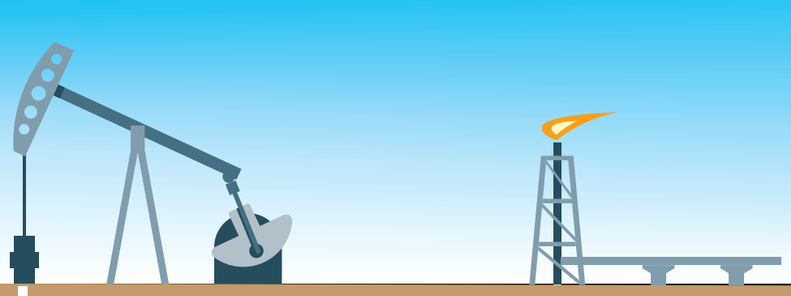
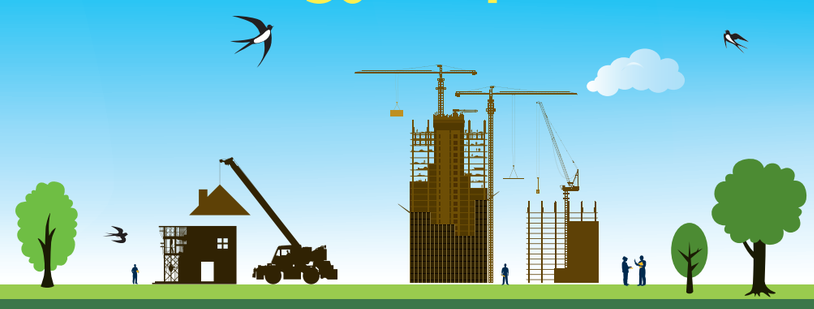
# REDUCING ENERGY DEMAND IN BUILDINGS

## The solution to reducing the EU's energy dependence



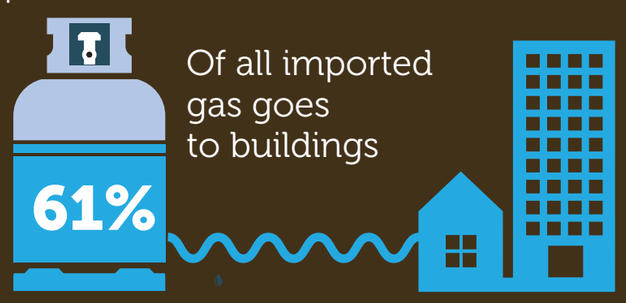


## THE PROBLEM

1 Europe's leaky buildings swallow 40% of all energy consumed in the EU, they are the largest energy consuming sector in the EU!


2 Buildings play a major role in EU's energy dependence

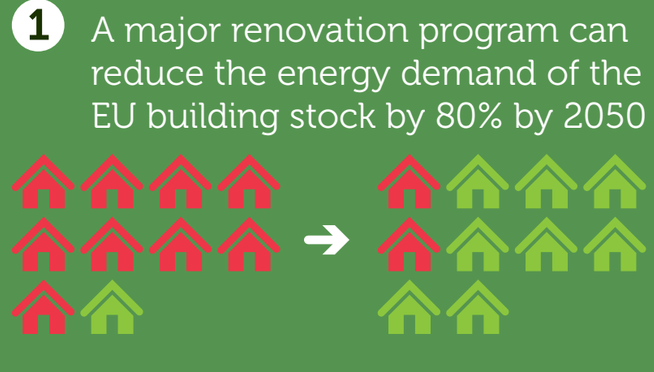
**37%** of the needs of the buildings sector rely on energy imports

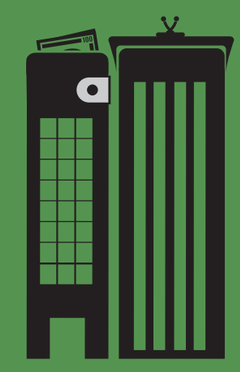



3 In 2012, EU Member States collectively spent €421bn on energy imports - that is €1.1bn a day, mostly wasted on inefficient buildings


## THE SOLUTION

1 A major renovation program can reduce the energy demand of the EU building stock by 80% by 2050





2 By acting decisively on buildings, the EU can easily reduce its vulnerability to energy imports

**2030: 60% REDUCTION POSSIBLE**

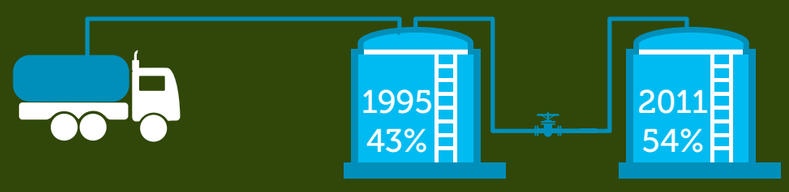
**2050: 100% REDUCTION POSSIBLE**

3 An amount of less than a quarter of what EU Member States currently spend on energy imports would be sufficient to roll-out a deep renovation program in the EU

**100 bn RENOVATION COSTS** = **ONLY A QUARTER OF IMPORT COSTS**

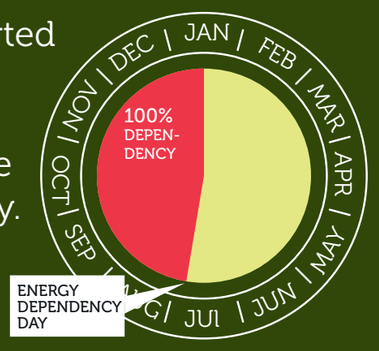
## Did you know? European Energy Dependence Day

With each year that passes, the EU imports more and more of its primary energy

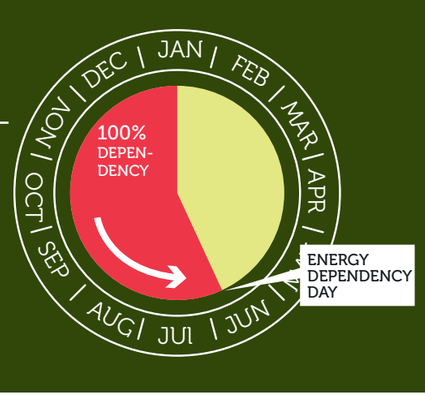



European Energy Dependence Day is the day in the year when the EU becomes entirely dependent on foreign imports

When the EU imported 43% of its energy in 1995, European Energy Dependence Day fell on 26th July.




When imports rose to 54% in 2011, largely due to increased energy use in buildings, European Energy Dependence day fell 38 days earlier: on 18th June.




If the EU were to capture the full energy savings potential in the buildings sector with a binding 40% Energy Efficiency Target, European Energy Dependence day could be pushed back as late as 12th October


## Sources


Deep renovation of buildings - An effective way to decrease Europe's energy import dependency, Ecofys Study (2014)
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Address to Informal Ministerial in Athens, Adrian Joyce – EuroACE (May 2014) www.euroace.org
Financing Mechanisms for Europe's Buildings Renovation, Peter Sweatman (2012)


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