**Data Set Information:**

We perform energy analysis using 12 different building shapes simulated in Ecotect. The buildings differ with respect to the glazing area, the glazing area distribution, and the orientation, amongst other parameters. We simulate various settings as functions of the afore-mentioned characteristics to obtain 768 building shapes. The dataset comprises 768 samples and 8 features, aiming to predict two real valued responses. It can also be used as a multi-class classification problem if the response is rounded to the nearest integer.

**Attribute Information:**

The dataset contains eight attributes (or features, denoted by X1...X8) and two responses (or outcomes, denoted by y1 and y2). The aim is to use the eight features to predict each of the two responses.

Specifically:

X1 Relative Compactness

X2 Surface Area

X3 Wall Area

X4 Roof Area

X5 Overall Height

X6 Orientation

X7 Glazing Area

X8 Glazing Area Distribution

y1 Heating Load

y2 Cooling Load

y11 난방에너지 부하가 크면 ‘H’, 적으면 ‘L’

y21 냉방에너지 부하가 크면 ‘H’, 적으면 ‘L’