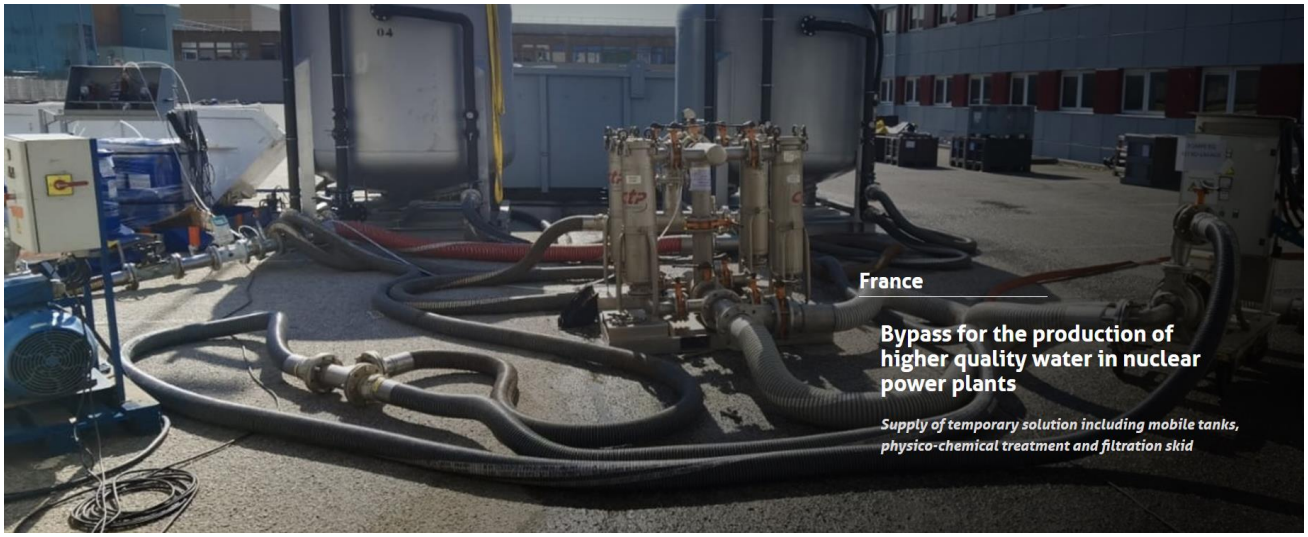
contact@ctp-environnement.com
www.ctp-environment.com
https://www.ctp-environnement.com/en/reference/40/by-pass-de-la-production-d-eau-de-qualite-en-centrale-nucleaire



Bypass for the production of higher quality water in nuclear power plants

CTP environment implemented a complete bypass of the site's high-quality water production. This production used river water and storm water as a feedstock. Once produced, it supplies the potable and demineralised water chain production of the site. Continuity and uninterrupted service is a necessity for the site..

The mobile system set up included:

- Raw water storage
- Physical-chemical treatment of the water flow rate of 100 m^3/h :
  - On-line pH control,
  - On-line coagulation,
  - On-line media filtration,
  - On-line disinfection,
  - On-line polishing filtration.
- Buffer storage of produced water, vital in the prevention of variations in site quality water requirement and unforeseen events
  - 2x8 shift operation to ensure continuity of production

This temporary treatment plant recorded the following performances:

- pH control between 7,5 and 8,5
- TSS removal : turbidity < 5 NTU
- Control of algae/bactria proliferation : free chlorine maintained between 1 & 2 mg/l at all time

This turnkey solution allowed the maintenance of the site's water storage tanks and valves within the planned duration (2 weeks) without any disruption of the site water supply.