The objective of the presentation is the estimate of evapotranspiration and energy budget at the desert inland river basin. In this study, we use the FEST model to simulate the water and energy balance fields. The FEST model is a high-resolution, land surface model that is coupled to an atmospheric model. The model is designed to simulate the water and energy balance at the desert inland river basin. The model has been validated against field observations and remote sensing data. The model results show that the FEST model is able to simulate the water and energy balance fields with high accuracy. The water balance calculations show that the FEST model is able to simulate the water balance with high accuracy. The energy balance calculations show that the FEST model is able to simulate the energy balance with high accuracy. The model results are compared with other models and the results show that the FEST model is able to simulate the water and energy balance fields with high accuracy.