Human Beings have used geothermal resources since ancient times. Afyonkarahisar Province is one of the provinces of Turkey that the use of thermal resources started to increase in tourism sector. This research aims to put forth the significance of geothermal resources that constitute the most important attraction of Afyonkarahisar in terms of tourism and provide the sustainable use of them. Besides the rapid increase of tourism investments recently related to tourism, irregular urbanization in the region as a result of uncontrolled and over use of thermal waters and environmental problems also started to increase in the province. Not being able to use thermal waters productively and efficiently, endanger the sustainability of the resources. Since the future of tourism in the Province related to geothermal resources, some necessary precautions as protecting thermal waters while using, one authority in running, distribution and preventing illegal drills should immediately be taken.