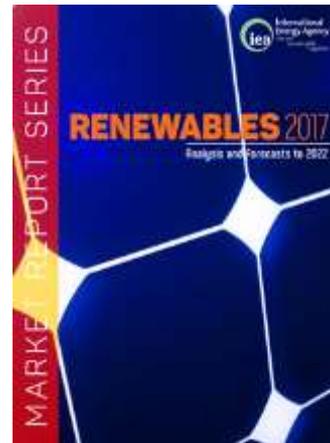


IEA Bioenergy Roadmap – launched yesterday!



www.iea.org/publications/freepublications/publication/technology-roadmap-on-bioenergy.html

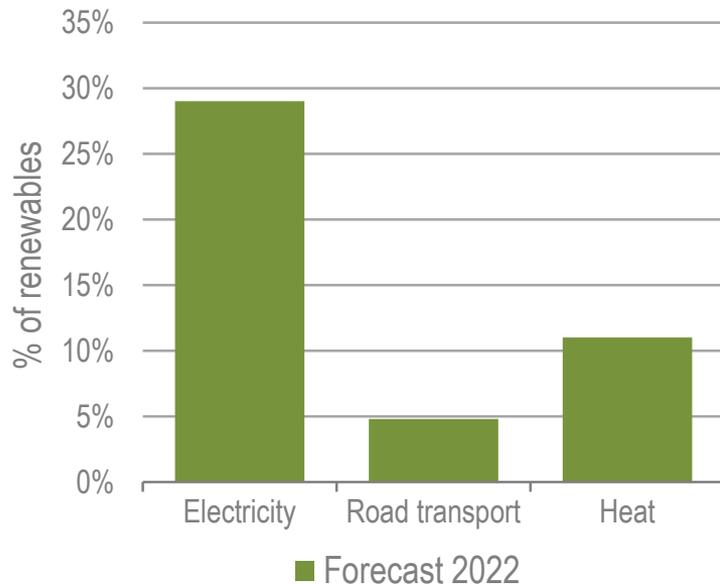


Global bioenergy and biofuel market forecasts to 2022 from the *Renewables 2017* market report

Ottawa, 28th November 2017

Electricity leads the way in terms of integrating renewables

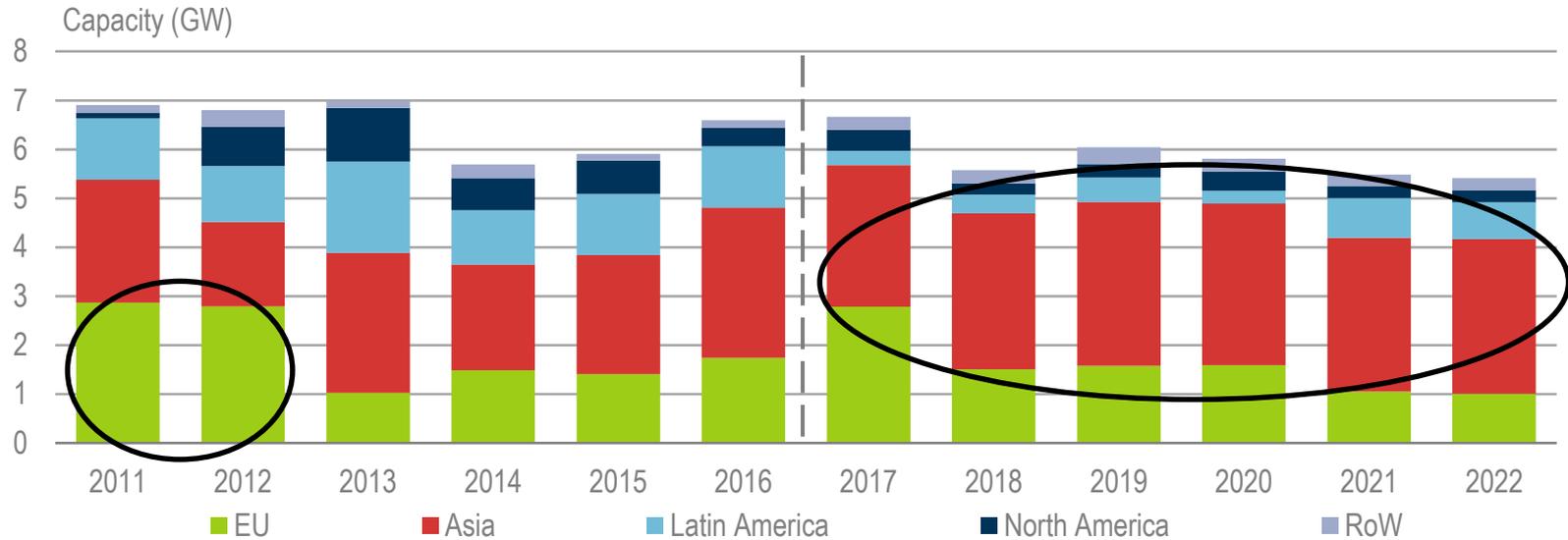
Global share of renewables in in each sector (left) and contribution of bioenergy and other renewables, both 2022



Renewables share of global power generation is forecast to increase to 29% in 2022. While bioenergy is one of a portfolio of contributors to renewable electricity, it leads the way in terms of renewable transport and heat.

Global bioenergy electricity capacity additions relatively stable

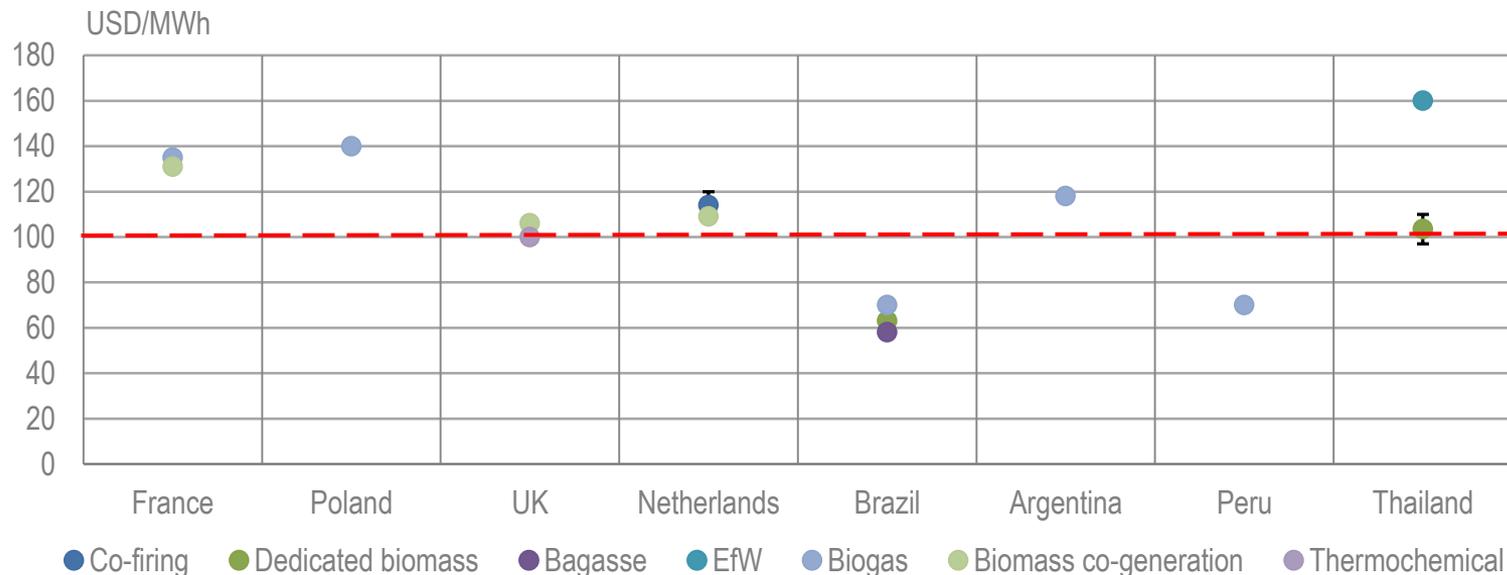
Gross annual bioenergy electricity capacity additions by region 2011-22



An acceleration of bioenergy deployment over the forecast period is not anticipated. While Europe has led deployment historically, Asia is forecast to drive growth in the forecast.

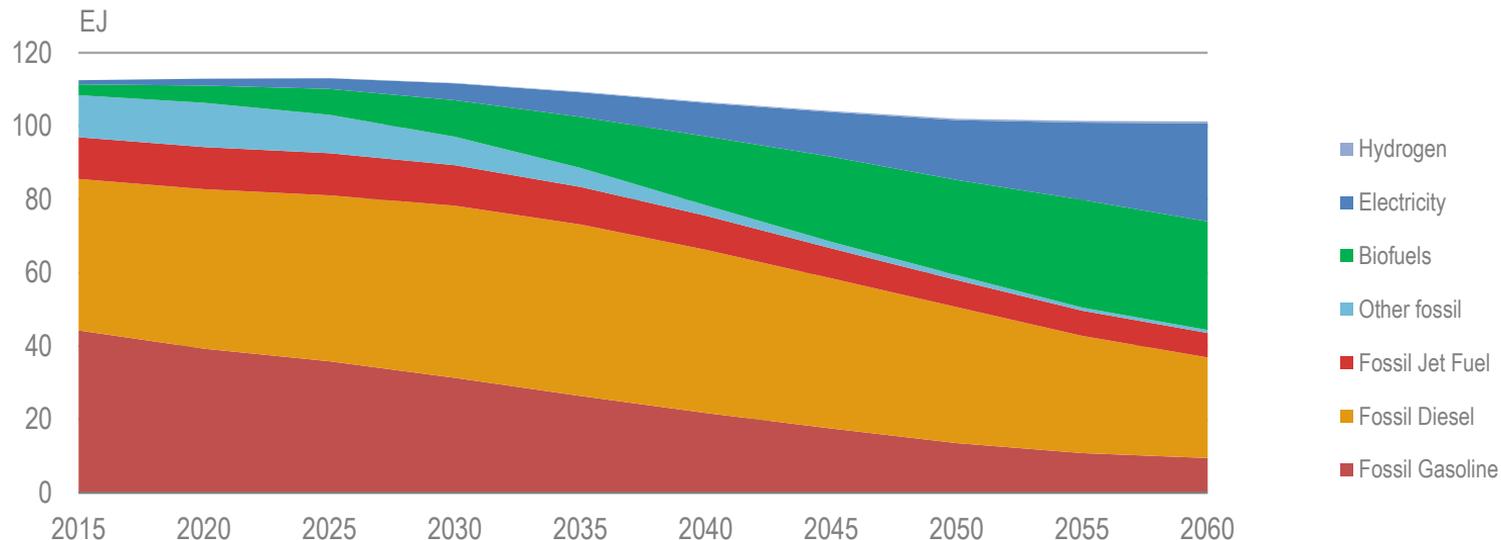
Auction design crucial to biomass deployment prospects

Awarded auction price by bioenergy technology, auctions held over 2016-17



Contracts awarded for bioenergy are generally \geq \$100/MWh, except for in South America. Higher generation costs need to be viewed in the context of biomass dispatchability and wider benefits.

Transport Fuels – 2DS

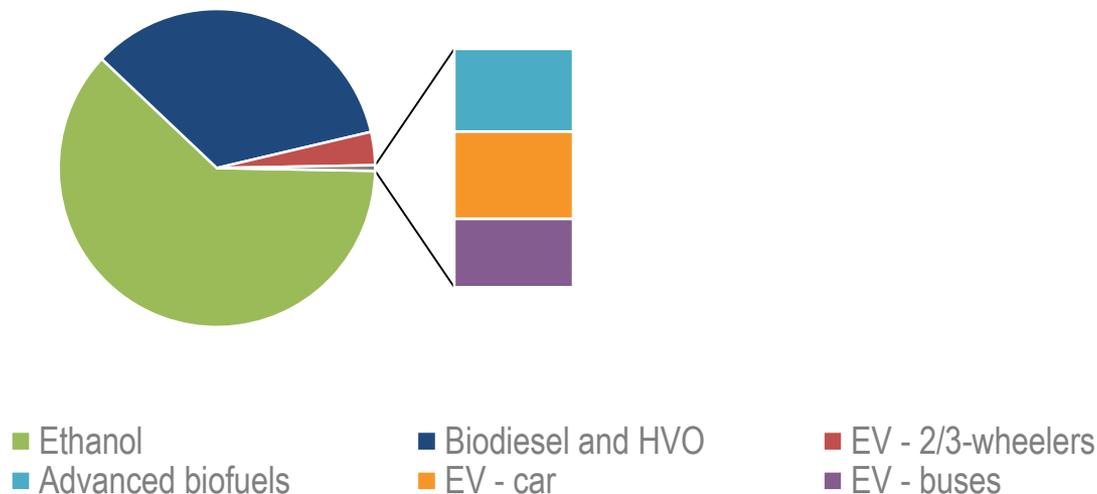


While demand of transport services more than doubles , biofuels complement end-use efficiency and strong growth in electricity, providing almost 30% of transport final energy demand in 2060

Biofuels still forecast to account for most renewables in road transport by 2022

Renewable energy consumption in road transport 2016 (left) and 2022 (right)

Total: 3.5 EJ



By 2022 conventional biofuels should still account for 92% of renewable energy consumption in road transport; most renewable electricity demand is from China's 2/3 wheeler fleet as electric cars account for just 1%.