This investment will support the development of electric airplanes that will dramatically reduce aviation emissions.

Wright Electric is electrifying aviation. Wright Electric is integrating innovative battery and airframe designs to build fully electric narrow-body jets - jets like Boeing’s 737. Wright’s ultimate goal is for every flight below 1000 miles to be electric within 25 years. Much as the auto industry required a new entrant – namely Tesla – to spark electric vehicle penetration, today’s plane manufacturers (from large to small, Boeing, Airbus, Embraer, Bombardier) have little incentive to develop electric aircraft, despite the commercial and climate impact potential of these electric aircrafts. Wright Electric will be the spark that the aviation industry needs.
The Challenge of Decarbonizing Aviation

Commercial aviation is one of the largest and fastest growing sources of anthropogenic greenhouse gas (GHG) emissions. For an American that takes 5 round trip flights per year, air travel may account for over 75% of their greenhouse gas footprint. In recent years, significant progress has been made in incorporating electric propulsion technologies into the automotive, shipping, and trucking industries. Solutions for decarbonizing aviation, on the other hand, remain nascent.

On the other hand, advances in energy storage technologies—driven by demand from the automotive and electric power industries—are now opening up new opportunities for electrifying air transport. Battery technology is not yet advanced enough to fully electrify flights beyond 300 miles. Nonetheless, NASA and other parties have demonstrated that flights under 300 miles can be electrified given line of sight battery innovations, and that electrifying these flights can deliver significant economic benefits to the airlines and consumers offering and taking these flights.

The mismatch between commercial potential and industry focus has created the gap that Wright Electric will fill. Wright Electric’s electric airplanes will dramatically reduce emissions while simultaneously allowing airlines to increase operating margins by up to two times by reducing fuel and maintenance costs. As battery technologies improve and as Wright becomes a leader in electric drive train and fuselage design for electric propulsion, Wright will design new planes to meet increasingly large markets.

Direct Charitable Impacts

Wright’s solution decreases the emissions of a variety of air pollutants—namely CO2, H2O, O3, and CH4. Increasing transportation's fuel efficiency means less fuel is consumed to produce the same amount of transport, reducing absolute pollution for a given level of passenger miles. In addition to accelerating climate change, air emissions also harm the health of nearby residents and workers. Releasing emissions at high altitudes is worse from a global warming perspective than emissions at earth’s surface. In the long term, as the electricity sector decarbonizes, Wright will enable the complete decarbonization of short-flight commercial aviation. Wright Electric reduces the demand and the negative environmental impacts of fossil fuel extraction. The extraction of oil exacts a heavy environmental toll, from the direct destruction of natural habitat through practices like infrastructure building in remote and pristine areas, to accidental environmental contamination through chemical spills and leaks.

Advances Science

Wright Electric is developing technologies that have been identified as particularly important by NASA and the FAA. Wright plans to create more than 10 patents, in the areas of batteries, fuselage, and motor design, and powertrain. These scientific advances will benefit the entire aviation industry as Wright publishes papers and brings new products to market, spurring competitors to bring similar products to market.

Indirect Charitable Impact from Climate Change Mitigation

Because this company helps to mitigate climate change, it also has indirect impacts on existing charitable purposes.

<table>
<thead>
<tr>
<th>Promotes human health</th>
<th>Alleviates poverty: natural disasters</th>
<th>Defends human rights</th>
<th>Combats community deterioration</th>
<th>Protects the natural environment</th>
<th>Lessens the burdens of government</th>
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<tr>
<td>Reduces pollution from fossil fuels and spread of disease</td>
<td>Mitigates frequency and severity of natural disasters, which disproportionately affect the poor</td>
<td>Protects communities most vulnerable to climate change effects</td>
<td>Mitigates sea level rise and resource degradation</td>
<td>Prevents ecosystem degradation and species extinction</td>
<td>Reduces strain on infrastructure and need for climate-related assistance</td>
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