Dwindling water, farmland and fossil-based fertilizers are making it increasingly difficult to feed people today, let alone those expected in the future. This report investigates the companies and breakthroughs most likely to help the world produce more food with less.

Select companies are poised to reinvigorate large scale agriculture with clean-tech innovations that help expand yields, increase efficiencies, reduce waste and address concerns about toxicity, safety and the environment.

How do established organizations manage risk around the disruptive change of breakthrough new agricultural innovation? Which new agriculture companies stand the best chances of success? Why?

This report on new agricultural clean-tech, offers definitions and identifies drivers, as well as critically examining companies with important emerging technologies in bio-based fertilizers, pesticides and fungicides, micro-irrigation, precision agriculture, aquaculture, vertical farming, waste management and more. The report concludes with recommendations for investors, large corporations, policy makers and entrepreneurs.

Based on interviews with 20+ agricultural cleantech vendors, 4 investment firms and portfolio managers and 8 research entities including the USDA, Sustainable Forestry Initiative and UNFAO the findings are reliable and conclusive.

Includes:
- Definition of agricultural cleantech, and relevance to profiled companies
- Drivers of new agricultural tech innovation
- Profiles of 57 companies, many with their technology illustrated
- Charts showing historical ag tech investment and patent filing data
- 155 footnotes, 23 tables, charts & figures

Also Features:
- Taxonomy of clean agricultural technology
- Detail of emerging sectors like aquaculture and sustainable forestry
- Findings based on interviews with dozens of market insiders
- Recommendations for corporations, entrepreneurs, policy makers and more

It is an essential resource for:
- Companies across the agricultural value chain, from small technology companies to large multinationals
- Investors seeking disruptive innovators
- Service providers seeking promising agricultural technology companies as clients
- Governments
- Others

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Emerging agricultural cleantech sectors and companies
A. Crop farming
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- Biological weed, pest and disease control
- Precision irrigation and fertilization
- Land management
- Biotechnology
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- Transport decay prevention
B. Controlled environment agriculture
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Recommendations
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