

18.17 Application of Thermodynamic Principles

18.17.1

18.17.1

To power a hydroelectric system, two reservoirs having elevations that produce a constant pressure gradient. The water flows through a turbine, which converts the pressure gradient into mechanical work. The turbine is connected to a generator, which converts the mechanical work into electrical energy. The system is shown in the diagram below.

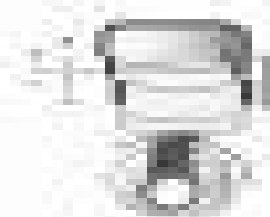


Diagram of a hydroelectric turbine and generator system.



Diagram of a hydroelectric turbine and generator system.

$$\Delta H = \Delta H_{\text{turbine}} + \Delta H_{\text{generator}} + \Delta H_{\text{loss}}$$

- (a) The total enthalpy change of the system is zero. The enthalpy change of the turbine is $\Delta H_{\text{turbine}} = -100 \text{ kJ}$. The enthalpy change of the generator is $\Delta H_{\text{generator}} = 100 \text{ kJ}$. The enthalpy change of the loss is $\Delta H_{\text{loss}} = 0 \text{ kJ}$.
- (b) The total enthalpy change of the system is zero. The enthalpy change of the turbine is $\Delta H_{\text{turbine}} = -100 \text{ kJ}$. The enthalpy change of the generator is $\Delta H_{\text{generator}} = 100 \text{ kJ}$. The enthalpy change of the loss is $\Delta H_{\text{loss}} = 0 \text{ kJ}$.
- (c) The total enthalpy change of the system is zero. The enthalpy change of the turbine is $\Delta H_{\text{turbine}} = -100 \text{ kJ}$. The enthalpy change of the generator is $\Delta H_{\text{generator}} = 100 \text{ kJ}$. The enthalpy change of the loss is $\Delta H_{\text{loss}} = 0 \text{ kJ}$.
- (d) The total enthalpy change of the system is zero. The enthalpy change of the turbine is $\Delta H_{\text{turbine}} = -100 \text{ kJ}$. The enthalpy change of the generator is $\Delta H_{\text{generator}} = 100 \text{ kJ}$. The enthalpy change of the loss is $\Delta H_{\text{loss}} = 0 \text{ kJ}$.
- (e) The total enthalpy change of the system is zero. The enthalpy change of the turbine is $\Delta H_{\text{turbine}} = -100 \text{ kJ}$. The enthalpy change of the generator is $\Delta H_{\text{generator}} = 100 \text{ kJ}$. The enthalpy change of the loss is $\Delta H_{\text{loss}} = 0 \text{ kJ}$.



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