



V CONGRESO EDIFICIOS INTELIGENTES

Madrid, 14 mayo 2019

ARQUITECTURA INTELIGENTE

Vicenç Salas

R&D Manager

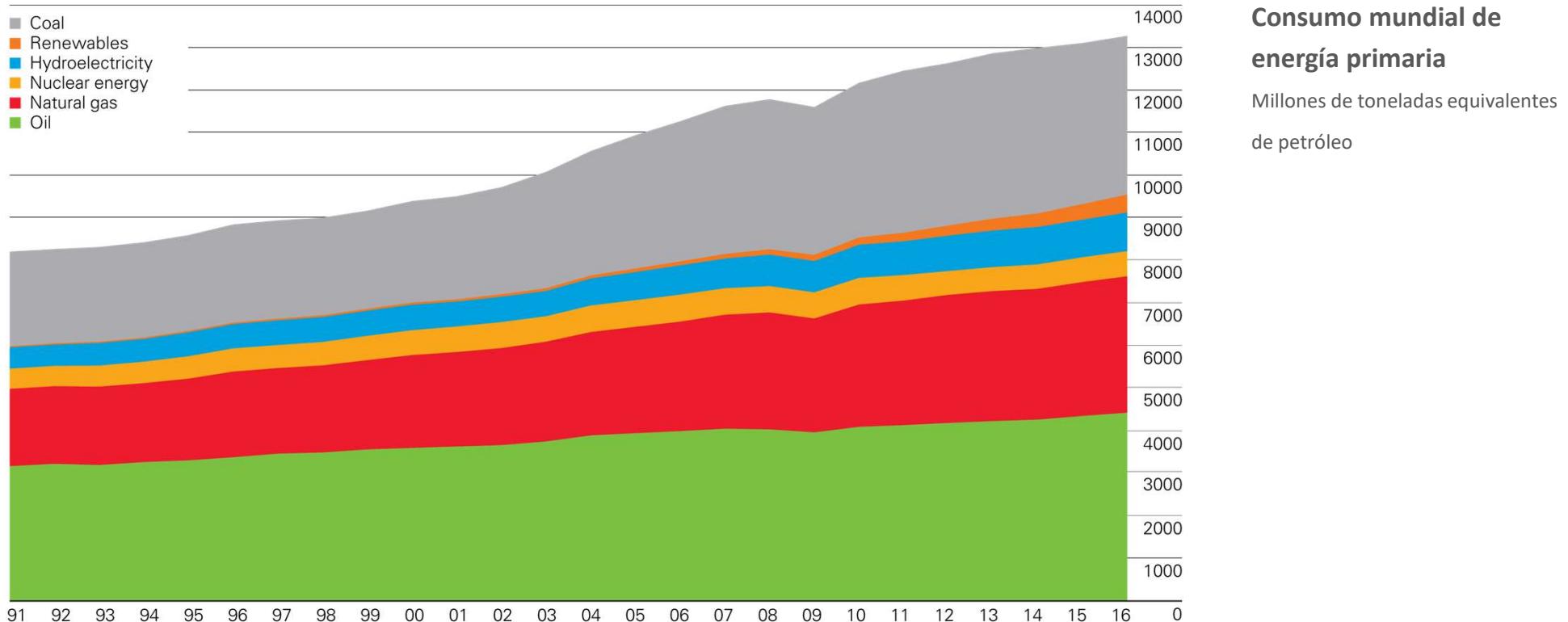
ROBOTBAS



GRUPOTECMARED

@CongresoEI / #CongresoEI5

VISIÓN GLOBAL



Fuente: BP Statistical Review of World Energy 2017



GRUPO TECMARED

2

VISIÓN GLOBAL

1.8%
anual

(de media en los últimos 10 años)

Fuente: BP Statistical Review of World Energy 2017



GRUPO TECMARED

¿QUÉ ES LA EFICIENCIA ENERGÉTICA?

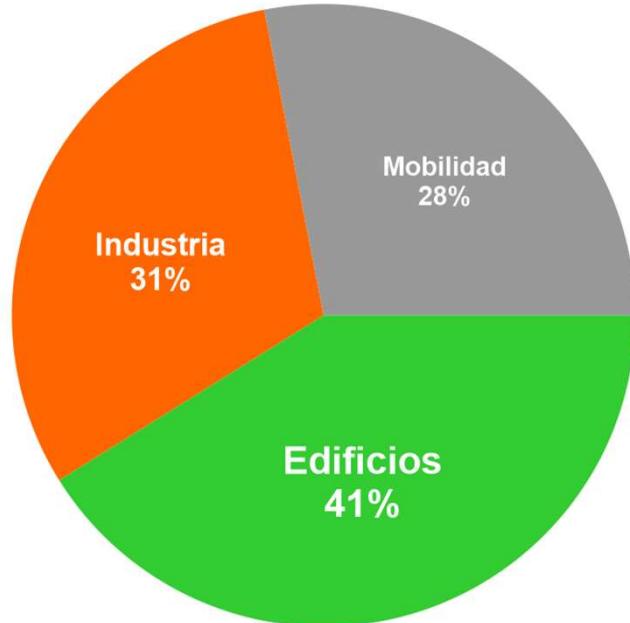
La eficiencia energética consiste en utilizar

MENOS ENERGÍA

para proporcionar un

MISMO SERVICIO

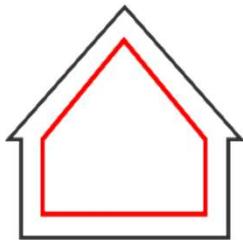
EL PAPEL QUE JUEGA EL EDIFICIO



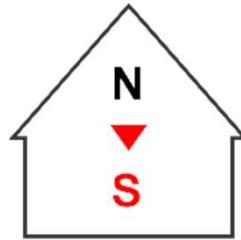
Estimación del Consumo de Energía en Europa en 2018 por Sector

Fuente: European Environment Agency

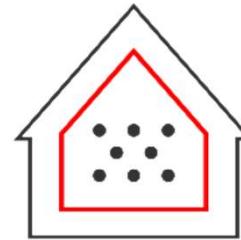
DISEÑO INTELIGENTE



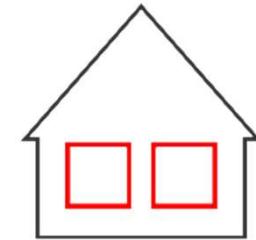
Aislamiento



Orientación



Hermetismo

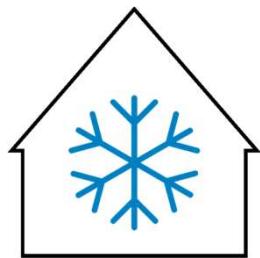


Ventanas

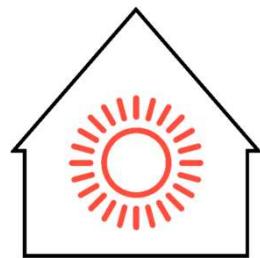


GRUPO TECMARED

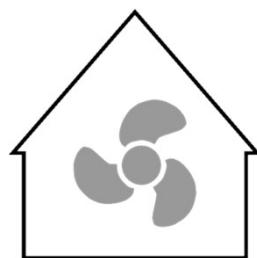
LAS INSTALACIONES



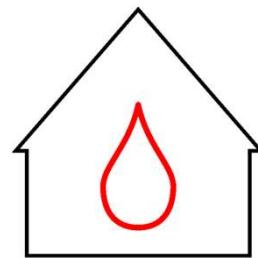
A/A



Calefacción



Ventilación



ACS



Iluminación

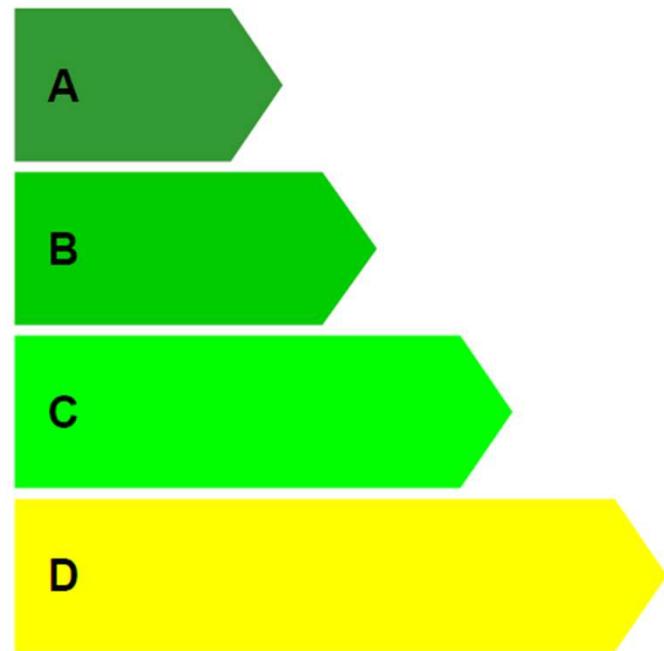
BUILDING AUTOMATION SYSTEMS

NORMA EN15232

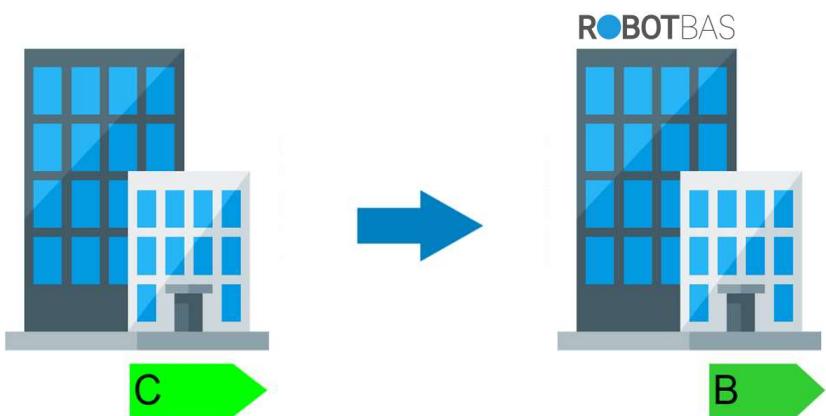
“Energy performance of buildings.
Impact of Building Automation, Control
and Building Management”

NORMA EN15232

Class	Energy efficiency
A	Corresponds to high energy performance BACS and TBM <ul style="list-style-type: none">• Networked room automation with automatic demand control• Scheduled maintenance• Energy monitoring• Sustainable energy optimization
B	Corresponds to advanced BACS and some specific TBM functions <ul style="list-style-type: none">• Networked room automation without automatic demand control• Energy monitoring
C	Corresponds to standard BACS <ul style="list-style-type: none">• Networked building automation of primary plants• No electronic room automation, thermostatic valves for radiators• No energy monitoring
D	Corresponds to non energy efficient BACS. Building with such systems shall be retrofitted. New buildings shall not be built with such systems <ul style="list-style-type: none">• Without networked building automation functions• No electronic room automation• No energy monitoring



IMPACTO EN EL CONSUMO ENERGÉTICO



Calefacción 133 kWh/m²

A/A 128 kWh/m²

C. Eléctrico 81 kWh/m²

106 kWh /m² ~20%

102 kWh /m² ~20%

76 kWh /m² ~ 7%

Edificio de tamaño medio

Dimensiones 70 m x 16 m de planta
y 5 plantas

Fuente: eu.bac

IMPACTO EN EL CONSUMO ENERGÉTICO

324.800 kWh

Equivalente al consumo de
32 VIVIENDAS en un año

Fuente: eu.bac

***“Todo es energía y eso
es todo lo que hay”***

-Albert Einstein-



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Madrid, 14 mayo 2019

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 **MULTILINK**



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13