Pollution carried by emissions of PM$_{2.5}$ particles in Tianjin led to the premature deaths of 1,200 residents in 2011 alone, whilst increased levels of smog across China have sparked reports of "crazy bad air", carrying significant health and financial costs.

The Clean Air Tower combines vertical architecture with industrial air-cleaning technologies and self-generated power, making use of the stack effect to clean 5,000,000 m$^3$ of air per year for residents, office workers and the citizens of Tianjin.

The project is a modular design that can be constructed in parts, allowing the tower to be scaled and adapted as the air quality improves. The number of sections and levels will be determined by the amount of air and the quality of the air at each level. The tower is designed to be a sustainable solution to the problem of pollution, providing a healthy living environment for residents, office workers and the citizens of Tianjin.

Sustainability in architecture today is the need for a positive relationship between the building and its surroundings. The Clean Air Tower aims to provide a healthy living environment for its residents and to improve the air quality of the surrounding area.