UIB campus: adaptation & mitigation experiences

— the view from SMART UIB —

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SMART-what?
the origin story...
... & how

Sustainable

Multi-disciplinary/multi-stakeholder

Applied

Regenerative

Transformative
Etzkowitz & Leydesdorff (1996)
Public admin

Industry

Academia (eg UIB)

SMART UIB
we tackle climate change...

how?
1. buildings
2. campus
3. SMART park
1. buildings
then...

Ca ses Llúcies
Innovation Center
... and now
CO$_2$ sequestration
energy
2. campus
2021 zero emissions
resting on
4 main ideas
1. energy efficiency is a source of energy on its own
so!
let’s...

energy audit on campus
so we did

with a little help from our friends...
* Excluding contracted power costs (261,149€/any)

source: Balantia energy audit
Energy use

source: Balantia energy audit
PLAN SMART ENERGY UIB

ETAPA HACIA 0 EMISIONES

- 16% reducción demanda

3.416 Tn/año CO₂ equiv.

EMISIONES ACTUALES

Actual 2017/2018

2.865 Tn/año CO₂ equiv.

EMISIONES TRAS MAEs

JULIO 2019

Paso a 100% Suministro eléctrico de Origen Renovable

Remanente <200 Tn/año CO₂ equiv.

COMBUSTIBLES FÓSILES (6% /s CO₂ actual)

+20% de generación eléctrica renovable

HORIZONTE 2030

2023

2030
2. “all energy must become electricity”...
2. is WRONG
energy should be...

locally sourced with minimal processing

to maximise efficiency
Do in energy as in food!
NEVER WASTE generated energy
don't need it right now? (a) use it [for something else]
don't need it right now?

(b) store it
4. use devices within their optimal range
... but.
climate change challenges
S.M.A.R.T. 5 LINES OF ACTION

LINE 1 - PEOPLE
LINE 2 - ENERGY
LINE 3 - WATER
LINE 4 - ENVIRONMENT
LINE 5 - TERRITORY
strategy = a + b - c
strategy = a + b - c

develop & verify solutions that work and scale
use us!
strategy = a+b-c

Encourage uptake and adoption of solutions.
BRAINS + TECH + ETHICS

STORY + FEELING
a) people that invent solutions

b) people that deploy solutions
climate change is about people & the choices they make
S.M.A.R.T.

Line 1 - People
Line 2 - Energy
Line 3 - Water
Line 4 - Environment
Line 5 - Territory
strategy = a+b-c

bureaucracy, politics, parochialism...
The Future!
what do you choose?

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