



The outlook for biogas and biomethane

20 October 2021, Spanish Energy Club

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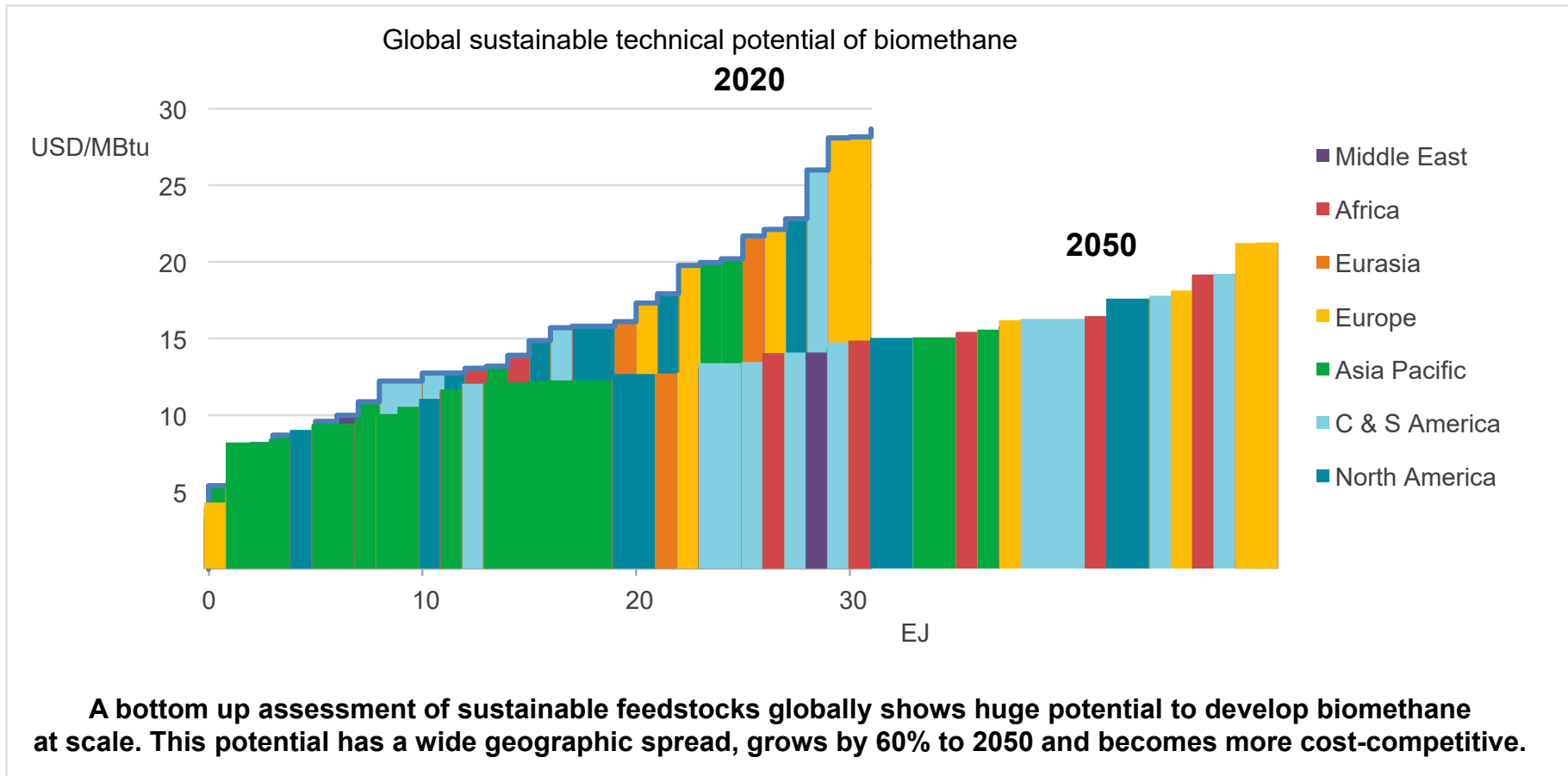
International
Energy Agency

Liquid, gaseous and solid fuels play important roles in the transition

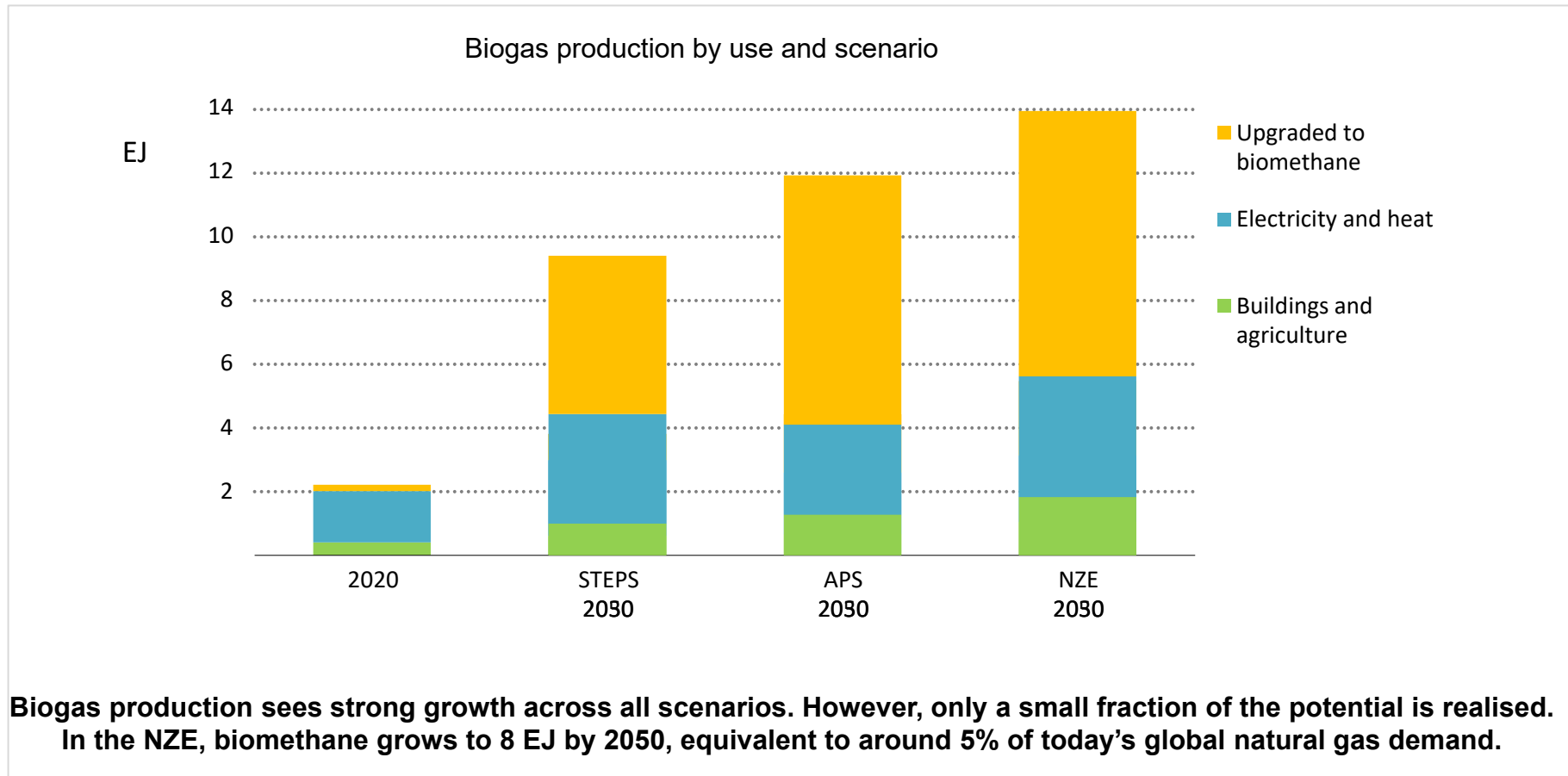
Consumption of liquid, gaseous and solid fuels by scenario

Fuels remain an integral part of the global energy mix to 2050, and sustainable sources of bioenergy play a major role across all fuels in climate-driven scenarios

A global assessment of the costs and potential of biomethane



Upgrading biogas to biomethane underpins growth in all scenarios



Conclusions



- Biomethane has a key role in a low carbon energy transition, especially in sectors where emissions are hard to abate, while biogas has potential as a means of providing baseload renewable electricity and clean cooking, especially in developing economies.
- There is huge untapped resource potential to scale up biogas and biomethane production, and today's high gas prices provide a new context to assess its cost-competitiveness. However, it is not straightforward to assume that either of these factors will lead to wide-scale deployment.
- Robust policies on waste management and sustainable feedstocks, low-carbon gas certification schemes, CO₂ pricing or crediting avoided methane emissions are examples of policies which are needed to incentivise biomethane development and realise its multiple co-benefits.
- Measuring and verifying methane emissions are crucial to demonstrating the environmental benefits of biomethane projects.

