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Development of fuel cycle systems for D-T fusion power plants

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Decades of worldwide, government-sponsored research in fusion science have established the tokamak-based configuration as the leading approach to confining fusion-grade plasmas with strong magnetic fields. Yet, in the past, even state-of-the art superconducting magnet technology required tokamaks to be enormous to produce net fusion energy. Recently, a new high temperature superconductor has reached industrial maturity. CFS is using these high temperature superconductors to build smaller and lower-cost tokamak fusion systems. CFS will build first-of-its-kind high temperature superconducting magnets, followed by the world's first net energy-producing fusion machine, called SPARC. SPARC will pave the way for the first commercially viable fusion power plant, called ARC. CFS has assembled a world-class team working to design and build fusion machines that will provide limitless, clean, fusion energy to combat climate change.

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