







Water scarcity & climate change are not future topics

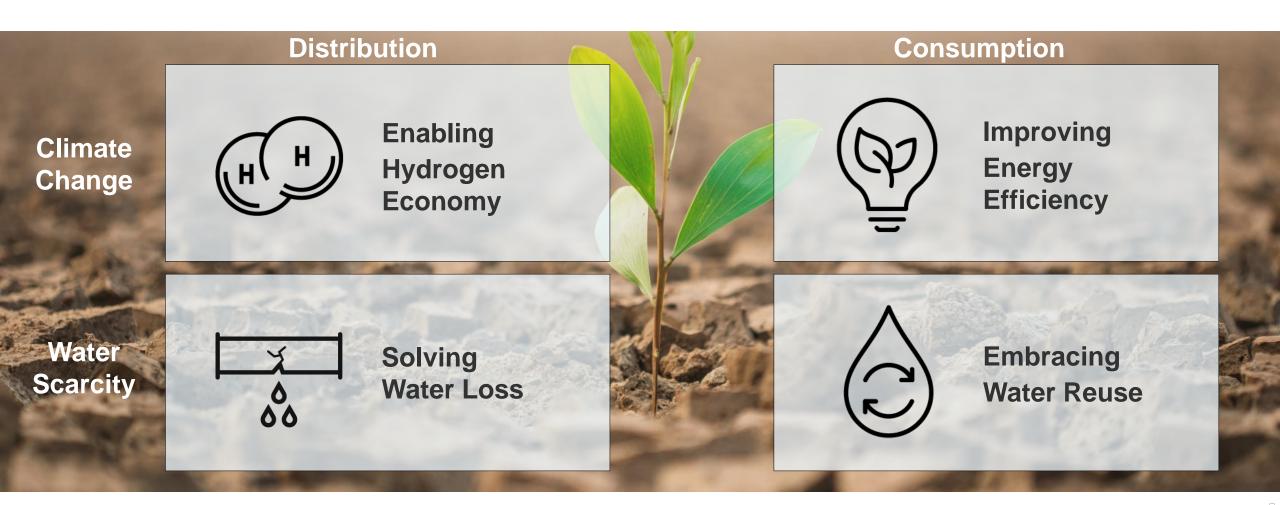




1 in 3 have no access to safe drinking water - WHO/ UNICEF report on drinking water, sanitation & hygiene 1 million species at risk of extinction - UN global assessment report on biodiversity and ecosystem services



We can create positive impact in core markets



We are investing to fuel sustainable growth



+

Clean Hydrogen is central to reach net zero emissions as it can abate 80 gigatons of CO₂ by 2050 ...



80 gigatons CO2 reduction source: Hydrogen Council & McKinsey report

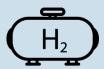


USD 500 billion spending on Hydrogen projects till 2030 already announced ...



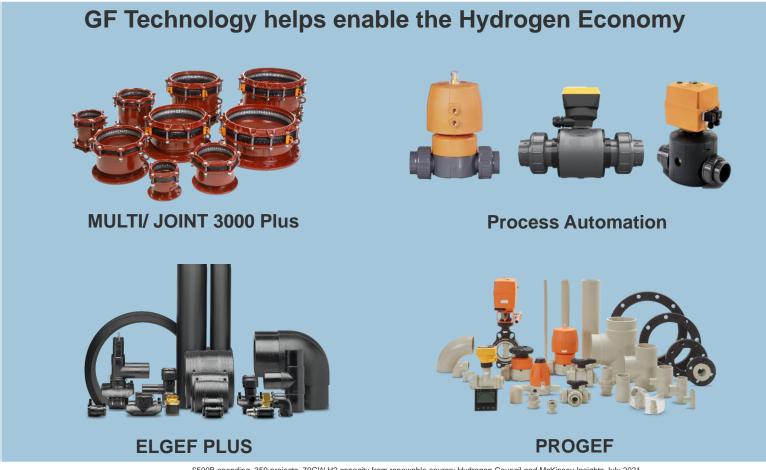
359

large scale projects in production, distribution, storage & utilization



70GW

H₂ electrolyser production capacity from renewable sources



£500B spending, 359 projects, 70GW H2 capacity from renewable source: Hydrogen Council and McKinsey Insights July 2021



... as we co-create solutions with our customers to enable the H2 economy







- Inland water cargo vessel to run 100% on H2
- The 825 kW Nedstack PEM fuel cell supplies propulsion and auxiliary power
- Reduces greenhouse gases by 2000 tones of CO2 every year





126 billion liters of water is lost in utilities every year, enough to fill lake Zurich 32 times over ...









... as USD 39 billion is lost in utility revenues globally



Thames Water

London, 15.8 m people

22%

NRW rate



Houston Public Works

Houston, 27 m people

28%

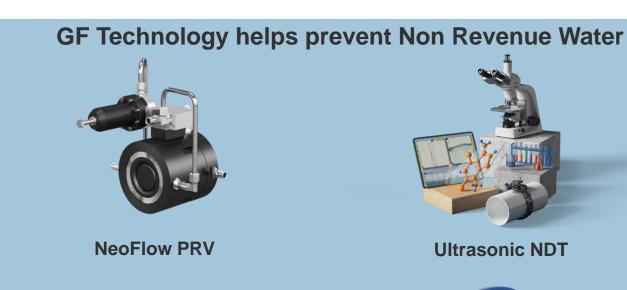
NRW rate



Shanghai Municipal

Shanghai, 23.2 m people

19% NRW rate





MULTI/ JOINT 3000 Plus



Ultrasonic NDT



ElectroFusion

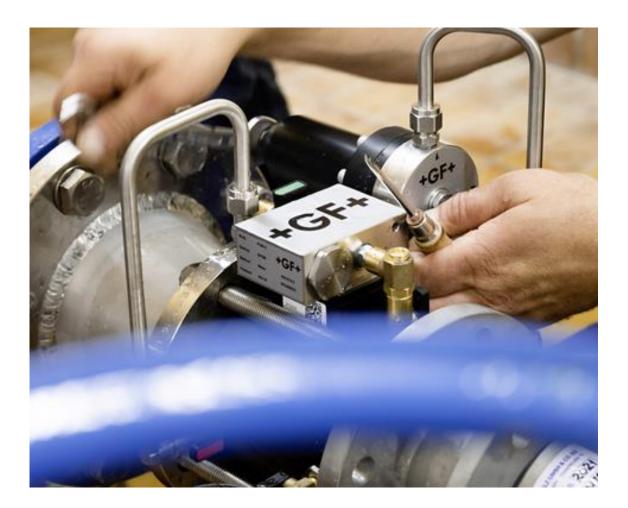
USD 39B NRW loss source: Liemberger, R Wyatt, quantifying global non revenue water problems. NRW Rates source: GWI Water Data



... as we help utilities fight water loss from pipe leaks



- Big Italian Utility: 300 municipalities, 2.8 m people served and 23'000 km of pipe network
- 37% non revenue water rate in Italy
- 63% less pipe bursts achieved in 1 year with pressure management from GF NeoFlow PRV





Buildings use 60% of global electricity and account for 1/3 of global emissions ...





60% electricity, 1/3 emissions source: UNEP energy efficiency for buildings reports



USD 204 bn spending on energy efficient buildings by 2030 ...



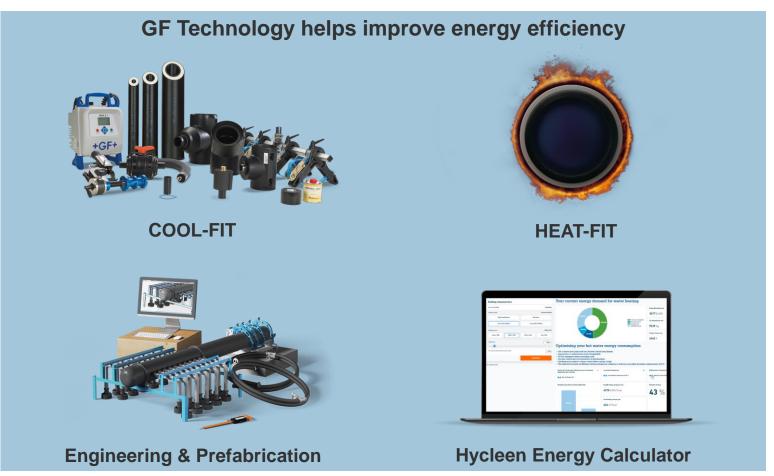
30%

of energy used in buildings is wasted, energy efficiency is key



40%

energy use in buildings is HVAC making it an investment focus



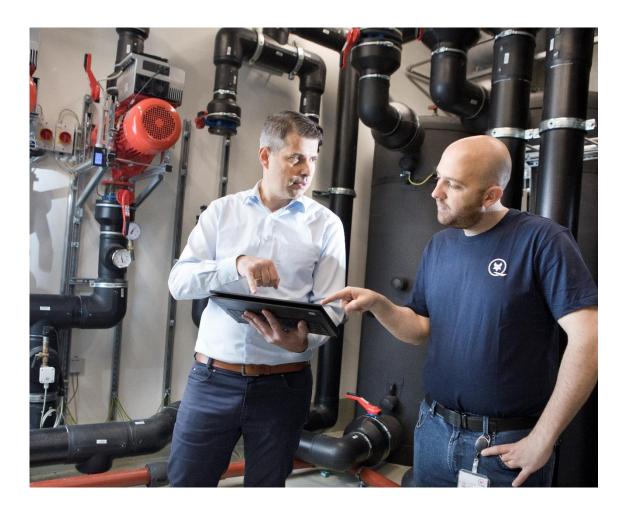
USD 204B spending source: UNEP 2019 actuals extrapolated to 2030 with conservative 3% CAGR, 30% energy in buildings is wasted: US Environment Protection Agency, 40% energy in HVAC source: US Department of Energy/ Government of Australia



... as we help our customers achieve green buildings



- German Data Center serving customers looking for regional & sustainable solutions
- Data Centers consume a lot of electricity and Baden Cloud aims for greener operations
- 30% higher energy efficiency achieved with COOL-FIT compared to traditional systems



By 2030, water demand will exceed supply by 40%, making water reuse a key focus ...



Water demand exceed supply by 40% source: UNEP International Resource Panel report



USD 49 billion to be spent on water reuse by 2030 ...



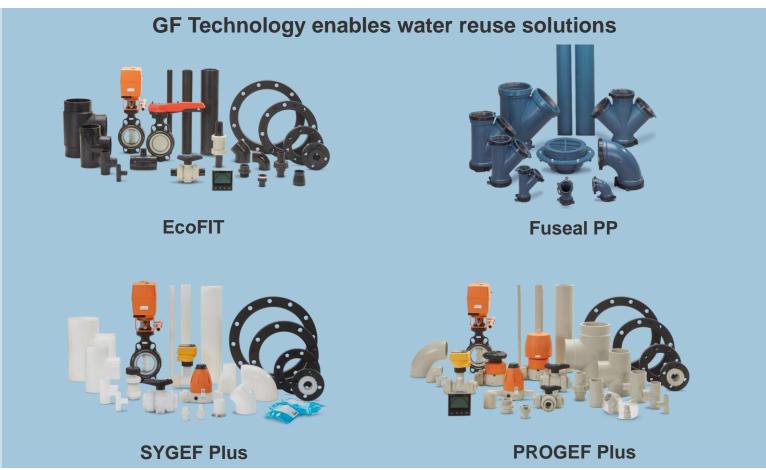
3x

increase in wastewater reuse by 2030, meeting 9.8% of world needs



2.7x

cheaper to build decentralized water treatment facilities



USD 49B spent on water reuse by 2030 source: consensus estimate and internal GF analysis based on reports from Zion, BCC Research, Research & Markets 3X water reuse increase source: Global Water Funding report David Lloyd Owen. 2.7X cheaper to build: GF internal estimate based on multiple water treatment case studies



... as we help our customers to reuse water

CHASE CENTER

- San Francisco water tariffs are 2x national average and is the first US city to mandate water reuse for newly constructed buildings
- Stormwater, rainwater, greywater reuse system installed
- 34% reduction in water use saving 14.4 million liters per year





Enabling Ekopak's recycling water solutions





Pieter Loose CEO Ekopak



Sandra Schiller **Head Process Automation**