

URBAN
GREEN

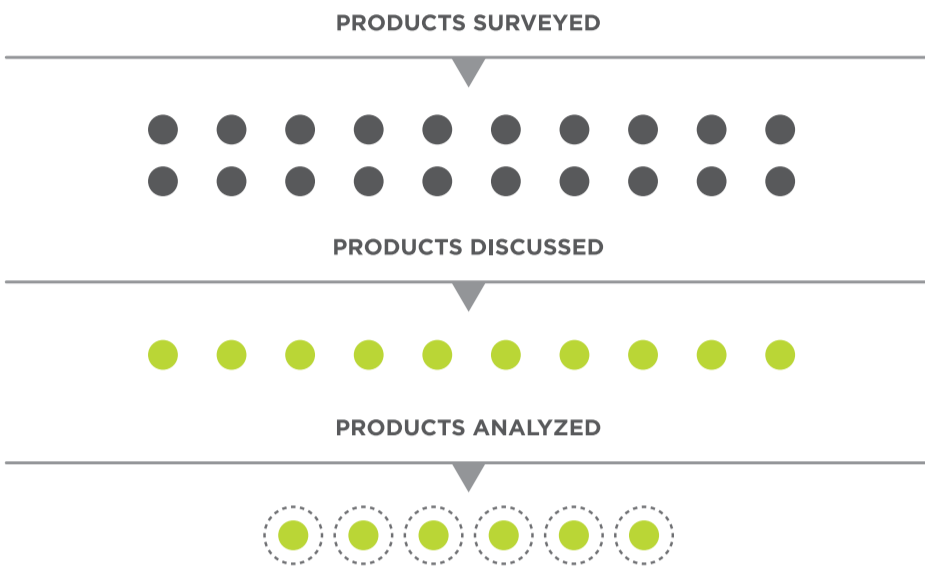
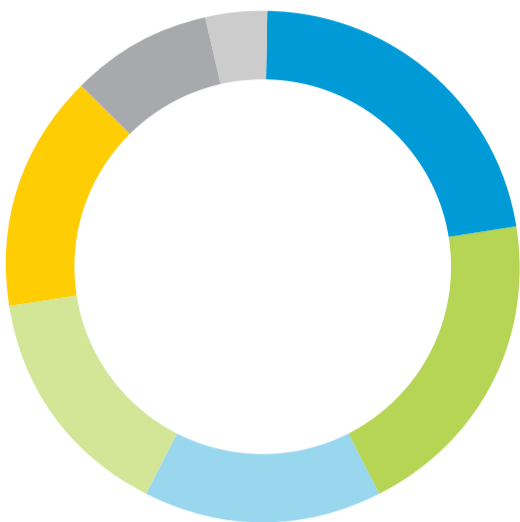
THE NEXT FRONTIER
FOR ENERGY-EFFICIENT
PRODUCTS

Our **latest report** identifies energy-efficient technologies that the New York construction market can use today. It also digs into why they aren't on the market already—a lack of communication between manufacturers and building owners, designers and operators. This research is our first step toward bridging the gap.

SUPPORTING THE DISCOVERY PROCESS

To ensure better alignment between building product development and industry demand, NYSERDA engaged Urban Green Council to conduct a technology needs assessment within the building industry.

Over the last two years, we have identified and refined product ideas through surveys, focus groups, energy analyses and interviews with manufacturers.

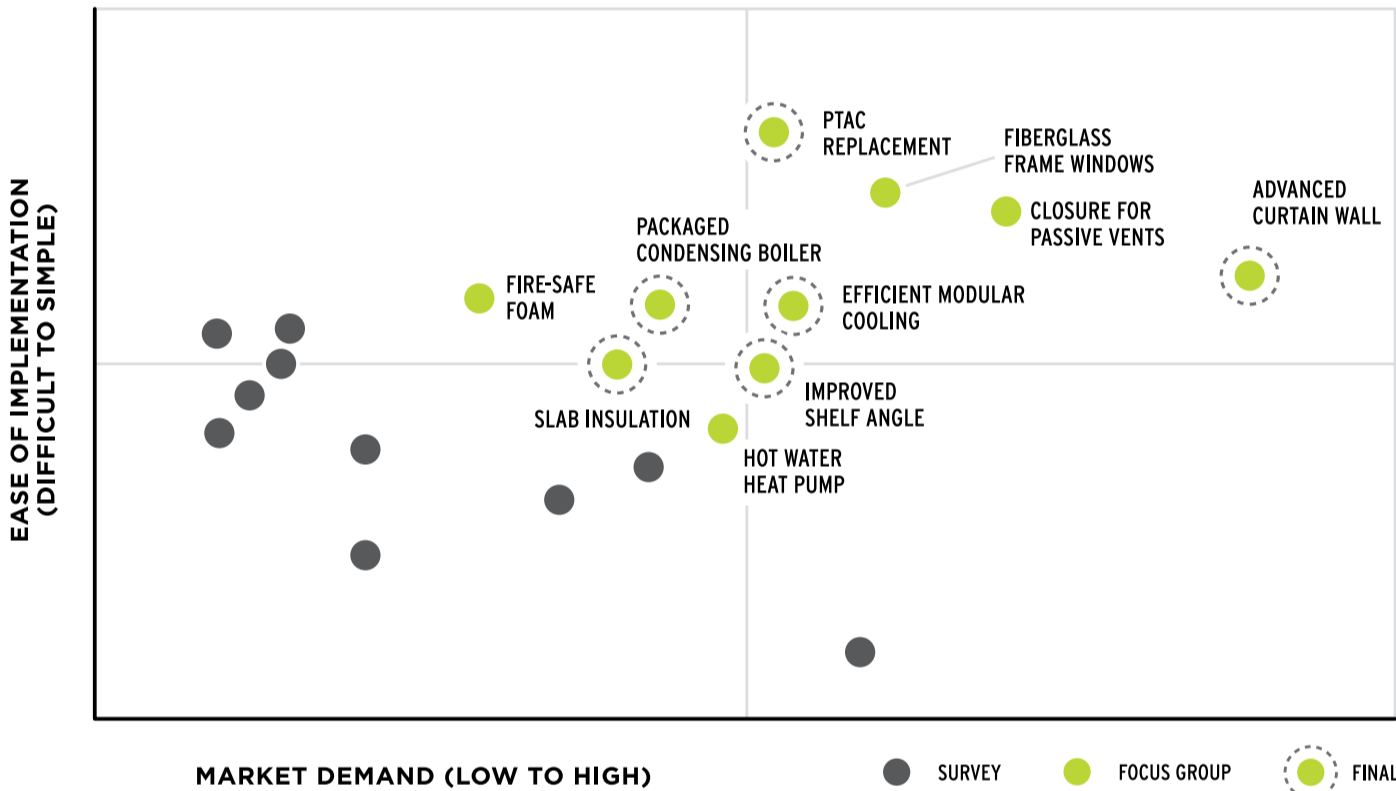


ENGAGING INDUSTRY STAKEHOLDERS

Respondents and advisors included professionals from a range of industry groups.

REFINING THE PRODUCT IDEAS

The products were narrowed down based on ease of implementation and market demand.



THE TOP PRODUCTS & THEIR POTENTIAL IMPACT

Commercial Product Application
(Summer Conditions)

Advanced curtain walls

Advanced curtain walls use thermally broken connections with insulated, multi-pane glazing.

To make energy-efficient curtain walls commonplace, a standardized and cost-effective product is needed.

SITE ENERGY USE

13%

Residential Product Applications
(Winter Conditions)

Efficient Modular Cooling

High-efficiency compressors cool the space with less electricity but give tenants control.

Over 30% of large offices have HVAC equipment that could be improved with this product.

SITE ENERGY USE

3.5%

Slab Insulation

Balconies and floor slabs need to be insulated to retain heat and ensure comfort during winter.

This is done for some new buildings but almost all existing buildings need to be retrofitted.

SITE ENERGY USE

3%

PTAC Replacement

Heat pumps retrofitted into PTAC openings could heat and cool apartments with less energy.

There are over 120,000 PTACs in large NYC buildings that could be replaced.

SITE ENERGY USE

4%