

Mikhaevich T.V.

Energy exchange of bryozoans as a basis for calculation of the energy flow. All'Union Conference of young Scientists "Actual problems of Limnology", Leningrad, 1988, p.36.

Institute of Zoology of the Academy of Science of Belarus, Minsk.

During the utilization of the Thermal Power Plants (TPP) and Nuclear Power Plants (NPP) of closed cycle, for cooling of the turbines more often used the natural lakes. As a result of continuous thermal load, the hydrochemical and hydrological conditions of the water reservoirs are changed, specially the temperature. Consequently, the aboriginal species are disappear, and other species arise. In the cooling reservoir of the Electric Power Plant (EPP), Belarus, from 1980 have been developed the mass quantity of bryozoans *Plumatella fungosa*, reaching several kg/m² and forming massive biological filter. This study is a part of the complex research of the biology and ecology of the bryozoans in the water reservoirs of the different types, the basis for calculation of the energy flow and determination of the functional role of bryozoans in the ecosystems. The dependence of the velocity of oxygen consumption of bryozoans (**R**, microliter/number of specimen x hour) in the gradient of the temperature 10-15-20-25-29-33°C, in the natural conditions of bryozoans habitat in the cooling reservoir during the year, have been obtained.