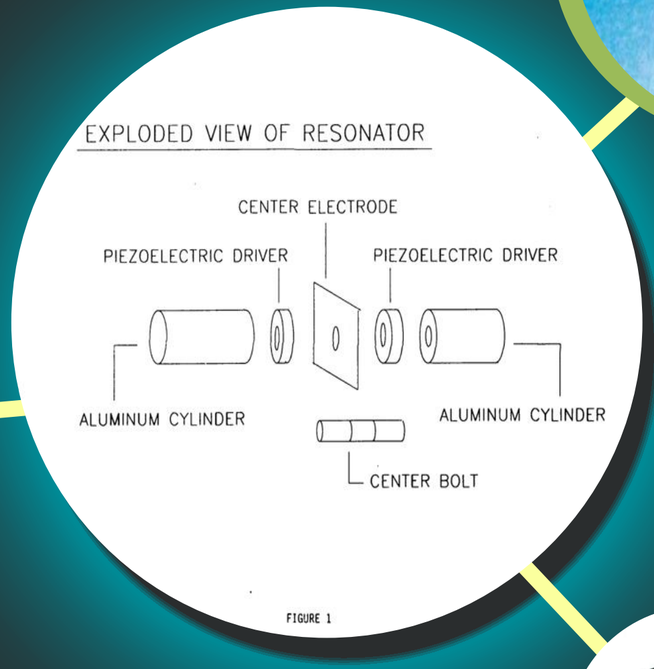
SOLAR PANEL CLEANING

1. Shape/Topology

Our cleaning equipment is comprised of assembled components with the flexibility to be attached to any solar panel surface. This enables our tech to be applied to any solar farm, including hard to reach locations, or farms in unsafe to access places to prevent any harm to others.



2. Water Availability

Worldwide, the most efficient regions for solar panels are also the driest. Because our technology needs water to mist onto the panel, we have designed a gutter return system to return used water, filter it, and hydraulically return to the main housing for continuous use. We project to reduce the need for water by 70% as compared to current solutions through this method. Additionally, we reduce the need for large trucks to constantly bring water for cleaning to the solar site, per the current solution.

3. Scratching of Panel Surfaces

To remove dirt/dust from the panels, we mist water onto the panel while using piezoelectric drivers to ultrasonically resonate dirt/dust off. Once the water contacts the levitated dust/dirt, the debris will fall below. Additionally, the use of water is shown to be the most effective cleaning method, and by avoiding scratching with piezoelectrics, we will greatly increase the life of the panel.