Energy efficiency

Lukáš Lehotský Masaryk University, Brno

What is energy efficiency?

Why energy efficiency?



EE has impacts on multiple levels





Rebound effect/Jevons paradox

EE/ES vs. Environmental policies

How to assess impact of EE/ES policies?



Source: European Environment Agency



Source: European Environment Agency

Energy intensity

Energy intensity 2015 – unadjusted



Final energy intensity 2015 – adjusted



Source: Author, ODYSSEE-MURE data

Energy intensity 2015 – unadjusted



Source: Author, Eurostat data indicator tsdec360

Final energy intensity 2012 - adjusted





Source: European Environment Agency



Source: IEA Energy Efficiency Indicators: Essentials for Policy Making

Disaggregation



Source: IEA World Energy Outlook 2017

Policy measures

What are technical/investment measures?

Financial instruments

Energy obligation schemes (White certificates)

Energy services

Energy services - logic





Regulations

Other instruments