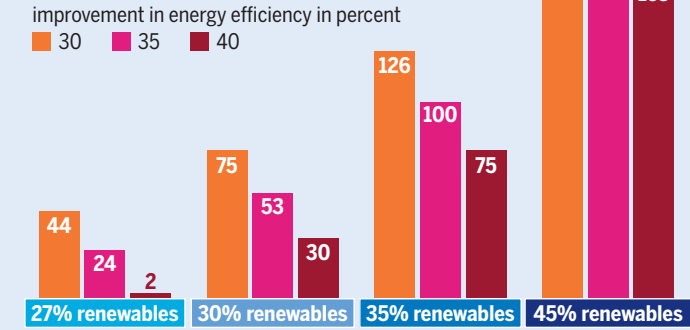


# THE HIDDEN HELPER OF THE ENERGY TRANSITION

Predictions for three levels of energy efficiency and four levels of renewables, European Union

New renewable generation capacity required, 2020–2030, in million tonnes of oil equivalent (mtoe)



Higher energy efficiency enables higher renewable shares as it helps to reduce generation capacities needed. With 45 percent renewables and 30 percent better efficiency by 2030, 229 mtoe in new renewable capacity would be required. With 40 percent improvement, only 163 mtoe extra is needed. For comparison, in 2010–20 the EU will add about 80 mtoe in extra renewable capacity.

Potential shares of renewables in national consumption in 2030 for four levels of renewable energy

Countries with over a 1.5 percent share of total EU consumption in 2015

