



2018 World Gas Conference

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The World Gas Conference in numbers



Hosted by the American Gas Association



6 city blocks of exhibition space



The US didn't commit to any carbon emissions reduction target



From 2005 through 2017, while our economy grew, the U.S. led the world in reducing carbon emissions, cutting them by 14%.

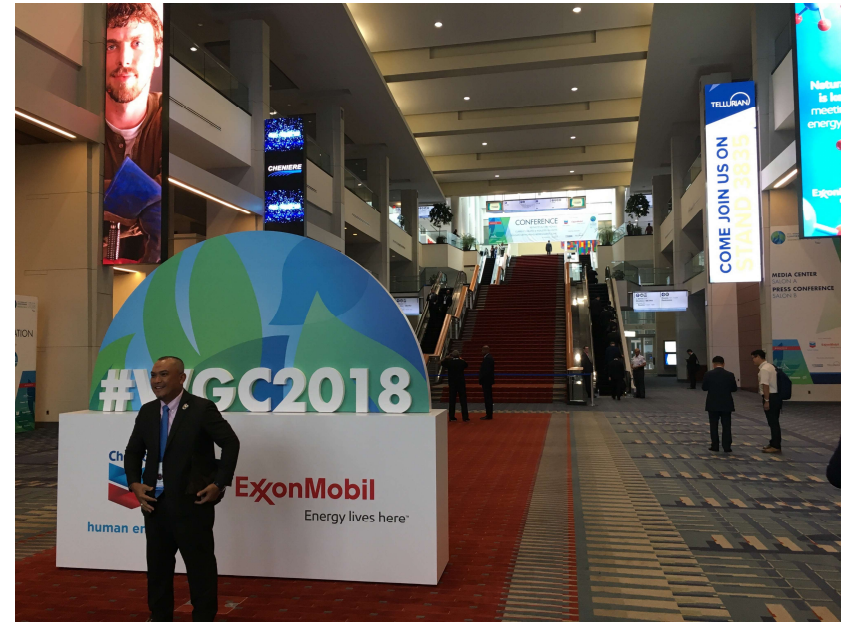
[...] according to the latest estimates, even by the year 2040, fossil fuels will comprise more than 75% of world energy usage.

In 3 years, Natural Gas got a big promotion

Natural Gas as a **transition** fuel



Natural Gas as a **destination** fuel



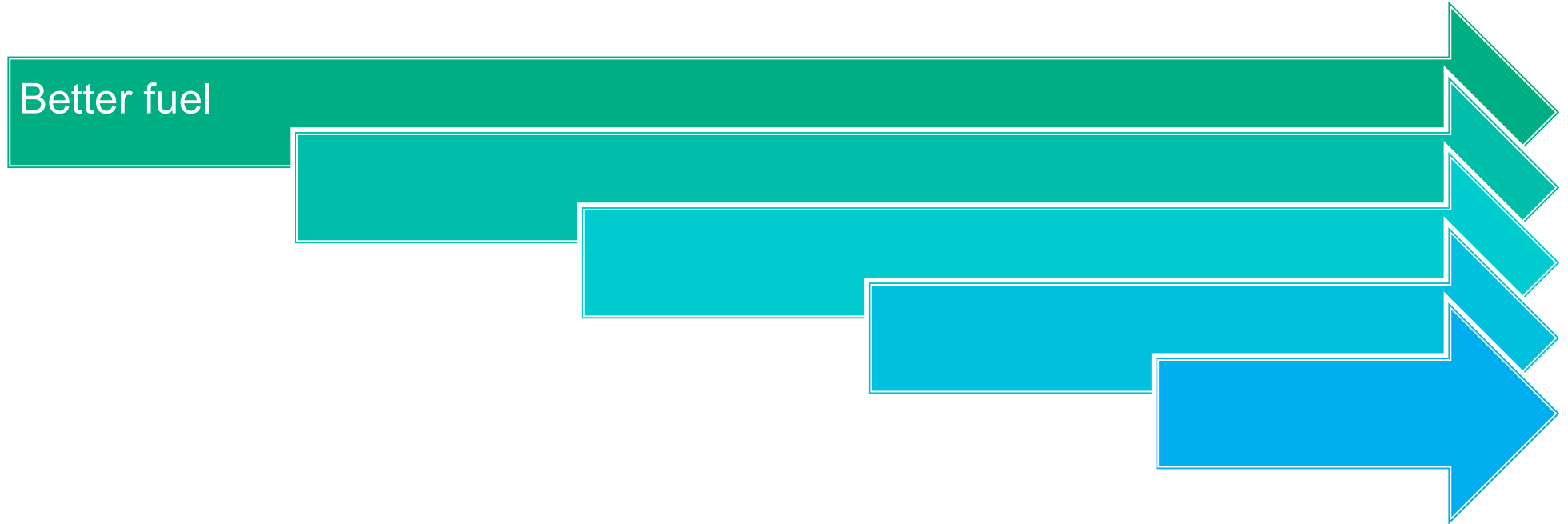
A set of common goals

Sustainable development

Able to be maintained at a certain rate or level

Carbon reduction

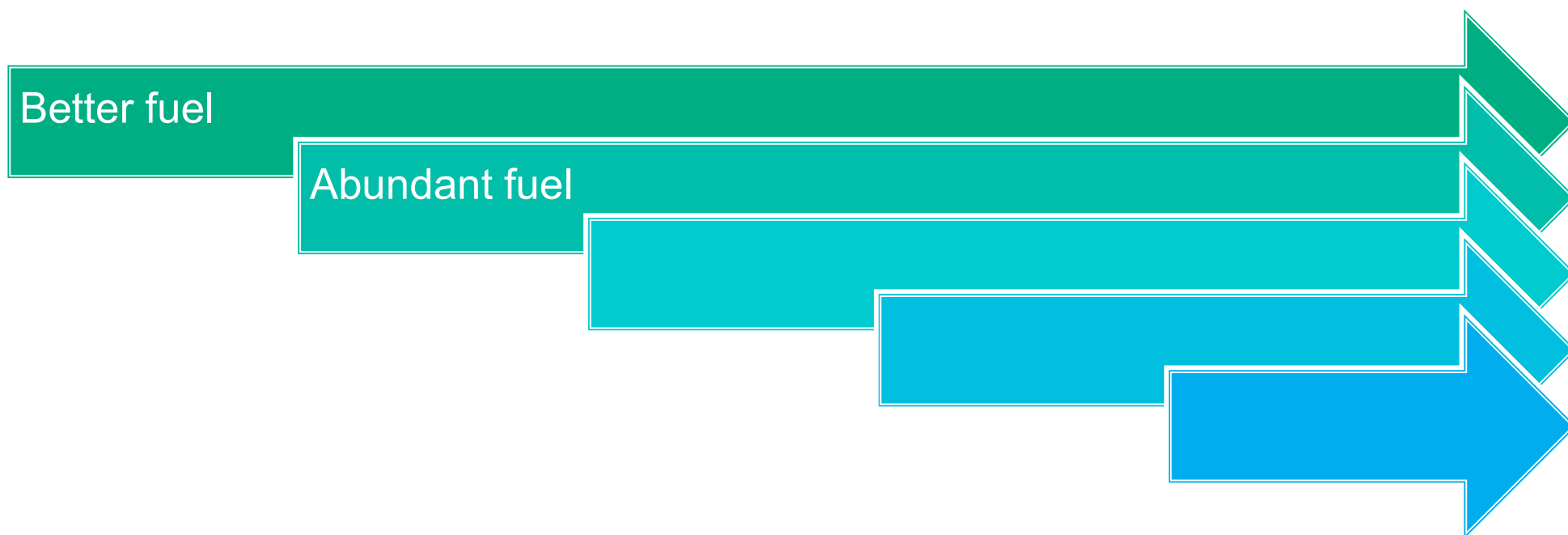
Natural gas's evolutionary path



Better fuel



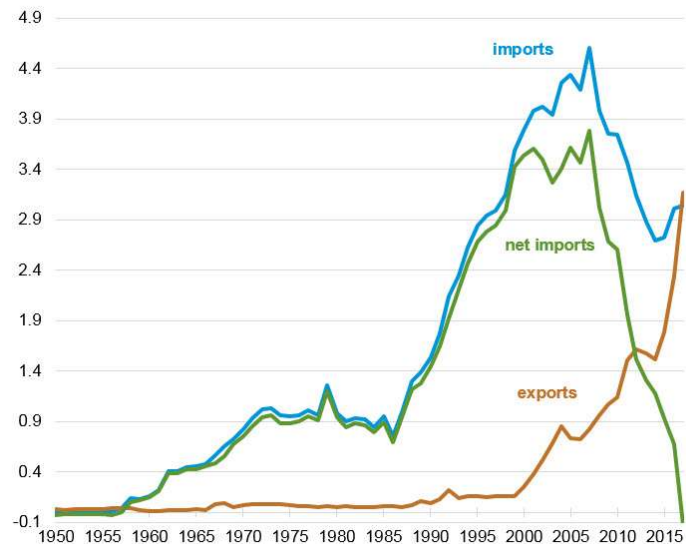
Natural gas's evolutionary path



Abundant fuel

U.S. natural gas imports, exports, and net imports, 1950–2017

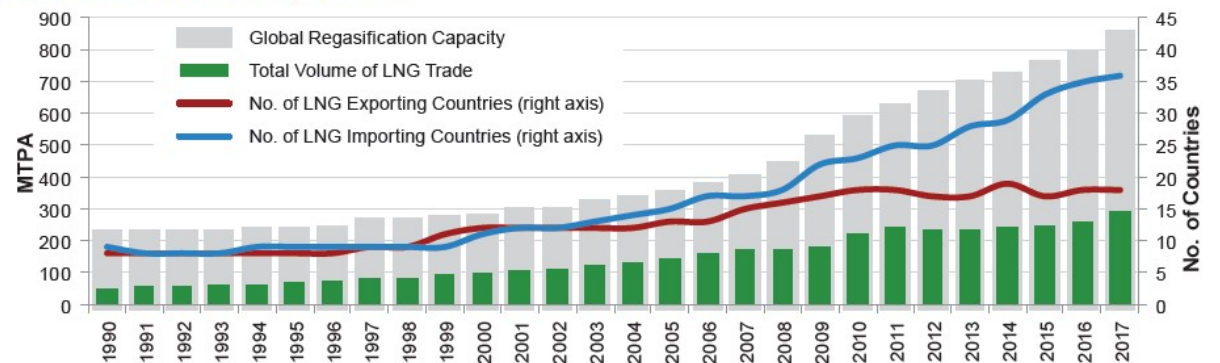
trillion cubic feet



Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 4.1, March 2018



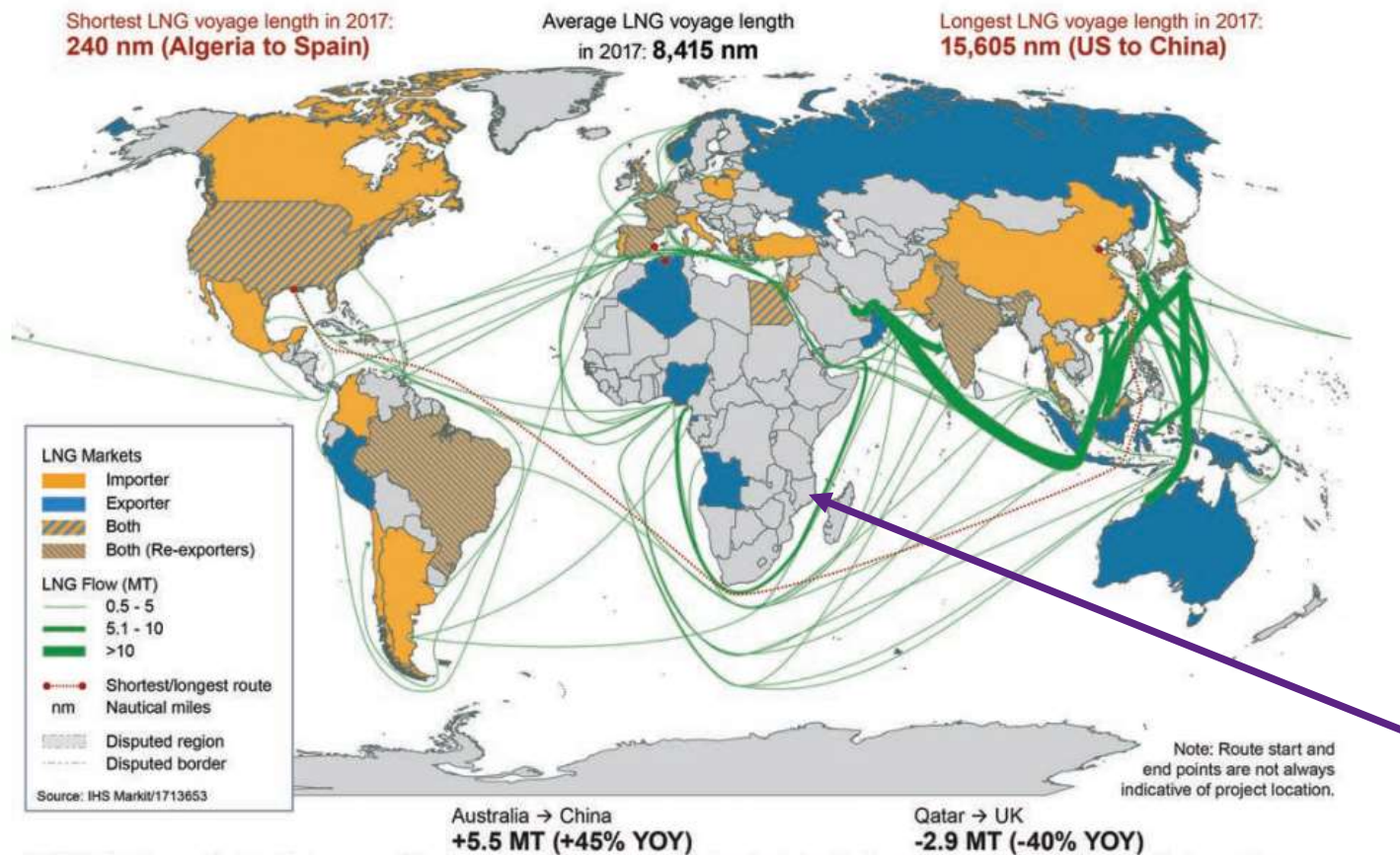
Figure 3.1 LNG Trade Volumes, 1990–2017



Source: IHS Markit, IEA, IGU

Abundant fuel

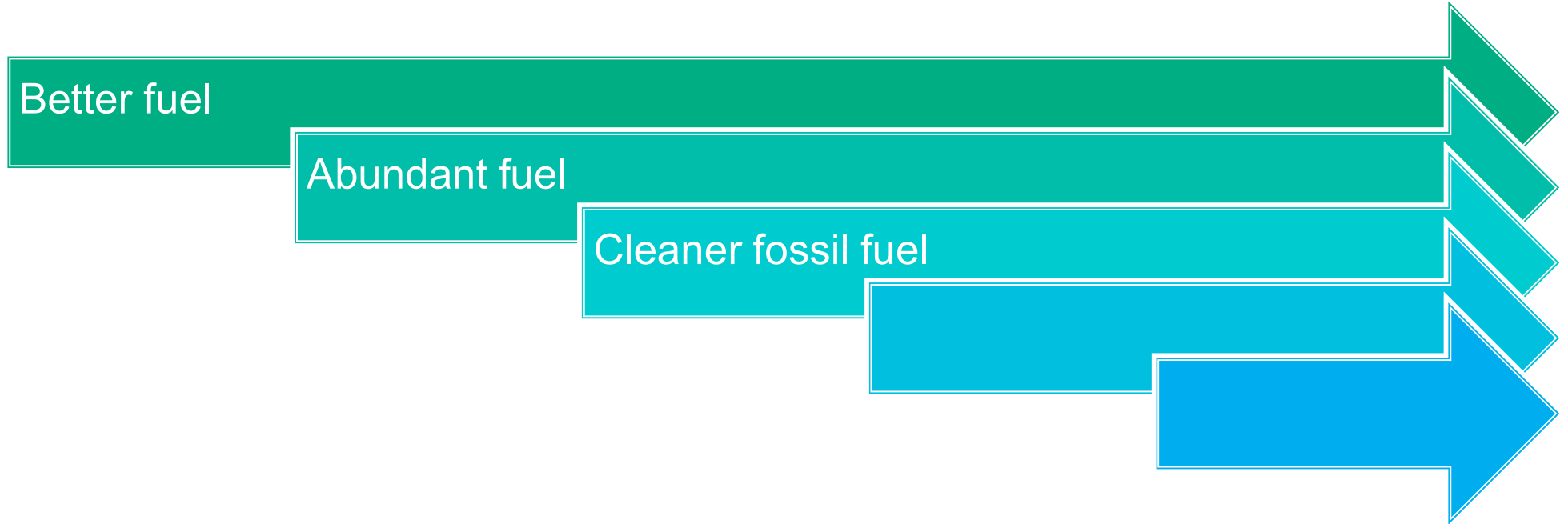
Figure 5.7: Major LNG Shipping Routes, 2017



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Source: IHS Markit.

Natural gas's evolutionary path



Cleaner fossil fuel



Cleaner fossil fuel

Figure 6. Concentrations of water-soluble inorganic ions in $PM_{2.5}$ at the SDS site during January 2011, January 2012, January 2013 and January 2014 in Urumqi.

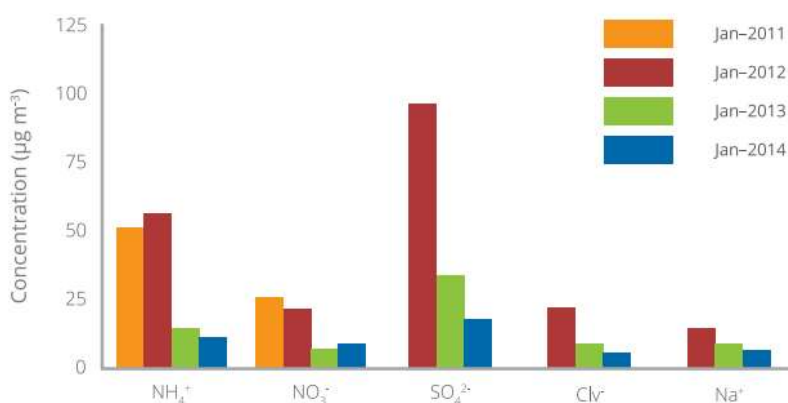
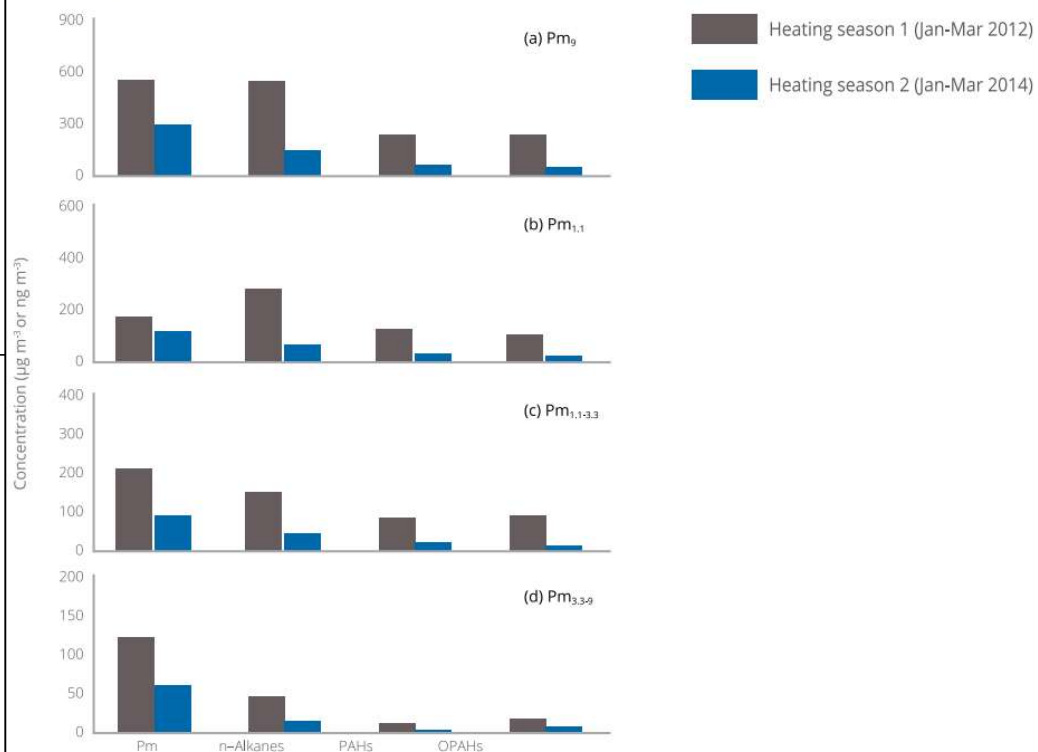


Figure 8 Concentrations of PM, n-alkanes, PAHs, and OPAHs in different size of particles during the heating seasons in Urumqi, China

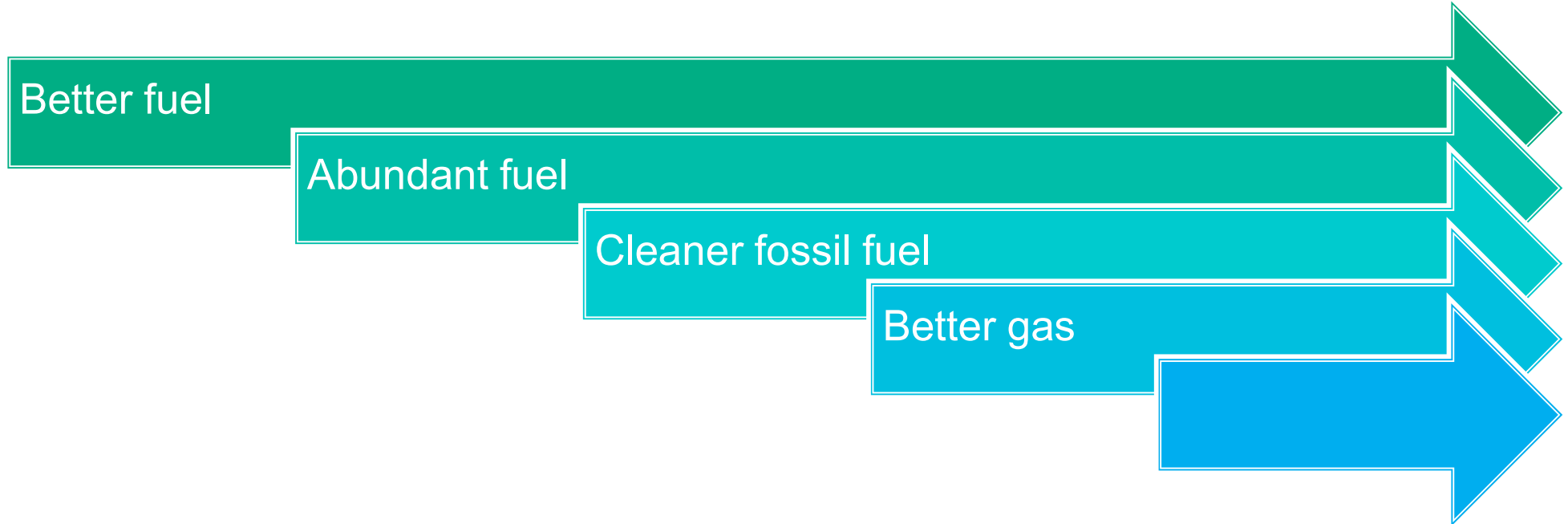


Source: Song, W. et al. (FN 48)

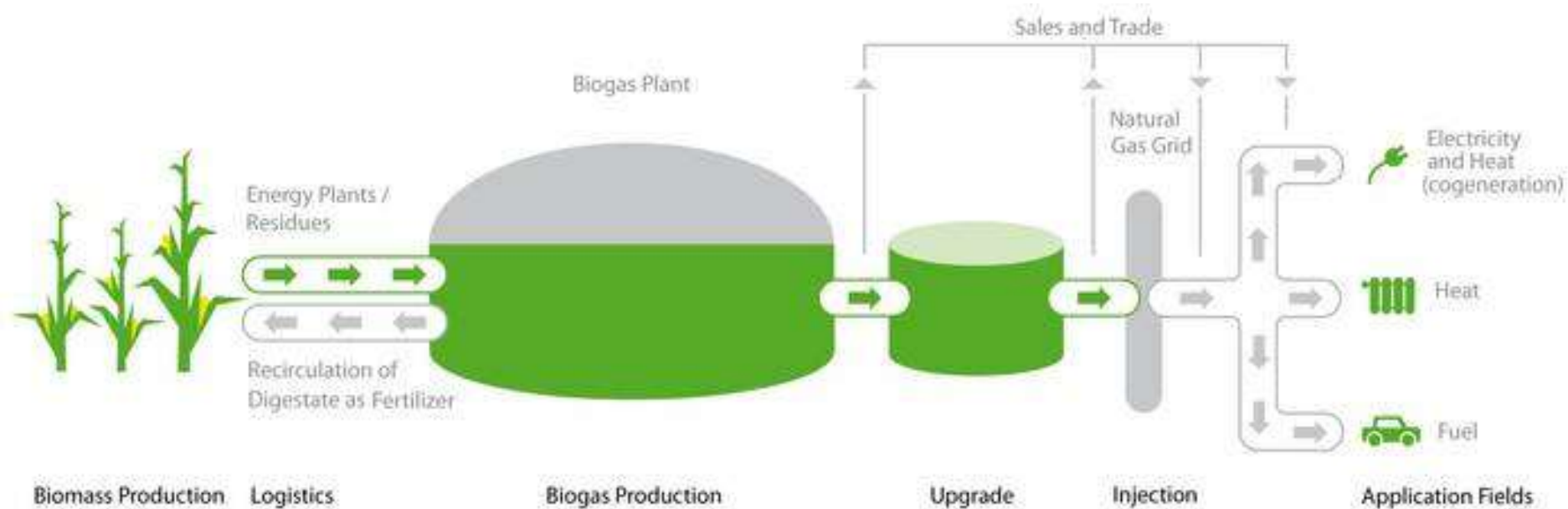
Cleaner fossil fuel



Natural gas's evolutionary path

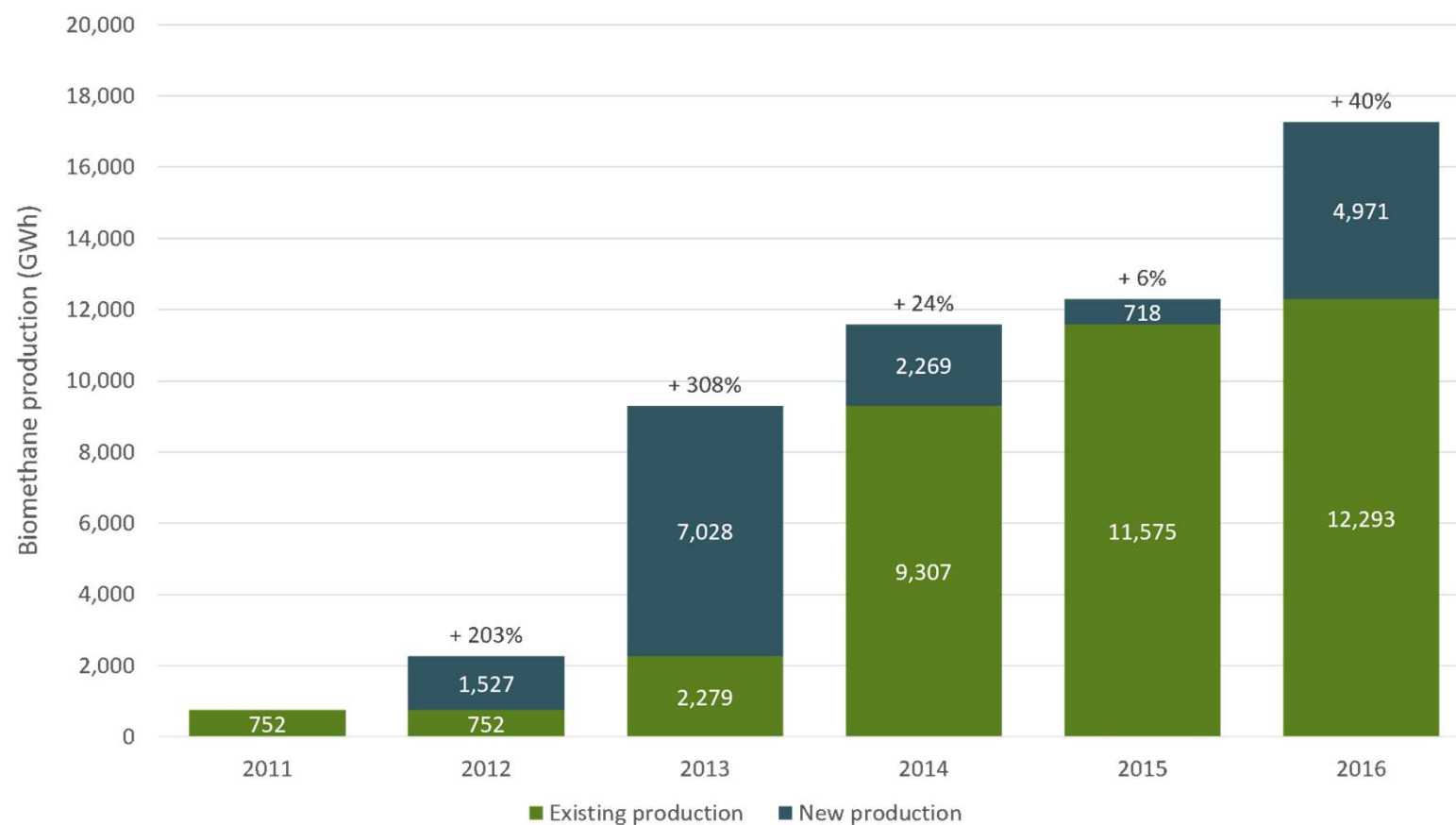


Better gas

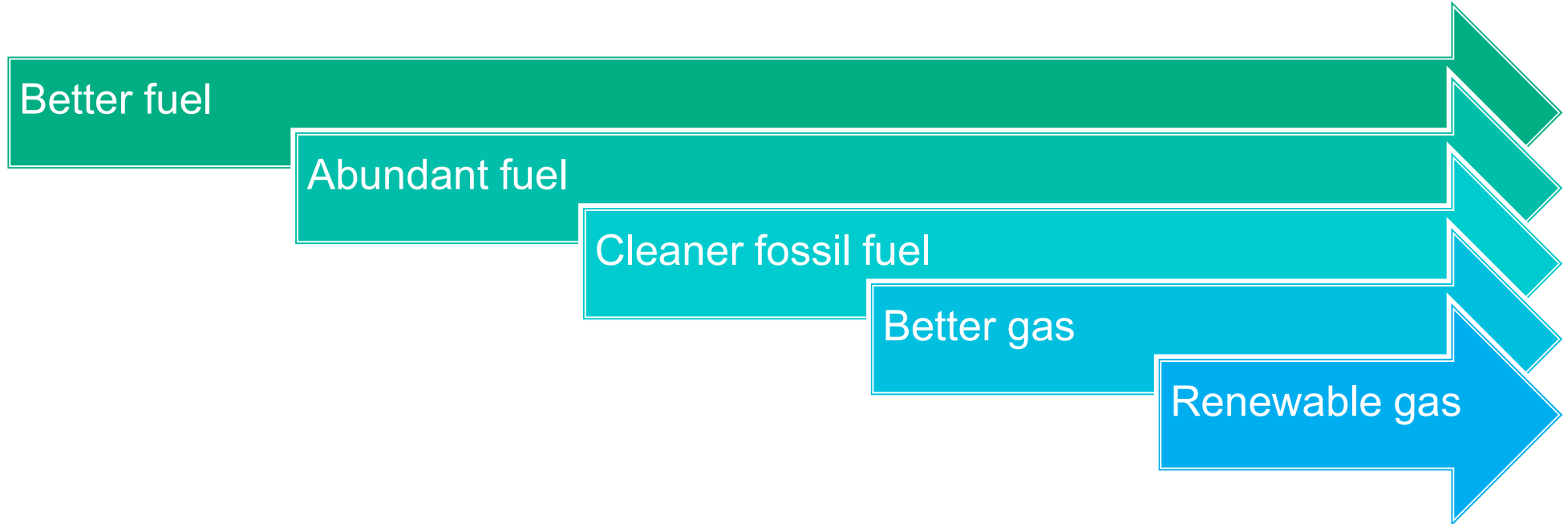


Better gas

European biomethane production



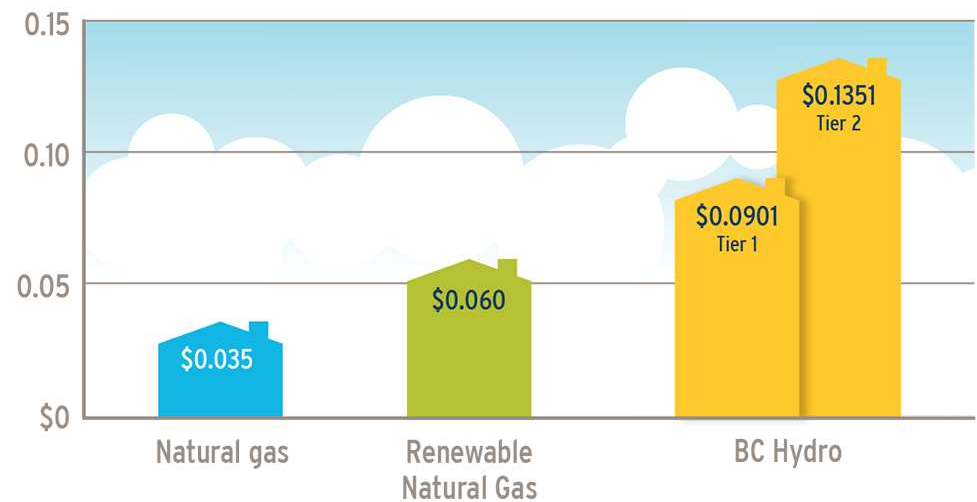
Natural gas's evolutionary path



Renewable gas



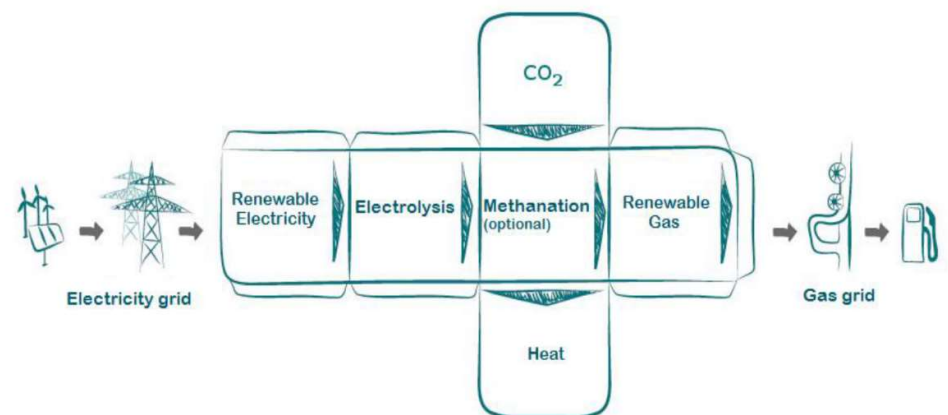
Residential Gas \$/kWh Price Comparison



Renewable gas



Power to Gas: the convergence of renewable, electricity and gas industries



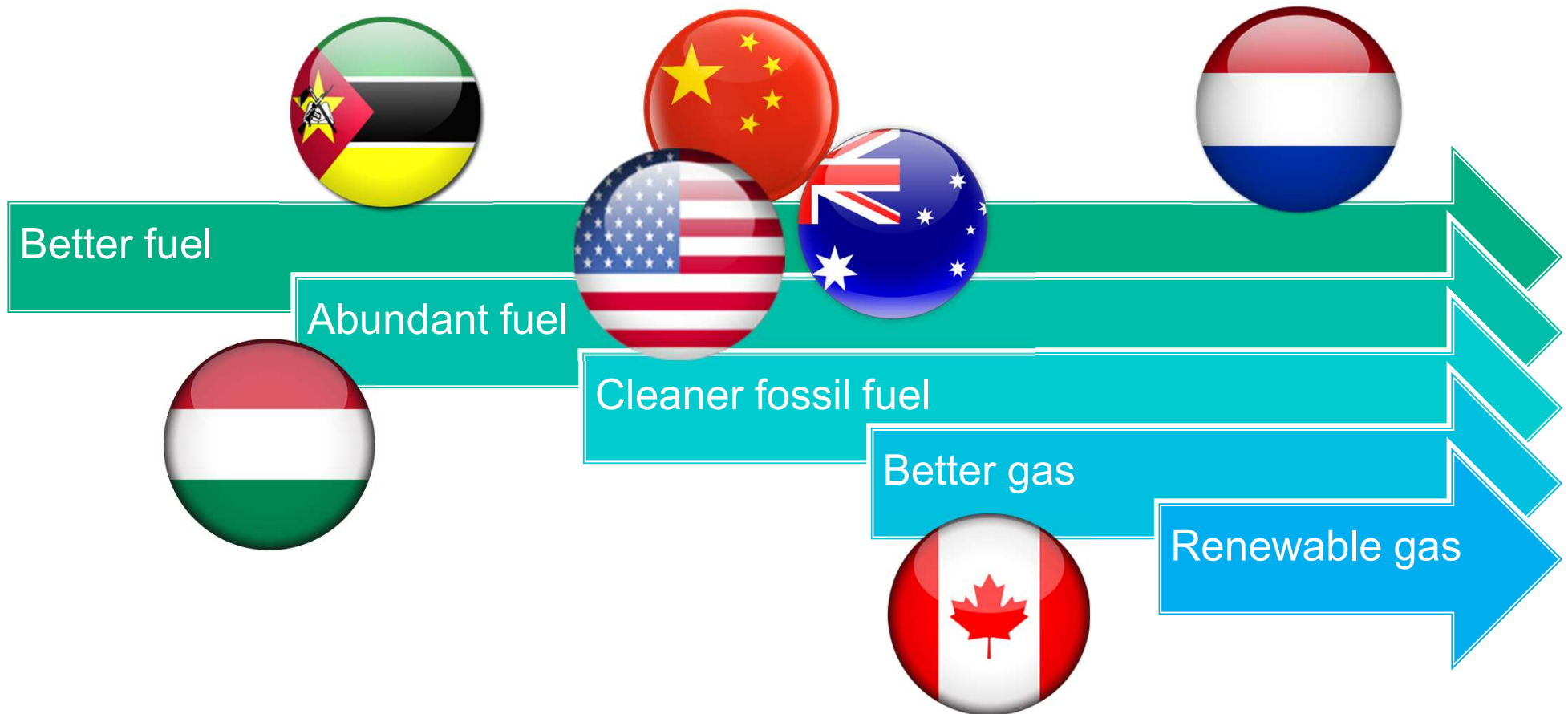
Source: ETOGAS

Schneider Ventures is an investor in ETOGAS

Renewable gas



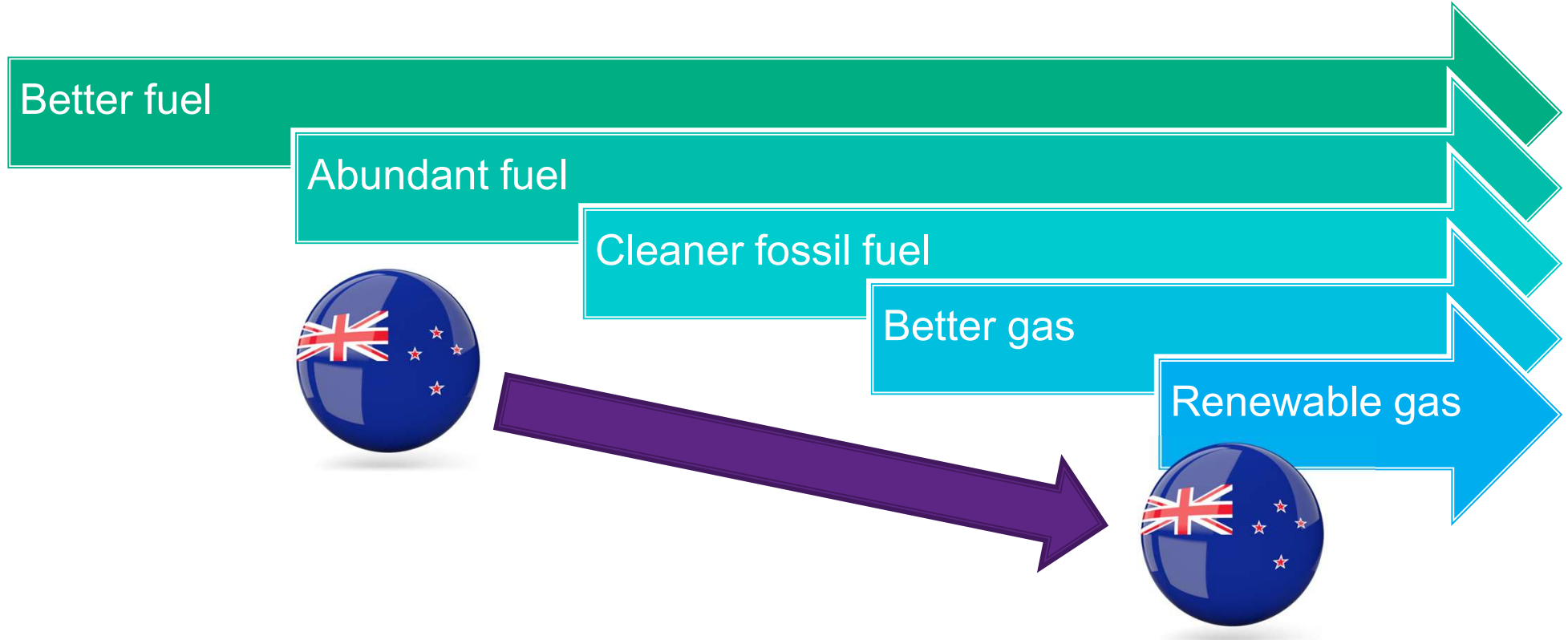
How do different countries fare?



The Hungarian example



Can the New Zealand gas industry make the jump?



The End

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