Fueling the Future with Energy Efficiency Estimating Potentials for Buildings

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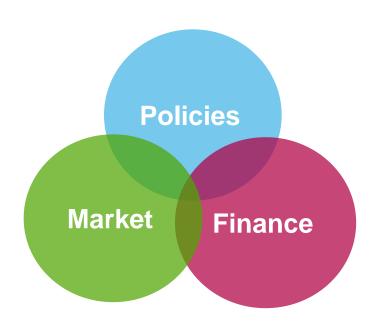


saves energy,
money and Carbon emissions,
while contributing to Energy security
and creating jobs.

Why Buildings matter

- Buildings are 40% of global energy demand
- ...and set to grow +60% by 2050
- Buildings are the target of most energy-related regulations
- Buildings are where people live, work and play
- ...but a very complex Value-chain.
- ➤ Potential for savings is huge: 1.8 Gt CO₂/yr by 2030
- >Yet savings are not materializing WHY?

Buildings need a new public-private platform



- Need for targeted market + policy + financing packages that make Energy Efficiency easy and attractive to implement
- Need for a strong feedback loop:
 measure progress and adapt if needed

- 1. Deploy the basics: energy performance audits, standards (kWh/m²/yr), benchmarks, energy services in general
- 2. Stable regulatory framework with positive and negative incentives on energy efficiency solutions deployment
- 3. Clear Return over Investment for the different actors of the value chain
- 4. Defined scope: geographical (city-wide, state-wide, etc.) and per building type/usage

A collective case for Active Energy Efficiency



Reduce energy needs in each room while optimizing comfort & activity conditions



Adapt to occupancy & activity



Optimize using multi-application control

Optimize energy supply/demand to serve stakeholders needs



Manage energy sources under network constraints

(Smart Grids)

Need to involve all stakeholders



Benefits to all stakeholders

Awareness, improvement, maintenance over time

Owner /
Real Estate



Better asset value

Operator



Easier to maintain

Energy Managers



Reduced energy bill

Occupants



Comfort & Efficiency

Make the most of your energyTM

