

NYSERDA Heat Recovery Program

Sample Energy Flow Diagrams

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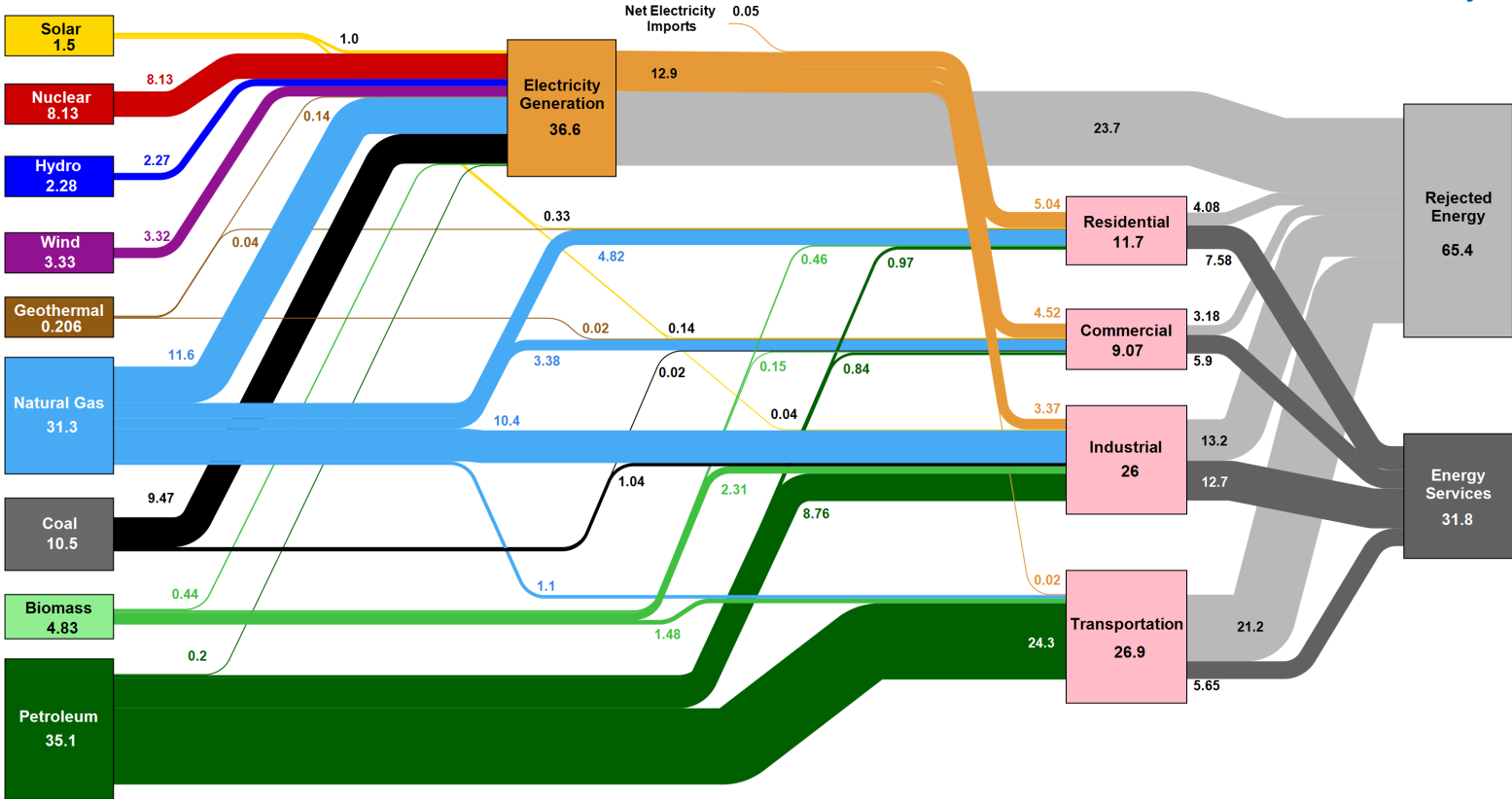


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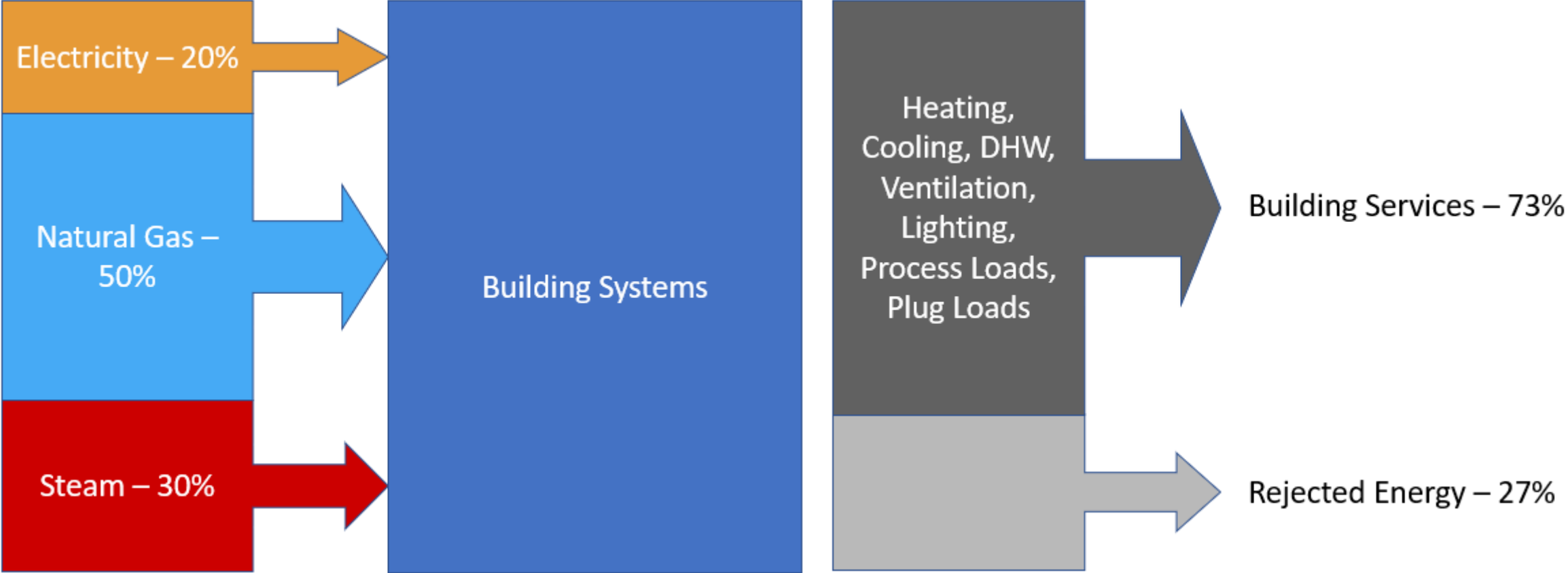
LLNL 2021 Energy Flow Chart for U.S. Energy Consumption in 2021

Estimated U.S. Energy Consumption in 2021: 97.3 Quads

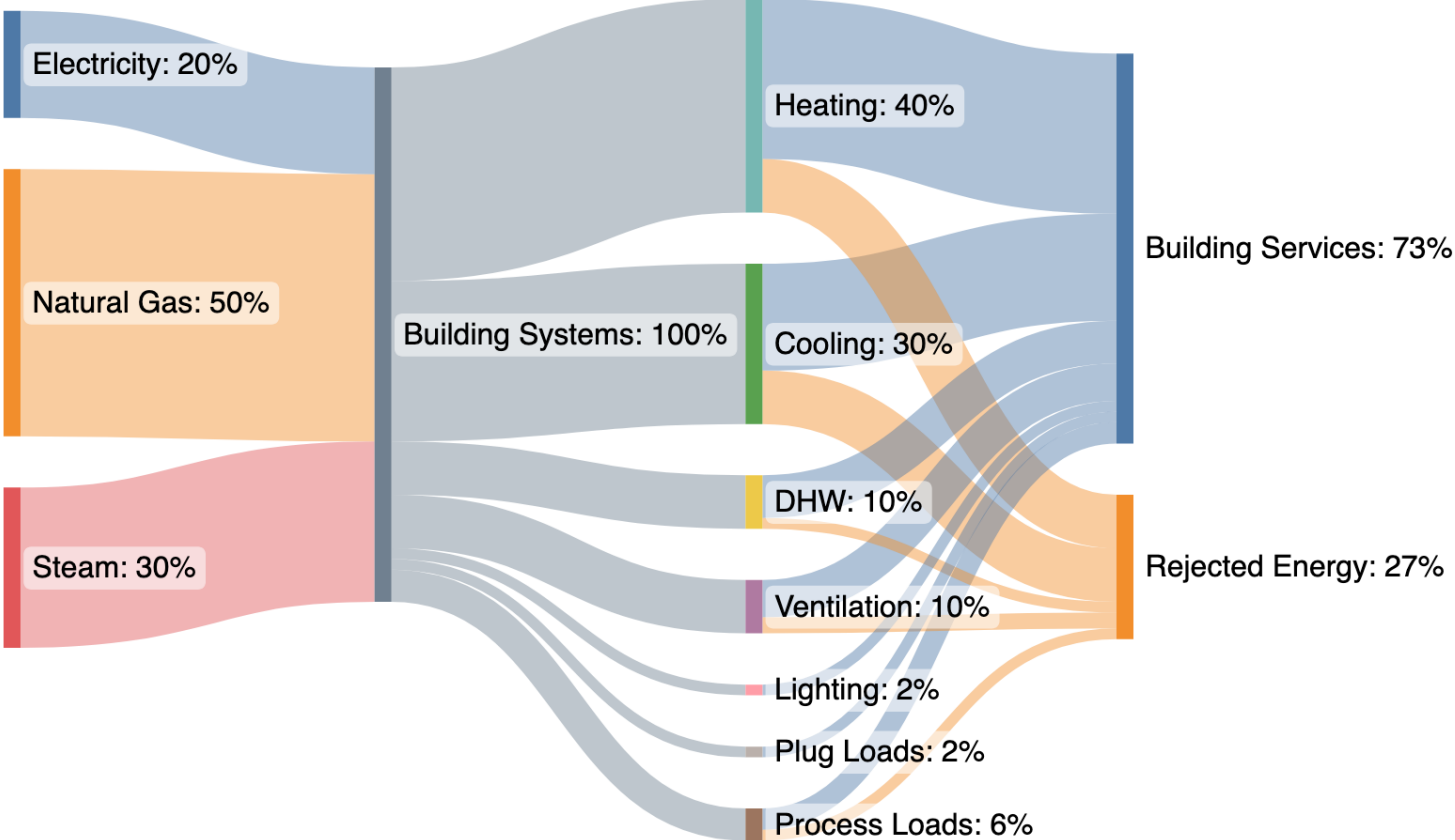


Source: LLNL March, 2022. Data is based on DOE/EIA MER (2021). If this information or a reproduction of it is used, credit must be given to the Lawrence Livermore National Laboratory and the Department of Energy, under whose auspices the work was performed. Distributed electricity represents only retail electricity sales and does not include self-generation. EIA reports consumption of renewable resources (i.e., hydro, wind, geothermal and solar) for electricity in BTU-equivalent values by assuming a typical fossil fuel plant heat rate. The efficiency of electricity production is calculated as the total retail electricity delivered divided by the primary energy input into electricity generation. End use efficiency is estimated as 65% for the residential sector, 65% for the commercial sector, 21% for the transportation sector and 49% for the industrial sector, which was updated in 2017 to reflect DOE's analysis of manufacturing. Totals may not equal sum of components due to independent rounding. LLNL-MI-410527

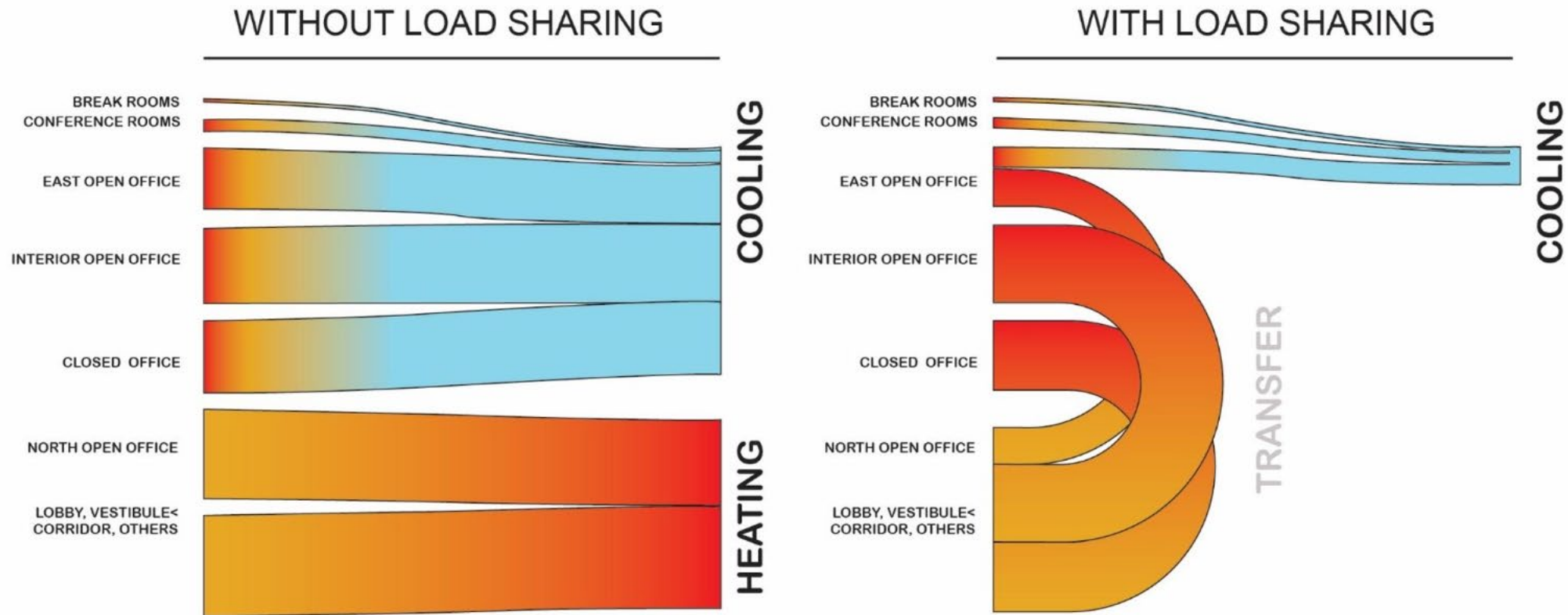
Sample Energy Flow Diagram for Reference



Sample Energy Flow Diagram for Reference



Hudson Square Properties 24-HR Thermal Load Flow Diagram shared in the Empire Building Challenge Playbook



<https://knowledge.nyserda.ny.gov/pages/viewpage.action?pageId=110723518>

**Let's work together to make
Heat Recovery a common
solution for building
decarbonization**

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