

Webinar: Of pipes and pylons

RGI training and exchange for NGOs, 4 March 2020 Jörg Mühlenhoff, Energy Scenarios Policy Coordinator





	"National Trends Scenario" (NT)	"Global Ambition Scenario" (GA)	"Distributed Energy Scenario" (DE)
Coal and oil	Moderate reduction of coal and fossil oil by 2040	Coal phase out by 2040, fossil oil by 2045	Coal phase out by 2040, fossil oil by 2045
Fossil gas	Low reduction of fossil gas	Moderate reduction of fossil gas	Fossil gas phase- out by 2045 (but use for hydrogen with CCS)
Nuclear	Moderate reduction of nuclear	Moderate reduction of nuclear	Moderate reduction of nuclear



Generation capacities of coal in different EU28 scenarios (MW)



Gas demand (fossil gas, biomethane, synthetic methane, hydrogen) in EU28 scenarios (TWh)





	"National Trends Scenario" (NT)	"Global Ambition Scenario" (GA)	"Distributed Energy Scenario" (DE)
Wind energy	540 GW capacity in 2040	590 GW capacity in 2040 + 90 GW capacity for hydrogen production	629 GW capacity in 2040 + 230 GW capacity for hydrogen production
Solar PV	12% electricity share in 2030, 14% in 2040	10% electricity share in 2030, 12% in 2040	13% electricity share in 2030, 17% in 2040
Biomass	Low growth of biomass	Moderate growth of biomass, ca. 750 TWh biomethane 2050	High growth of biomass, ca. 1,000 TWh biomethane 2050



Infrastructure is more than pipes & pylons



















Thank you for your attention! joerg@caneurope.org

























How the EU plans its energy infrastructure



Regulation on conditions for access to the network for cross-border exchanges in electricity (714/2009), 13 July 2009, articles 8 (10), (11). Regulation on guidelines for trans-European energy infrastructure (347/2013), 17 April 2013. Regulation establishing the Connecting Europe Facility (1316/2013), 11 December 2013.



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