

LNG bunkering

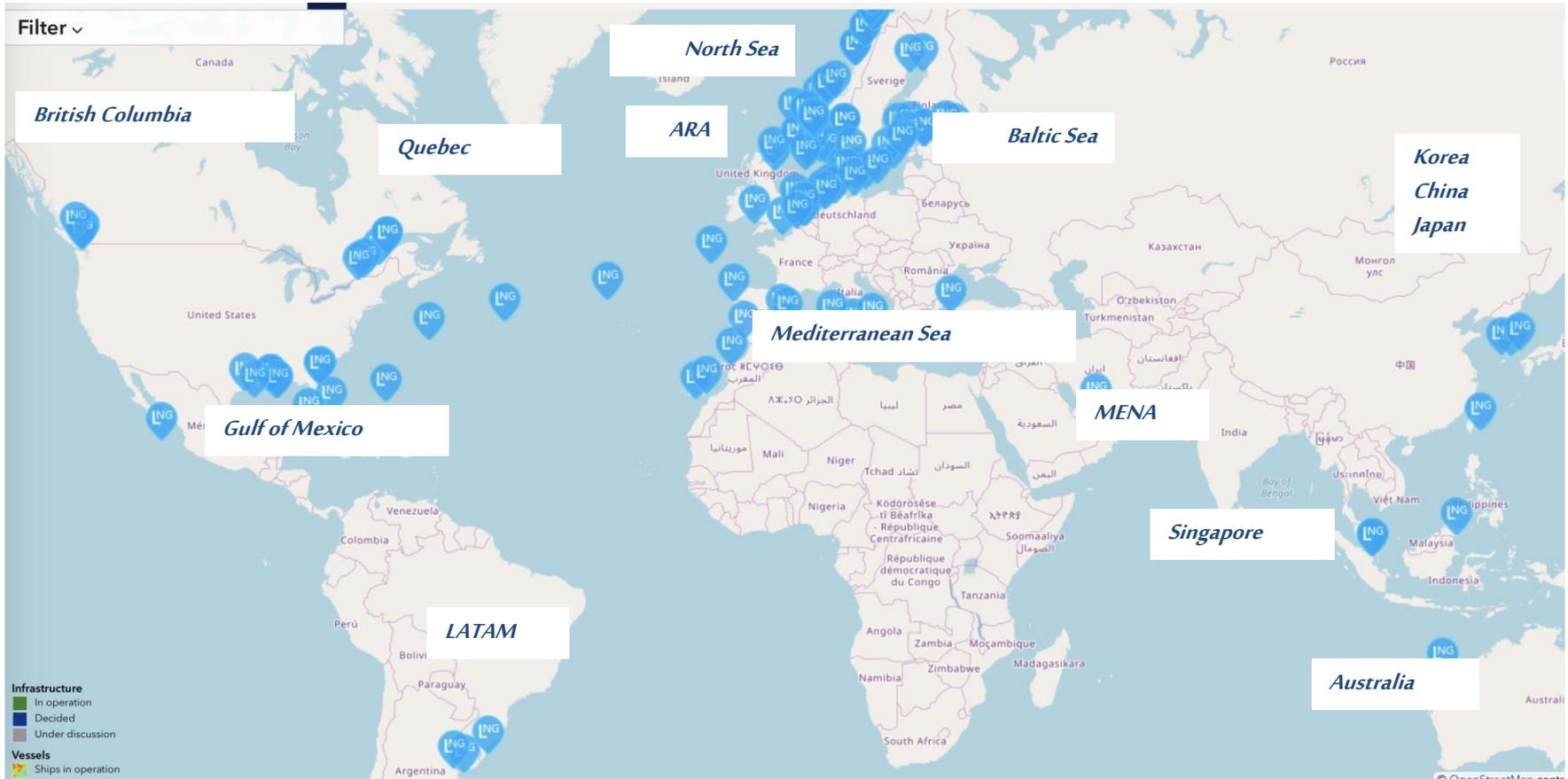
LNG Shipping conference – 11 September 2019 – London

LNG-fuelled operational ships



A Global Reality

Sept 8, 2019

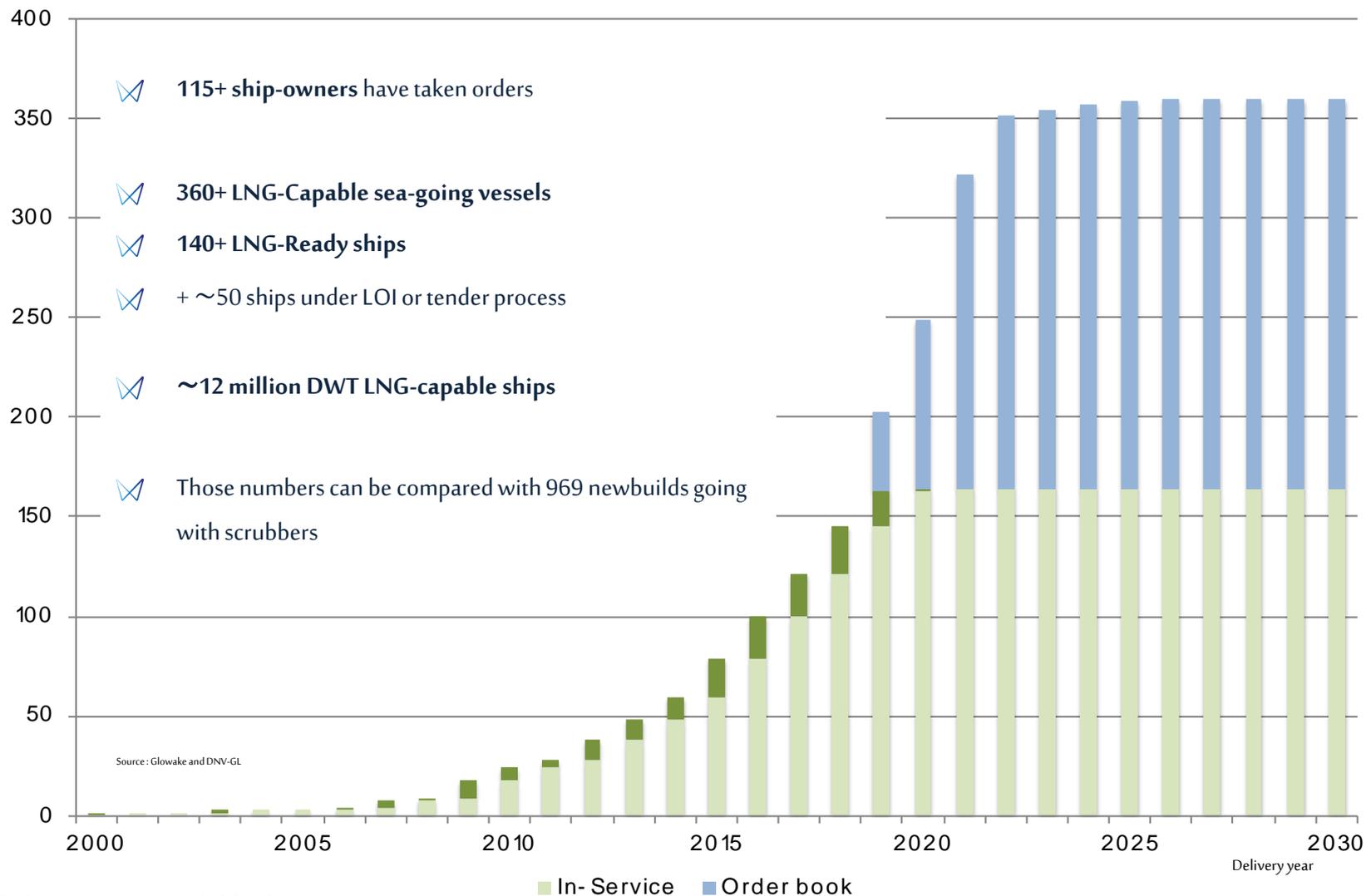


Source: DNV-GL

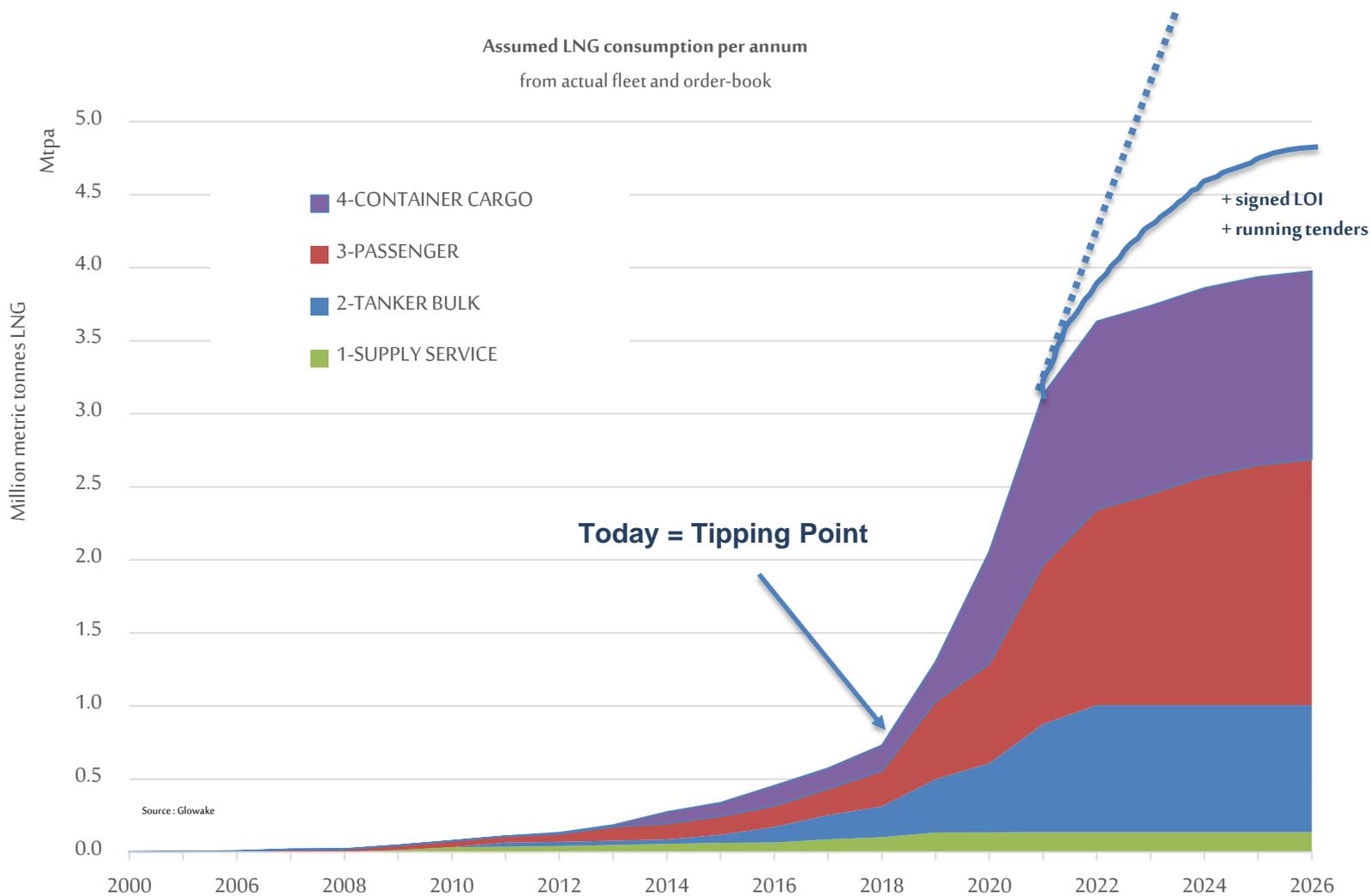
LNG-fuelled orderbook: 400-mark to be reached soon



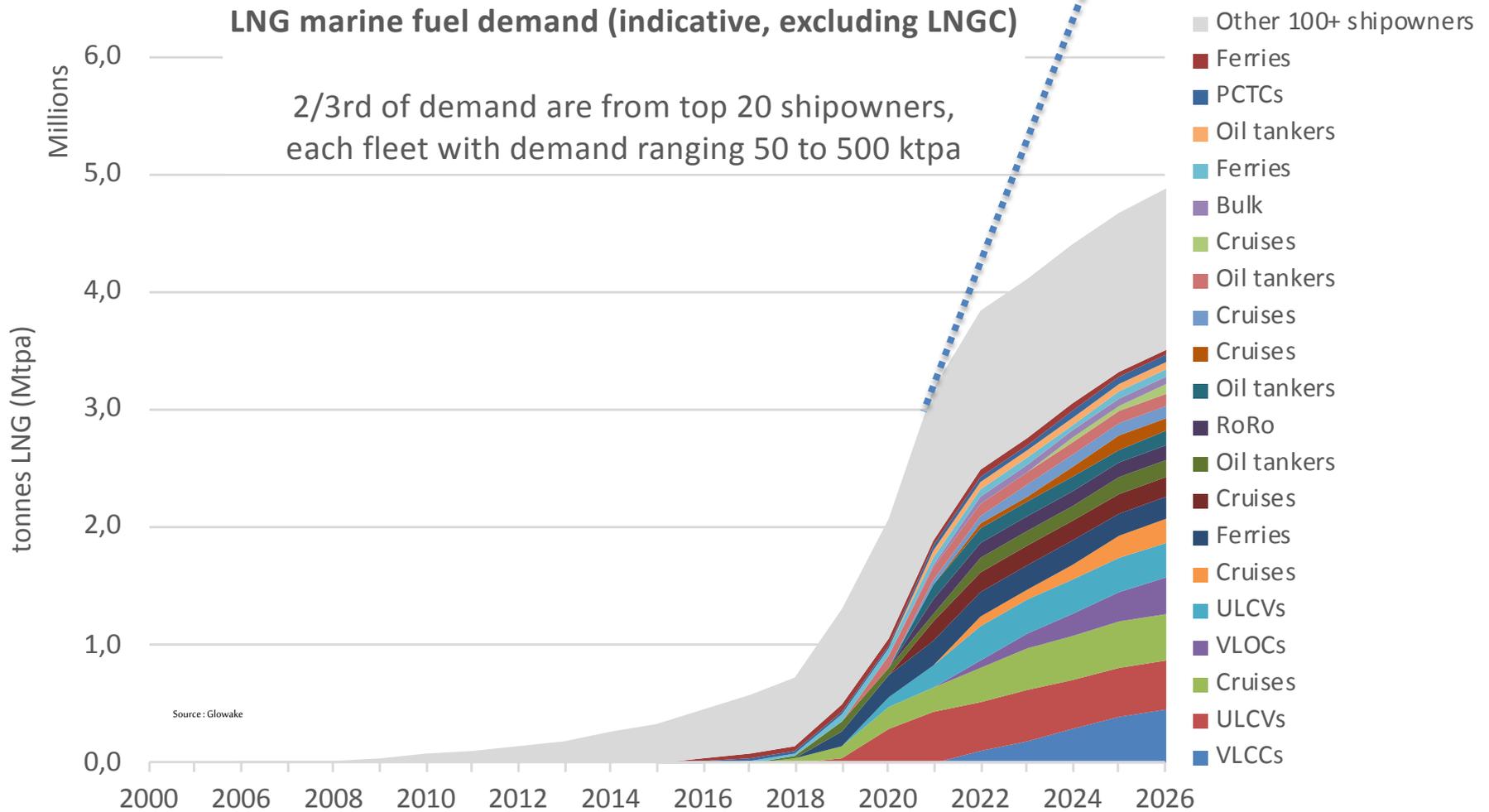
Sea-going LNG fuelled fleet (excluding LNG carriers, LNG feeders and LNG bunker vessels)



LNG marine fuel demand: from 5 to 10 Mtpa by 2025?



LNG marine fuel growth comes from deep-sea

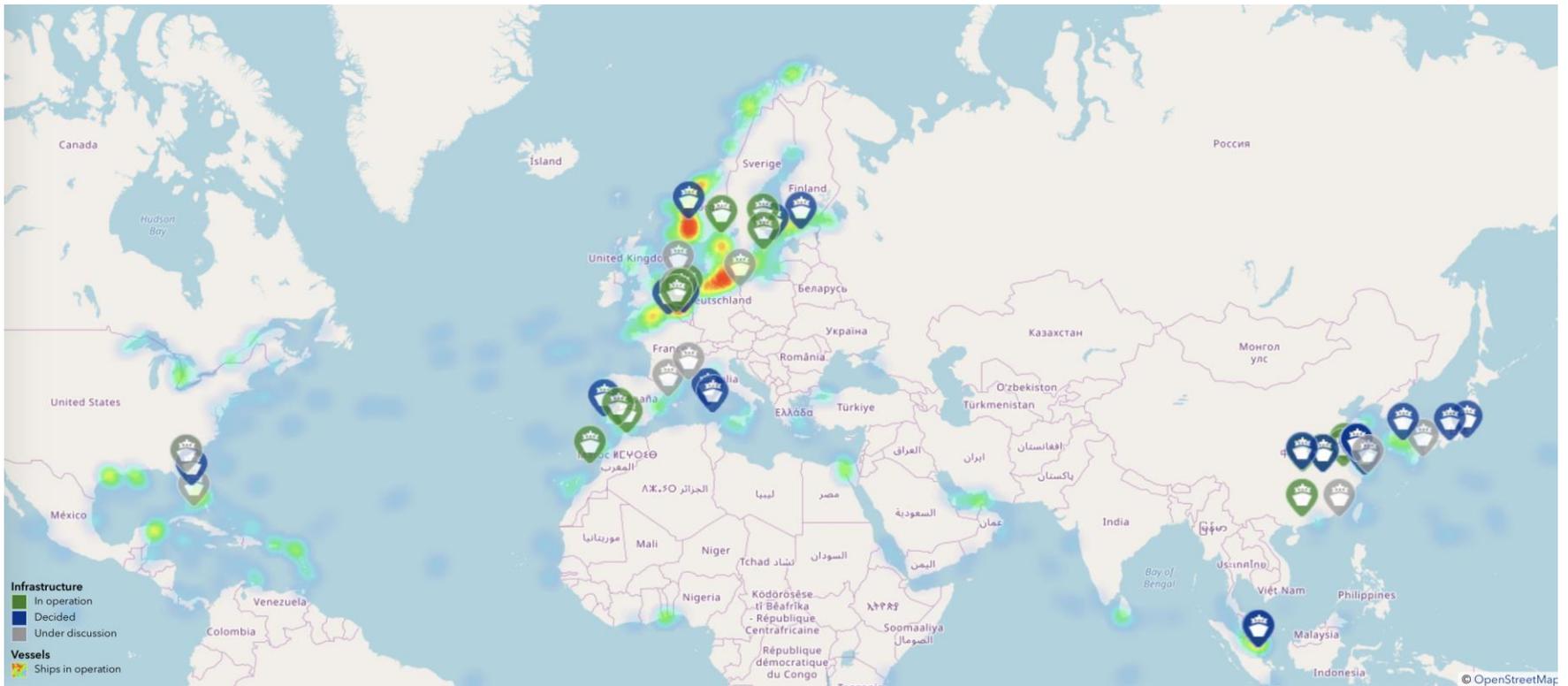


Ship-to-Ship LNG bunkering



- ~ 10 active LNG-bunker vessels & barges dedicated to sea-going vessels
- ~ 15 other LBV and LBB have been decided
- 10+ under discussion + several other tenths under study?

Sept 8, 2019



Source: DNV-GL

LNG bunker and feeder ships: bespoke designs



Courtesy: ENGIE Zeebrugge during bunker operations to UECCPCTC

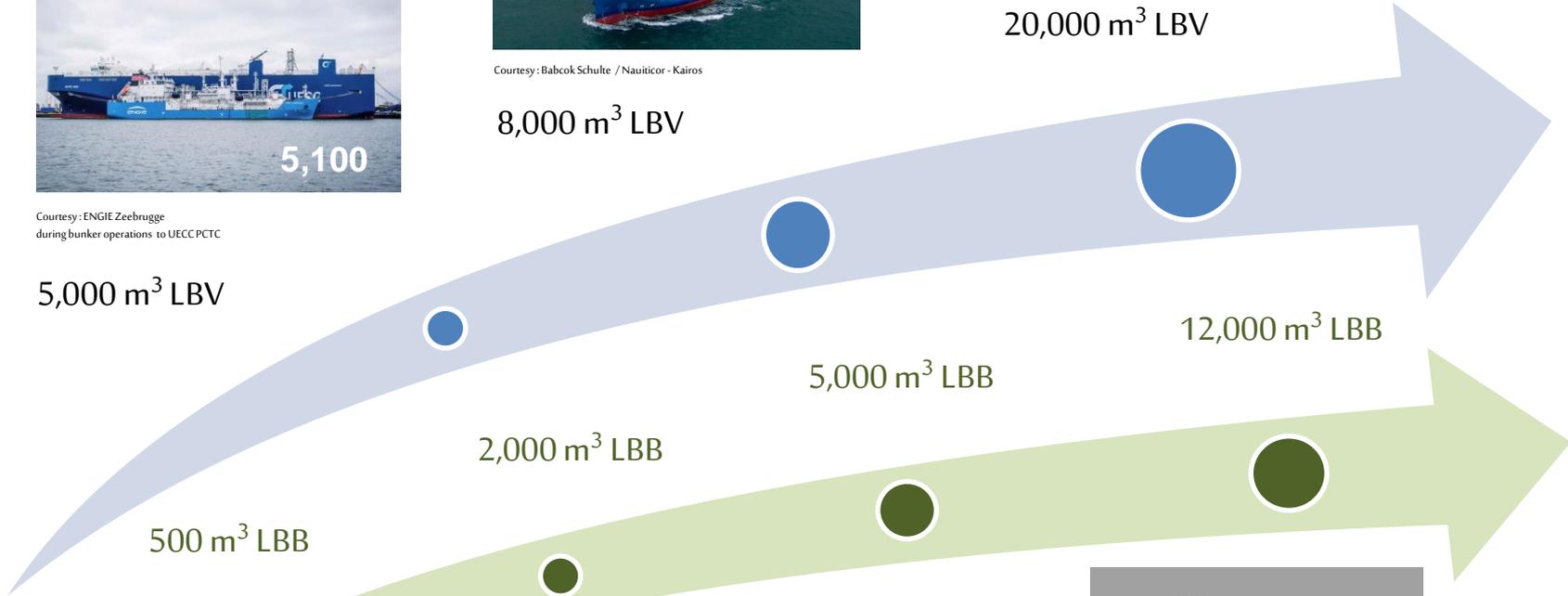
5,000 m³ LBV



Courtesy: Babcock Schulte / Nauticor - Kairos

8,000 m³ LBV

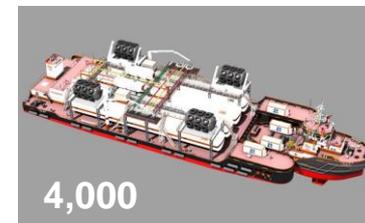
20,000 m³ LBV



Courtesy: Itsas Gas - Oizmendii

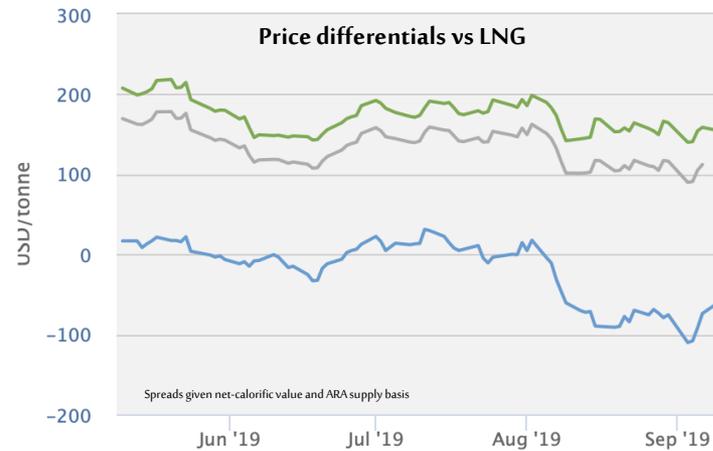
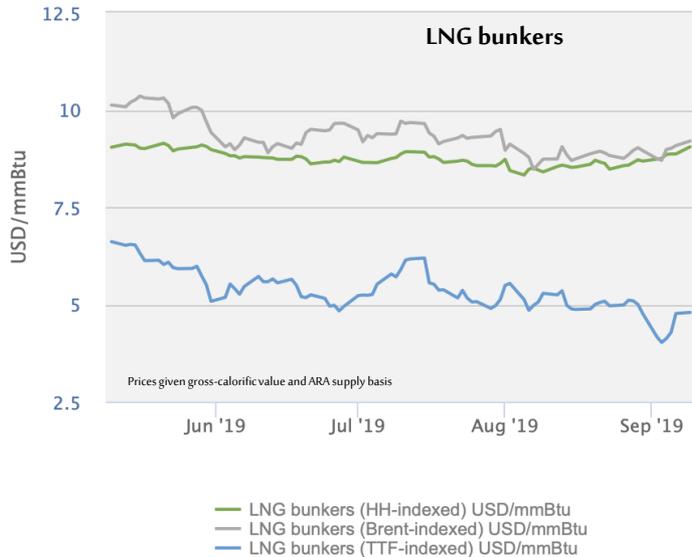
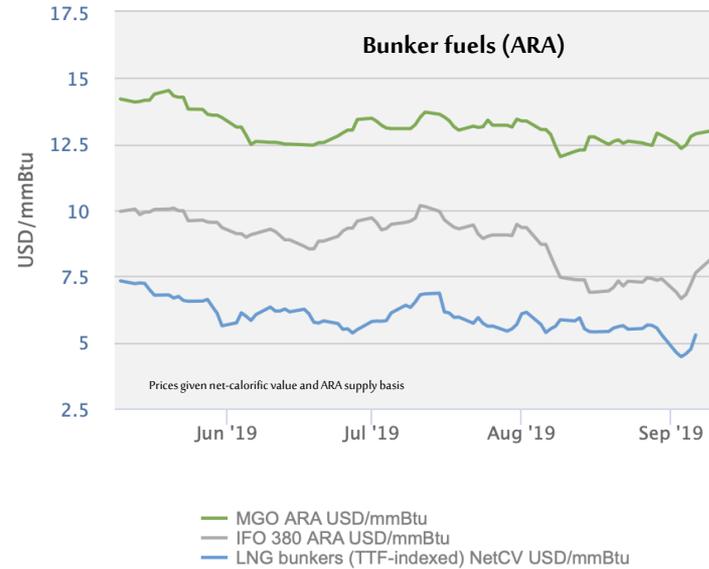
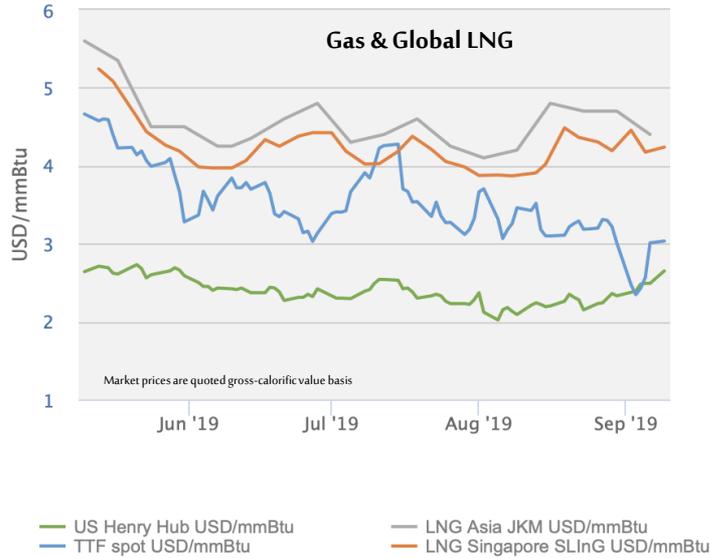


Courtesy: TOTE - Clean Jacksonville



Courtesy: Sener

Last mile bunker cost matters



Thank you



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GLOWAKE
CLEAN ENERGY JOURNEY

ALAIN BOURGEOIS

alain.bourgeois@glowake.com

BE +32 498 456 168

FR +33 6 10 43 98 73

www.glowake.com





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We help shipping in converting to clean fuels & energy efficiency

We ensure that you receive the economic benefits of your early-bird investments

Lower freight rates, LSC and BAF! Improve EEDI and EU MRV + IMO DCS reporting!

Brave hearts **trust in marine fuel transition to liquefied natural gas and biofuels**



LNG is today's glowing shipping and transport fuel, eliminating SOx + particles pollution (PM) and reducing dramatically SOx emissions. LNG reduces significantly GHG emissions from well-to-wake. It makes LNG the best bridge fuel toward zero emissions vessels.

Smart heads **build profit and growth on security of supply and competitive fuel**



Based on consortium partnership, LNG availability and safe bunkering can be secured in port locations where there is adequate demand, with guarantee of quicker and shared returns.

CLEAN ENERGY JOURNEY

