

MAKING THE SHIFT TO MORE ENVIRONMENTALLY FRIENDLY FUELS FOR DOMESTIC HEATING APPLIANCES



A Leading Domestic Appliance Company

The client came to PreScouter to help them learn about shifting to more environmentally friendly options such as low-carbon hydrogen, renewable natural gas (RNG), and electrification for powering domestic furnaces and heating appliances.



CHALLENGE

The client was looking for answers to the following questions:

- How much natural gas is to be replaced or blended with other fuel options?
- What are the regulations for the implementation of hydrogen and RNG in North America?
- How should appliances be modified in order to be able to work with these fuels?



APPROACH

For this Research Support Service Project, PreScouter put together a team of 2 project managers, 4 analysts, and 4 Subject Matter Experts to address each of the client's questions. The task included scouting scientific papers for information about technology developments, looking at market reports and energy outlooks to forecast the adoption of the fuels, and compiling insights and recommendations.



OUTCOME

PreScouter informed the client on how fast the implementation of low-carbon hydrogen and RNG will be, compared to the production of electricity and natural gas. PreScouter also provided a landscape of new developments related to the use of hydrogen and RNG in domestic appliances and to the electrification of heating appliances, as well as summarizing all US and Canadian regulations concerning the use and production of these fuels. The client is using these insights to know where to focus their product lines in the coming years.