turkey</b>	2014	Pelton	220	0.4	1	590	726	726	Turnkey
<b>815-6</b>	<b>Romania</b>	2014	Francis	63.3	1.05	1	450	565	565	Turnkey
<b>815-4</b>	<b>Romania</b>	2014	Francis	35.3	0.85	1	450	250	250	Turnkey
<b>815-3</b>	<b>Romania</b>	2014	Francis	62	1.1	1	450	565	565	Turnkey
<b>815-1</b>	<b>Romania</b>	2014	Francis	53.6	0.8	1	400	315	315	Turnkey
<b>N50222R</b>	<b>France</b>	2013	Hydro Screw	2.3	2	1	2500	35	35	Turnkey
<b>1027</b>	<b>Ireland</b>	2013	Francis	15	2,5+3,5	2	830+940	250+350	600	Refurbishment
<b>1063</b>	<b>Ecuador</b>	2013	Pelton	190.7	1.495	1	1200	2390	2390	Refurbishment
<b>1048</b>	<b>France</b>	2013	Francis	20	1.5	1	600	250	250	Refurbishment
<b>1041</b>	<b>France</b>	2013	Kaplan	8	20	1	2060	1200	1200	Refurbishment
<b>962-3</b>	<b>DRC (Congo)</b>	2013	Kaplan	11.03	53	2	3100	5050	10100	Turnkey
<b>962-2</b>	<b>DRC (Congo)</b>	2013	Kaplan	13.7	45	2	3100	5320	10640	Turnkey
<b>931</b>	<b>Romania</b>	2013	Francis	53	1.8	1	510	926	926	Refurbishment
<b>886</b>	<b>Turkey</b>	2013	Francis	46.76	6.4	2	960	2300	4600	Turnkey
<b>878</b>	<b>India</b>	2013	Kaplan	4.8	60	2	3600	2000	4000	Turnkey
<b>877</b>	<b>India</b>	2013	Kaplan	7	60	2	3600	3000	6000	Turnkey
<b>962-1</b>	<b>DRC (Congo)</b>	2012	Francis	28.16	11	2	1380	2650	5300	Turnkey
<b>974-2</b>	<b>Romania</b>	2012	Pelton	87.65	0.98	1	745	729	729	Turnkey
<b>974-1</b>	<b>Romania</b>	2012	Pelton	111.15	0.98	1	700	928	928	Turnkey
<b>960</b>	<b>France</b>	2012	Pelton	194	0.45	1	735	730	730	Turbine
<b>946</b>	<b>France</b>	2012	Pelton	68	0.65	1	655	385	385	Turbine
<b>847</b>	<b>DRC (Congo)</b>	2012	Francis	18	5.5	1	1000	820	820	Turnkey
<b>346</b>	<b>India</b>	2012	Kaplan	4.31	11.55	2	1800	410	820	Turnkey
<b>842</b>	<b>India</b>	2012	Kaplan	7.1	14.5	1	1800	863	863	Turnkey
<b>704</b>	<b>India</b>	2012	Kaplan	12	54	3	3100	5650	16950	Turnkey

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875	Nigeria	2011	Francis	14.5	5	2	1100	600	1200	Turnkey
862	India	2011	Kaplan	6	62	3	3600	3000	9000	Turnkey
836	India	2011	Francis	134	2.61	2	750	2500	5000	Turnkey
815-5	Romania	2011	Pelton	64.6	0.23	1	425	122	122	Turnkey
815-2	Romania	2011	Pelton	90	0.35	1	500	256	256	Turnkey
671	India	2011	Pelton	190	1.65	1	1096	2728	2728	Turnkey
634	India	2011	Kaplan	2.5	39.9	1	3600	831	831	Turnkey
799	India	2010	Kaplan	2.9	42.5	2	3600	1020	2040	Turnkey
792	Madagascar	2010	Francis	31	10	2	1380	3000	6000	Turnkey
737	India	2010	Pelton	215	1.04	1	971	1950	1950	Turnkey
621	India	2010	Kaplan	11	43.7	3	2900	4000	12000	Turnkey
599	India	2010	Francis	195	3.55	4	800	5750	23000	Turnkey
586	India	2010	Francis	52	7.75	2	1080	3340	6680	Turnkey
564	India	2010	Francis	54.5	6	2	960	2681	5362	Turnkey
583	India	2009	Francis	109	3.85	2	780	3450	6900	Turnkey
601	India	2008	Francis	35	8.62	2	1180	2500	5000	Turnkey
600	France	2008	Kaplan	4.25	5	1	1200	180	180	Turnkey
659	Kenya/Uganda	2007	Pelton	240	3	4	1025	6000	24000	Detailed studies
588	Sri Lanka	2006	Francis	22.8	4.5	1	962	900	900	Turnkey
588	Sri Lanka	2006	Francis	22.8	9	1	1380	1800	1800	Turnkey
545	Sri Lanka	2005	Pelton	200	1.1	1	750	1950	1950	Turnkey
452	France	2004	Pelton	380	0.36	1	760	1140	1140	Design + Runner
391	France	2004	Pelton	44	0.25	1	430	90	90	Turnkey
551	Tahiti	2003	Francis	163	1.2	1	460	1620	1620	Refurbishment
500	Sri Lanka	2003	Francis	87	2.35	1	650	1750	1750	Turnkey
522	France	2002	Kaplan	3.2	10	3	1700	250	750	Turnkey
505	Sri Lanka	2002	Pelton	95	1.4	1	780	1080	1080	Turnkey
386	India	2002	Kaplan	7	38.5	2	2900	2250	4500	Turnkey
385	India	2002	Kaplan	6.5	20	1	2000	1100	1100	Turnkey
508	Belgium	2001	Kaplan	1.6	22.5	2	2900	300	600	Design
365	India	2001	Kaplan	5.6	17	1	2000	800	800	Turnkey
383	India	2001	Kaplan	10	12	1	1700	1000	1000	Turnkey
383	India	2001	Kaplan	9	11	1	1700	900	900	Turnkey
338	India	2001	Kaplan	6.1	21	4	2300	1100	4400	Turnkey
360	India	2000	Kaplan	6.3	23	4	2300	1100	4400	Turnkey

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358	India	2000	Kaplan	7.5	13	2	1700	830	1660	Turnkey
364	India	1999	Kaplan	3.6	20	1	2300	560	560	Turnkey
259	France	1999	Kaplan	2.5	100	7		285	2000	Refurbishment
363	India	1998	Kaplan	12	14	1	2000	1400	1400	Turnkey
325-3	India	1997	Kaplan	7.3	23	2	2300	1380	2760	Turnkey
325-2	India	1997	Kaplan	4.65	23	2	2300	874	1748	Turnkey
325-1	India	1997	Kaplan	6.3	23	2	2300	1200	2400	Turnkey
15	Italy	1997	Francis	6.3	2	3	800	100	300	Refurbishment
371	France	1996	Francis	30	5.5	1	962	1350	1350	Design + Runner
298	Guinea	1996	Francis	48	14	2	1000	5500	11000	Design
258	France	1996	Kaplan	1.8	12	2	2000	170	340	Turnkey
245	France	1995	Pelton	400	0.45	1	900	1500	1500	Refurbishment
245	France	1995	Pelton	285	0.4	3	900	900	2700	Refurbishment
265	France	1994	Pelton	400	0.6	1	1075	2000	2000	Design + Runner
264	France	1994	Kaplan	2.3	23	1	2500	425	425	Turnkey
227	Portugal	1994	Pelton	210	0.6	1	650	1200	1200	Turnkey
227	Portugal	1994	Pelton	210	0.3	1	650	600	600	Turnkey
185	Portugal	1994	Pelton	210	1	1	770	1660	1660	Refurbishment
185	Portugal	1994	Pelton	210	0.5	1	960	830	830	Refurbishment
158	Portugal	1994	Kaplan	6.7	6.2	1	1200	340	340	Turnkey
283	Spain	1993	Pelton	270	1	1	870	2350	2350	Design
187	Portugal	1993	Pelton	285	1.02	1	670	2400	2400	Turnkey
257	France	1992	Kaplan	4.7	45	2	2380	1400	2800	Design
236	France	1992	Kaplan	4.25	27.5	1	1450	965	965	Refurbishment
152	Portugal	1992	Francis	99.5	6	2	833	5100	10200	Detailed studies
202	France	1991	Francis	9	1.9	1	800	140	140	Turnkey
123	India	1991	Kaplan	2.7	25	2	2720	550	1100	Turnkey
133	Ireland	1990	Francis	12.5	3.5	1	940	360	360	Turnkey
133	Ireland	1990	Francis	12.5	2.5	1	830	260	260	Turnkey
192	Canada	1988	Francis	17	55	1	3400	8000	8000	Design
16	Italy	1988	Francis	11	4.3	2	1000	400	800	Turnkey
13	France	1987	Kaplan	4.8	35	2	2720	1400	2800	Design
109	France	1986	Kaplan	4.75	7.8	1	1450	290	290	Refurbishment

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**Note:**

Hydroscrew = Vis Hydrodynamique = *Tornillo Hidrodinámico*

Turnkey = Clé en main = *Llave en mano*

Refurbishment = Réhabilitation = *Rehabilitación*



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