

 KEY WORD: OTTV / RTTV, MAJOR ARCHITECTURE, ENERGY CALCULATION, PRELIMINARY DESIGN, SIMPLE OUTPUT, DEFAULT INPUT
 SUPAT SRANLERT : THE DEVELOPMENT OF ENERGY CONSUMPTION ANALYSIS PROGRAM FROM THE USE OF
 OTTV AND RTTV INPUT DATA. THESIS ADVISER : DR. SOONTHORN BOONYATIKARN, 262 pp.
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The research goal, is to define the basis of programme development in analysing the energy consumption of the building, utilising the data calculations of the accumulated heat transfer from the buildings envelope. In addition, the forementioned data can be used for estimating the buildings energy usage, which will benefit the preliminary architectural design & usability.

In the process of this research, consideration of the advantages and disadvantages of data input and output methods is carefully monitored. The advantages are being implemented in the programme development, which is summarised in the following three points ; Data Input, Data Output Analysis, and Simplify & modify the output for use in the preliminary Design. The programme's out is conveyed in an easily comprehensible format.

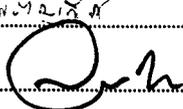
The final conclusion of the research can be summarised as follows ; A method to reduce or simplify the data input process by formatting the database according to building type and arrange all other data accordingly, for calculation., A preliminary analysis method estimating the usage of energy in single building zone., and, A method to simplify building design calculations by automatically highlighting erroneous data in building frame development. In this case, high heat transmission in the building envelope is shown and the data converted by the Bill Method, to a cost amount which is an obvious indicator to the buildings economic efficiency.

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