

# **Implementation of Domestic Waste Management Innovations Based on the First Law of Thermodynamics for the Development of Community Groups Without Waste**

**by Ariswan, Ddan Rosana, Jaslin Ikhan, Suhandoyo, Ali Mahmudi.**

## **ABSTRACT**

Community service activities (pengabdian kepada masyarakat - PkM) conducted by the lecturers for the 2023 budget year have been carried out in the form of socialization of the waste management system. The waste problem is still a problem in everyday life, especially in urban communities, in small, medium and big cities. The PkM explained how to solve the waste problem through an innovation based on the Law of Thermodynamics in Physics, so that it was hoped that the PkM partner community groups no longer produce wastes. This was because their waste was processed into materials that are beneficial to the ecosystem. This is because the PkM product has economic values. The basic principle of PkM was to make every member of the community aware of sorting waste into a number of characteristic waste groups, which were then given certain treatment. The treatment given was of course according to the characteristics of the waste material so that all waste can be utilized.

Kata Kunci: *Dissemination of waste management system, First Law of Thermodynamics, characteristic waste.*