The seismic and electrical prospecting are used method of geophysical exploration，they can be combined into a system by piezoelectricity, because piezoelectricity is the mechanical energy exchange for electrical energy, and it was developed in the former Soviet Union since 1950.

The method uses a new geophysical parameter: piezoelectric activity of rocks, ores, and minerals.

The natural piezoelectric materials are crystals, so piezoelectric method be use to mineral exploration, ex. Ore-quartz zone in Russia, crystal-bearing pegmatites in northern Ukraine, Gold-bearing mine in Israel, etc.It has been applied successfully in research geology, too.

This method has matured, even have specialized commercial instrument, maybe will be a main method of mineral exploration in the future.

**Reference**

Neishtadt, N. M., Eppelbaum, L. V., & Levitski, A. G. (2006). Application of piezoelectric and seismoelectrokinetic phenomena in exploration geophysics: Review of Russian and Israeli experiences. Geophysics, 71(2), B41-B53.

Eppelbaum, L. V., Khesin, B. E., & Itkis, S. E. (2010). Archaeological geophysics in arid environments: Examples from Israel. Journal of Arid Environments, 74(7), 849-860.