a municipal supply station, when once started, been transferred to a company.

			2		10	2	3	•		
	Units of 1000 Watt Hours sold.		19,691,042	30,721,564	47,204,575	69,562,652	108,681,443	154,615,339	430,476,615	A STATE OF THE STA
G FUND.	Per rooo Watt	Cents.	9.22	7.80	2.06	6.74	6.34	5.92		
	Cost per 1000 Watt Hour,	Cents.	4.84	4.34	3.94	3.82	4.00	3.30		
e.	Total Cost per 1000 Watt Hour, including Interest, Sinking Fund, etc.	Cents.	4.38	3.46	3.12	2.92	2.34	2.62		
896-1901, Inclusive,		<del>\$</del>	019'106	1,106,885	1,534,495	2,112,355	2,656,890	4,229,750	\$12,541,980	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED
Years 18		Cents.	2.28	1.74	1.60	1.30	1.20	1.14		
etricity Undertakings for Years 1896-1901, Inclusive,	Per 1000 Watt Hour.	44	470,030	557,285	788,350	943,695	1,352,615	1,838,845	\$5,950,820	
		Cents.	2.10	1.72	1.52	1.62	1.14	1.48		
Ele		69-	431,580	549,600	746,140	1,168,660	1,304,275	2,390,905	\$6,591,160	
of British Mu	Gross Profits.	€₽-	1,037,155	1,420,550	2,027,925	2,459,385	3,072,270	4,639,290	\$14,656,575	THE REAL PROPERTY.
Financial Results of British Municipal	Total Costs,	€9-	, 016,006	1,493,605	1,940,845	2,778,015	4,519,900	5,339,815	\$16,963,090	
Fin	Revenue.	· •	2,028,065	2,814,155	3,968,770	5,237,400	7,592,170	9,979,105	\$31.619,665	
	Capital.	69-	17,357,480	22,647,725	33,366,700	45,902,240	65,647,660	84,525,170		
	Year.		1896	1897	1898	1899	1900	1991		
	Undertakings. No. of		50	09	99	75	26	123		

CAPITAL	INVESTED.	1902-03.

213	municipalities	 \$117,087,050
157	companies	 107,800,995

## OUTPUT IN KILOWATTS.

178	municipalities								162,505,417
92	companies						 		84,404,279

Dealing with the average capital outlay per kilowatt, for the past eight years, it is gratifying to notice that, whatever the system in vogue, the municipalities show much the better results. Thus in the case of alternating current plants the municipal cost is only \$460 per kilowatt, as against \$530 for the companies, whilst a comparison of direct current stations shows an outlay of \$445, against \$645; or, by grouping the whole of the stations together, the cost to municipalities is \$450, and of companies \$585. These figures cover a period of eight years, totalling altogether 829 returns, and in the case of the last year, extend over no less than 182 separate stations, and may, therefore, be taken as a pretty reliable estimate of the cost per kilowatt installed. They should satisfy the most rabid anti-municipalist that in electricity supply stations at least, local authorities obtain good value for the money spent.

Dealing with the relative cost of alternating and directcurrent systems, it will be seen that in the case of municipalities the balance is in favor of direct current, whilst in the case of companies it is very strongly the other way.

## COST OF PRODUCING 1,000 WATT HOUR IN 1901.

	Direct C	urrent.	Alterna	ating.	Total.		
		Cost in		Cost in	1000	Cost in	
	Stations.	Cents.	Stations	Cents.	Stations	Cents.	
Municipal		4.2	51	4.6	129	4.40	
Companies	. 34	4.18	18	4.12	52	5.50	

Taking the returns for eight years, with the exception of the first year, municipal stations show much lower costs all round than those of companies, the average of all the returns available being 5.50 cents per 1,000 watt hour, as against 6.6 cents, a saving of 1.1 cents per kilowatt hour.

Alternating current plants run by local authorities show an increased cost of production per kilowatt hour over direct current in the proportion of 6.2 cents to 4.8 cents, a difference of 1.4 cents in favor of direct current. In the case of company stations, both systems show the same results. By grouping all the returns together, a balance of 0.70 cents per kilowatt hour in favor of direct current is observed.

With a view to seeing how far it is possible to reduce the cost of production, without assuming any radical change in the present methods of generation, the following imaginary cost sheets are given. The first is obtained by taking the absolute lowest ascertained cost of each item, and combining same. The result is a total cost of 1.9 cents per kilowatt hour. The second table is one which is more likely to obtain in practice, and is made by taking the average of the ten lowest costs in each item and this gives a total of 2.82 cents per kilowatt hour.

TABLE I.-MINIMUM COST PER KILOWATT HOUR.

	Cents.	Cents.
St. Helen's-Coal	52	
Oldham—Stores	04	
Bradford—Wages	18	
Ealing—Repairs	14	
	The party	.88
Nottingham-Rent, etc	04	
Stockport—Salaries, etc	16	
	1	.20
	NA PROPERTY	
		1.08
Bootle—Interest	44	
Shoreditch—Sinking fund		
bliking lund		.82
	-	
		1.90