



Harnessing the earth's energy

PROJECT PROFILE CONSTRUCTION

CLIENT

National Science Foundation /
Virginia Tech University

RENEWABLE ENERGY CREATION THROUGH GEOTHERMAL ENERGY PILES

Blacksburg

SITUATION:

Geothermal energy piles are an innovative renewable energy technology designed to utilize the relative constant temperature of the ground for efficient heating and cooling of buildings. Although geothermal energy piles have seen significant growth in Europe and Japan throughout the last decade, they have received little attention in the United States. This is partly due to a low awareness about their benefits and a lack of domestic case studies demonstrating their cost-effectiveness.

SOLUTION:

Layne has partnered with Virginia Tech University in a National Science Foundation-supported research project to investigate energy piles. The project will represent the first small diameter pile load tested as an energy pile in the world and the first pile ever load tested in the United States. The findings from this study will serve as an important step in promoting the use of energy piles as an alternative energy option.

SERVICES EMPLOYED:

- + Geothermal Energy Pile

