

A Bit More about Capacity Factors

Physics and Mathematics of Sustainable Energy

College of the Atlantic. September 28, 2023

1. The Westbrook natural gas power plant has a nameplate capacity of 564 MW. In 2022 it generated 2,460,000 MWh of electricity. What was its capacity factor?
2. The Ellsworth Hydro Station has a nameplate capacity of 9 MW. In 2021, the plant's capacity factor was 0.33.
 - (a) How much electricity was generated?
 - (b) Would you say that the hydro plant contributed meaningfully to powering the town of Ellsworth?