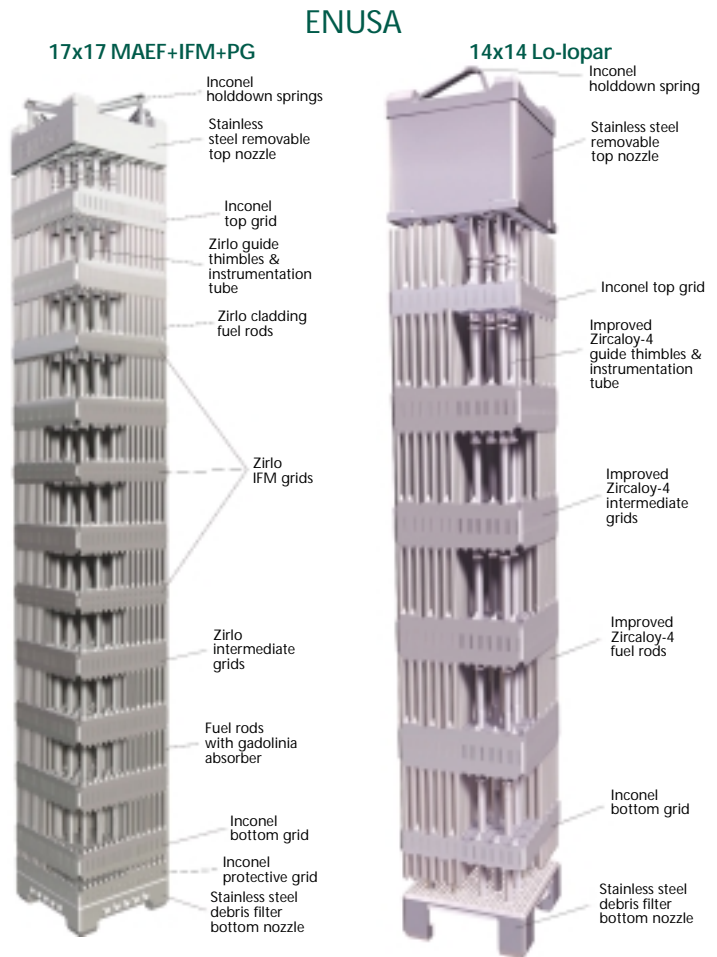
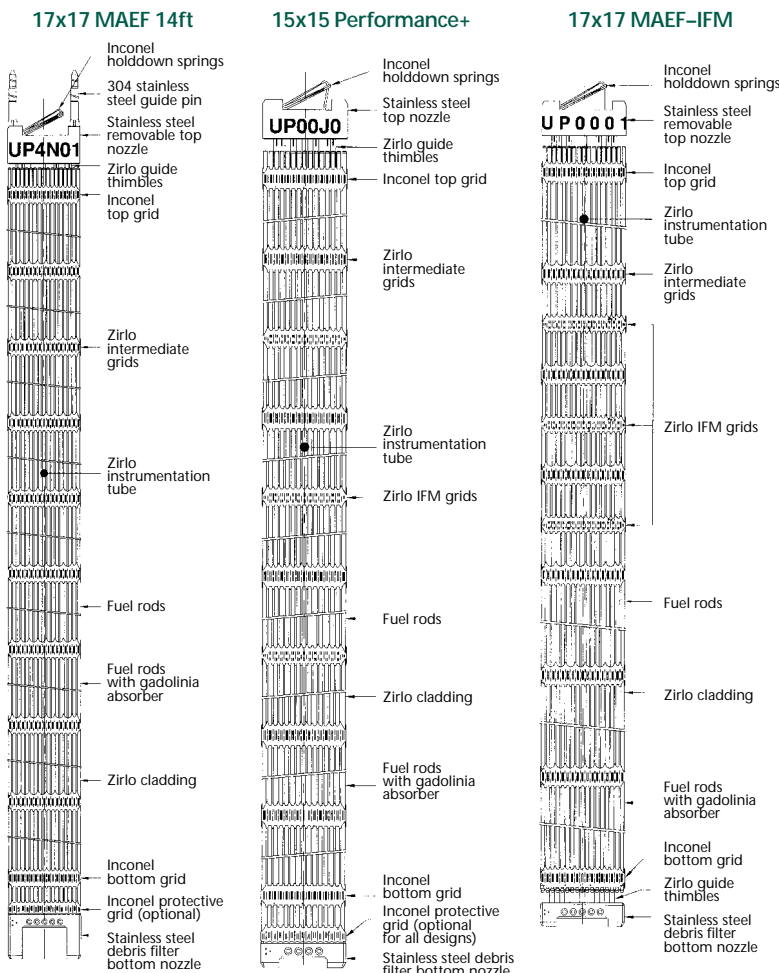


Fuel design data

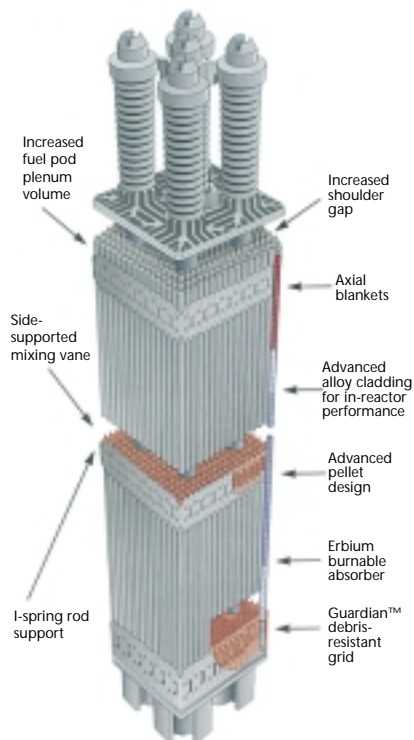
The four main reactor types (PWR, VVER, BWR and heavy water) are represented in the tables. Not all fuel fabricators are included. The illustrations and photographs show representative designs for most of the manufacturers included in the tables.



European Fuel Group



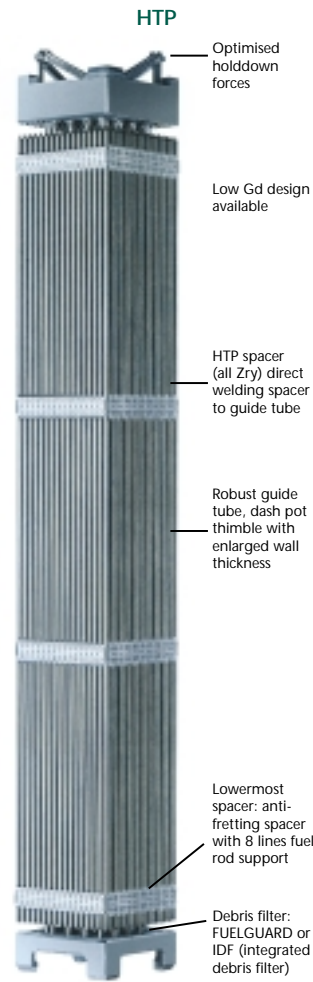
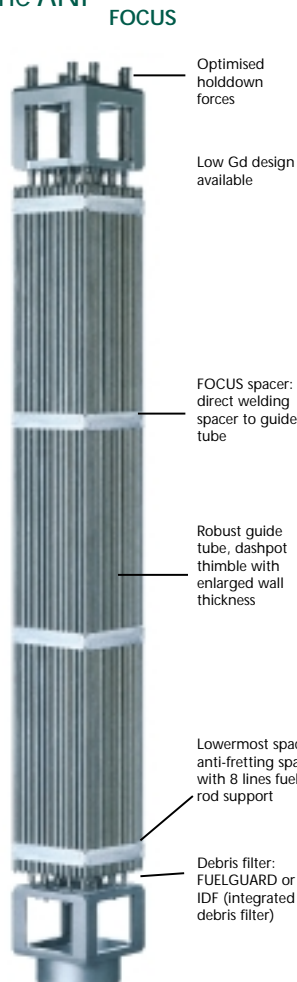
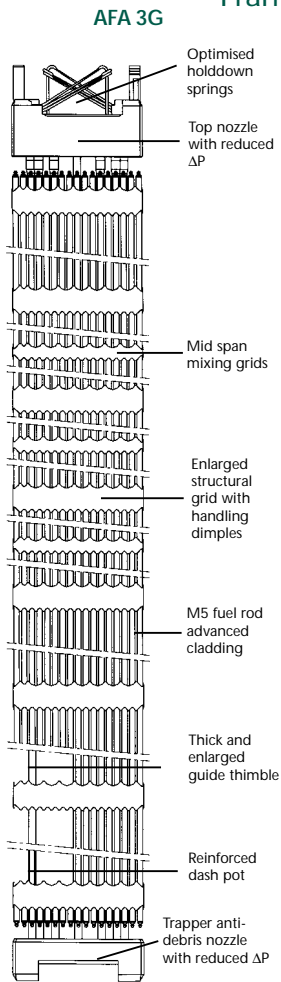
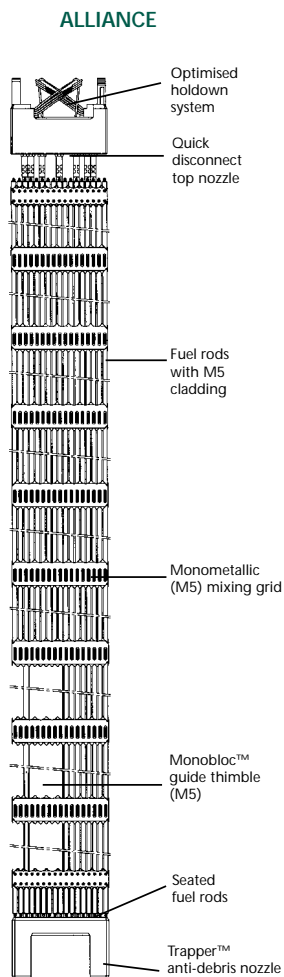
Westinghouse CE 16x16



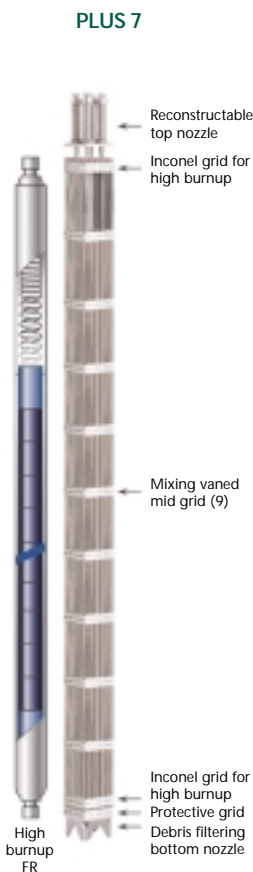
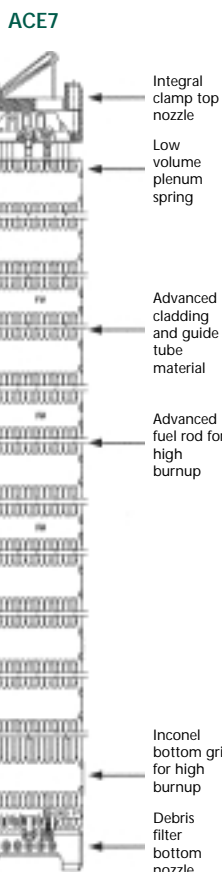
Westinghouse Sweden 17x17



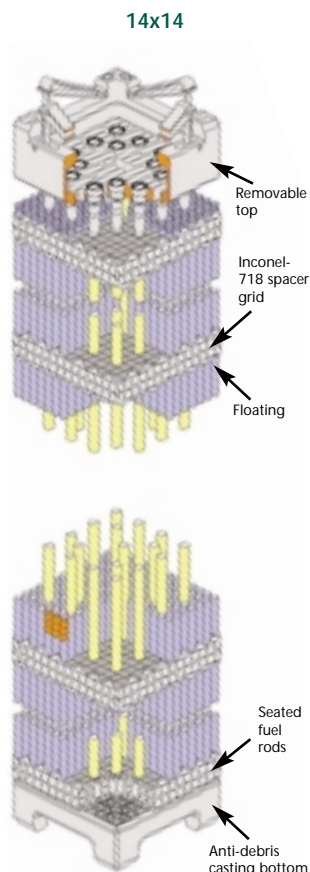
Framatome ANP



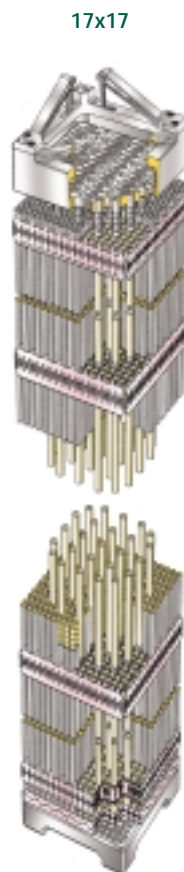
Korea Nuclear Fuel Company



Nuclear Fuel Industries



Mitsubishi



PWR design data

	Korea Nuclear Fuel (KNFC)						Mitsubishi			
	OFA	ACE7	KSD	Plus7	FORTE	ACE7				
Assembly geometry	14x14	16x16	16x16	16x16	17x17	17x17	14x14 ⁵	15x15 ⁶	17x17 ⁶	17x17 ⁷
No of rods per assembly							179	204	264	264
- Fuelled	179	235	236	236	264	264				
- Unfuelled	17 ¹	21 ²	5 ³	5	25 ⁴	25				
Overall assembly length (mm)	4063	4063	4528	4528	4063	4063	4057	4057	4058	4058
Overall assembly width (mm)	197	197	207	207	214	214	197	214	214	214
Rod length (mm)	3868	3878	4094	4094	3879	3881	3866	3866	3856	3856
Rod outside diameter (mm)	10.16	9.14	9.7	9.5	9.5	9.5	10.72	10.72	9.5	9.5
Pellet length (mm)	10.49	9.4	9.9	9.83	9.83	9.83	12.6	12.6	11.5	11.5
Pellet outside diameter (mm)	8.748	7.84	8.26	8.192	8.192	8.192	9.29	9.29	8.19	8.19
Pellet density (g/cm ³ or TD)	95%	95%	95.25%	95%	95%	95%	97%	97%	97%	97%
Average linear fuel rating (kW/m)	21.22	17.62	17.245	17.68	17.83	17.85	20.4	20.3	17.1	17.9
Peak linear fuel rating (kW/m)							-	-	-	-
Maximum fuel temperature (°C)							-	-	-	-
Clad material	Zirlo	Zirlo	Zirlo	Zirlo	Zirlo	Zirlo	Imp.Zy4	Imp.Zy4	Imp.Zy4	Imp.Zy4
Clad thickness (mm)	0.617	0.572	0.64	0.572	0.572	0.572	0.62	0.62	0.57	0.57
Average clad temperature (°C)							-	-	-	-
Maximum clad temperature (°C)							-	-	-	-
Grid material	Zirlo or Inc718	Zirlo or Inc718	Zirlo or Inc718	Zirlo or Inc718	Zirlo or Inc718	Zirlo or Inc718	Inc.	Inc.	Inc/Zy-4	Inc/Zy-4
Average discharge burnup (MWd/kgU)	42	55	43	55	48	55				
Maximum assembly burnup (MWd/kgU)	60	75	60	72	60	75	55	55	55	55

PWR design data (continued)

	Framatome ANP									
	ALLIANCE		Mk-B	Mk-BW17	AFA 3G					
Assembly geometry	17x17-12'	17x17-14'	15x15	17x17-12'	14x14	15x15	16x16	17x17-12'	17x17-14'	18x18
No of rods per assembly	264	264			179	204	236	264	264	300
- Fuelled			208	264						
- Unfuelled			17	25						
Overall assembly length (mm)	4060	4794.5	4209	4059	2899	4057	4827	4060	4795	4827
Overall assembly width (mm)	214	214	217	214	197.2	214	229.5	214	214	229.5
Rod length (mm)	3859	4492.3	3916	3865	2628.6	3874	4418	3863.4	4497.3	4429
Rod outside diameter (mm)	9.5	9.5	10.9/10.6 ¹³	9.5	10.72	10.72	10.75	9.5	9.5	9.5
Pellet length (mm)	13.46/10.2	13.46	11.5	10.2	15.25	15.25	11.0	13.46	13.46	9.66
Pellet outside diameter (mm)	8.19	8.19	9.4/9.8 ¹³	8.19	9.29	9.29	9.11	8.19	8.19	8.06
Pellet density (g/cm ³ or TD)	10.4/10.52	10.4	10.52	10.52	10.4	10.4	10.4	10.4	10.4	10.4
Average linear fuel rating (kW/m)	20	17.9	20.5	17.8	22	23.8 ¹⁷	21.1	20	17.9	16.6
Peak linear fuel rating (kW/m)	42/46.9	42	60.9	46.9	42 ¹⁶	42 ¹⁶	42 ¹⁶	42 ¹⁶	42 ¹⁶	42 ¹⁶
Maximum fuel temperature (°C)	2800	2800	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴	2800 ¹⁴
Clad material	M5 ¹⁵	M5 ¹⁵	M5 ¹⁵	M5 ¹⁵	Zy4/M5 ¹⁵	Zy4/M5 ¹⁵	Zy4/M5 ¹⁵	Zy4/M5 ¹⁵	Zy4/M5 ¹⁵	Zy4/M5 ¹⁵
Clad thickness (mm)	0.57	0.57	0.635/0.6 ¹³	0.57	0.62	0.62	0.725	0.57	0.57	0.64
Average clad temperature (°C)	-	-	*	*						
Maximum clad temperature (°C)	400	400	420	404	400	400	400	400	400	400
Grid material	M5 ¹⁵	M5 ¹⁵	Zy4/M5 ¹⁵ + Inc	Zy4/M5 ¹⁵ + Inc	Zy4 + Inc	Zy4 + Inc	Zy4 + Inc	Zy4 + Inc	Zy4 + Inc	Zy4 + Inc
Average discharge burnup (MWd/kgU)	-	-	*	*						
Maximum assembly burnup (MWd/kgU)	>70	>70	>58	>67	>60	>60	>60	>60	>60	>60

*Depends on plant requirements. **Depends on plant design. ¹Comprises 16 guide thimbles and one instrumentation rod. ²Comprises 20 outer guides and one centre guide rod. ³Comprises four outer guides and one centre guide rod. ⁴Comprises 24 guide thimbles and one instrumentation rod. ⁵Two-loop. ⁶Three-loop. ⁷Four-loop. ⁸Usually >52 MWd/kgU; peak rod burnup is licensed up to 60MWd/kgU. ⁹Other lattice sizes available. ¹⁰For Westinghouse units. ¹¹For Framatome ANP units. ¹²Fuel incorporating MOX and/or ORP can be supplied to individual requirements. ¹³Wet lattice design option. ¹⁴No melting criteria. ¹⁵Advanced alloy M5 is a Framatome ANP trademark. ¹⁶Depends on clad conditioning. ¹⁷Higher reactor power rate. ¹⁸No melting criteria. ¹⁹Different designs available. ²⁰This design is available through ENUSA for Spanish customers. ²¹Peak rod burnup is licensed up to 60 MWd/kgU. ²²ENUSA Industrias Avanzadas designs and manufactures PWR fuel to the Spanish plants.

PWR design data (continued)

Westinghouse CE			Westinghouse ¹²	Westinghouse Sweden & European Fuel Group (EFG – Westinghouse/ENUSA alliance)						ENUSA ²²	
System 80			Robust fuel assembly	RFA900	RFA1300	Performance +				Lo-Iopar	17x17 MAEF+IFM+PG
14x14	16x16	16x16	17x17 ⁹	17x17	17x17	15x15	17x17	16x16	18x18	14x14	17x17
176	236	236	264	264	264	204	264	236	300	179	264
				25	25	21	25	20	24	17 ¹	25 ⁴
3994	4491	4528	4058	4058	4795	4058	4053	4827	4827	2854	4063
206	207	207	214	214	214	214	214	229.6	229.6	197	214
3733	4112	4112	3881	3865	4492	3874	3852	4399	4402	2583	3886
11.18	9.70	9.70	9.5	9.5	9.5	10.72	9.5	10.75	9.5	10.72	9.5
11.58	9.91	9.91	9.83	9.83	9.83	11.2	9	10	9	11.13	9.83
9.68	8.26	8.27	8.19	8.19	8.19	9.29	8.19	9.11	8.05	9.29	8.19
10.3-10.58	10.3-10.58	10.3-10.58		10.53	10.53		10.5	10.5	10.5	10.53	10.53
20.44	17.72	17.91		17.9	17.1		17.8	20.7	16.7	16.70	18.93
46.92	42.65	42.98		59.0	59.0					up to 68.9 ¹⁸	up to 68.9 ¹⁸
*	*	*		*	*	*	*	*	*	2800 ¹⁸	2800 ¹⁸
Zr4	Zr4	Zr4	Zirlo™	Zr4	Zr4	Zirlo™	Zr4	Duplex/Zr4	Duplex/Zr4	Improved Zr4	Zirlo
0.660	0.635	0.635	0.57	0.57	0.57	0.62	0.57	0.725	0.64	0.62	0.57
*	*	*		*	*	*	*	*	*		
*	*	*		*	*	*	*	*	*		
Zr4	Zr4	Zr4	Zirlo™	Inc/Zr4	Inc/Zr4	Inc/Zirlo™	Inc/Zr4	Inc/Zr4	Inc/Zr4	Inconel/impr Zr4	Inconel/Zirlo
*8	*	*		*	*	*	*	*	*		
*	*	*		*	*	*	*	*	*	45	57 ²¹

PWR design data (continued)

Framatome ANP										Nuclear Fuel Industries				
FOCUS-X5					HTP-X5									
14x14-(16+1)	15x15-(20)	16x16-(20)	17x17-(24+1)	18x18-(24)	14x14-(16+1)	15x15-(20+1)	16x16-(20)	17x17-(24+1)	18x18-(24)	14x14 ⁵	14x14 ⁵	15x15 ⁶	17x17 ^{6,7}	17x17 ^{6,7}
196	225	256	289	324	196	225	256	289	324	179	179	204	264	264
179	205	236	264	300	179	204	236	264	300					
17	20	20	25	24	17	21	20	25	24					
3476	4179 ¹⁹	4827	4058	4827	2900	4058	4827	4057 ¹⁹	4827	4057	4057	4057	4058	4055
197.5	215	229.6	214	229.6	197.2	214	229.6	214	229.6	197	197	214	214	214
3210	3860 ¹⁹	4395	3847	4395	2635	3854	4405	3853 ¹⁹	4405	3856	3866	3856	3852	3862
10.75	10.75	10.75	9.5	9.5	10.77	10.75	10.75	9.55 ¹⁹	9.5	10.72	10.72	10.72	9.5	9.5
11.0	11.0	11.0	9.8	9.8	11.0	11.0	11.0	9.37 ¹⁹	9.8					
9.11	9.11	9.11	8.17	8.05	9.11	9.11	9.11	8.17 ¹⁹	8.05					
10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45	10.45 ¹⁹	10.45	95%	97%	95%	95%	97%
**	**	**	**	**	**	**	**	**	**	20.4	20.4	20.3	17.1/17.9	17.1/17.9
Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	Up to 46 ¹⁸	-	-	-	-	-
*	*	*	*	*	*	*	*	*	*	-	-	-	-	-
M5 ¹⁵ /Optimised Zry4/Modified Zry4/Duplex					Optimised Zry4/Modified Zry4/Duplex/M5 ¹⁵					Imp.Zy-4	NDA	Imp.Zy-4	Imp.Zy-4	NDA
0.725	0.725	0.725	0.61	0.64	0.725	0.725	0.725	0.61 ¹⁹	0.64	0.66	0.66	0.66	0.57, 0.64	0.57
*	*	*	*	*	*	*	*	*	*	-	-	-	-	-
*	*	*	*	*	*	*	*	*	*	-	-	-	-	-
Optimised Zry4/Modified Zry4 + Inconel					Modified Zry4/M5 ¹⁵ /HPA-4 + Inconel (bottom grid)					Inc	Inc	Inc	Inc/Zy-4	Inc/Zy-4
Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	Up to 65	-	-	-	-	-
Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	Up to 70	48	55	48	48	55

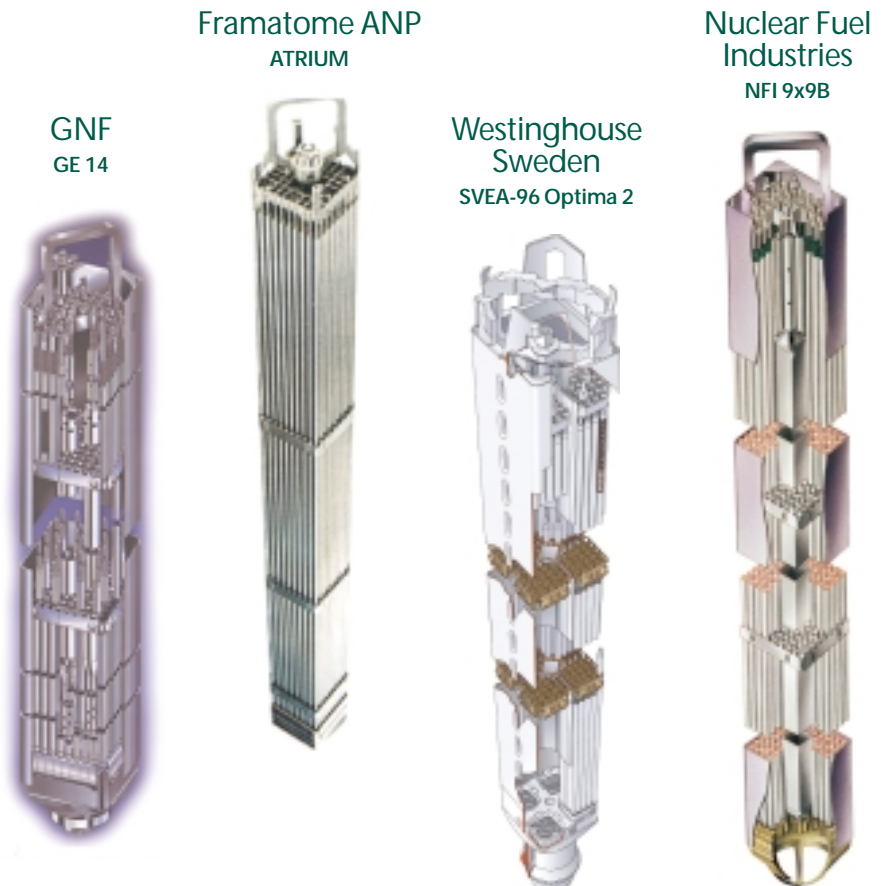
BWR design data

	Framatome ANP				Westinghouse Sweden			AEC (India)		Nuclear Fuel Industries
	ATRIUM 9B	ATRIUM 10A or B	ATRIUM 10P	ATRIUM 10XP	SVEA-96+ ⁷	SVEA-96 Optima	SVEA-96 Optima 2	LEU	MOX	NFI 9x9B
Assembly geometry	9x9	10x10	10x10	10x10	4x(5x5-1)	4x(5x5-1)	4x(5x5-1)	6x6	6x6	9x9
No of rods per assembly	72	91	91	91	96	96	96	36	36	
- Fuelled	72	83+8 PLFR ¹	79+12 PLFR ¹	81+10 PLFR ¹	96	88+8PLFR ¹	84+12 PLFR ¹	36	35	72
- Unfuelled	Water channel (3x3 rod positions)							-	1	Water channel (3x3 rod positions)
- Tie rods	8				8	8	8	8	8	8
Overall assembly length (mm)	4470 [*]	4470 [*]	4470 [*]	4470 [*]	4481	4420	4420	4245	4245	4470 ³
Overall assembly width (mm)	134 ²	134 ²	135 ²	134 ²	138.6	139.6	139.6			134 ³
Rod length (mm)	4074.5 [*]	4081.4 [*]	4081.4 [*]	4081.4 [*]	4152.6	3885.6	3985.3	110	110	4090 ³
Rod outside diameter (mm)	11.0	10.05	10.05	10.28	9.62	9.62/10.3	9.84	3954	3954	11.0
Pellet length (mm)	11.5	10.5	10.5	10.5	10	10	10	14.3	14.3	10
Pellet outside diameter (mm)	9.5	8.67	8.67	8.87	8.19	8.19/8.77	8.48	14.1	14.1	9.4
Pellet density (g/cm3)	10.55 (liner) 10.45 (no liner)	10.55 (liner) 10.45 (no liner)	10.55 (liner) 10.45 (no liner)	10.6 (liner) 10.45 (no liner)	10.52	10.52	10.60	12.26 10.35	12.26 10.35	97%TD
Average linear fuel rating (kW/m)	15.8 ³	14.3 ³	14.3 ³	15.8 ³	12.8 ³	12.4 ³	13.1 ³	17.9	-	16 ³
Peak linear fuel rating (kW/m)	47.0 ⁴	47.0 ⁴	47.0 ⁴	46.0 ⁴	*	*	*	57.4	-	44
Clad material	Zy2 ⁵ , LTP2, Fe enhanced Zr liner	Zy2 ⁵ , LTP2, Fe enhanced Zr liner	Zy2 ⁵ , LTP2, Fe enhanced Zr liner	LTP2/ Fe enhanced Zr liner	Zy2 ⁸	Zy2 ⁸	Zy2 liner	Zy2 ⁸	Zr2 Zr2	Zy2 with Zr liner
Clad thickness (mm)	0.665	0.605	0.605	0.620	0.63	0.63	0.605	0.87	0.87	0.70
Grid material	Zy	Zy	Inc	Inc	Inc	Inc	Inc	Inc	Inc	Zy
Average discharge burnup (MWd/kgU or HM)	43	65 ⁶	65 ⁶	66 ⁶	41	48	58 ⁶	21	21	45
Maximum assembly burnup (MWd/kgU or HM)	55	71	70 ⁶	70 ⁶	45	60	60 ⁶			55

* As customers requirements. ¹PLFR = part length fuel rod. ²Channel inner width (mm). ³Figure varies depending on reactor design. ⁴Depends on plant licensing. ⁵Option: Fe-enhanced Zr liner. ⁶Maximum values licensed for delivered fuel. ⁷For Framatome ANP (ex-Siemens) and GE designed BWRs. ⁸Option: Zr-Sn Liner. ⁹Global Nuclear Fuel (GNF), a joint venture of GE, Toshiba and Hitachi, supplies in the following assembly geometries: 10x10 lattice, GE12 and GE14; 9x9 lattices, GE13, GE11. In Europe, GNF is represented by GNF ENUSA Nuclear Fuel. Customers in Japan are served through its operating company GNF-Japan (formerly Japan Nuclear Fuel). GNF-Japan provides 9x9 fuel (called Step III) to the Japanese BWRs.

BWR design data (continued)

	Global Nuclear Fuel ⁹		
	GE 11	GE 12	GE 14
Lattice	9x9	10x10	10x10
# Fuel rods	7	92	92
# Part length rods	8	14	14
Part length rod length	2286 mm	2286 mm	2133.6 mm
Tie rods	8	8	8
# Spacers	7	8	8, new pitch
Rod to rod pitch	14.37 mm	12.95 mm	12.95 mm
Water rods	2 large central	2 large central	2 large central
Discharge exposure	45 GWd/MTU	45-55 GWd/MTU	45-55 GWd/MTU
Channel features	Interactive w trippers	Interactive w trippers	Interactive wo trippers
Active fuel length	3587.5 mm	3689.1 mm	3689.1 mm
Peak LHGR	14.4 kW/ft	11.8 kW/ft	13.4 kW/ft
CPR	Base	+6% over GE 11	+10% over GE 11

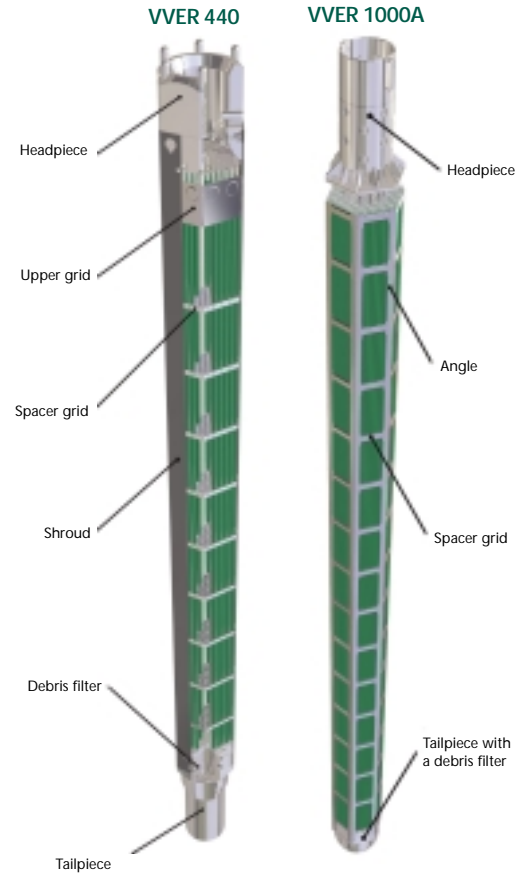


VVER design data

	Mashinostroitelny zavod				Westinghouse	
	VVER 440	VVER 440	VVER 440	VVER 1000A	440	Vvantage 6 1000
	Serial	U-Gd Fuel	Advanced CFA ²			
Assembly geometry	Hex	Hex	Hex	Hex	Hex	Hex
No of rods per assembly	127	127	127	331	127	331
- Fuelled	126	126	126	312	126	312
- Unfuelled	1	1	1	19	1	19
Overall assembly length (mm)	3217	3217	3200	4570	3188	4583
Overall assembly width (mm)	145	145	144	234.5	144	235
Rod length (mm)	2536/2546 ¹	2536/2546 ¹	2536	3837	2520	3889
Rod outside diameter (mm)	9.1	9.1	9.1	9.1	8.9	9.14
Pellet length (mm)	9-12	9-11	9-12	9-12	9.15	9.4
Pellet outside diameter (mm)	7.57	7.57	7.57	7.57	7.63	7.64
Pellet density (g/cm ³ or TD)	10.4-10.7	10.4-10.7	10.4-10.7	10.4-10.7		95%
Average linear fuel rating (kW/m)	12.96	12.96	12.96	16.7	15	
Peak linear fuel rating (kW/m)	32.5	32.5	32.5	44.8	35	
Maximum fuel temperature (°C)	1500	1500	1500	1667		
Clad material	Zr1%Nb	Zr1%Nb	Zr1%Nb	see note ³	Zr4	Zy4
Clad thickness (mm)	0.63	0.63	0.63	0.63	0.55	0.57
Average clad temperature (°C)	-	-	-	-		
Maximum clad temperature (°C)	350	350	350	-	360	
Grid material	Zr1%Nb	Zr1%Nb	Zr1%Nb	Zr1%Nb	Zr4	Zr4
Average discharge burnup (MWd/kgU)	42	-	-	55	>40	
Maximum assembly burnup (MWd/kgU)	>50	53	50	60		>50

VVER 440 Serial and VVER 440 Serial U-Gd Fuel are removable for inspection purposes, whereas VVER 440 Advanced CFA is not.
¹Fuel assembly design with removable fuel rods. ²Control fuel assembly (contains six Hf slices). ³Zr1%Nb, Zr1%Nb1.3%Sn0.3%Fe.
 Hex=Hexagonal.

Mashinostroitelny zavod



RBMK design data

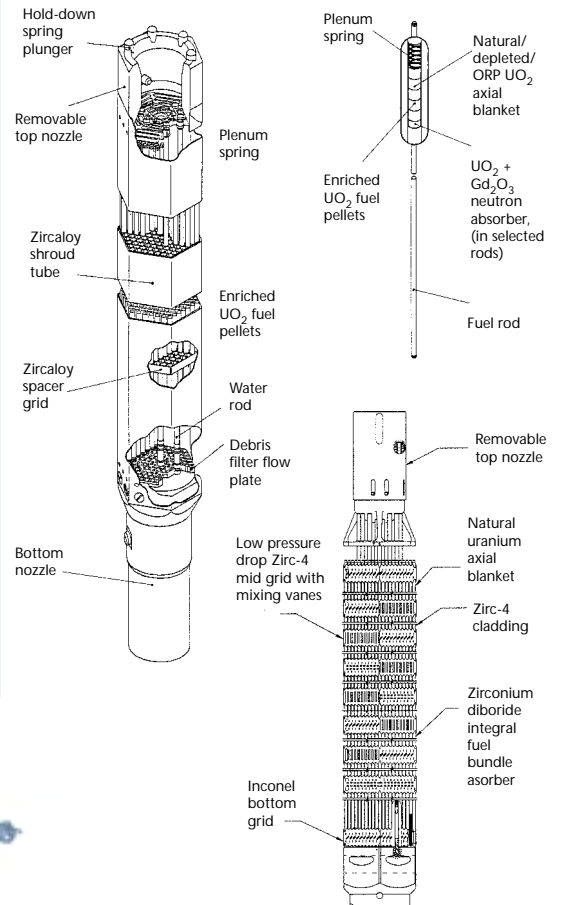
	Mashinostroitelny zavod			
	RBMK-1000		RBMK-1500	
	UO ₂ +Er (2.6% U ²³⁵)	UO ₂ +Er (2.8% U ²³⁵)	UO ₂ +Er (2.4% U ²³⁵)	UO ₂ +Er (2.6% U ²³⁵)
Assembly geometry	Circular array	Circular array	Circular array	Circular array
No of rods per assembly	37	37	37	37
- Fuelled	36	36	36	36
- Unfuelled	1	1	1	1
Overall assembly length (mm)	10014	10014	10014	10014
Overall assembly width (mm)	79	79	79	79
Rod length (mm)	3640	3640	3640	3640
Rod outside diameter (mm)	13.63	13.63	13.63	13.63
Pellet length (mm)	12-15	12-15	12-15	12-15
Pellet outside diameter (mm)	11.48	11.48	11.48	11.48
Pellet density (g/cm ³ or TD)	10.4-10.7	10.4-10.7	10.4-10.7	10.4-10.7
Average linear fuel rating (kW/m)	15.3	15.3	20.5	20.5
Peak linear fuel rating (kW/m)	35.0	35.0	42.5	42.5
Clad material	Zr1%Nb	Zr1%Nb	Zr1%Nb	Zr1%Nb
Clad thickness (mm)	0.85	0.85	0.85	0.85
Maximum clad temperature (°C)	350	350	350	350
Grid material	Zr1%+Nb	Stainless steel	Stainless steel	Stainless steel
Average discharge burnup (MWd/kgU)	25.8	30	20.5	26
Maximum assembly burnup (MWd/kgU)	29.6	34.5	23.5	30

Mashinostroitelny zavod

RBMK - 1000 / RBMK - 1500



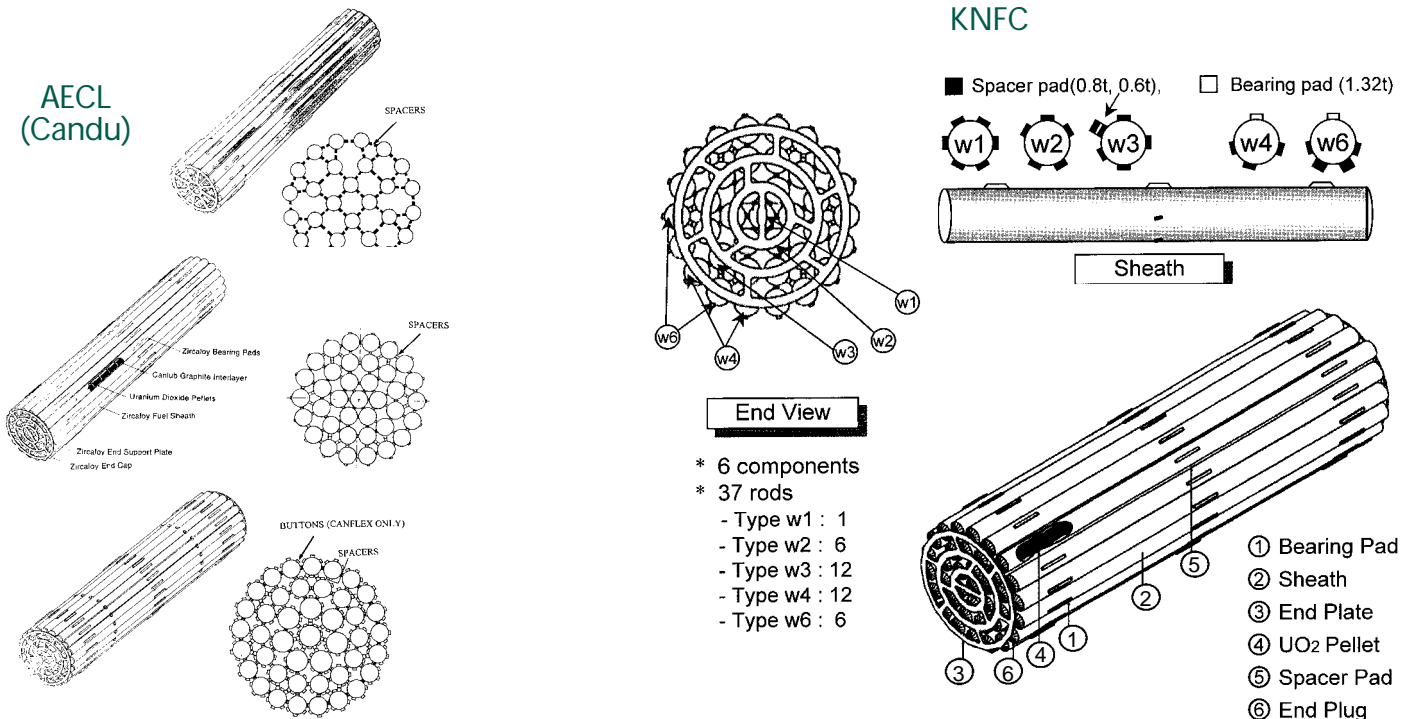
Westinghouse Typical VVER-1000 fuel assembly (UO₂ fuel)



Heavy water reactor design data

Assembly geometry	AECL*			CNEA (Argentina)					KNFC		AEC (India)	SNN**
	28-element Circular array	37-element Circular array	43-element Circular array	Embalse Circular array	Natural U	Atucha 1 Enriched U at 0.85%	Enriched U at 0.85%	Atucha 2 Circular array	37-element	CANFLEX NU Circular array	Circular array	Circular array
No of rods per assembly												
- Fuelled				37	36	36	37	37	37	43	19/22	37
- Unfuelled					1	1			-	-	-	-
Overall assembly length (mm)	495	495	495	495.3	6028.5	6028.5	6028.5	6027.8	495.3	495.3	495.3	495.3
Overall maximum assembly width (mm)	102	102	102	102.57	107.8	107.8	107.8	107.8	102.4	102.5	81.74	102.74
Rod length (mm)	493	493	493	492.9	5566.4	5566.4	5566.4	5566.4	492.8	493.1 (outer), 492.9 (inner)	493.0	493.44
Rod outside diameter (mm)	15	13	Inner: 13.5 / Outer: 11.5	13.08	11.9	11.9	11.9	12.9	12.07	11.5 (outer), 13.5 (inner)	15.22/13.08	13.095
Pellet length (mm)	22	16	Inner: 17.7 / Outer: 15.0	13	12	12	12	14	15.57	14.0 (outer), 15.9 (inner)	15.0/13.20	16.5
Pellet outside diameter (mm)	14	12	Inner: 12.6 / Outer: 10.7	12.15	10.62			11.57	12.16	10.7 (outer), 12.7 (inner)	-	12.221
Pellet density (g/cm ³)	10.6	10.6	10.6	10.6	10.55	10.55	10.55	10.55	10.6	10.6	10.6	10.6
U weight per bundle (kg)	19.8	19.2	18.6	19.0	-	-	-	-	-	-	-	19.3
Zr weight per bundle (kg)	2.1	2.2	2.2	-	-	-	-	-	-	-	-	2.32
Average linear fuel rating (kW/m)	-	-	-	24.6	23.2	23.2	22.6	23.2	-	-	50.2/42.2	-
Peak linear fuel rating (kW/m)	53	57	49	57	60	60	60	60	-	-	57.7/49.7	57
Maximum fuel temperature (°C)				2100	2200	2200	2200	2200	-	-	1800/1800	1800
Clad material	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4	Zy-4
Clad thickness (mm)	0.4	0.4	Inner: 0.36 / Outer: 0.33	0.42	0.55	0.55	0.55	0.57	0.41	0.33 (outer), 0.36 (inner)	0.37	0.39
Average clad temperature (°C)	320	340	340	330	335	335	335	340	-	-	-	330
Grid material	-	-	-	Zy-4		Zy-4 (rigid spacer)		Zy-4 +1 Inconel	-	-	-	-
Average discharge burnup (MWd/kgU)	8	7	7	7	5.9	11.3	11.5	7.5	7.5	7.3	6.7/6.2	7

*Nominal dimensions are provided for reference use only. **Societatea Nationala "Nuclearelectrica" (Romania)





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