

Founder and Inventor Profile

Mr. Bealur Ramalingam Kaarthic

Inventor | Director | Chief Scientist | Clean Energy Technology Developer

Profile Summary

Mr. Bealur Ramalingam Kaarthic is an Indian inventor, clean-energy innovator, and industrial technology developer focused on hydrogen, HHO gas, renewable energy, waste management, industrial automation, and green manufacturing systems.

He is the inventor and core technology originator behind advanced HHO engine platforms, including the GEM Gyroid Engine, PLY FLY Electrolyser Engine, and Tube-X High-Volume HHO Engine. His inventions are designed to move HHO technology beyond small torch and welding applications into high-volume industrial burner, boiler, furnace, vehicle, and clean-energy systems.

With years of independent research, development, testing, fabrication, and system integration, Mr. Kaarthic has built a wide portfolio of practical inventions covering hydrogen fuel systems, renewable power generation, industrial thermal technology, waste-to-energy conversion, vehicle fuel-saving systems, and automated manufacturing plants.

Core Strengths

Mr. Kaarthic's core strength is combining mechanical engineering, electrical systems, electrolysis technology, automation, PLC/HMI controls, gas-flow safety, burner design, industrial fabrication, and clean-energy process engineering into real-world industrial solutions.

Core Technology Focus

Mr. Kaarthic's core technology vision is based on high-volume, on-demand HHO gas production. His target is to make water-assisted hydrogen and HHO technology useful for major industrial applications such as:

- Industrial burners
- Vertical boilers
- Furnaces
- Dryers
- Vehicle fuel boosters
- Generators
- Metal processing
- Waste-to-energy plants
- Clean industrial heating systems

His invention approach avoids large hydrogen storage and transport challenges by generating HHO on demand at the point of use, with controlled flow, pressure management, automation, and safety-focused system design.

Major Invention Portfolio - BIRD Renewables

- Project 1 - All Weather Wind Mill Energy Plant
- Project 2 - PEM Fuel Cell Green Hydrogen Wind Energy Plant
- Project 3 - Municipal Waste to Bio Carbon Coal Powder Plant
- Project 4 - Automated Hydrogen Brick Manufacturing Plant

- Project 5 - Hybrid Fuel HHO Vehicle System
- Project 6 - AMS Auto Charging EV System
- Project 7 - HHO Iron Ore Processing Plant
- Project 8 - HHO Smart Furnace Plant
- Project 9 - HHO Billet Heating Conveyor System
- Project 10 - Industrial Fuel Booster Retrofit System
- Project 11 - HHO Hot Air Transfer and Drying System

Mission

Mr. Kaarthic's mission is to create practical, scalable, and commercially useful clean-energy technologies that reduce fossil-fuel dependency, lower pollution, improve industrial efficiency, and support a sustainable future.

Vision Statement

To transform water-assisted hydrogen and HHO technology into practical clean-energy systems for industry, mobility, manufacturing, and renewable power - creating cleaner air, stronger industries, and a sustainable future.

Short Website Profile

Mr. Bealur Ramalingam Kaarthic is an inventor, Director, and Chief Scientist specializing in HHO gas, hydrogen energy, renewable systems, industrial automation, and green manufacturing technologies. He is the originator of high-volume HHO engine platforms and multiple clean-energy inventions under the BIRD Renewables portfolio. His work focuses on developing practical industrial solutions for clean combustion, renewable power, waste-to-energy, vehicle fuel saving, automated manufacturing, and sustainable industrial transformation.