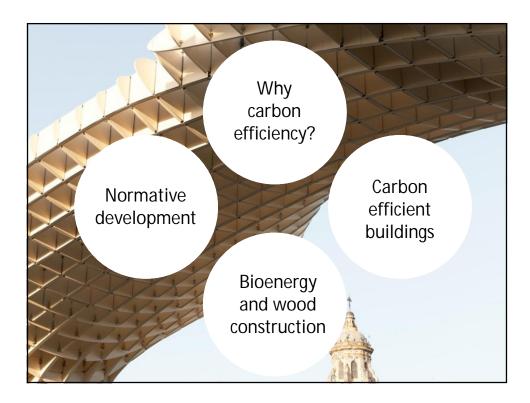
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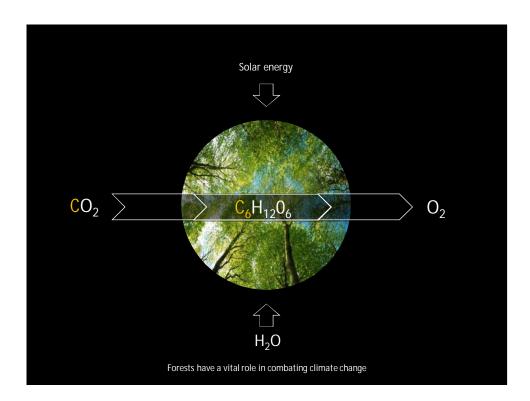


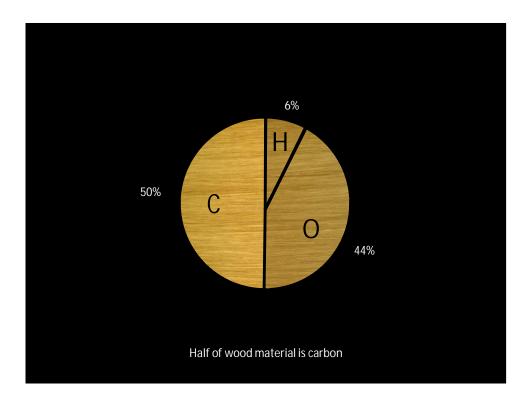
Wood in carbon efficient construction

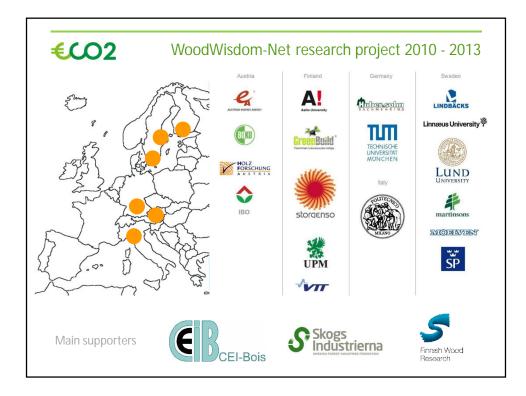
Environmental Committee of the Estonian Parliament 26 March 2014

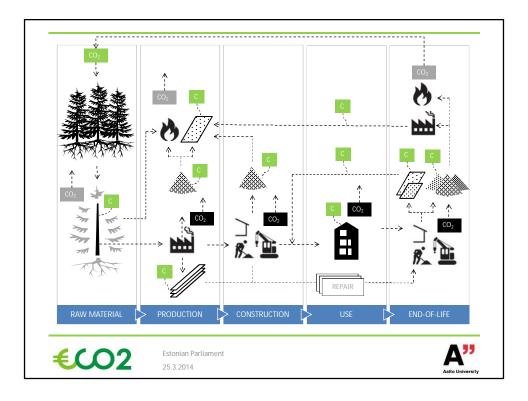
Matti Kuittinen Architect, researchei Aalto University

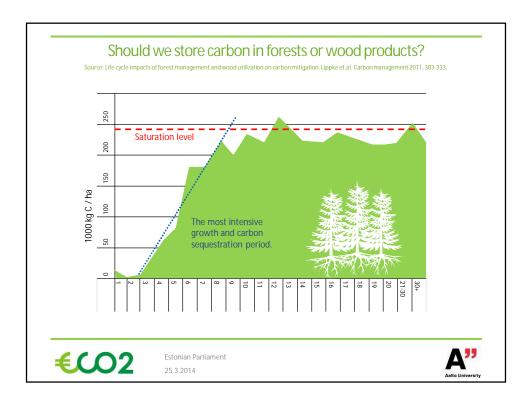


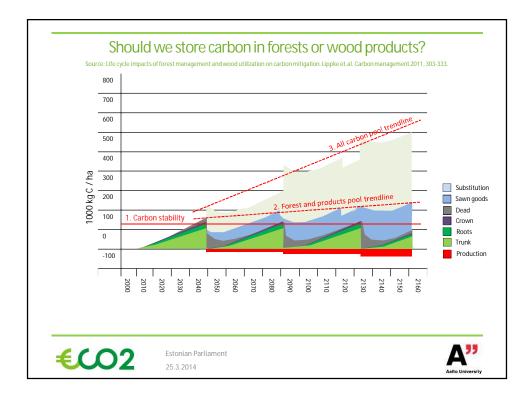


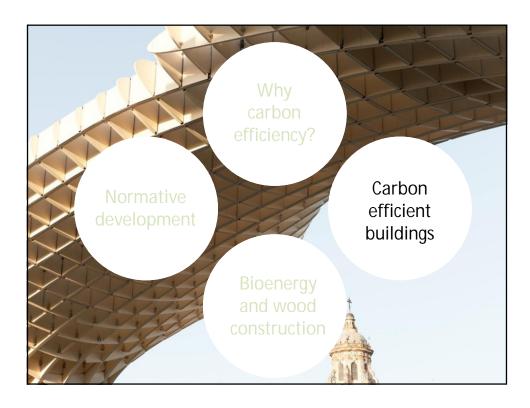




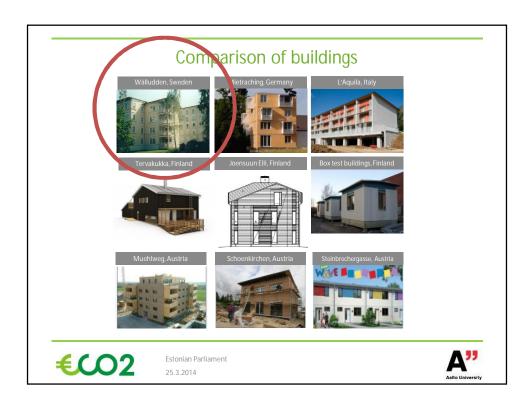


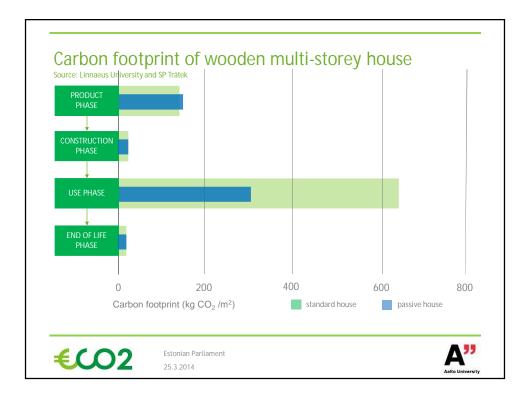




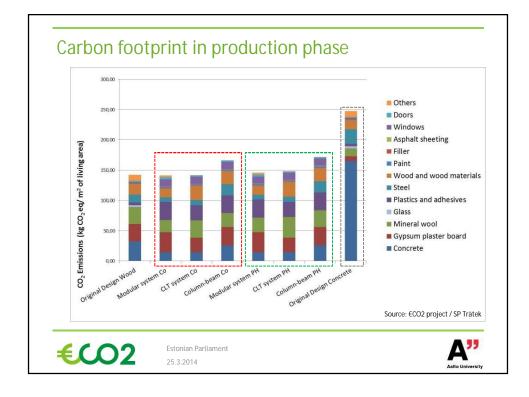


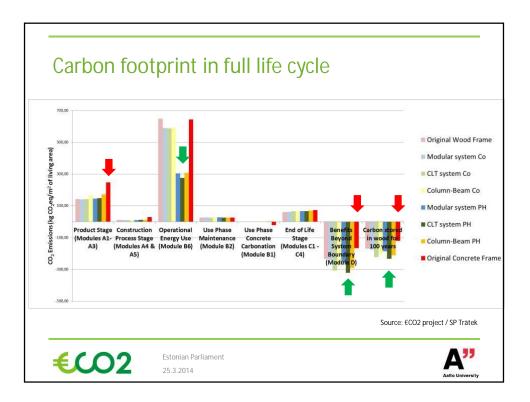


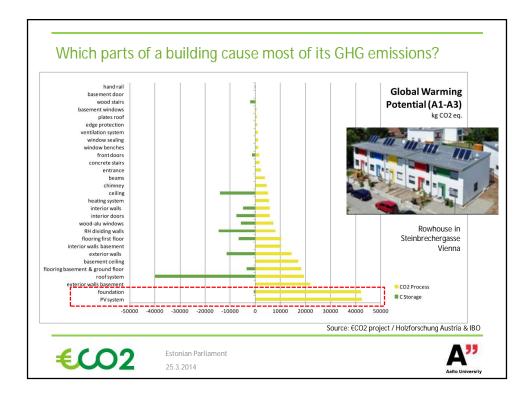


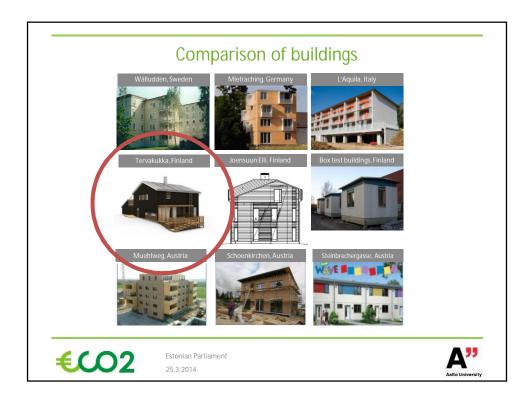




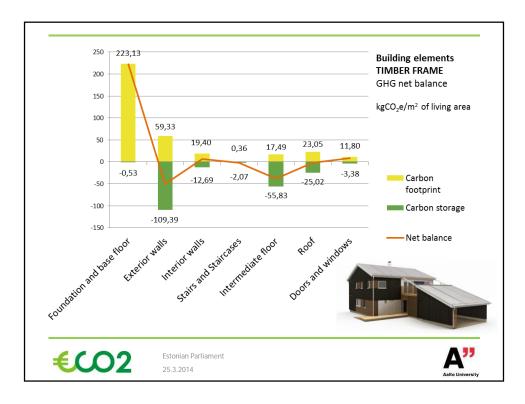


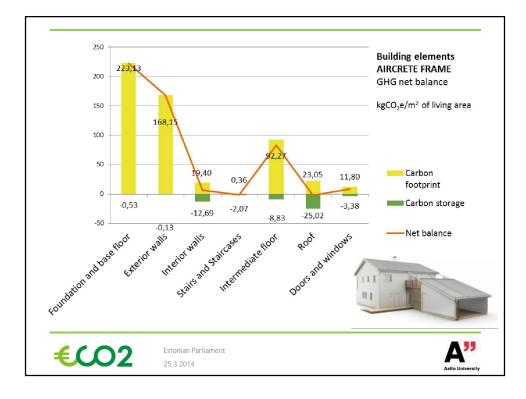


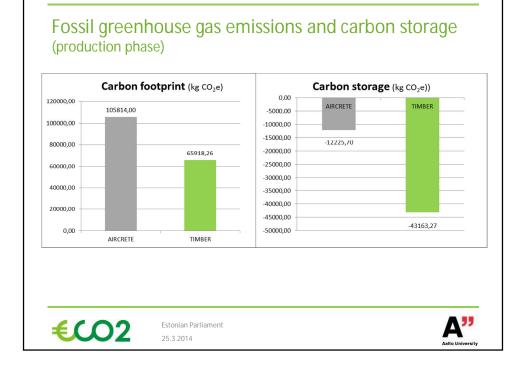


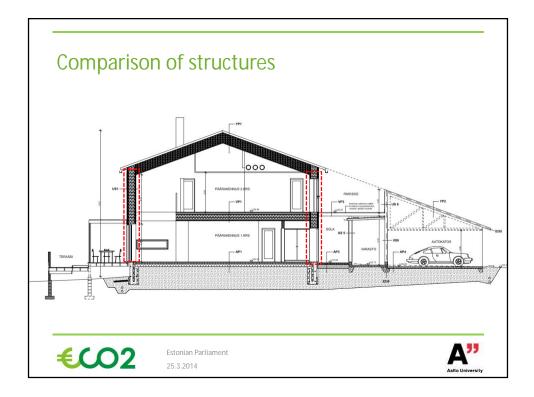


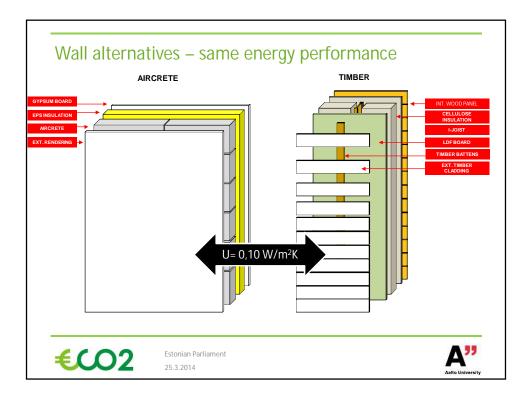


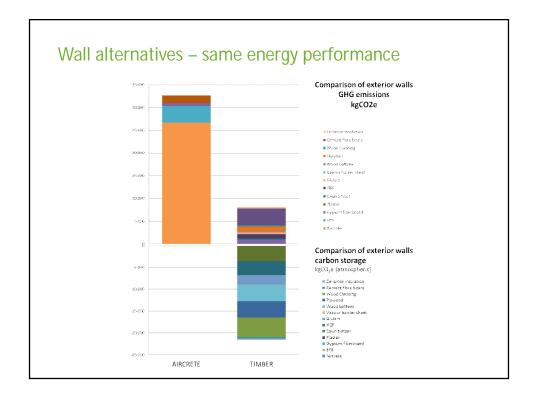


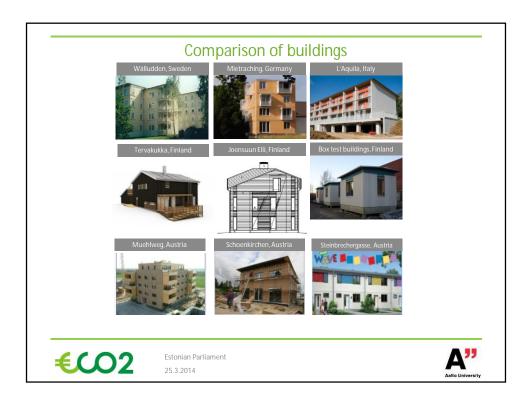


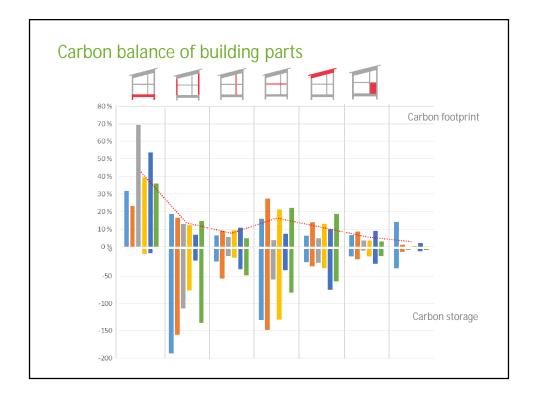


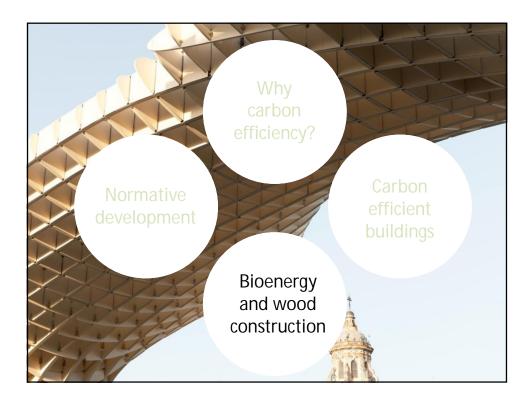


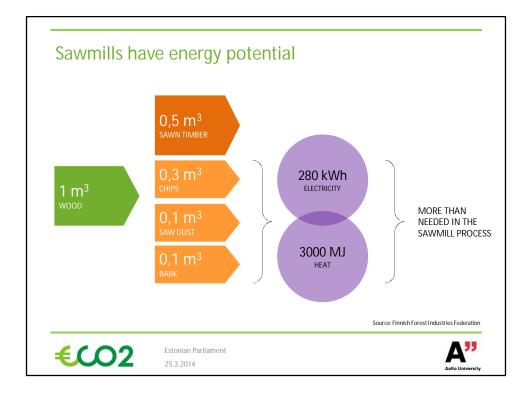


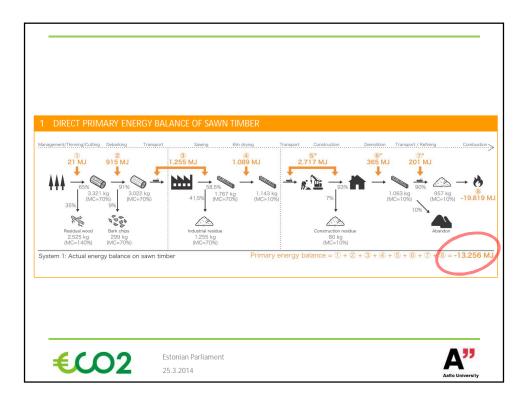


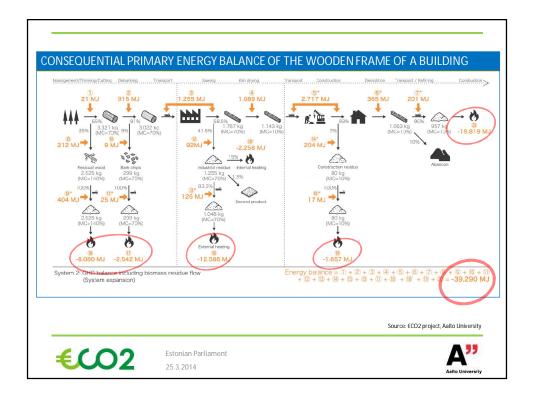


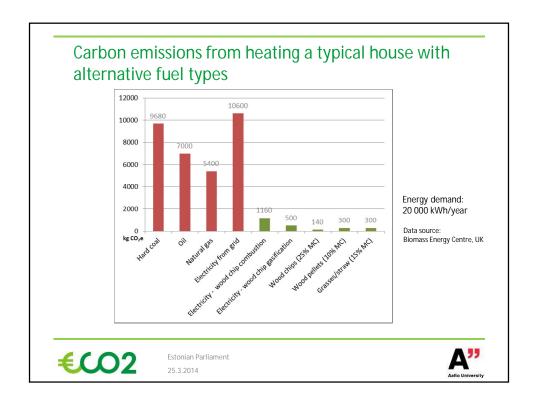


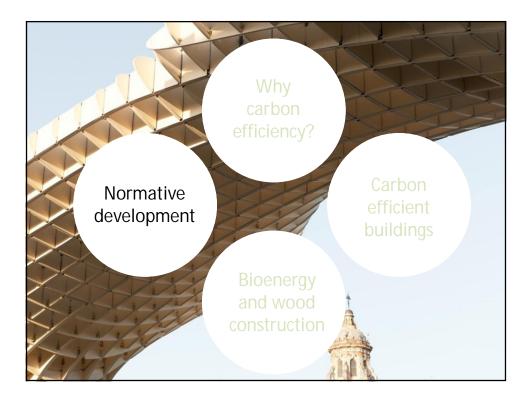


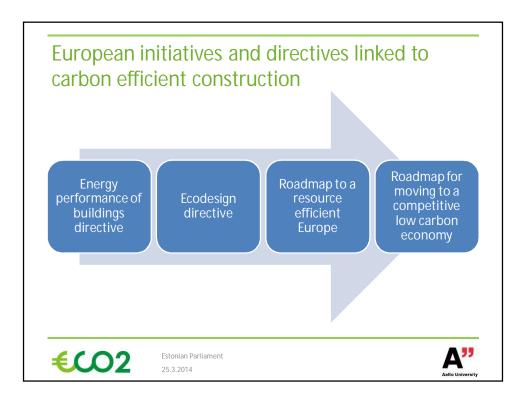










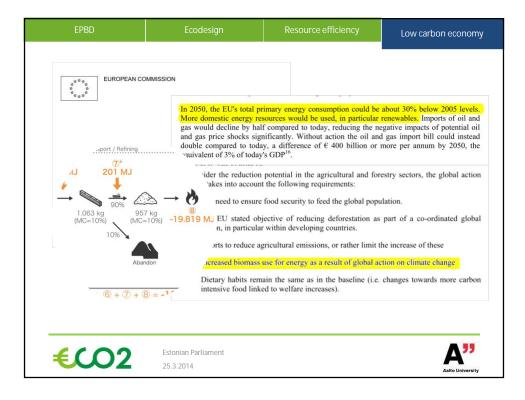






EPBD	Ecodesign	Resource efficiency	Low carbon efficiency
Analysis associated with the Road Pa Accompanyin COMMUNICATION FROM THE C PARLIANEXT, THE COUNCIL, THE CONSMITTEE AND THE Roadmap to a Reso (COM(201	where the introduction knowledge by architects a	the AIRCRETE	
€02	Estonian Parliament 25.3.2014		Asito University

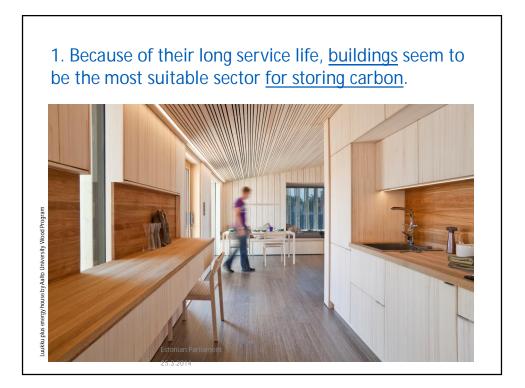
EPBD	Ecodesign	Resource efficiency	Low carbon economy	
european commiss ^{φ φ φ} ^φ φ _{φ φ} φ ^φ	 6. CONCLUSIONS The Commission's detailed analysis of cost-effective ways of reducing greenhouse gas emissions by 2050 has produced a number of important findings. In order to be in line with the 80 to 95% overall GHG reduction objective by 2050, the Roadmap indicates that a cost effective and gradual transition would require a 40% domestic reduction of greenhouse gas emissions compared to 1990 as a milestone for 2030, and 80% 			
TO THE EUROPEAN PARLIANTE ECONOMIC AND SOCIAL COMMI REC A Readmap for moving to a com (SECCO) (SECCO)	for 2050. Building on wha	thas already been achieved, the EU nove in this direction and the second	eeds to start working now on	
	Estonian Parliament 25.3.2014		Asito University	











2. Focusing only on energy efficiency is not enough. The <u>carbon footprint of construction materials</u> should also be taken into account.





4. Wood-based construction materials may help to <u>achieve several policy goals</u> of resource efficiency, ecodesign directive and low carbon economy.

ider the reduction potential in the agricultural and forestry s takes into account the following requirements: The need to ensure food security to feed the global population		In order to be in line with the 80 to 95% overall GHG reduction objective by 2050, the Roadmap indicates that a cost effective and gradual transition would require a 40% domestic freduction of greenhouse gas emissions compared to 1990 as a milestone for 2030, and 80%		
fforts to reduce agricultural emis	Energy-related products the consumption of nat Community, They als important environmenta	tural resources and en- to have a number	ergy in the of other	n achieved, the EU needs to start working now on tion, and all Member States should soon develop dy done. The Commission is prepared to provide able knowledge of full life-evele impacts can come from cree
Dietary habits remain the same a ntensive food linked to welfare in	of product categories available on the Community market, very different degrees of environmental impact can be noted though they provide similar functional performances. In the interest of sustainable development, continuous improvement in the overall environmental impact of those products should be encouraged, notably by identifying the major sources of negative envi- ronmental impacts and avoiding transfer of pollution,			and knowledge of thui inte-cycle impacts can come from free logies for life-cycle impacts (or environmental loopinit) d research. This can be used for consumer information, supply e d policy. ducts or services with lower life-cycle impacts can be incre to labelling and marketing that, in practice, help consumers che 1 that issues of frust and image are often more influential ter diffusion of scientific research into drivers of consumer ch hs. Other options to increase market rewards for these prot
In 2050, the EU's total primary energy consur More domestic energy resources would be us gas would decline by half compared to today, and gas price shocks significantly. Without a double compared to today, a difference of € equivalent of 3% of today's GDP ¹⁶ .	ed, in particular renewable , reducing the negative im action the oil-and gas imp	% below 2005 levels. es. Imports of oil and upacts of potential oil ort bill could instead	effectively buy commercial ma Setting minimu integrated polic	s. scycle considerations into public procurement can increase ma lovation. Joint public and private procurement can be used to innovations that would not otherwise be able to break quickly rkets. umder the Eco-Design Directive – can boost diffusion and ma arce efficient products, by removing the least resource efficient

