



Cape Breton University - Mine Water Remediation & Management





















CAPE BRETON

Use of Geothermal Energy

"In the later future, this high temperature, which is already of immeasurable importance for humans and the conditions of its existence, possibly could play still another new important role under the aids of the human life. Should once, on the more and more populated earth, all the forests be cleared and the coal reserves be exhausted then it is probably conceivable that one takes advantage of the interior warmth of the earth; that one directs it to the surface by means of special devices in shafts or boreholes and uses it for the heating of dwellings or even for the heating of machines. One will certainly not broadly and with advantage access this heat source, which probably will be expensive in their application, until a severe lack of fuel material forces to do so; then however the warmth of the mother earth remains a safe last refuge."

Bernhard von Cotta | Bergakademie Freiberg 1853

Technological depths for Geothermal Applications hydrothermal borehole-Hot-Dry Rock heat exchangers systems 0 km 10° IJ heating with heat extraction heatfrom ambient pumps rock formation heating without heatpumps 3 km 100° ough stim ulated nerm fractured roc oces heat and owe 6 km 220 Geothermal Explorers Ltd <u>CAPE BRETON</u> UNIVERSITY





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