ENERGY EFFICIENCY AS INFRASTRUCTURE INVESTMENT PRIORITY

SPECIAL ATTENTION TO FUEL POVERTY



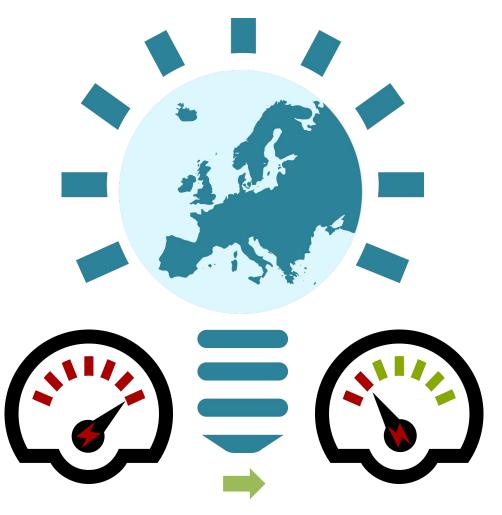
ADA ÁMON senior associate

ENERGY EFFICIENCY AS **INFRASTRUCTURE**

INVESTMENT PRIORITY



The energy efficiency gap doesn't exist because of the lack of effort or will, it exists because we have approached it from the wrong direction.

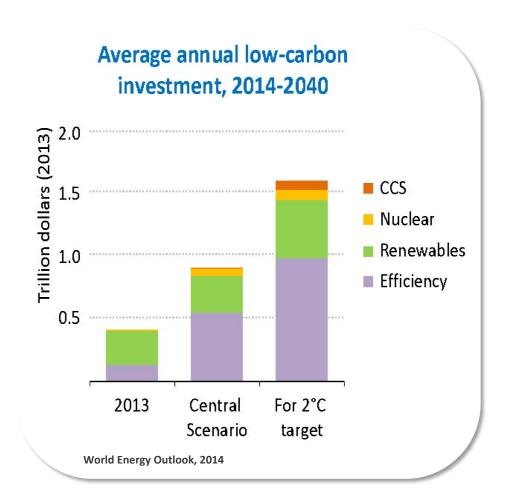


\$90 TRILLION IN

THE NEXT 25 YEARS







In order to keep global temperature increase below 2°C and avoid dangerous climate change, more than half of the global investment needed should be going into energy efficiency projects (IEA, 2014).

8-fold increase needed globally

WHY IS PUBLIC SUPPORT NEEDED

IF EE PAYS BACK?





Home owners do not have sufficient capital

Entry to the market problem

Economies of scale

Opportunity cost of capital

Bounded rationality

WHY?

BOUNDED RATIONALITY AND THE LIMIT OF PRIVATE INTEREST





Is EE A
PRIVATE
MATTER?

30 years long perspective

Locked in capital

Short term priorities

Complex issue to understand

Or rather should be state responsibility?

EFFICIENCY IS INFRASTRUCTURE



For three reasons:

- 1. DEFINITION
- 2. FUNCTION
 - 3. LOGIC

DEFINITION: ENERGY EFFICIENCY INVESTMENTS

ARE <u>INFRASTRUCTURE</u>





This is the textbook definition of infrastructure

FRONTIER
ECONOMICS'
STUDY FINDINGS

Long term capital investment

High up-front cost

Locked in physical structures

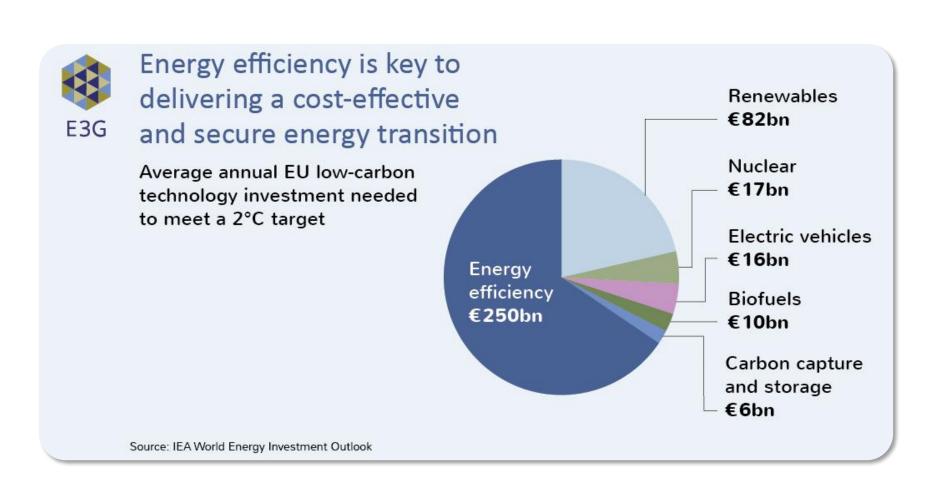
Fulfils basic social needs

Frees up resources for other use in the economy

FUNCTIONAL: LOW CARBON CAPITAL NEEDS IN EU





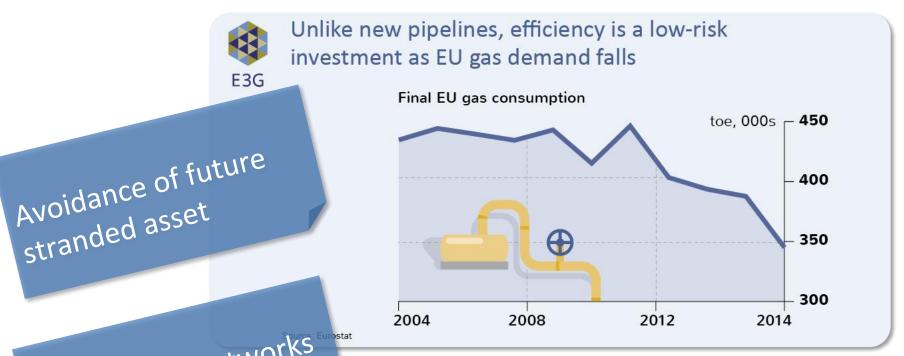


LOGICAL: PLANNING INFRASTRUCTURE





Declining Gas Demand



Strengthens networks and resilience

WHY IS **EE** CURRENTLY **NOT PART OF THE INFRASTRUCTURE DEBATE?**





POLITICAL
ATTITUDE
TOWARDS ENERGY
EFFICIENCY IN
G20 COUNTRIES

...so it doesn't get enough political support Everybody agrees it's important BUT

No strategic support and consideration around it

Infrastructure is a big issue, but...

Energy efficiency is not part of this debate

EE is complicated and would take to long to deliver

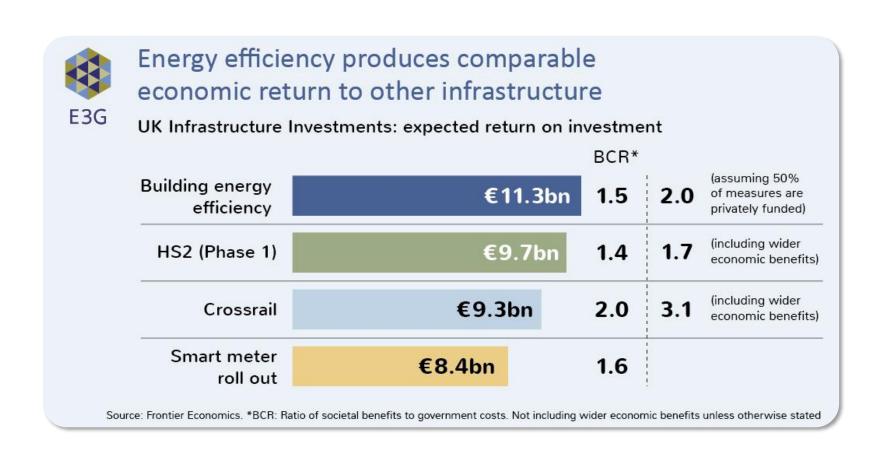
Or worried it would not deliver

VALUE OF EE INVESTMENT COMPARED TO

OTHER INFRASTRUCTURE PROJECTS







PRACTICAL IMPLICATIONS



Economic appraisal – level playing field

EUROSTAT accounting rules: debt versus asset

Better internal energy market

State Aid Treatment

BUDGETARY IMPLICATIONS:

OPEX TO CAPEX



Operational expenditure

Competing with socially sensitive state expenditure

Short-termist discussion

Add-on type programs

Victim of austerity policies

Capital investments

Competing with hardcore infra projects where it performs well

Long term vision

Continuous, predictable support schemes

Visible benefits: job creation, competitiveness, energy security, foreign balance

IMPLICATIONS ON FUEL POVERTY?



What if Energy Efficiency is considered part of the building infrastructure?

- Higher support will be given to EE investment?
- Higher quality social housing?
- ... ???

ENERGY EFFICIENCY IS INFRASTRUCTURE









ada.amon@e3g.org www.e3g.org

Our latest briefing

https://www.e3g.org/library/energy-efficiency-as-infrastructure-leaping-the-investment-gap