



GENERATION-ONE SAVER

POLLUTION CONTROL PRIVATE LIMITED.

A DPIIT recognized startup

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FOSTERING THE
ENVIRONMENT

About Us

In pursuit of a dream to build a cleaner greener and purer future,

we are young, passionate & determined entrepreneurs with a noble mission to make planet Earth an even better place to live in the future.



Established in the year 2022, we are a DPIIT recognized stratup



Our Journey

We, " Generation-One Saver" are an Industrial Air pollution control-based, DPIIT recognised start-up company incubated at NSRCEL, IIM Bangalore. We at Generation-One Saver, re-invent technology for the betterment of the future. Generation-One saver makes use of an innovative methodology through which it controls industrial emission and enhances the quality of air in a new and unique way.



With out of the box innovation and immense passion, we stand as a strong bridge in-between technological development and a healthier environment. controlling industrial emission and enhancing the quality of air. Global warming will become one of the most powerful threats in the very near future, and we are here with our new invention to tackle it.

Our Achievements

Our product idea has been presented internationally in several stages and has won in multiple platforms including 'The Delta Cup 2020', an annual international technical competition conducted by Delta Electronics, China, also 'Smart Maker Fest 2021' an annual international competition conducted by SMART Society USA & Canada in association with IEM-UEM group. And we are one among the top 15 winners of Imagine to Innovate Challenge Design Contest IICDC - 2019, conducted by Texas Instruments in collaboration with Department of Science and Technology (DST), powered by AICTE mission, anchored by NSRCEL, Indian Institute of Management, Bangalore (IIMB) where we are incubated.



Our Milestones

2020

Our product idea was the runner-up of the International Delta cup 2020, an international annual automation contest conducted by Delta Electronics, China.

2021

Our product idea was the second runner-up of the International Smart Maker Fest 2021, conducted by Smart society USA & Canada through IEM and UEM.

2022

Our product idea was selected as one among the top 15 start-ups at NSRCEL ,IIM-B through IICDC 2019, where we were offered seed funding support through the Department of Science and Technology

Our Products

We have invented a new technology to remove pollutants from air by means of air bubbles. This new technology is patented and has been tested out with astonishing results showing the removal of PM 2.5 up to 99% in several cases. Also, the technology outweighs the existing, conventional pollution control equipment including wet scrubbers, dust collectors, cyclone filters, etc and we named our technology "**G-One Saver**". This technology can be designed to meet any specific requirement including stack pollution control, Ambient air pollution control, Indoor air pollution control etc.



PROTOTYPE RESULTS

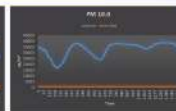
PARTICULATE MATTER REMOVAL



PM 1.0 - 95%



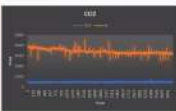
PM 2.5 - 98%



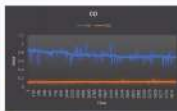
PM 10.0 > 98%

PROTOTYPE RESULTS

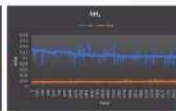
GASEOUS POLLUTANTS TREATMENT



CO₂ - 98%



CO > 97%



NH₃ > 95%

Here are the gaseous pollutants removal efficiency and not only the listed gases, the equipment could be modified to control NO_x and SO_x emissions upto a determined level.

Product Specification

The idea is to pressurise and guide the polluted air into a single (or) serially connected n number of chambers containing solvent filled at a specified level. The number of chambers could be determined based on the requirements and space availability. The level of the solvent in the chamber is filled at a certain level to have an improved efficiency of the system. The solvent in most of the use cases would be water. The polluted air, is passed through this solvent via a specially designed filter component. This filter component is submerged at a specific depth under the solvent and is designed to pass the polluted air as tiny air bubbles through the solvent. We have designed this filter component in such a way that it reduces the vibrations/ jerks in the chamber caused by air



bubbling and creates increased number of tiny bubbles, improving the surface contact of the air and solvent yielding maximum power and performance efficiencies. The polluted air when passed as tiny air bubbles through the solvent loses all/ most of its suspended particulate matter along with the reduction in fume concentrations. In addition, we have also designed an intelligent air quality monitoring system integrated with IOT to provide continuous air quality data through which the possibilities over control of air pollution are limitless. This monitoring system could be integrated with our product based on the requirement.