What We Do

Replace batteries and provide 6x flight times at a third of the cost
Market Need

Who will be our customers?
- Aerial Mob
- Parrot
- DJI
- Google
- Amazon
- Facebook
- Lockheed Martin

Global $11B

US $7B

Small Drones $2B

SAM $1B

*Time of flight will improve but slowly, because battery technology is still poor*" - Henri Seydoux, CEO of Parrot

*Solar cells of a reasonable size don’t provide nearly enough power, and fuel cells are still a fairly immature technology*" - James Mazeika, Aerovironment

*Drone batteries tend not to last very long... Trace [Live Network] is hoping to get about 30 minutes out of the FLYR1"* - Rachel Mertz, MIT Technology Review
The Solution

- Lightweight, Small Form Factor
- Solid-State With No Moving Parts
- Plug-and-Play Adaptation
- Low Cost to Operate & Manufacture
- High Reliability
For a 400 g drone...

Parrot LiPo Battery
- 300 g payload
- 100 g battery
- Flight time: 18 min
- Power: 60 W
- Cost: $40

REEBEEZ Microengine
- 300 g payload
- 50 g engine + 50 g fuel
- Flight time: 120 min
- Power: 60 W
- Cost: $15

MVP Pricing ~$100, GM > 60%
Competitive Positioning

Best Flight Times
6-8x better than batteries

![Flight Endurance Graph]

<table>
<thead>
<tr>
<th>UAV Size</th>
<th>Flight Endurance (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large</td>
<td>4</td>
</tr>
<tr>
<td>Medium</td>
<td>3</td>
</tr>
<tr>
<td>Small</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Power Source</th>
<th>Payload</th>
<th>Propulsion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>e.g. Parrot AR 2.0</td>
<td>0.1 kg</td>
<td>0.4 kg</td>
</tr>
<tr>
<td>Medium</td>
<td>e.g. DJI Inspire</td>
<td>0.6 kg</td>
<td>2.4 kg</td>
</tr>
<tr>
<td>Large</td>
<td>e.g. Amazon PA</td>
<td>4.0 kg</td>
<td>16.0 kg</td>
</tr>
</tbody>
</table>

Highest Specific Energy

![Specific Energy Graph]

<table>
<thead>
<tr>
<th>Specific Energy (Wh/kg)</th>
<th>LiPo</th>
<th>Reebeez</th>
<th>Fuel Cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>LiPo</td>
<td>0</td>
<td>1500</td>
<td>1000</td>
</tr>
<tr>
<td>Reebeez</td>
<td>2000</td>
<td>2000</td>
<td>1500</td>
</tr>
<tr>
<td>Fuel Cells</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

Lowest Cost Metrics

![Cost Graph]

<table>
<thead>
<tr>
<th>Cost ($/kg)</th>
<th>LiPo</th>
<th>Reebeez</th>
<th>Fuel Cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>LiPo</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>Reebeez</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Fuel Cells</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
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Vision

+ Predator & Raven Drones
+ Thermionic Engines
+ Hybrid Cars & Clean Hydrogen-Powered Transportation
+ Off-grid, 24/7 Power Generation
Contact Us!

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