

The Role of Public/Private Partnership on the Path to Fusion

Andrew Holland, Executive Director

Presentation to ARPA-E Conference

August 13-14, Burlingame, CA

FUSION
INDUSTRY
ASSOCIATION



FUSION

INDUSTRY

ASSOCIATION

The Voice
of a new
Industry

The Fusion Industry Association is an international coalition of companies working to electrify the world with fusion - the unparalleled power of the stars. Energy from fusion will provide clean power for everyone that's safe, affordable, and limitless.

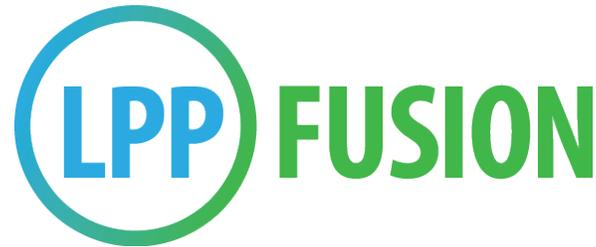
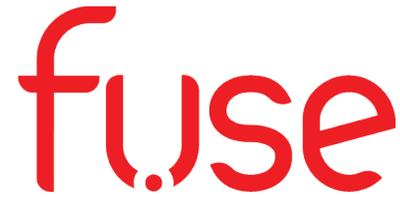
What is the Fusion Industry Association?

Mission Statement

The Fusion Industry Association supports efforts to accelerate commercially viable fusion research and development. The Association promotes the interests of the fusion industry around the world by advocating for ways to commercialize fusion power on a time-scale that matters.

FUSION
INDUSTRY
ASSOCIATION

Membership



Affiliate Members



Air Liquide



STRONG ATOMICS



PEGASUS
FUSION STRATEGIES



STELLAR
ENERGY FOUNDATION



FUSION
INDUSTRY
ASSOCIATION

Two Decades of a Fusion Industry

- About \$1.5 billion invested in FIA members
- Investors include high profile billionaires, Sovereign Wealth Funds, Silicon Valley Venture Capital, and more.
- But - still a great deal of capital on the sidelines.
- More investment than the U.S. has given to ITER in that time

Accelerating Growth

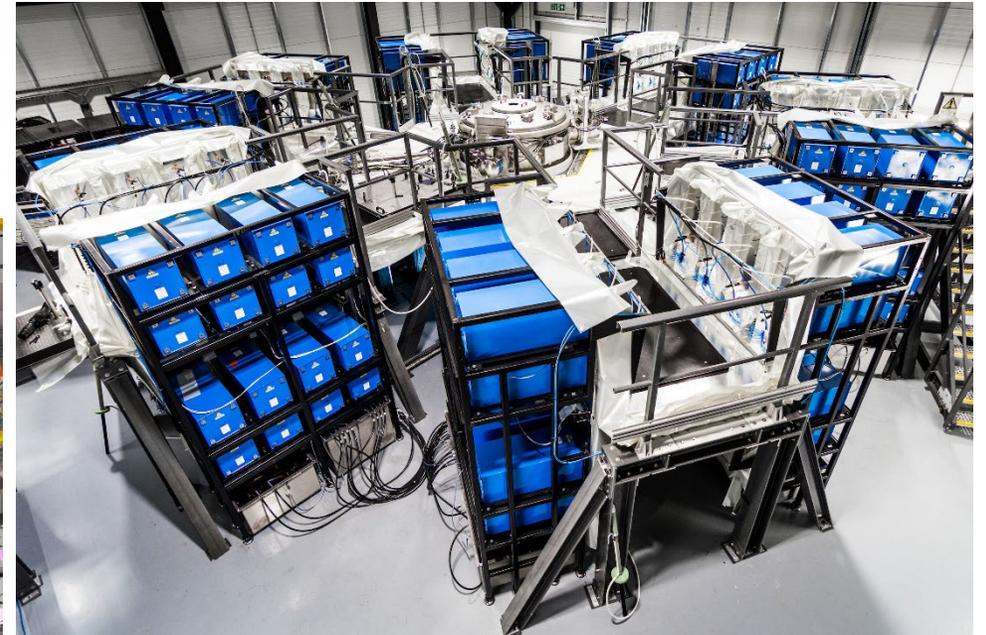
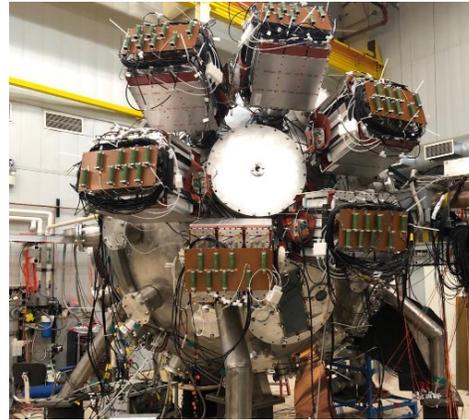
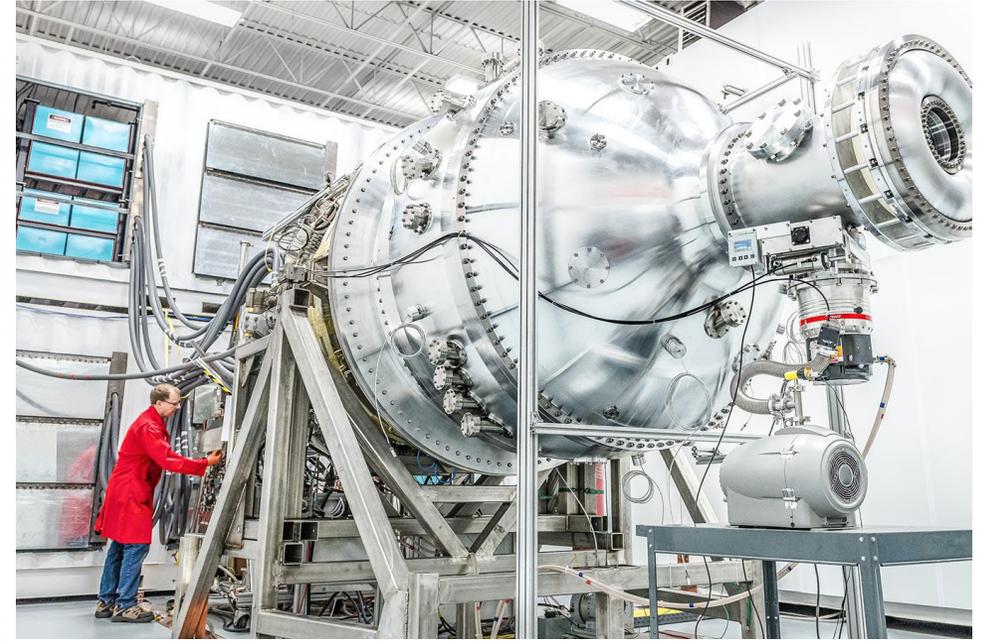
- In the last 5 years: about \$1 billion in investment, and about half of the companies started up

The Growing Fusion Industry

FIA Members are building significant experiments and have ambitious plans

Investors are betting they can make a return on their investment inside aggressive timeframes

This is the “Cusp of Commercialization”



FIA's Three-Pronged Global Strategy

The Fusion Industry Association has three strategic priorities for accelerating fusion energy:

- 1. Partner with Governments for Applied Fusion Research**
- 2. Drive Financial Support**
- 3. Ensure Regulatory Certainty**

FIA's Plans for 2019-2020

Government Policy	Working directly with the U.S. Administration and Congress to draft and pass legislation and appropriations that support Public-Private Partnerships.
Convening Influencers	Identifying key “Champions” and supporters of the fusion industry. Building that network with briefings, hearings, panels, and meetings.
Writing Publications	Publishing op-eds, fact-sheets, and “new media” that can educate policymakers and the public in approachable, non-scientific language on the prospects and benefits of a fusion industry.
Driving Private Investment	Hosting events and briefings while participating in conferences around the world with the goal of drawing investors and supporters to member companies and the Association.

Benefits of Membership

- Lobbying and Public Advocacy
 - The FIA can lobby policymakers in favor of private fusion. It can educate the public about the benefits of fusion and provide a resource to journalists writing about fusion.
- Networking
 - By providing a forum for mutual discussing of the future of the industry, members of the FIA are exposed to each other in a way that they otherwise would not be able to
- Intelligence Sharing
 - In a monthly conference call, generally scheduled for the first Friday of the month, the FIA Director discusses all issues pertinent to the fusion industry. Members are given ample opportunity to discuss.

Conclusions – Help the FIA Grow!

- We must be bold! Fusion is needed to meet the clean energy GAP that will develop in the 2030s. If fusion misses that opportunity, infrastructure will be “locked-in.”
- Specific Needs
 1. **Advocacy** focused on: Government funding that would match and incentivize private development.
 2. **Philanthropic support** to help reduce barriers to fusion development and increase public awareness of fusion as a climate solution.
 3. **Participation by Business** in Building the Fusion Energy Economy.

Contact Andrew Holland, Director of the FIA at:
Aholland@FusionIndustryAssociation.org

