

*A Study of the Increase in Green-Energy Installation Rates and the Reduction Effects on Fuel Consumption in Small-Scale Energy Networks of the Japanese Syowa Base in Antarctica by Distributed Engine Generators*

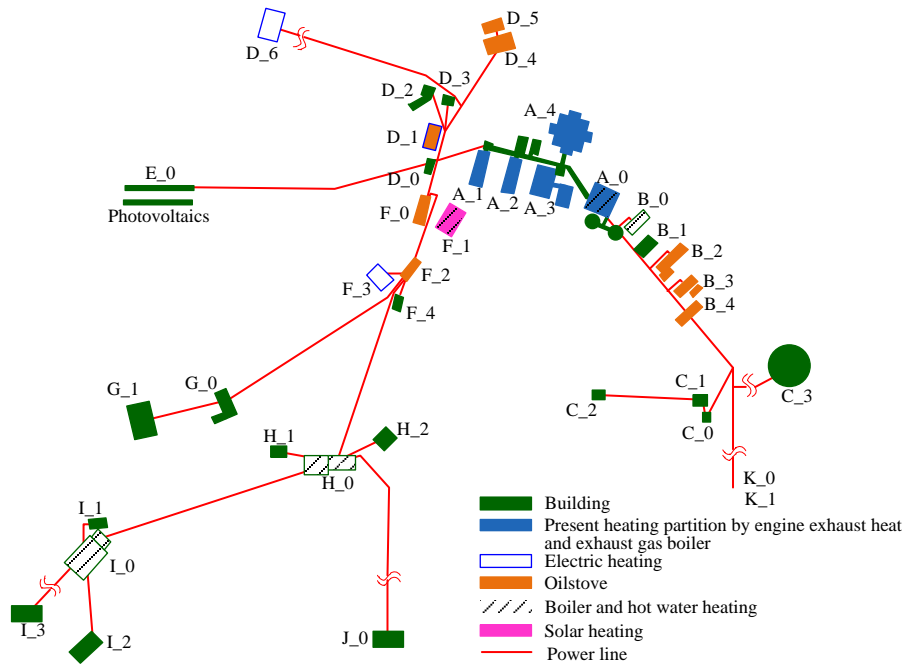


Fig. 1 Configurations of conventional electric power network and heating system at Syowa station

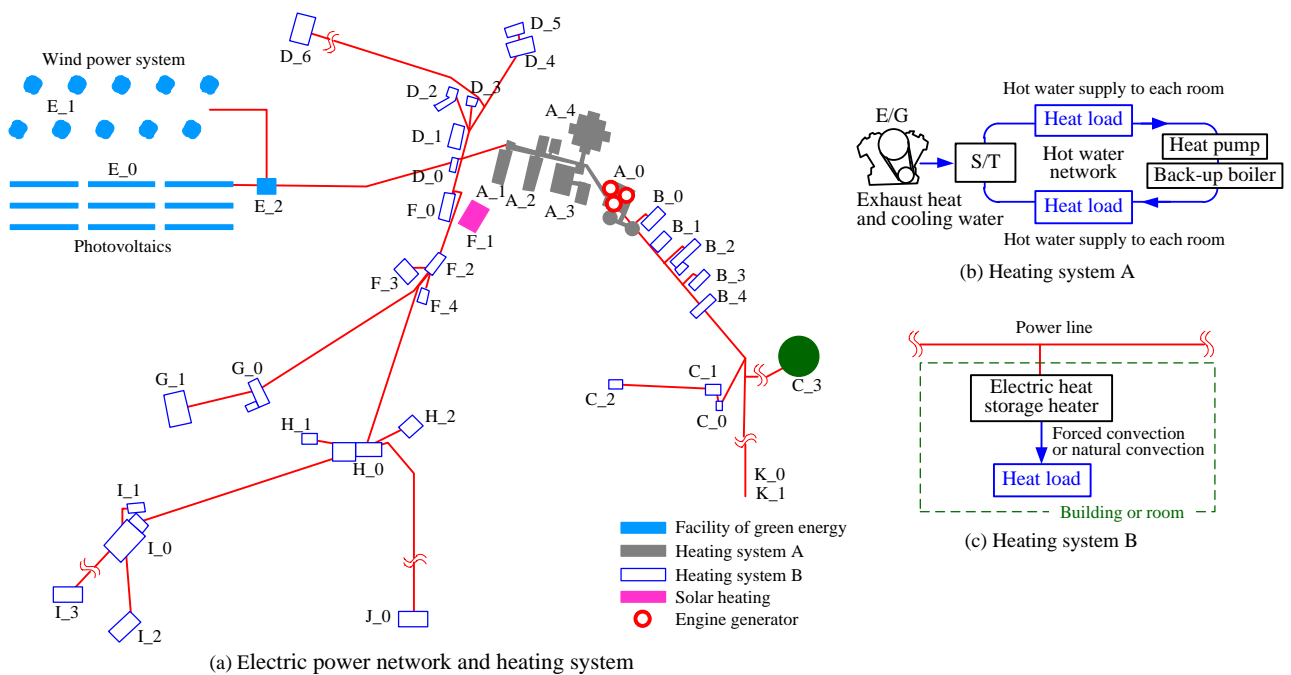


Fig. 2 Configurations of future proposal model of a distributed power network of Syowa station

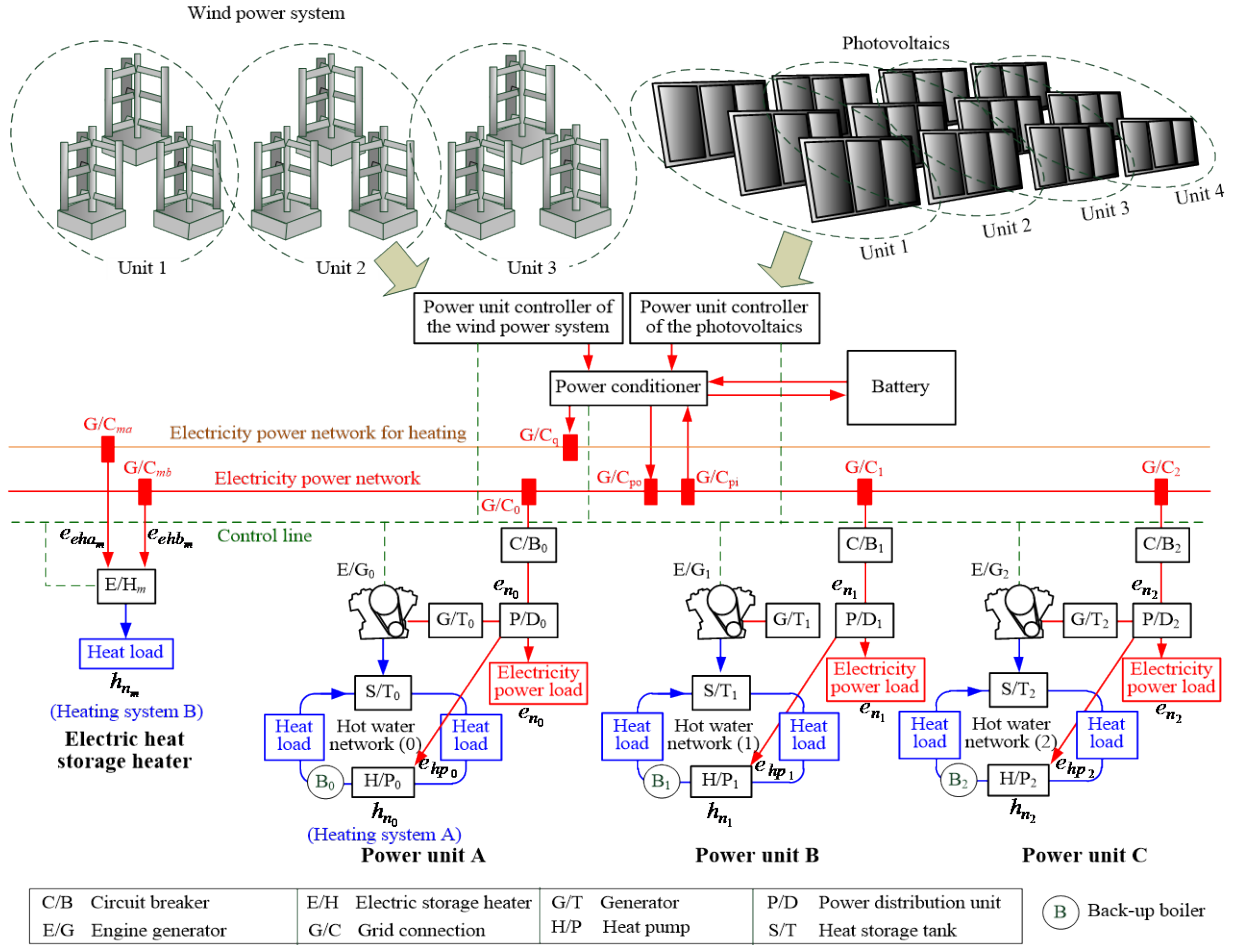


Fig. 7 The proposed microgrid

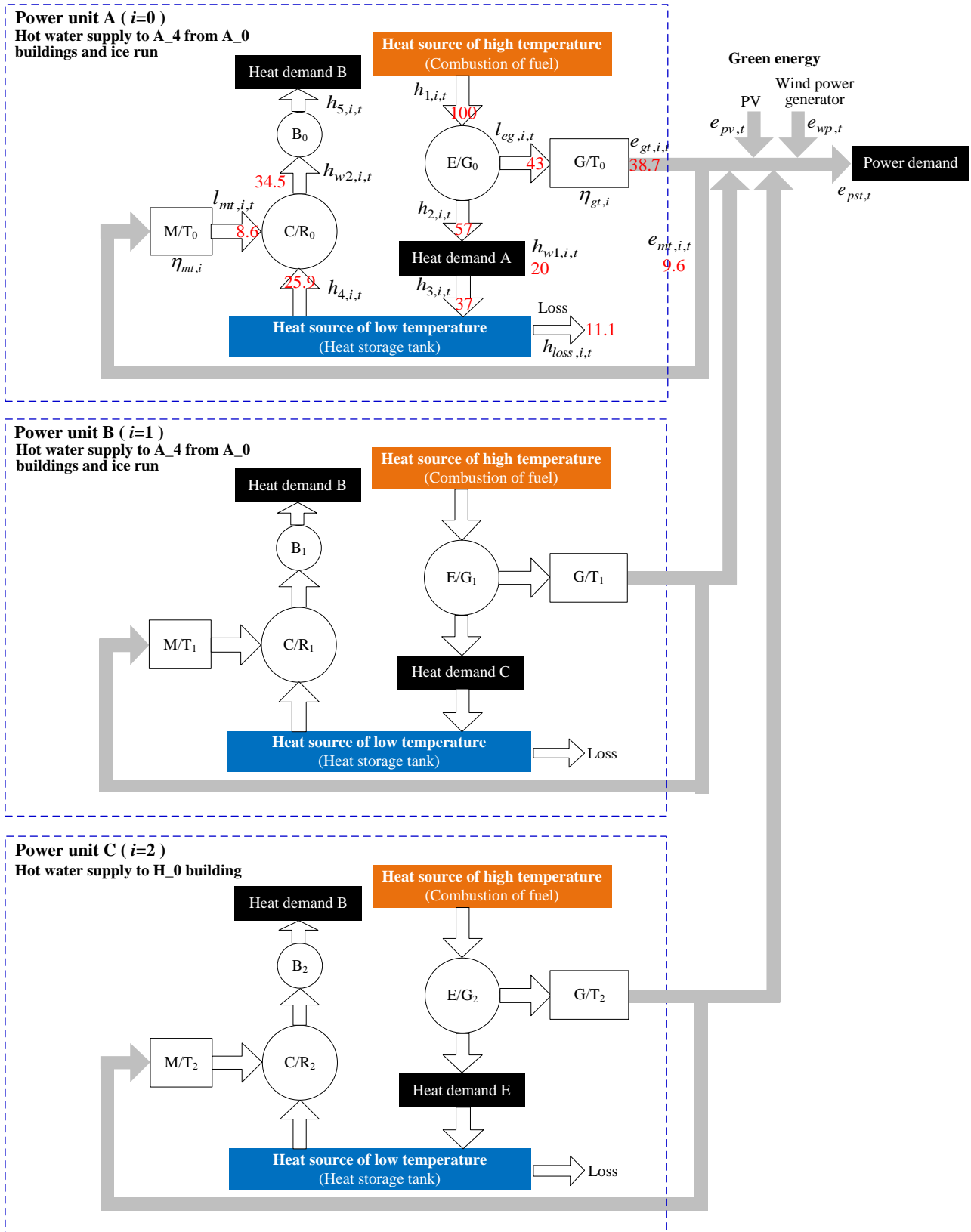


Fig. 9 Energy flow