

Description of the program of proposed research and experimentation

HEVO Power is going to pilot and demonstrate the Alpha prototype of its proprietary wireless charging system for electric vehicles with commercial fleet partners such as [REDACTED]. These prototype units wirelessly deliver 1.5kW of power from the wireless power transmitter to a wireless vehicle receiver. Successful demonstration of the Alpha technology will allow HEVO to develop its Beta prototype and ultimately commercialize its technology.

HEVO Power Products:

HEVO Power Network (HPN)

HEVO is currently developing a ubiquitous wireless power product solution to ameliorate commercial fleets' range issues and limited access to plug-in charging stations. HEVO's solution will merge both magnetic resonance and magnetic induction technologies into one easy-to-use interoperable, embeddable and universal opportunistic charging solution to mitigate range limitation and optimize commercial EV fleet operations. The **HEVO Wireless Power Network (HPN)** consists of the **HEVO Power Station (HPS)** (Wireless Power Transmitter) and the **HEVO Receiver (HR)** (Wireless Power Receiver). These two devices communicate and interface with the end user via the **HEVO Mobile (HM)** telematics.

HEVO Power Station (HPS)

The HEVO Power Station will be durable wireless power unit that is embeddable in pavement and asphalt, and capable of providing full interoperability with any EV up-fitted with a corresponding on-board HEVO Receiver. Embedded like a manhole cover, the HPS is seamlessly integrated into the pavement and avoids the vulnerabilities associated with plug-in charging stations. The HEVO Power Station is shown in the Figure 1.



