

Figure 15 Age profile of the European nuclear power reactors<sup>81</sup>

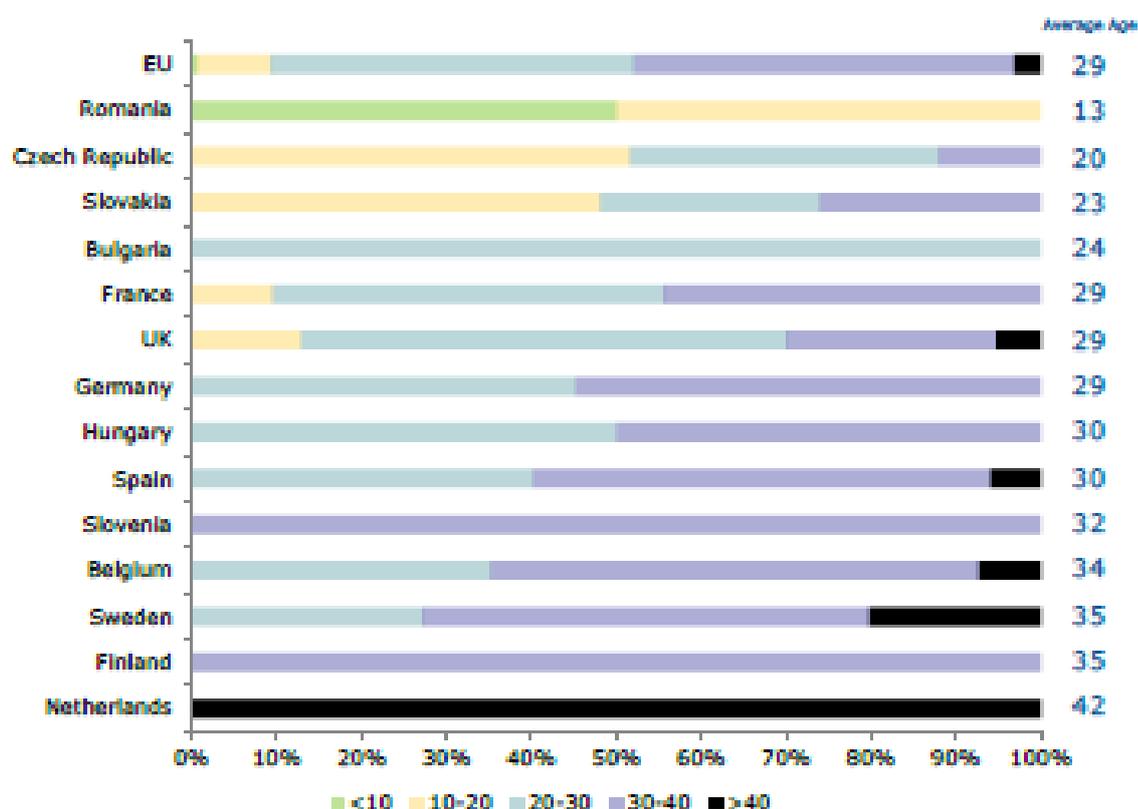


Figure 27 Estimated costs of decommissioning NPPs<sup>122</sup>

MS	Estimated Decommissioning costs (EUR billion, note 1)	Units	Total NPPs Capacity (MWe)	Average capacity	Estimated cost of decommissioning (EUR billion per unit)	Estimated cost of decommissioning (EUR billion per GWe)
BE <sup>123</sup>	3,7	8	5 931	741	0,5	0,6
BG <sup>124</sup>	3,0	6	3 558	593	0,5	0,8
CZ	1,5	6	3 904	651	0,3	0,4
DE	38,0 (note 2)	36	26 375	733	1,1	1,4
ES	4,5	10	8 188	819	0,5	0,6
FI <sup>125</sup>	1,0	4	2 752	688	0,3	0,4
FR	22,6	70	66 919	956	0,3	0,3
HR	0,2	0,5 (note 3)	344	344	0,4	0,6
HU	1,2	4	1 889	472	0,3	0,7
IT	Not available	4	1 423	356	NA	NA
LT	2,6	2	2 370	1 185	1,3	1,1
NL	Not available	2	537	269	NA	NA
RO <sup>126</sup>	1,4	2	1 300	650	0,7	1,1
SE	3,4	13	10 861	835	0,3	0,3
SI <sup>127</sup>	0,2	0,5 (note 3)	344	344	0,4	0,6
SK <sup>128</sup>	3,1	9	3 665	407	0,3	0,9
UK <sup>129</sup>	36,9	45	13 598	302	0,8	2,7
Totals Note 4	123,3	222	151 998	704	0,6	0,8

Figure 1 Share of nuclear in national (gross) electricity mix, 2013<sup>8</sup>

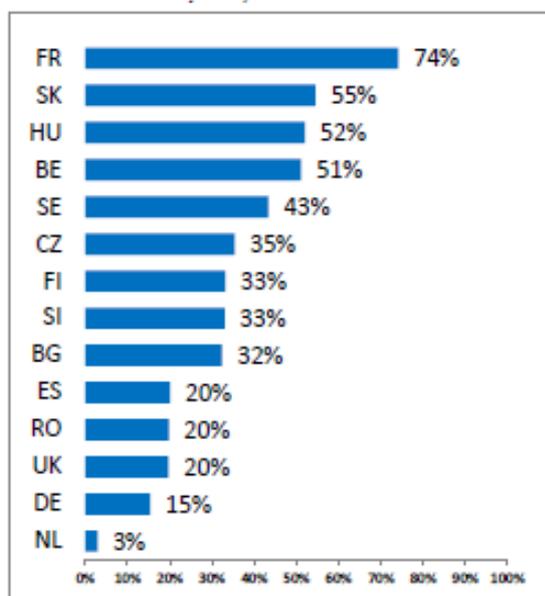


Figure 2 Share of nuclear in national energy mix, 2013<sup>9</sup>

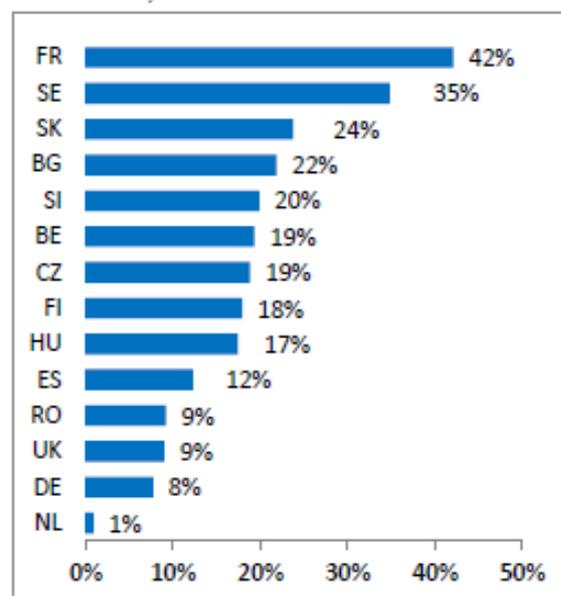


Figure 3 Purchases of natural uranium by EU utilities by origin, 2006–14 (tU) (%)<sup>14</sup>

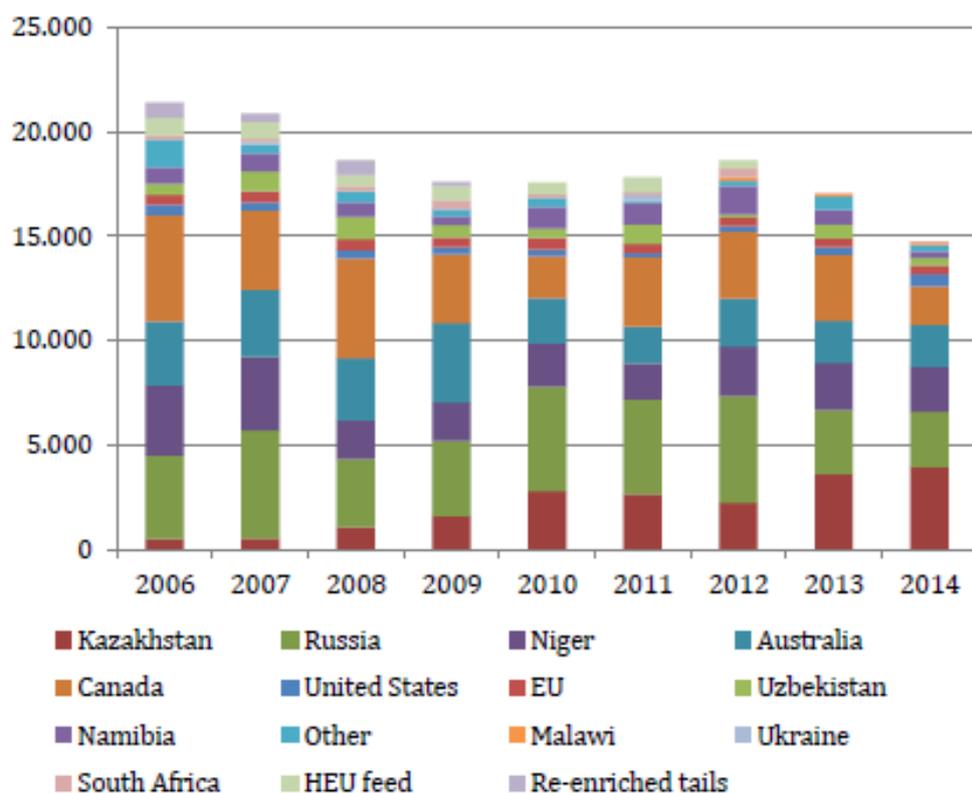


Figure 11 Projection of nuclear installed capacity EU28 2015-2050

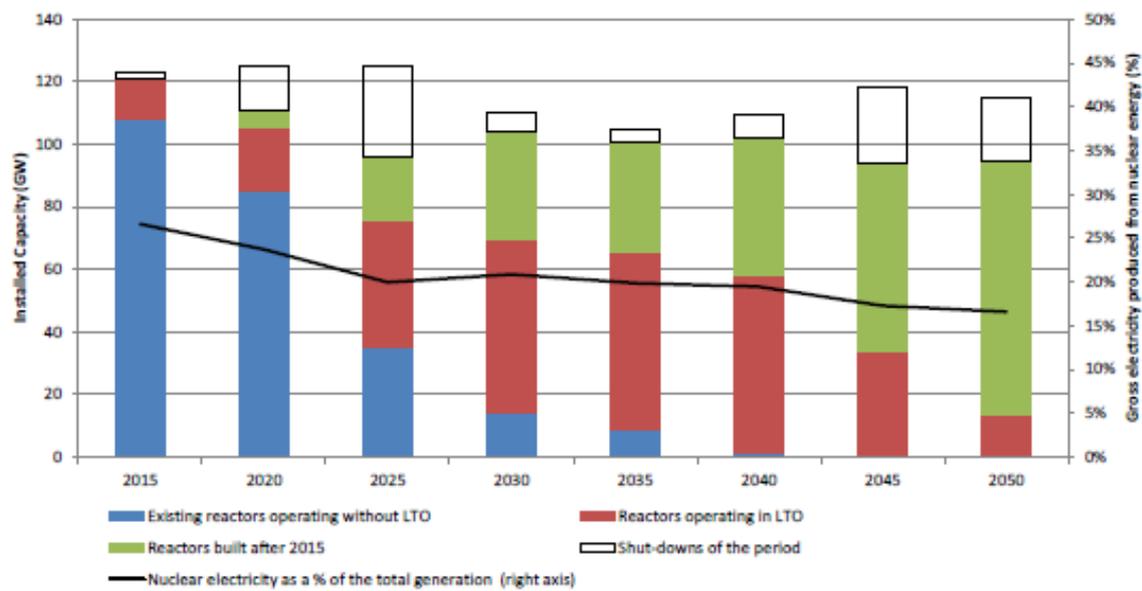


Figure 17 Projected evolution of the existing fleet (GW)

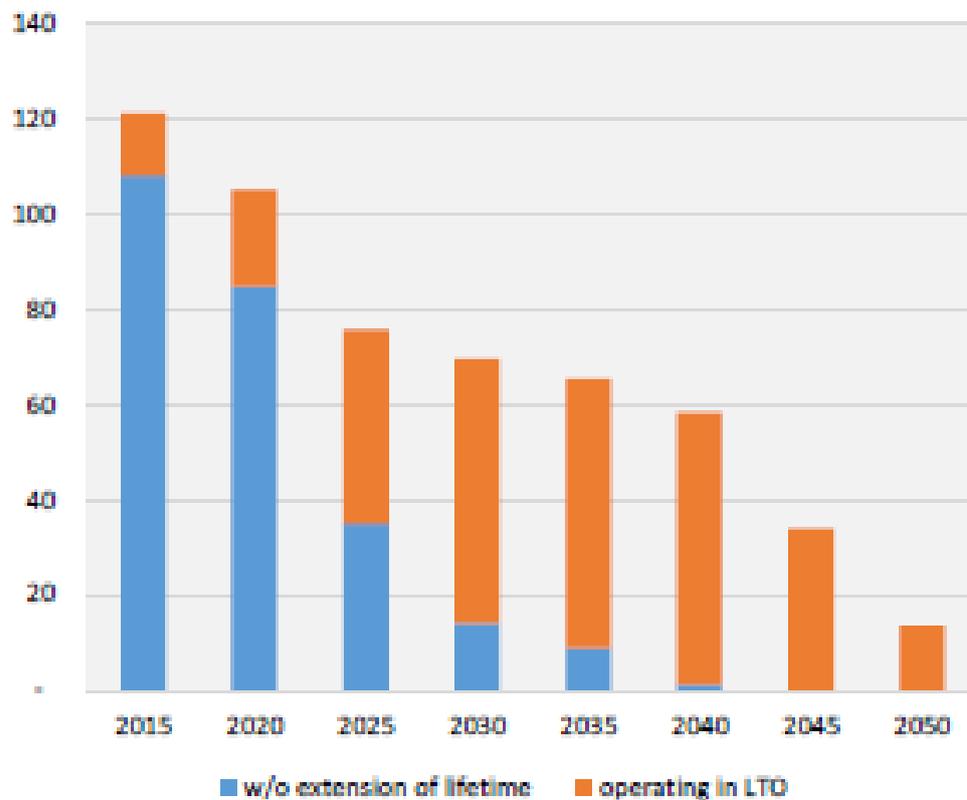


Figure 22 Commercial reprocessing facilities in Europe<sup>97</sup>

Country	Facility Name	Status	Scale	Start of Operation	End of Operation
BE	Eurochemic	Decommissioning	60 t HM/year	1966	1975
FR	Areva NC La Hague - UP2-400	Decommissioning	400 t HM/year	1966	2004
FR	Areva NC La Hague - UP2-800	In operation	1 000 t HM/year	1996	
FR	Areva NC La Hague - UP3	In operation	1 000 t HM/year	1990	
FR	Marcoule - UP1	Decommissioning	600 t HM/year	1958	1997
DE	Karlsruhe Reprocessing Plant	Decommissioned	35 t HM/year	1971	1991
IT	Eurex SFRE (Oxide – pilot plant)	Decommissioning	10 t HM/year	1980	1990
UK	NDA Magnox Reprocessing	In operation	1 500 t HM/year	1964	2018
UK	NDA Thorp	In operation	900 t HM/year	1994	2018

Figure 23 Status of the projects to build geological repositories to dispose HLW<sup>109</sup>

Member State	Status	Planned start of operations	Estimated cost <sup>110</sup> (EUR billion)
BE <sup>111</sup>	Site selection	2047	3,2
BG	Preliminary studies	Not disclosed	
CZ	Preliminary studies	2065	4,5
DE	Preliminary studies	2050	7,7
ES <sup>112</sup>	Preliminary studies	2062	Not disclosed
FI	Construction license granted	2020	3,6
FR <sup>113</sup>	Stakeholders consultation	2025	25,9
HR	Preliminary studies	Not disclosed	0,4
HU	Site selection	2064	2,4
IT		Not disclosed (Note 1)	
LT	Preliminary studies	2066	2,6
NL	Preliminary studies	2130	Not disclosed
PL	Preliminary studies	Not disclosed	
RO	Preliminary studies	2050	2,2
SE	Construction license requested	2028	3,2
SI <sup>114</sup>	Preliminary studies	2065	0,4
SK	Preliminary studies	2065	3,7
UK	Preliminary studies	2075	13,1
<b>TOTAL</b>			<b>72,9</b>

Note 1: At the date of drafting this report the National Program had not been received.