

PFAS destruction

Identify the most technically and economically viable pathway to concentrate and destroy PFAS in industrial process water.

01 WHAT IS IT

A two-step approach: concentrate, then destroy

The working group concentrates PFAS using available technology such as ion exchange resins and reverse osmosis, then tests the most promising emerging destruction technologies, from lab trials to pilots at member sites.

Regulation is tightening

Stringent legislation, including PFAS discharge limits and potential bans

Limited solutions today

Incineration is poorly suited to aqueous streams; emerging technologies lack testing at industry scale

02 WHO'S IN

Chemical producers

GIC members managing PFAS in industrial process water

Technology providers

Five providers selected across five destruction technologies

Downstream sectors

Semiconductors, consumer goods, pharma, energy and O&G

03 WHAT MEMBERS GET

Access to testing data

Sample testing information and trial results

Shared testing costs

Co-invest in bench trials too costly or complex to run alone

Pilots at member sites

Confirm viability under real water conditions and PFAS levels

Action roadmap

Joint procurement of solutions or a new business build

Technologies tested: high and ambient temperature processes, sonolysis, thermal plasma, and photochemical / catalytic treatment.

04 TIMELINE: JUN 2026 - JAN 2028

Jun '25 – Mar '26

360° PFAS study

Regulatory assessment and technology shortlist

Mar '26 – Dec '26

Lab-based trials

Test water samples with different PFAS concentrations

Dec '26 – Sep '27

Pilots

Confirm production-plant viability at member sites

Jan '28

Acceleration roadmap

Knowledge repository, business builds, joint procurement

05 HOW TO JOIN

- 1 Book a 1:1 call to share your use cases and process water specifications
- 2 Join as a working group member and co-invest in bench trials
- 3 Take part in future pilots alongside member companies

CONTACT

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