where Science meets humanity

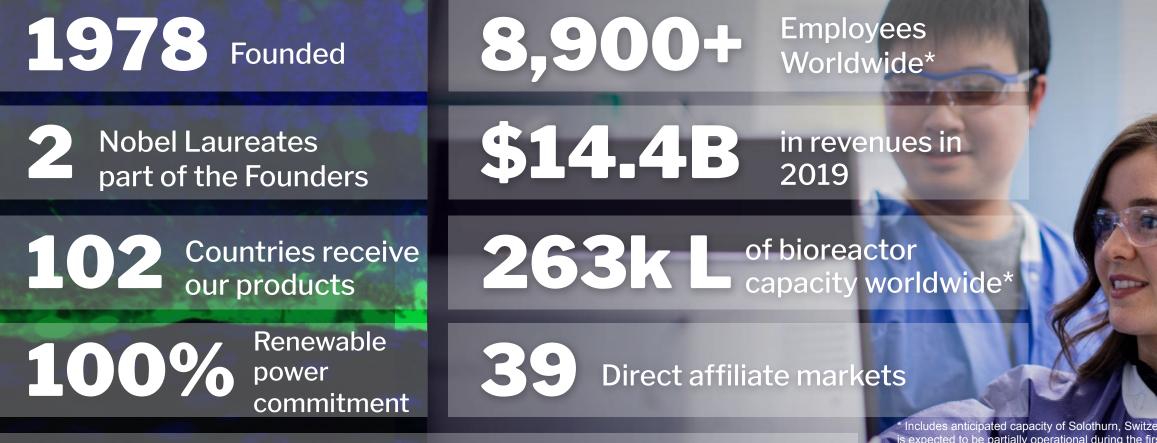
AEG Boston & Mass EV Stakeholder Challenge: Mobility & Transportation Jennifer Wright, Director EHS&S, Biogen, Inc.



December 9, 2020

We Are Pioneers in Neuroscience

Biogen continues to innovate in MS, launch new therapies and advance a robust portfolio of treatment options that support patients with different needs



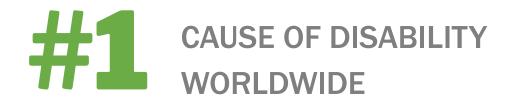


* Includes anticipated capacity of Solothurn, Switzerland, which is expected to be partially operational during the first half of 2021.

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Neurological disorders are







Source: Lancet Neurology, 2017; DRG 2017, American Heart Association, American Parkinson's Disease Association, The ALS Association.





Healthy Climate, Healthy Lives[™]

Biogen to Invest \$250 Million over 20 Years to Eliminate its Use of Fossil Fuels and Improve Public Health

COLLABORATIONS FOSSIL FUEL FREE WITH GLOBAL LEADERS Goal of eliminating the use of

fossil fuels across operations by 2040

Working with MIT, the Harvard T.H. Chan School of Public Health, and World Business Council for Sustainable Development, among others

EMPLOYEE ENGAGEMENT

Encouraging employees to innovate at work and volunteer in the community

Supporting employees to reduce their use of fossil fuels at home







CHARGING STATION

Goals for Fleet

Transition global fleet of ~2000 vehicles, and MA commuter buses to electric by 2025

Deploy infrastructure for workplace and home charging at more than 30 corporate locations

The Challenge...



Problem Statement



sciencehumanity meets Many car owners in Boston do not have a dedicated parking spot to install a charger, or consistent access to a public charging station, which makes charging difficult





Key Obstacles



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- 1. Can't charge overnight or while at home (where most charging happens)
- 2. Public charging spot too far from home (particularly in lower-income communities)
- 3. Public charging spot not dedicated (not available when needed)
- 4. Public charging networks are cost-prohibitive for lower income drivers





What are we doing?



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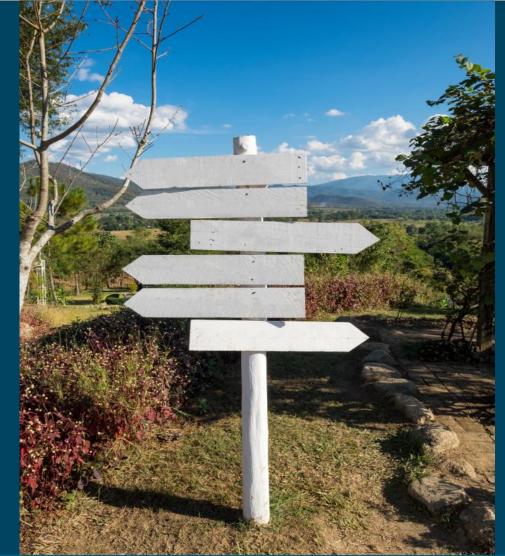
- Biogen will continue to install rapid chargers at its Cambridge and Weston locations to help meet employees' charging needs (charge at work for free)
- Biogen is active with the Environmental League of Massachusetts and others to push for solutions – such as advocacy for Northeast & Mid-Atlantic states to engage in the Transportation and Climate Initiative (TCI)
- Biogen has joined the EV100 and is working to catalyze change, including access to charging, at scale
- Biogen committed to a ZEV fleet by 2025, to join others in increasing demand for ZEVs and charging infrastructure



Potential Impacts of Action or Inaction

Benefits of Action...

- Accelerates the transition to ZEVs in Boston
- Reduces noise and air pollution in the city and surrounding communities
- Contributes to Boston's climate goal of being carbon neutral by 2050
- Potential ripple effect to other cites (leadership)
- Attracts top talent to live in Boston



Consequences of inaction...

- Impedes transition to ZEVs in Boston
- Transportation contributes to climate change
- Negative public health impacts (potential links to cardiopulmonary diseases and even brain health)
- Perceived lack of leadership from progressive technology hub like Boston
- ZEVs perceived negatively by consumers



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Final Statement

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Regarding the electrification of fleets to achieve clean energy goals, the most critical obstacle to overcome is charging in highly urban areas like Boston

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THANK YOU!



Confidential and Proprietary

1