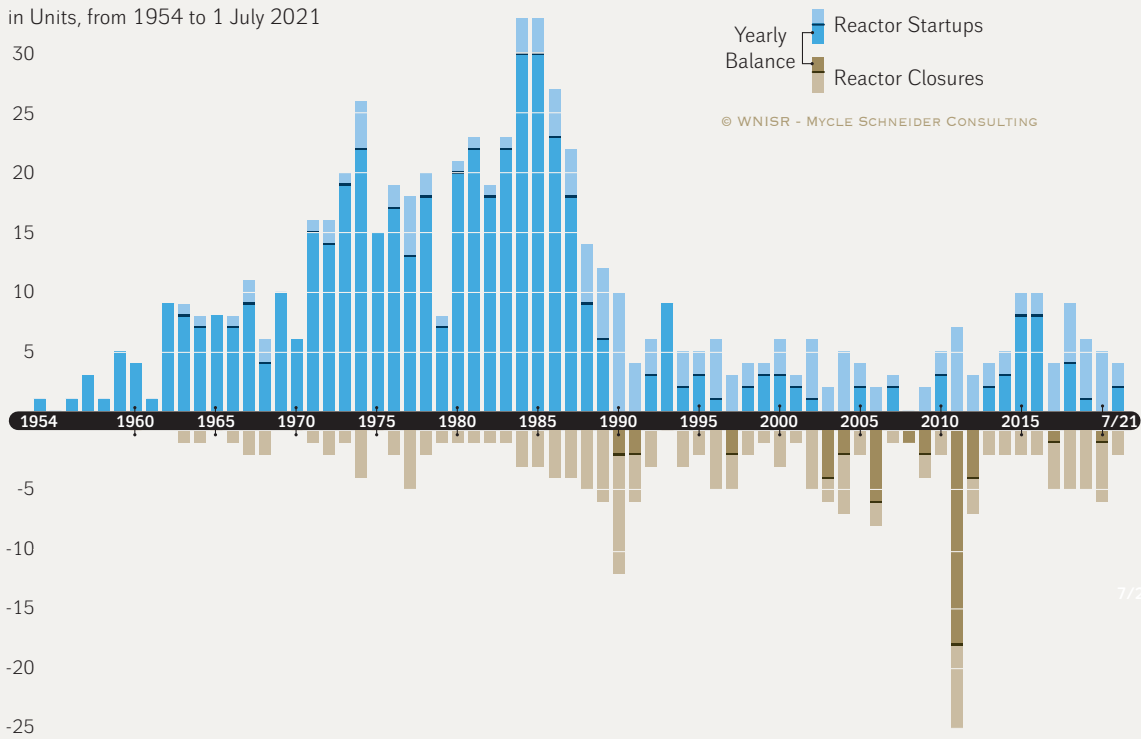


Figure 4 - Nuclear Power Reactor Grid Connections and Closures in the World

Reactor Startups and Closures in the World

in Units, from 1954 to 1 July 2021



Yearly Balance
 Reactor Startups
 Reactor Closures

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Sources: WNISR, with IAEA-PRIS, 2021

Notes:
 As of 2019, WNISR is using the term “Closed” instead of “Permanent Shutdown” for reactors that have ceased power production, as WNISR considers the reactors closed as of the date of their last production. Although this definition is not new, it had not been applied to all reactors or fully reflected in the WNISR database; this applies to known/referenced examples like Superphénix in France, which had not produced in the two years before it was officially closed or the Italian reactors that were de facto closed prior to the referendum in 1987, or some other cases. Those changes obviously affect many of the Figures relating to the world nuclear reactor fleet (Startup and Closures, Evolution of world fleet, age of closed reactors, amongst others.)