Roadmap to the Fusion Energy Economy Workshop

Thursday June 13, 2019

Flatiron Institute

162 Fifth Avenue, New York, NY 10010

(building entrance is on the north side of 21st Street, at the corner of Fifth)

8:00-9:00am

Registration & Networking Breakfast

9:00-9:15am

Welcome

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Simons Foundation welcome – [who?]

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Why Fusion, Why Now: Jesse Treu (Stellar Energy Foundation)

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Role of Industry - Andrew Holland (Fusion Industry Associates)

9:15-10:30am

Technology Enablers

Feasibility of Practical Generation of Electricity

Panelists: CFS, GF, PPPL, U of R, TAE, ARPA-E, Tokomak Energy

There will be multiple solutions for fusion energy. Sooner than expected. It will help

to fill a huge world energy gap in an environmentally friendly way.(PRB)

Fusion energy is closer than many people think. It should be in the

planning agenda for communities and for the electric grid. (Jesse)

there are multiple companies on parallel and competitive paths each with a unique IP,

but all moving along parallel engineering tracks – this is what should attract investment

because this means a market is developing

10:30-11:00am

Break and networking

11:00-11:45am

From Research to Commercial: economics and cost

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Discussion: what we need to model costs

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What does fusion need to cost to be successful? To be funded?

How do you deal with Carbon Benefits and Cost? Incentives? Cost of increasing

destruction in societies from population growth near coastal and flood prone areas?

What are the lessons learned from our other Renewable Energy Experiences?

Panelists from: Utilities(PSE&G); Energy Cos (ENI, BP) Fusion COs (GF- BB) Public Gov't (TBD) Banks

(Greg K) Renewable Energy (Jane)

While this is a WIP, the Fusion Energy Companies understand they must be

market competitive on a megawatt cost basis ; with regulatory help; and carbon neutral benefits. (PRB)

While we may not know for sure what fusion energy will cost, there are

credible paths to reasonable costs, which make fusion energy a good

candidate for a green energy source for the planet.

We know that we will need to assess market needs, construction costs, materials and manufacturing

Efficiencies alongside likely increase price in carbon, multiple market pulls (direct heat, electricity, load

Center value etc.to determine the future cost of fusion generation.

11:45-12:30pm

Funding: Public, Private, & Philanthropic Partnerships

Panelists: Venture Capital, Wall Street, Non-profit, Public Sector

Fusion energy is a necessity for the balance of providing the required

base-load Energy required by a growing and more affluent world economy.

Financiers will have to work closely with Fusion Energy Companies who understand

they must be price competitive and at the same time produce enough energy that is benign

and carbon free to provide sustainable environmentally benign power. We need to do this now, even if it is

5-10 years away. Financiers across the entire spectrum must work this out now. There is no other know source

of power that can meet the world's needs without destroying the world. (PRB)

While many investors, donors and even government funders may

currently think fusion energy is “too far away”, now is the time to start

paying attention to what will likely be exciting breakthroughs in 5-7

years. There are reasonable pathways to excellent returns for investors;

governments and philanthropists should find fusion energy an attractive

and rewarding venue.

Few disruptive markets have had the potential to benefit from as well as create wealth. Fusion

Has the potential to be the fossil replacement strategy with the most direct application

To existing grids. Most of you in the audience got comfortable with the green energy sources and

Have done well in these markets as they have matured. Fusion will arrive at the pinnacle of need

With a solution capable of immediate use. Help us raise the money needed to prepare.

12:30-1:30pm

Lunch and Conclusion of Formal Sessions

1:30-3:00pm

Facility remains available for informal breakout sessions and

networking.

8:00 A.M. – 1:30 P.M