

Isotopic compositions of hot springs distributed around the Yanaizu-Nishiyama Geothermal Power Station

Masaaki Takahashi[1]

[1] GSJ, AIST, METI

Analysis of hydrogen and oxygen isotopic compositions of hot and cold spring waters, and river waters distributed around the Yanaizu-Nishiyama Geothermal Power Station, western part of Fukushima Prefecture were carried out. Isotopic compositions of hot springs close to the power station, Oshio-Urabandai, Atsushio and Furumachi hot springs are distributed near the mixing line between local meteoric water and high temperature volcanic gas (magmatic emanations), whereas those of Tadami, Oshio, Aizu-Nozawa and hot springs in Oguni Town, Yamagata Prefecture are situated along the mixing line of local meteoric water and oil field brine.