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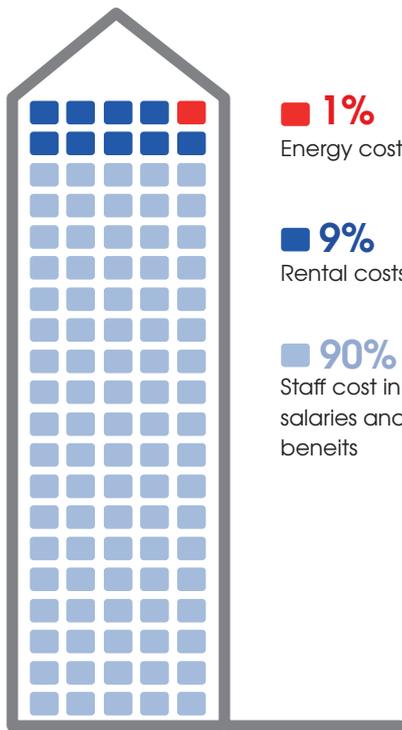
Sustainability strategy
it's the

development;
clever choice

Addressing the thermal environment

Health and Wellbeing of employees in the workplace.

It is now well documented (UK Green Building Council Report, September 2017) that thermal comfort within the office environment is essential for a happy, productive team of staff, which can be enhanced by providing control and adaptability to the occupants, and by addressing the thermal environment beyond just air temperature.



The energy consumed in the building may only be approximately 1% of the operating costs of the business with staff costs representing up to 90% of the cost model.

A 1% productivity gain through ensuring the building is supporting health and wellbeing of the staff could provide the business with a very significant gain indeed.

10% Variation

A 10% variation applied equally to each cost has a far from equal impact

+/- 0.1% +/- 0.9% +/- 9.0
Energy costs Rental costs Staff costs

UK Building Council Report September 2017

IN THIS ISSUE

THE THERMAL ENVIRONMENT

Thermal comfort is essential for a happy workforce.

VABI Elements Thermal modelling software can help with building performance.

VABI Elements software you can quickly create an accurate 3D model of your building and perform a Dynamic Simulation Modelling calculation.

Spotting opportunities for improvement such as when the building is overheated or overcooled.

Using Vabi Elements performance dashboard.

NEWSLETTER

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Thoughtful workplace design, supporting employee performance.

Not surprisingly, thoughtful workplace design can be a powerful tool for supporting employee performance. And a collateral benefit enhances employee health and wellbeing, it is all interrelated.

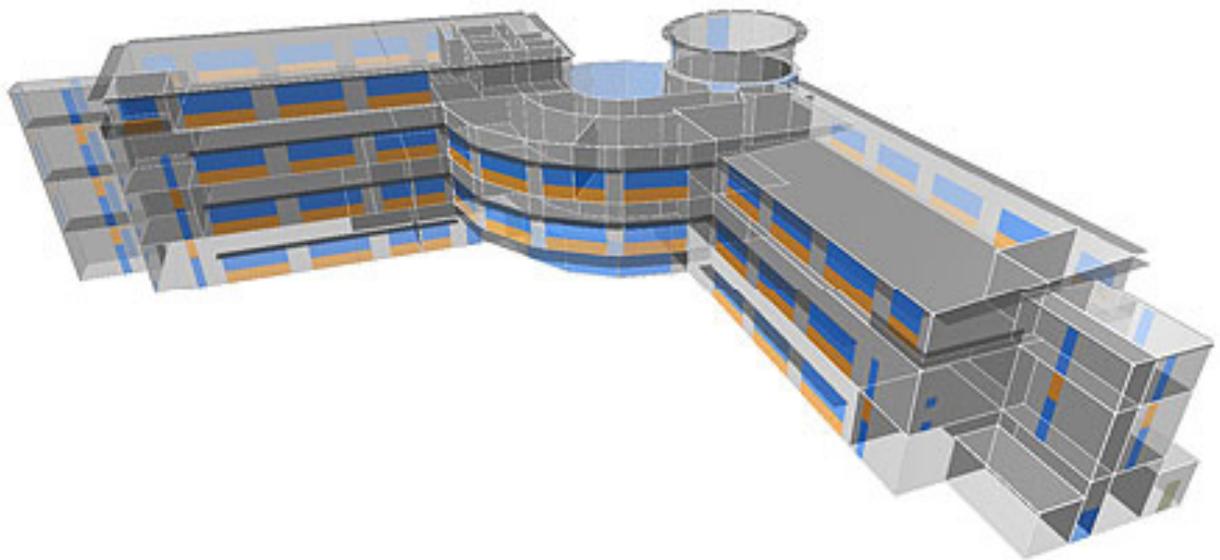
VABI Elements, our thermal modelling software can help with firstly understanding how well your building is performing or not. And secondly can help you make informed decisions on what aspects of the building should be improved and where any money should be spent on any improvements.

Thermal modelling software

With VABI Elements software you can quickly create an accurate 3D model of your building and perform a Dynamic Simulation Modelling calculation to assess your buildings energy performance and the thermal comfort levels of the indoor environment.

This is the starting point for improving the building envelope and the pathway to enhance the working environment. With VABI you can assess the whole building, a zone, or a specific room.

Once you have the “base model” you can then model possible improvements and re-run the simulation to understand what benefits such improvements would make.



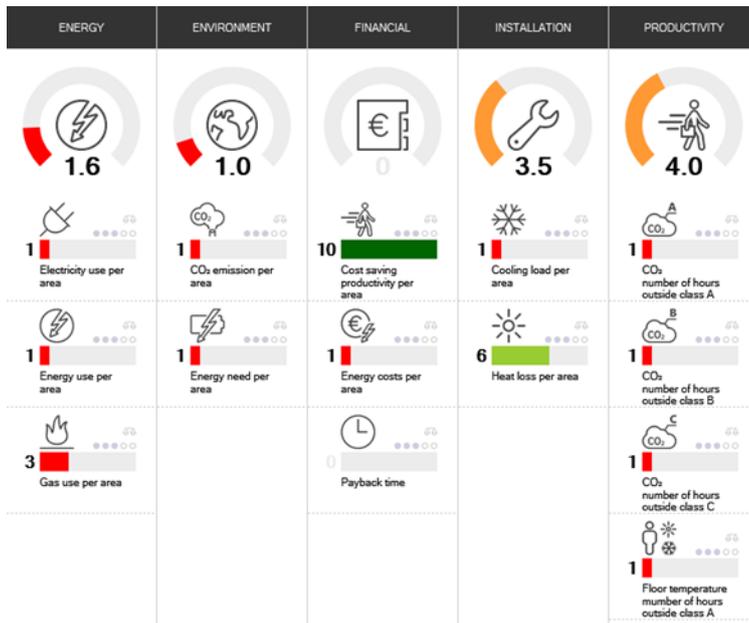
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Building performance indicators



With Vabi Elements we can target in use building performance, linked to the internal environmental air quality and to staff performance based on empirical evidence as presented by a series of studies conducted into enhanced building indoor environments with staff levels up to 350 people-Reference REHVA, position paper on indoor air quality, 2013 and Indoor Air Quality/staff productivity report, 2006.

If you are interested in how we can help, please get in touch.

Our thinking on the building ecosystem is:

- Value of productivity and health improvements should be included in the life cycle calculations
- People costs are significant, and in the same order of magnitude or higher than the energy cost of the buildings
- Most IEQ improvements are very cost effective when productivity and health benefits are included
- Qualitative data though is not adequate between IEQ and human responses-more quantitative data is still required
- But.....we are confident that such benefits can be attained
- Thought provoking part: REHVA studies show between 4-12% productivity gains can be attained, with an annual benefits of €0.9 to €2.6 million (350 employee building)

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