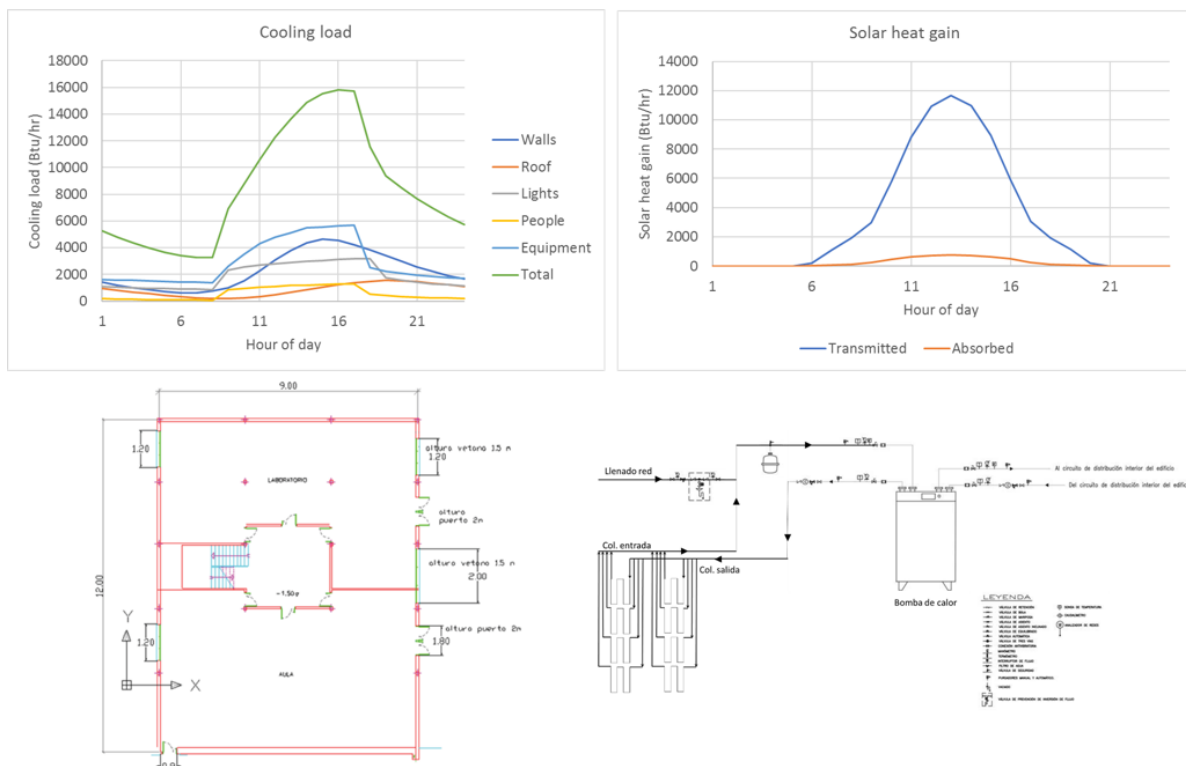


Base load calculation and dimensioning of a geothermal heat pump (Badalona; Spain)

Client: Own development

Keywords: Base load; geothermal; heat pumps



Summary: The base load is the minimum level of demand to be satisfied on an electrical grid over a span of time, for example, one year. It can be calculated under cooling or heating conditions provided by, e.g., a geothermal pump. Such pump is dimensioned according to the minimum power the building needs. The pump uses the earth as a heat source (in the winter) or a heat sink (in the summer). This design takes advantage of the moderate temperatures in the ground to boost efficiency and reduce the operational costs of heating and cooling systems.