

Fusion is the future of energy

Fossil Fuels



55,000 barrels of oil

and 23,500 tons of CO_2

Fusion Energy

1 liter of fusion fuel ...

(distilled from water)

Electricity





powering 17,000 Jakarta homes

for 1 year

100,000 Megawatt-hours

Source: Kubota et al, 2014. A Comparative Analysis of Household Energy Consumption in Jakarta and Bandung

How does fusion work?



General Fusion: the world's most advanced private fusion venture

The Talent



- Proven, experienced management
- World's top fusion technologists
- Globally recognized partners

The Technology



- Industry leading plasma injectors
- Demonstrated plasma stability
- Prototyped compression system

198 Patents 15 Years of Development 150,000 Plasma Experiments \$110M+ of Funded Research

Global investors and partners

Investors



Commercialization of fusion energy is accelerating...

Progress of Fusion Science



- Plasma physics knowledge
- Advanced simulation codes (U.S. DOE Exascale Project)
- Experimental confirmation of fusion theory

Maturing Enabling Technologies



- Advanced manufacturing (3D printing)
- Computational power and big data analytics
- High speed digital control systems
- High temperature superconducting magnets

...Leading to New Innovative Ventures

Cumulative Number of Ventures Pre-2002 Seed Stage Venture Stage Late Stage \$20-50M <\$20M >\$50M

Private Fusion Ventures

Investment in Private Fusion Ventures



Architecture Provides Commercialization Pathway...

Plasma Formation & Injection Plasma Compression

Fusion



- A hot magnetized plasma at 5 million degrees Celsius is formed by a plasma injector and inserted into an approximately three meter diameter compression chamber cavity inside the fusion vessel
- The inner chamber cavity is formed by a rotating liquid metal, which is quickly pushed inwards by a phased array of several hundred precisely synchronized pistons to symmetrically compress the plasma by factor of 1,000 in volume in several milliseconds
- Confined within the collapsing metal cavity, the plasma is compressed and heated to over 100 million degrees Celsius, creating fusion conditions
- Fusion energy is released and subsequently absorbed into the surrounding liquid metal, heating it to about 300 degrees Celsius

A pulsed machine - the fusion equivalent of a diesel engine

Consistently Advancing Towards Commercialization



Core Technologies are in Place

Plasma Injector System

Compression System

Fusion Process Stability







Backed by years of R&D progress, core technologies are in place, constructed, and tested at large scale

General Fusion demonstration program



- Preparing to build and operate a fusion demonstration plant, the only facility being developed to confirm complete end-to-end process capability to produce electricity from fusion energy
- Builds on key milestones that have confirmed the Company's approach to fusion, achieved industry-recognized fusion system performance, established industrial partnerships for enabling technologies, and captured government support

Experienced and Proven Management Team



Christofer Mowry

CEO

- Founder & CEO of mPower SMR
- GE and B&W executive leadership
- PE and VC portfolio management experience



Dr. Michel Laberge

Founder & CSO

- PhD, Plasma Physics
- Post-docs at Ecole Polytechnique & NRC
- Principal scientist & inventor at Creo
 Products



Bruce Colwill

CFO

- Pre-commercial technology veteran
- Multiple high-tech CFO roles
- Extensive fund raising experience



Michael Delage

- Co-Founder, VP Product Management, Energate Inc
- Deep strategic partnering experience
- Smart grid industry pioneer

Michael Donaldson

VP Fusion Island Engineering

- Experienced product development
 professional
- Multidisciplinary technical team leader at Creo Products
- 18 years of developing novel and disruptive technologies



Matt Miles

VP Business Development

- Proven global business development leadership
- Background in power and energy sectors
- Babcock & Wilcox Company Senior
- Director Strategy & Growth

Jean-Francois Béland VP Corporate Affairs & Strategy

- Former EVP of AREVA Canada Inc.
- Former policy advisor on Treasury Board and Governance in the Office of the Prime Minister of Canada

Recap

Commercially viable fusion energy will unleash sustainable, prosperous growth for the 21st century

- > Fusion creates clean, safe power from water, without the challenges of renewables and nuclear power
- Proprietary technology uniquely resolves traditional long-standing barriers to practical fusion
- > The only company building demonstration plant to confirm capability to produce electricity from fusion
- General Fusion leads growing \$1B+ wave of investment fueling 25 new private fusion ventures

CLEAN ENERGY. EVERYWHERE. FOREVER."

general fusion°

