

Table 18 – Causes for Outages and Generation Reductions at French Nuclear Fleet in 2019

Causes	Production Impacts
Other (mostly refueling and maintenance outages)	117.0 TWh
Modulation (production reduction to save fuel)	28.5 TWh
Breakdown Technical Failures	12.0 TWh
Planned-outage extensions	12.0 TWh
Teil Earthquake*	2.3 TWh
Weather-related Outages	1.4 TWh
Total	173.2 TWh

Sources: RTE, 2021

Notes:

* On 11 November 2019, an earthquake close to the town of Teil triggered the procedure “shutdown for verification” at the Cruas nuclear power plant. The four 900-MW reactors remained offline for several weeks.