

#### عنوان مقاله:

Investigation of Afghanistan's Biogas Potential from Animal Waste

### محل انتشار:

دوفصلنامه انرژی های تجدید پذیر و کاربردها, دوره 2, شماره 1 (سال: 1400)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

W. Rahimy - Department of Energy Systems Engineering, Institute of Graduate, Bilecik Seyh Edebali University, .Bilecik, Turkey

Gh. J. Laame - Department of Energy Systems Engineering, Institute of Graduate, Bilecik Seyh Edebali University, .Bilecik, Turkey

.E. Acikkalp - Department of Mechanical Engineering, Eskisehir Technical University, Eskisehir, Turkey

.S. Yerel Kandemir - Department of Industrial Engineering, Bilecik Seyh Edebali University, Bilecik, Turkey

#### خلاصه مقاله:

Due to the increasing population growth and energy need, interest in renewable energy sources has increased in recent years. Biogas is one of the sustainable energy resources in the world. In cattle, ovine, and poultry farming, a large amount of fertilizer is produced in Afghanistan. These wastes are a big problem for businesses, and their evaluation is of great importance. One of the ways to utilize wastes is biogas production. In this study, the annual biogas and total annual heat value potential of Afghanistan, depending on the number of animals, were determined. As a result, Afghanistan's biogas potential between Yolo and YolV is between INYYEGGAYO mm/y and IYAYF9YFIF mm/y. It has been determined that the total annual heat value potential is between Y911Y1YYF. MJ /y. As a result, it was seen in this study that the widespread use of biogas in Afghanistan is of great importance in terms of both waste disposal and energy production

# كلمات كليدى:

Animal waste, Biogas, Total annual heat value, Renewable energy, Afghanistan

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1241126

