


Item		Unit	Standard	EPR
Fuel burnup		MW _t d / kg	45	65
Time		h /d	24	24
Equivalent heating value		MWh /kg	1,080	1,560
	3600	MJ /kg	3,888,000	5,616,000

Item	Symbols	Unit	Conventional Steam PP	Advanced Nuclear PP	
Type	-	-	USC	EPR -Areva	
Fuel	-	-	hard coal	UO ₂	
Number of units	-	-	2	1	1
Rated power output, per unit, gross	P_e	MW _e	875	1,750	1,750
Rated thermal power	P_t	MW _t	1,804	4,590	4,590
Electrical efficiency, gross	η	-	48.5%	38.1%	38.1%
Heat value LHV/ Fuel burnup	-	-	8.14 GWh/t	1,560 GWh/t	65 GWd/t
Equivalent full load hours	t	h /a	7,500	7,500	7,500
		d / a	n.a.	n.a.	312.5
Electricity generation	$W_e = P_e \times t$	GWh _e /a	13,125	13,125	13,125
Fuel consumption 	$Q = W_e / \eta$	GWh _t /a	27,062	34,425	34,425
	m	t /a	3,325	22.1	22.1
Formula	$m =$	t /a	Q / LHV	Q / LHV	$P_t \cdot t / burnup$