

## Utilizing Technology Scouting to Refine Autonomous Cleaning Methods for Solar Panels: A Thorough

**Examination of Patent Bibliographic Details and Taxonomic Analysis** 



## **Business Objective**

Centered on innovation, quality, and market leadership, our client sought to investigate autonomous methods for cleaning solar panels, specifically washing device or the apparatus which is present on ground for autonomous cleaning of solar panels. The primary objective was to identify key players and analyze the infrastructure of solar panel cleaning methods. This included understanding cleaning components, types of sensors, detector positions, and the geographic presence of companies and universities.



## **Project Breakthroughs**

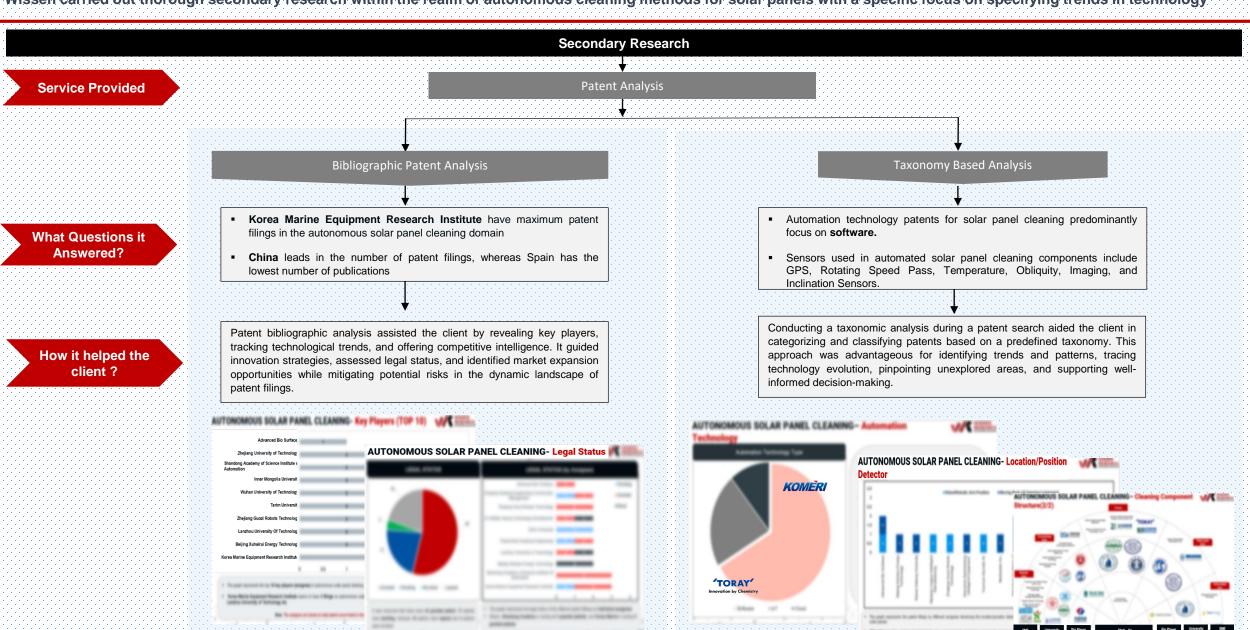
Our rigorous research process was underpinned by secondary research. We scoured patent databases like Orbit to obtain relevant patent results, aiding our client in thoroughly exploring autonomous methods for cleaning solar panels. Wissen Research's strategic insights addressed crucial questions, encompassing:

- In a bibliographic examination of patents, the analysis addressed the following questions:
  - a) Top 10 assignees
  - b) Filing trends(assignee by year, publication country by year, publication countries including family members)
  - c) Legal status of patents filed (pending,granted,dead)
- Taxonomic analysis based on autonomous solar panel cleaning answered following questions:
  - a) Autonomous technology used (e.g., lot, cloud or software)
  - b) Vehicle type used for cleaning
  - c) Cleaning component structure (e.g., robotic arm, frame, telescopic rod etc.)
  - d) Type of cleaning obtained (wet or dry)
  - e) Different sensors used

## Wissen APPROACH

**V**K

Wissen carried out thorough secondary research within the realm of autonomous cleaning methods for solar panels with a specific focus on specifying trends in technology





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