

Cost of Power Delivered to Shafting Using Various Prime Movers.

March, 1905.

City Gas and Otto Engine.		20 B.H.P.		50 B.H.P.		100 B.H.P.	
		Total.	One B.H.P.	Total.	One B.H.P.	Total.	One B.H.P.
1st Cost—							
1—Engine		\$800 00	\$40 00	\$1,850 00	\$37 00	\$3,500 00	\$35 00
2—Foundation		40 00	2 00	110 00	2 20	175 00	1 75
3—Erection		15 00	0 75	25 00	0 50	40 00	0 40
4—Piping		45 00	2 25	100 00	2 00	175 00	1 75
Total		\$900 00	\$45 00	\$2,085 00	\$41 70	\$3,890 00	\$38 90
		20		50		100	
		One Year 3,000 hrs.	One B.H.P. Hour.	One Year 3,000 hrs.	One B.H.P. Hour.	One Year 3,000 hrs.	One B.H.P. Hour.
Cost of Operation—			c.		c.		c.
1—Interest, depreciation and repairs— 15 per cent. of 1st cost.		\$135 00	0.23	\$313 00	0.21	\$584 00	0.19
2—Fuel—18 feet per B.H.P. hr. Gas at \$1.00 per 1,000		1,080 00	1.80	2,700 00	1.80	5,400 00	1.80
3—Attendance { 20 h.p., 1 hr. at 15c. 50 h.p., 1 hr. at 20c. 100 h.p., 1½ hrs. at 20c.		45 00	0.07	60 00	0.04	75 00	0.03
4—Oil, Waste and Supplies		60 00	0.10	120 00	0.08	180 00	0.06
Total		\$1,320 00	2.20	\$3,153 00	2.13	\$6,239 00	2.08
Total—Natural Gas { 25c. per 1,000, 15 ft. per B.H.P. hr.		465 00	0.78	1,055 00	0.70	1,963 00	0.65
Total—Natural Gas { 50c. per 1,000, 15 ft. per B.H.P. hr.		690 00	1.15	1,617 00	1.08	3,087 00	1.03

Otto Gasoline Engine.		20 B.H.P.		50 B.H.P.		100 B.H.P.	
		Total.	One B.H.P.	Total.	One B.H.P.	Total.	One B.H.P.
1st Cost—							
1—Engine		\$800 00	\$40 00	\$1,850 00	\$37 00	\$3,500 00	\$35 00
2—Foundation		40 00	2 00	110 00	2 20	175 00	1 75
3—Erection		15 00	0 75	25 00	0 50	40 00	0 40
4—Piping		45 00	2 25	100 00	2 00	175 00	1 75
Total		\$900 00	\$45 00	\$2,085 00	\$41 70	\$3,890 00	\$38 90
		20		50		100	
		One Year 3,000 hrs.	One B.H.P. Hour.	One Year 3,000 hrs.	One B.H.P. Hour.	One Year 3,000 hrs.	One B.H.P. Hour.
Cost of Operation—			c.		c.		c.
1—Interest, depreciation and repairs— 15 per cent. of 1st cost.		\$135 00	0.23	\$313 00	0.21	\$584 00	0.19
2—Fuel { 20 h.p.—1 pint B.H.P. hr. 50 h.p.—9-10 pint B.H.P. hr. 100 h.p.—9-10 pint B.H.P. hr. (Gasoline at 9c. per gallon).		675 00	1.12	1,519 00	1.01	3,038 00	1.01
3—Attendance { 20 h.p., 1 hr. at 15c. 50 h.p., 1 hr. at 20c. 100 h.p., 1½ hrs. at 20c.		45 00	0.07	60 00	0.04	75 00	0.03
4—Oil, Waste and Supplies		60 00	0.10	120 00	0.08	180 00	0.06
Total		\$915 00	1.52	\$2,012 00	1.34	\$3,877 00	1.29
Total—Gasoline, 12c. gallon		1,140 00	1.90	2,518 00	1.68	4,890 00	1.63
Total—Gasoline, 15c. gallon		1,365 00	2.28	3,024 00	2.02	5,903 00	1.97