

# NUCLEAR POWER STATUS 2021

## IN OPERATION

**389.5** GW(e)  
total net capacity

**437** reactors

## UNDER CONSTRUCTION

**58.1** GW(e)  
total net capacity

**56** reactors

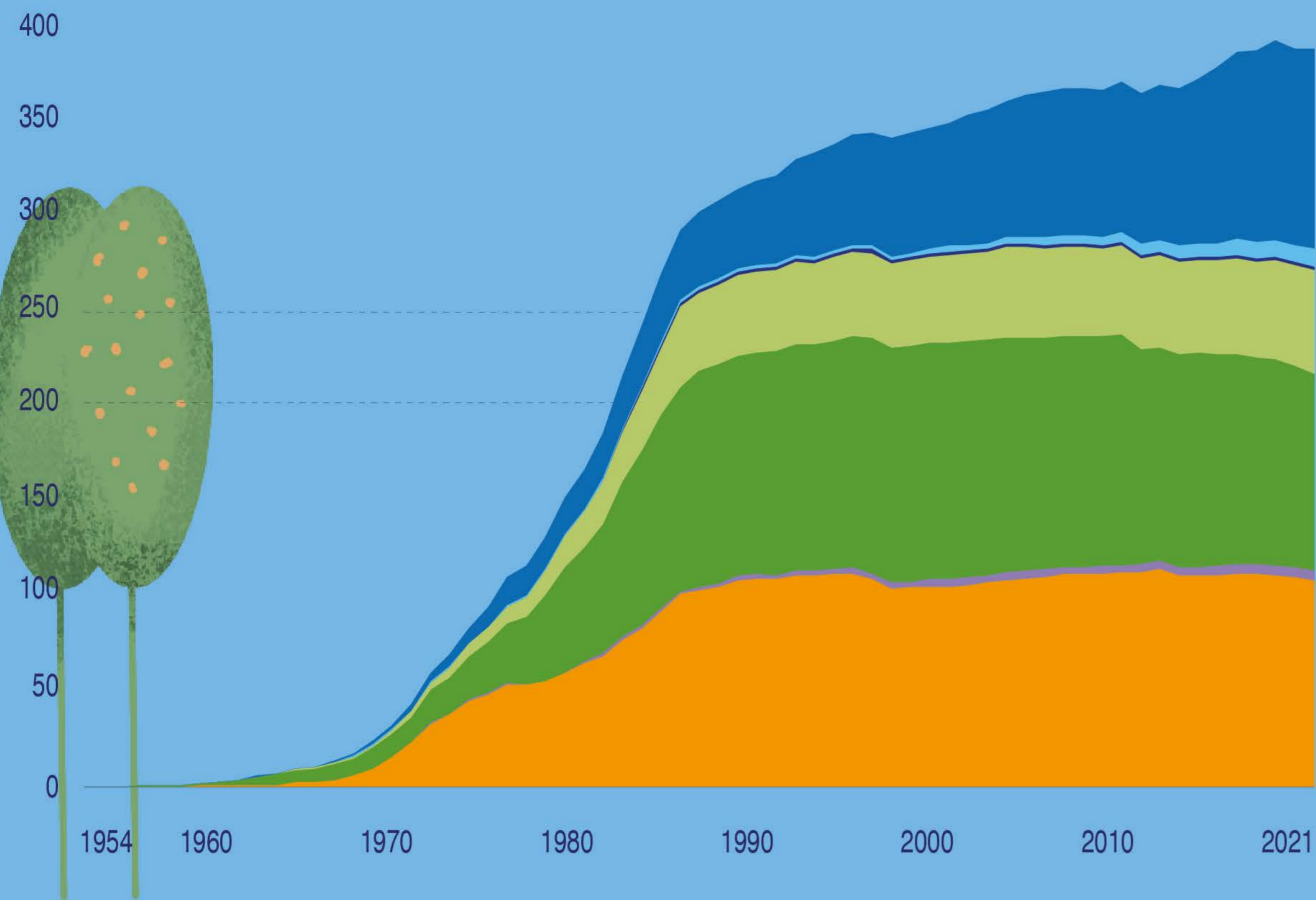
**2653.3** TWh  
Electricity produced

CO<sub>2</sub> avoided  
**1.26** Gt

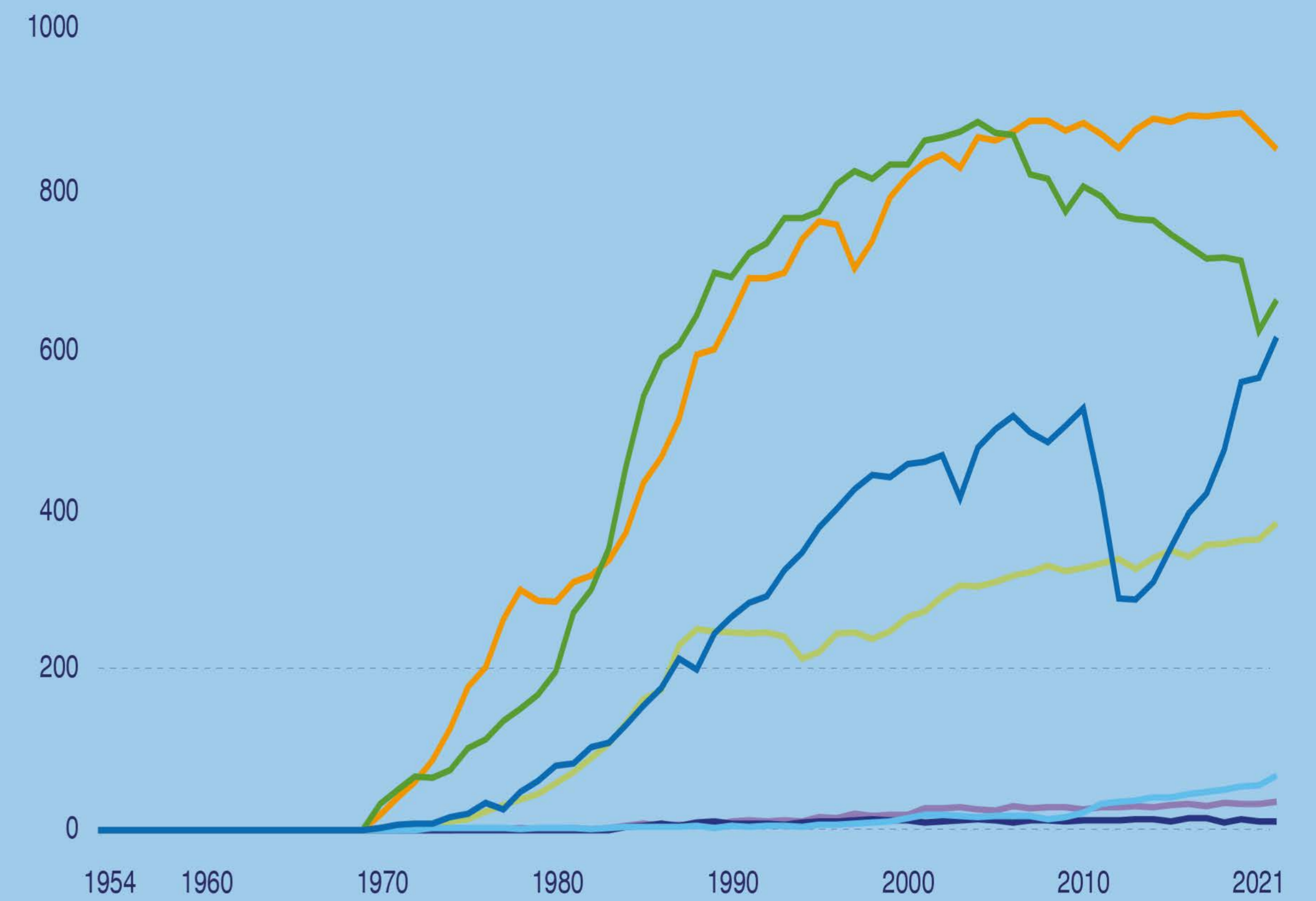
OPERATING EXPERIENCE

**19 170**  
reactor - years of operation  
(cumulative)

## REGIONAL NUCLEAR POWER CAPACITY OVER TIME - GW(e)

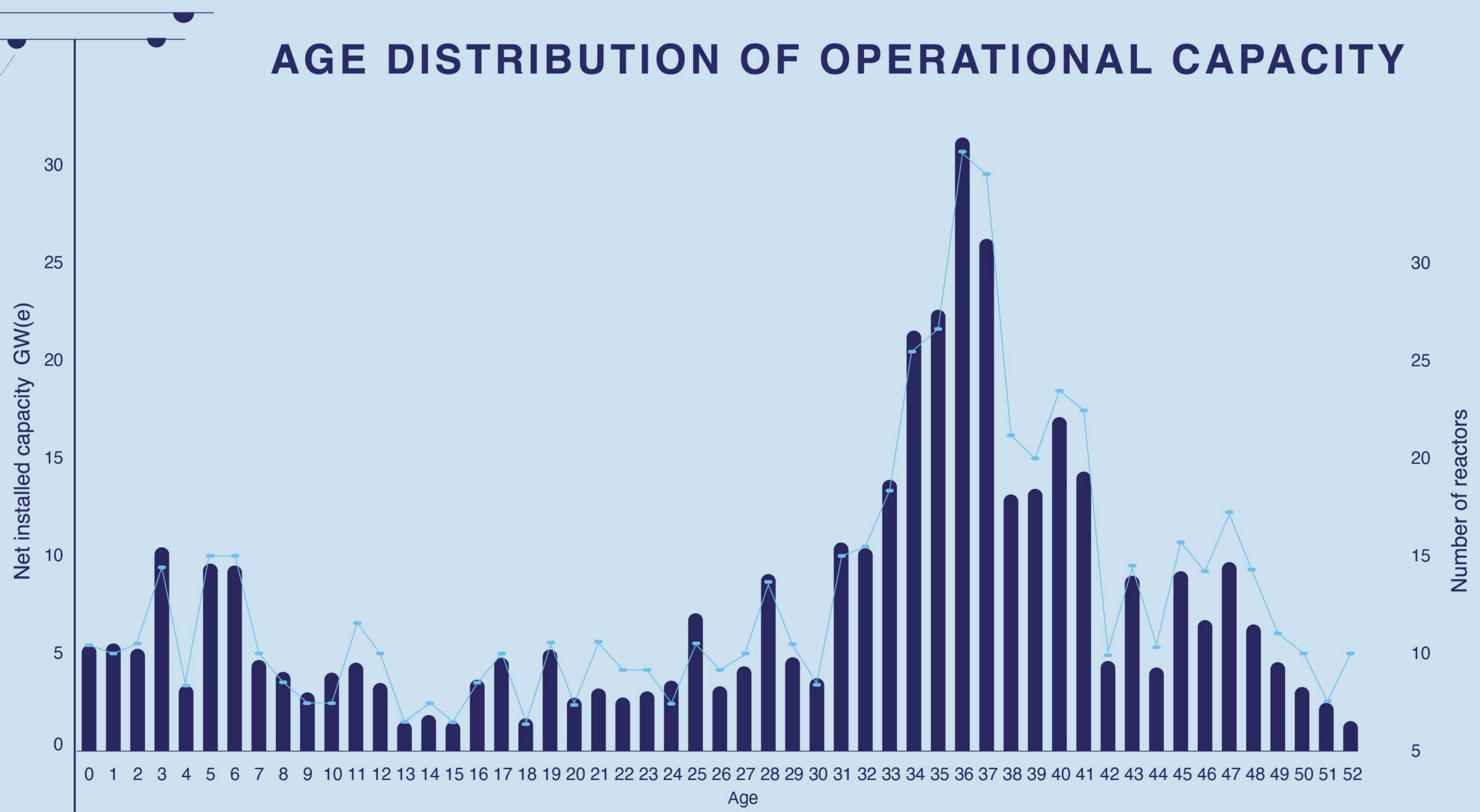


## REGIONAL ELECTRICITY PRODUCTION OVER TIME - TWh



● Africa 
 ● America - Latin 
 ● America - Northern 
 ● Asia - Far East 
 ● Asia - Middle East & South 
 ● Europe - Central & Eastern 
 ● Europe - Western

## AGE DISTRIBUTION OF OPERATIONAL CAPACITY

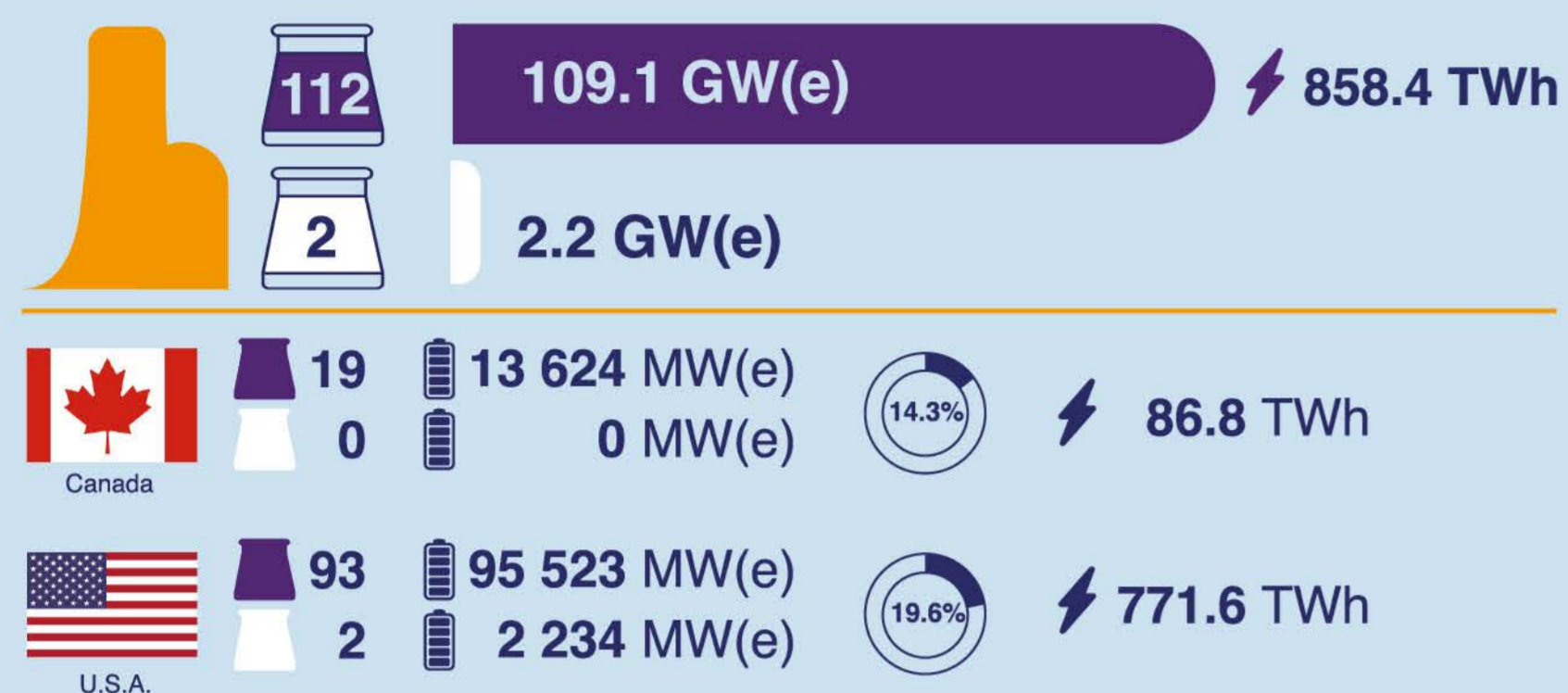


■ Net installed capacity 
 —●— Number of reactors

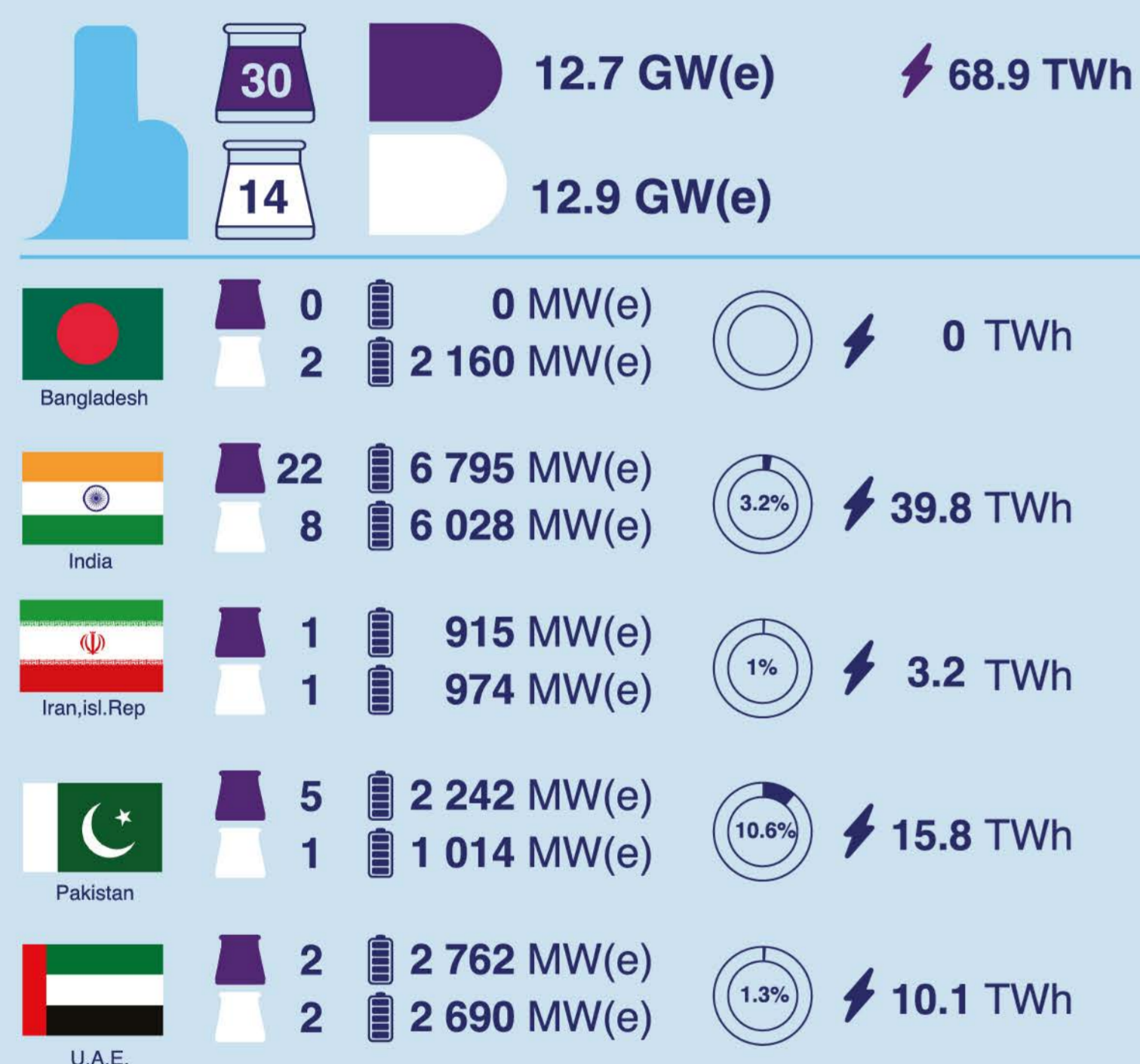
## Africa



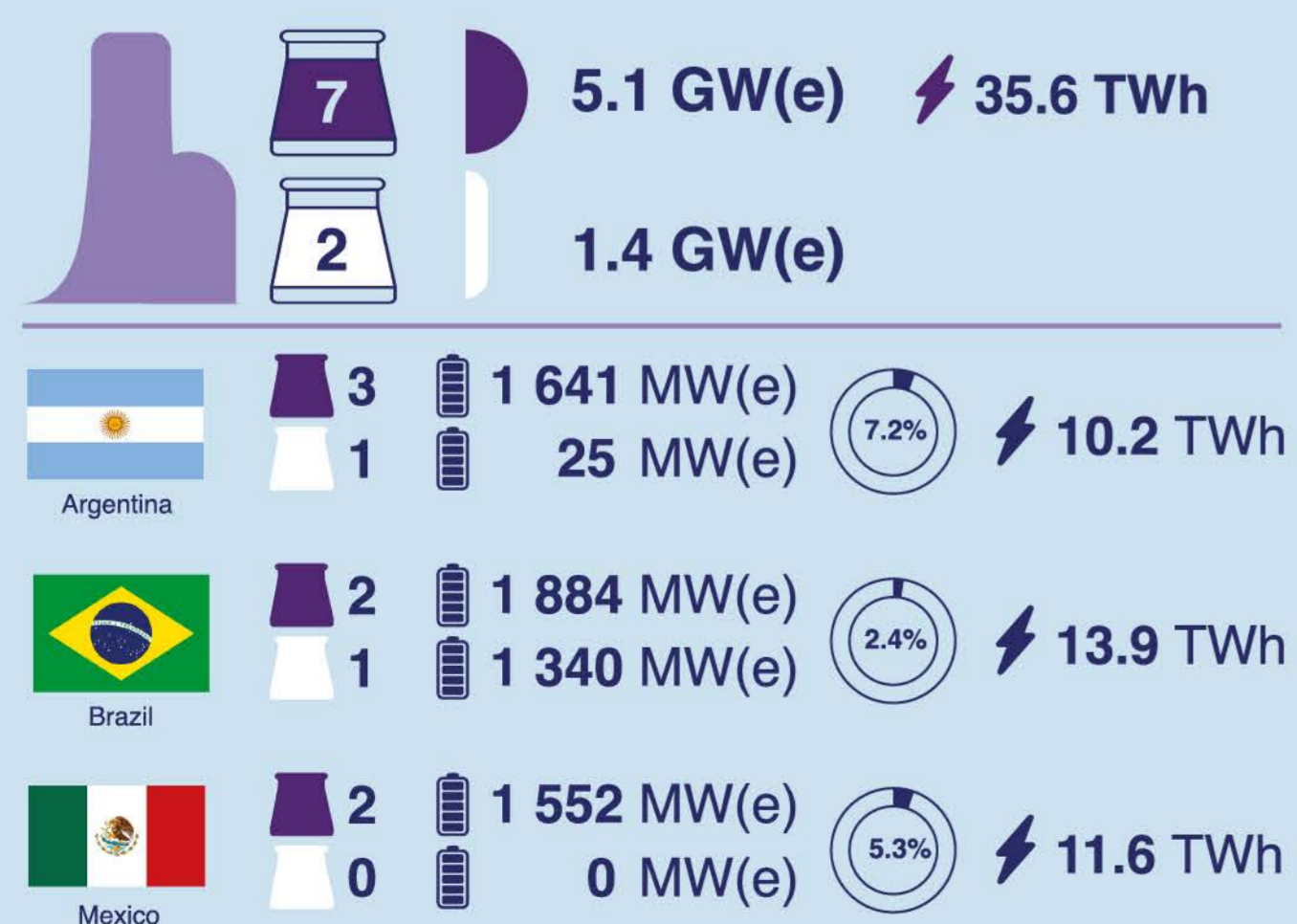
## America - Northern



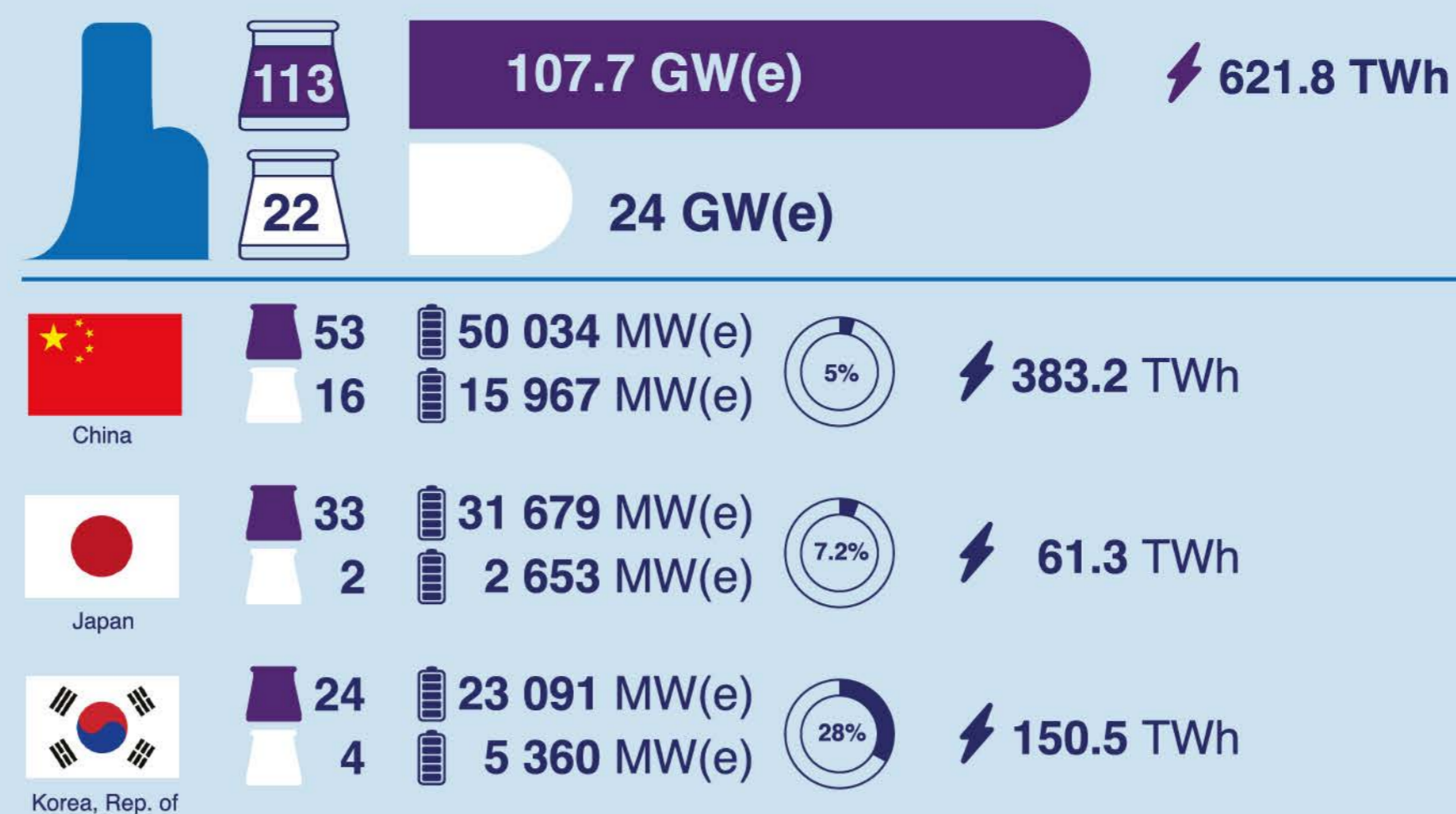
## Asia - Middle East & South



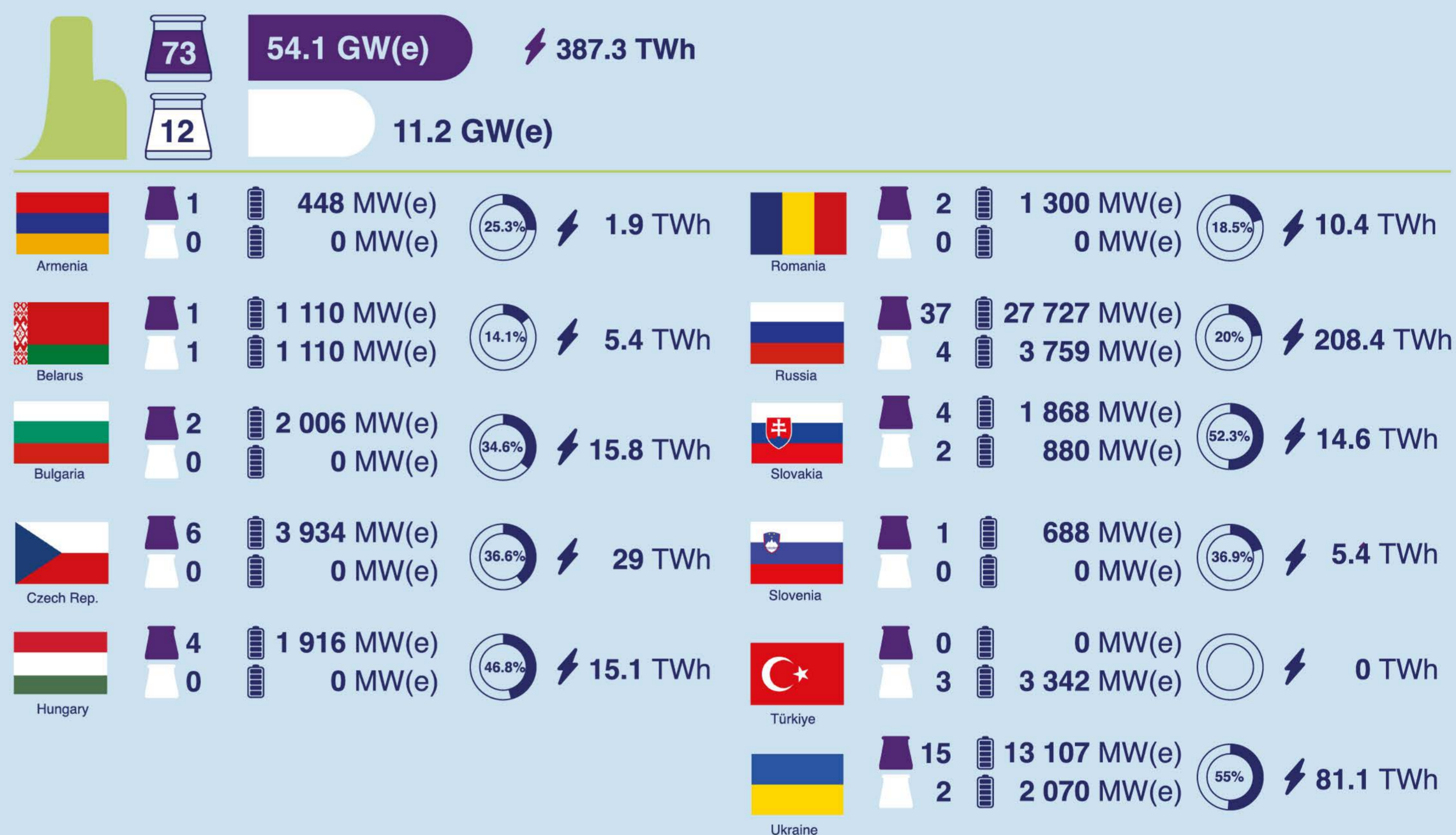
## America - Latin



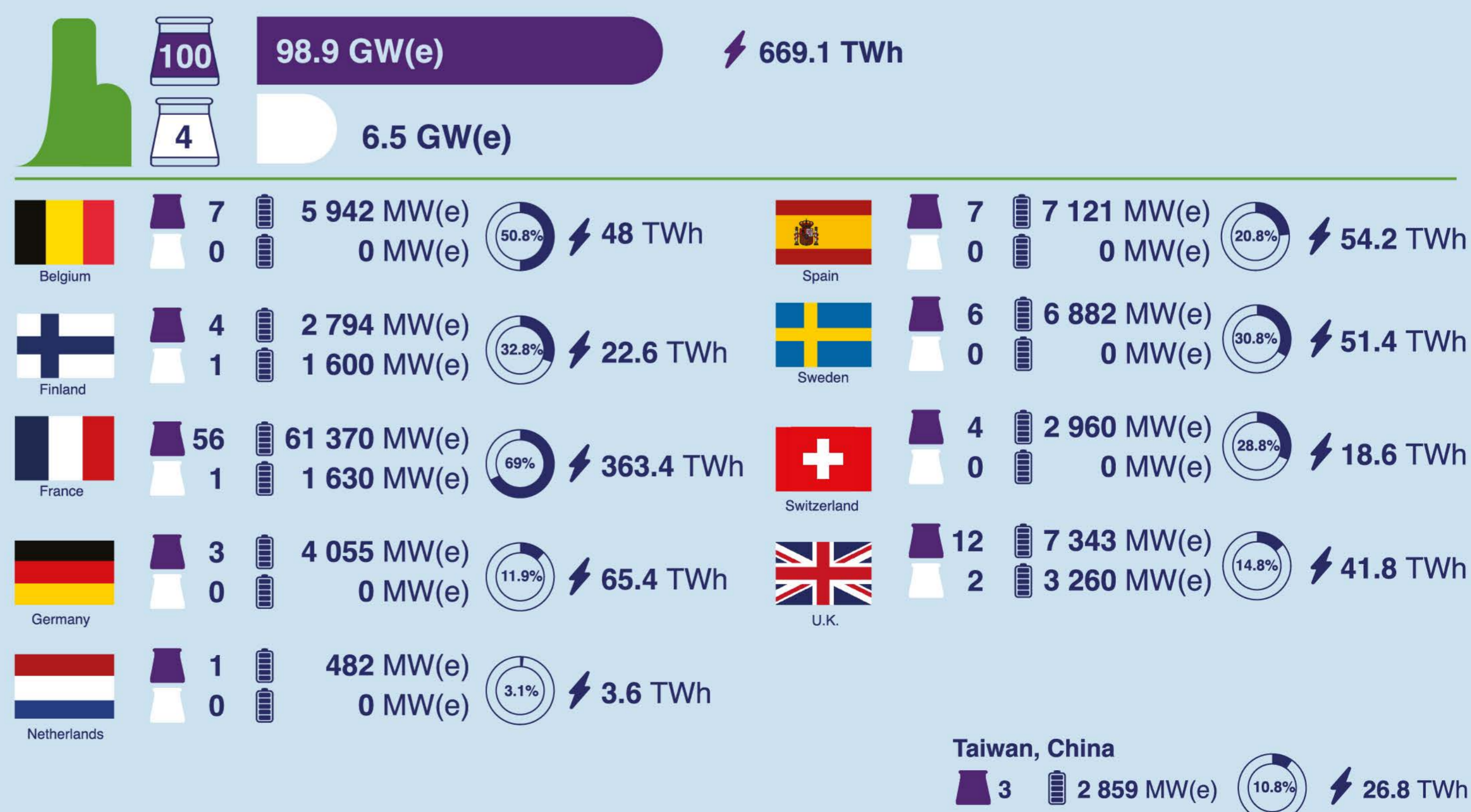
## Asia - Far East



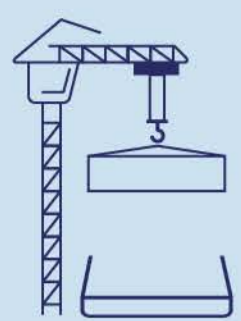
## Europe - Central & Eastern



## Europe - Western



# STATUS CHANGES



8.8 GW(e)

construction starts

● <b>Xudabu-3</b> PWR 1 200 MW(e)	● <b>Kudankulam-5</b> PWR 917 MW(e)	● <b>Akkuyu-3</b> PWR 1 114 MW(e)
● <b>Tianwan-7</b> PWR 1 171 MW(e)	● <b>Kudankulam-6</b> PWR 917 MW(e)	● <b>Brest-od-300</b> FBR 300 MW(e)
● <b>Sanaocun-2</b> PWR 1 117 MW(e)	India	Türkiye
● <b>Changjiang-3</b> PWR 1 000 MW(e)		Russia
● <b>Changjiang-4</b> PWR 1 000 MW(e)		
● <b>Linglong-1</b> PWR 100 MW(e)		
China		



5.2 GW(e)

new connections to the grid

● <b>Hongyanhe-5</b> PWR 1 061 MW(e)	● <b>Barakah-2</b> PWR 1 310 MW(e)
● <b>Tianwan-6</b> PWR 1 000 MW(e)	U.A.E.
● <b>Shidaobay-1</b> PWR 200 MW(e)	● <b>Kanupp-2</b> PWR 1 017 MW(e)
China	Pakistan
	● <b>Kakrapar-3</b> PHWR 630 MW(e)
	India



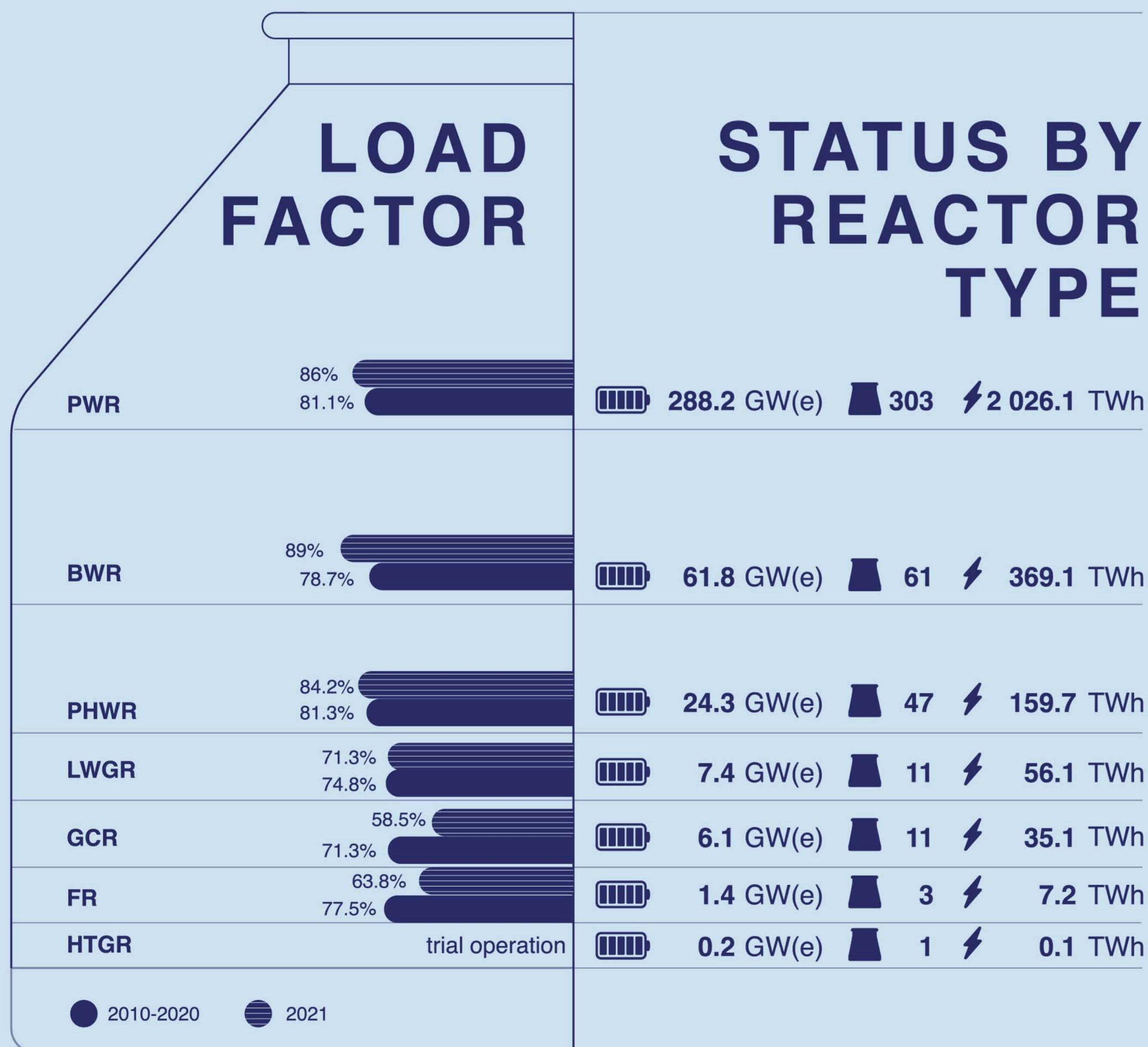
8.7 GW(e)

permanent shutdowns

● <b>Indian Point</b> PWR 1 030 MW(e)	● <b>Kanupp-1</b> PHWR 90 MW(e)	● <b>Brokdorf</b> PWR 1 410 MW(e)
U.S.A.	Pakistan	Grohnde PWR 1 360 MW(e)
● <b>Kuosheng-1</b> BWR 985 MW(e)	● <b>Kursk-1</b> LWGR 925 MW(e)	● <b>Gundremmingen-C</b> BWR 1 288 MW(e)
Taiwan, China	Russia	Germany
		● <b>Dungeness B-1</b> GCR 545 MW(e)
		● <b>Dungeness B-2</b> GCR 545 MW(e)
		● <b>Hunterston B-1</b> GCR 490 MW(e)
		U.K.

## LOAD FACTOR

## STATUS BY REACTOR TYPE



IAEA Power Reactor Information System PRIS

- Africa
- America - Latin
- America - Northern
- Asia - Far East
- Asia - Middle East & South
- Europe - Central & Eastern
- Europe - Western