

附表4

緊急發電設備輸出量計算表(原動機、整合)				
RE1	$=1.3D=1.3 \times \text{④} \text{ } =$			RE1 ⑤⑧
RE2	柴油引擎	有無EV	$= f_{v2} \left\{ 1.026d + \left(\frac{1.163}{\epsilon} \cdot \frac{k_s}{Z'_m} \cos \theta_s - 1.026d \right) \frac{M_2'}{k} \right\}$ $= \text{③⑧} \text{ } \{ 1.026 \times \text{④⑧} \text{ } + \left(\frac{1.163}{\text{⑤⑨} \text{ }} \times \text{⑥⑩} \text{ } - 1.026 \times \text{④⑧} \text{ } \right) \frac{\text{①⑨} \text{ }}{\text{⑧} \text{ }} \} =$	RE2 ⑥①
	瓦斯輪機	有無	$= f_{v2} \left\{ \frac{1.163}{\epsilon} \cdot \frac{k_s}{Z'_m} \cos \theta_s \cdot \frac{M_2'}{K} \right\} = \text{③⑧} \text{ } \left\{ \frac{1.163}{\text{⑤⑨} \text{ }} \times \text{⑥⑩} \text{ } \times \frac{\text{①⑨} \text{ }}{\text{⑧} \text{ }} \right\} =$	RE2 ⑥②
RE3			$= \frac{f_{v3}}{\gamma} \left\{ 1.368d + \left(\frac{1.163}{Z'_m} \cos \theta_s - 1.368d \right) \frac{M_3'}{K} \right\}$ $= \frac{\text{③⑨} \text{ }}{\text{⑥③} \text{ }} \{ 1.368 \times \text{④⑧} \text{ } + (1.163 \text{ } \text{⑥④} \text{ } - 1.368 \times \text{④⑧} \text{ }) \frac{\text{②②} \text{ }}{\text{⑧} \text{ }} \} =$	RE3 ⑥⑤
RE	RE1、RE2、RE3中最大值 RE=RE <input type="checkbox"/>			RE ⑥⑥
原動機額定輸出E (PS)		$= 1.36RE \cdot K \cdot CP$ $= 1.36 \times \text{⑤⑥} \text{ } \times \text{⑧} \text{ } \times \text{⑥⑦} \text{ } = \text{⑥⑧} \text{ } \text{ PS}$		→ ⑥⑨ PS
整合MR		$MR = \frac{E}{1.2C_p \cdot G} = \frac{\text{⑥⑨} \text{ }}{1.2 \times \text{⑥⑦} \text{ } \times \text{⑤⑦} \text{ }} = \text{⑦⑩} \text{ }$		MR ≥ 1.0
緊急發電設備之輸出量		$G = \text{⑤⑦} \text{ } \text{ kVA} \quad \text{功因}=0.8 \quad E = \text{⑥⑨} \text{ } \text{ PS} \quad \text{柴油引擎} \quad \text{瓦斯輪機(一軸、二軸)}$		

備考1. 有EV時， $f_{v2}=0.9$ 、 $f_{v3}=1.0$ ；無EV時 f_{v2} 、 f_{v3} 參照係數表2-1。
 2. MR < 1.0時增加E值使MR ≥ 1.0，最好使MR < 1.5。