

/ SOMFY IS A WORLDWIDE ACTOR

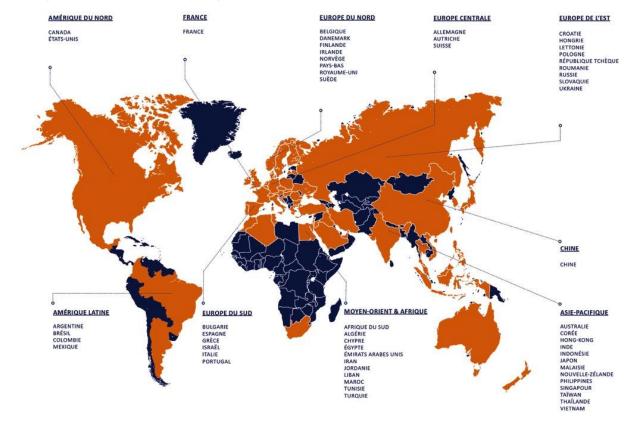
58

COUNTRIES

114

OSUBSIDIARIES

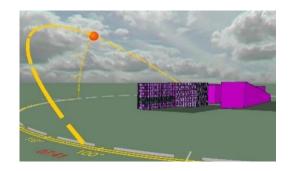
OAGENCIES & OFFICES

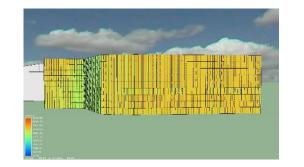


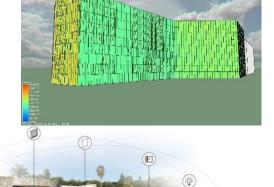


/ ENERGY EFFICIENCY, COMFORT AND WELL BEING

Somfy designs and develops automated management systems for solar protection, a form of "integrated intelligence" built into façades.







We propose equivalent solutions for houses and dwellings



/ STARTING POINT

Buildings are responsible for 40% of energy consumption and 36% of CO2 emissions in the EU

- Source BPIE -

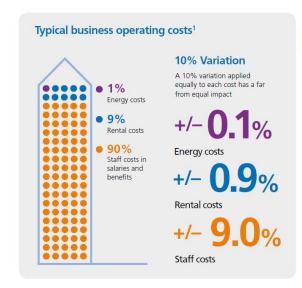


• 90% : employee wages and costs

• 9% : rental / loan costs

1%: energy related costs









/ A GLOBAL CONCERN





WHAT MAKES A HEALTHY & ENERGY EFFICIENT BUILDING?









People care about:

- Daylighting & nice outdoor views
- Thermal comfort
- Ventilation & Fresh Air quality













WHAT ARE THE BENEFITS FOR OCCUPANTS?

Several studies prove the benefits of healthy & energy efficient homes and buildings on occupants

1. INDOOR AIR QUALIT & VENTILATION



increase in cognitive scores for workers in a green, well-ventilated office.1

THERMAL COMFORT



fallin staff performance when offices are too hot

. NOISE & ACOUSTICS



fall in staff 66% performance distracting noise.4

BIOPHILIA & VIEWS



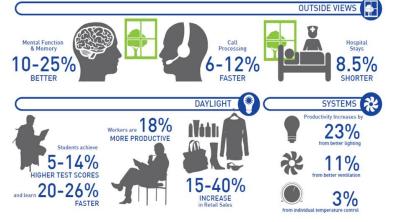
WHY? processing time at one a view of nature.6







more sleep for workers in offices near windows.3



World Green Building Council, 2013



/ MOTIVATIONS FOR RENOVATING A HOUSE



- Healthy Home Barometer

Nowadays, 50% of Europeans are only moderately or even less satisfied with their current home.

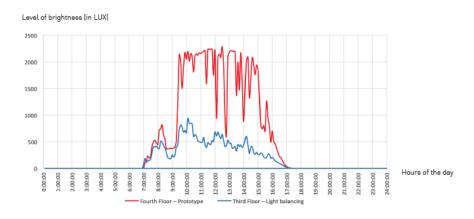
Home owners are motivated to renovate both to save energy expenses and to improve wellbeing.

Energy savings will be indirect benefits of a renovation improving wellbeing.

/ A DICHOTOMOUS EQUATION ?

Sunlight is a source of heat, which is helpful in winter when we heat our homes...





Source: IES study, impact on comfort and energy consumption in the ONIX demo building

... but there are also times when sunlight will feel too intense or warm, and can be a cause of discomfort and glare.



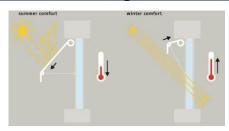
EXAMPLES OF WHAT WE DO TODAY...

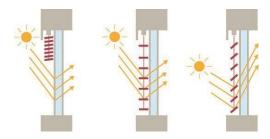
Stop heating while airing out



Window opening sensor prevents wasting energy while airing out

Natural heating & visual comfort



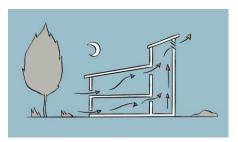


Automated blinds are used to manage natural heating and natural light



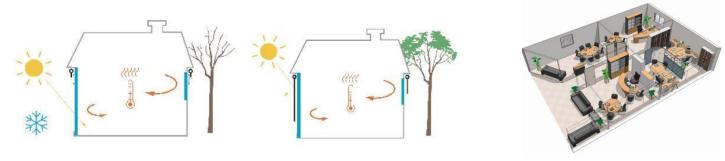
EXAMPLES OF WHAT WE DO TODAY...

Night cooling



Building is cooled down using motorized windows at night

Modulating heating profile according to occupant presence



Heating strategy depends on weather forecast, occupants presence habits...



/ ENERGY EFFICIENCY THROUGH BUILDING AUTOMATION & CONTROLS (BACS)

ONIX BUILDING EXPERIENCE (REGION HAUTS DE FRANCE) WITH AUTOMATED BLINDS

- 2000 m²/floor
- North/South/East Floor to ceiling Glass facade
- No solar protection
- Basic HVAC automation
- Thermal discomfort issues

2ND FLOOR Equiped for the test

«The right balance of **natural daylight** & **artificial lighting** is a key performance factor for comfort and efficiency»







3 acteurs au service de la rénovation énergétique des projets tertiaires

Serge Ferrari



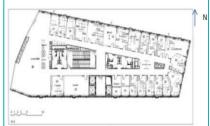
Results after 1 year:

-54% Energy saving on lighting -10% Energy saving for cooling & heating

-29% Total annual energy saving (









White paper Onix Building

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/ EXAMPLE OF WHAT WE DO TODAY



TaHoma

120 000 connected households /EU
1 300 000 connected objects
User satisfaction rate: 95%
80% of users use TaHoma every day





New countries launched, 2017

Middle East, China, Japan, Thailand ...



Rising importance of strategic partnerships and openness



WHAT DO WE NEED TO GO FURTHER?

Lack of awareness

Promotion on standard medias

Boost renovation programs in Europe

Financial incentives or fines are needed to boost healthy buildings programs

Technical solutions are on shelves

Interoperability across verticals is a must to maximize the dispositive efficiency

New buildings and homes

Healthy and wellbeing grade promotion



THANK YOU





Inadequate housing is an international issue. As a global company, Somfy wishes to bring its contribution to give access to proper housing to everyone in society.

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