Generation details by Government plants plus units purchased for resale (compared with 1945-46) are as follows:—

	Year	Year ended 31st March, 1947.			Year ended 31st March, 1946.		
Station.	Maximum Kilowatts.	Units generated.	Annual Load Factor.	Maximum Kilowatts.	Units generated.	Annual Load Factor.	
Arapuni	12,500 33,009	786,185,000 88,235,950 47,582,495 113,582,000	Per Cent. 59 · 8 80 · 6 16 · 4 61 · 7	130,000 12,300 28,899 20,900	897,224,300 94,847,530 47,023,796 124,823,000	Per Cent. 78 · 7 88 · 0 18 · 5 68 · 1	
Penrose	44,000	$\begin{array}{c} 9,089,920 \\ 182,872,510 \\ 290,697,366 \end{array}$	47·4 51·9	44,000 62,700	2,775,150 $126,295,040$ $192,129,700$	$\begin{array}{c} 32 \cdot 7 \\ 34 \cdot 9 \end{array}$	
		1,518,245,241			1,485,118,516		
Auxiliary and standby Evans Bay Hawke's Bay Kourarau New Plymouth Onehunga Opunake Palmerston North Poverty Bay South Taranaki Taumanga Wilson's Other miscellaneou		86,618,160 1,262,189 2,973,397 16,156,070 2,941,330 1,633,599 5,407,422 1,796,220 1,112,024 3,230,100 7,244,415 2,926,200 4,767,658			$47,338,100\\1,004,814\\2,846,829\\15,674,460\\441,568\\1,648,838\\2,510,965\\787,950\\230,816\\3,473,330\\8,839,844\\2,824,200\\3,265,621$		
Total units generated	erated and	1,656,314,025			1,576,005,851		

2. Reliability of Supply

There were 261 faults, 20 of which caused no interruption to supply. Several faults were cumulative, affecting more than one district. Some of these were due to the system being overloaded. Lightning was responsible for 49 troubles, 11 of which occurred within three days.

A detailed analysis of interruptions is shown on the following table. These do not include pre-arranged shutdowns due to load rationing:—

Description.	Year ended 31st March, 1946: Number.	Year ended 31	Distributing Authorities	
_		Number.	Duration.	affected.
			h. m.	
1. 110 kV. lines : Defects	1	6	0 39	3
2. 110 kV. lines: External causes	2	6	1 27	13
3. 33 kV., 50 kV., or 66 kV. lines: Defects	9	11	14 18	10
4. 33 kV., 50 kV., or 66 kV. lines: External	9	13	3 47	6
causes				
5. 6.6 kV. or 11 kV. lines: Defects	5	3	52 48	2
6. 6.6 kV. or 11 kV. lines: External causes	4	2	1 34	$\frac{1}{3}$
7. Lightning	30	49	34 32	25
8. Storms: Nature of trouble not found	5		0 07	
9. 110 kV. apparatus		$\frac{2}{2}$	2 28	$\frac{2}{2}$
10. 33 kV., 50 kV., or 66 kV. apparatus	11	$\bar{9}$	1 49	$\bar{9}$
11. $5 \mathrm{kV}$., $6.6 \mathrm{kV}$., $11 \mathrm{kV}$., or $22 \mathrm{kV}$. apparatus	9	30	27 52	14
12. Generators or synchronous condensers	. ĭ	i	02	**
13. Relays	4	5	0 34	 5
14. Control circuits and batteries	$oldsymbol{\dot{5}}$	10	4 56	12
15. Operation: Mistakes	7	6	0 51	9
16. Operation: Accidents	7	7	2 34	14
17. Faults and overloads on consumers' system	•	•		
10 Other corres	38	82	7 46	30
19. Cause unknown	11	17	3 57	$\frac{30}{25}$
Totals	158	261	161 59	184