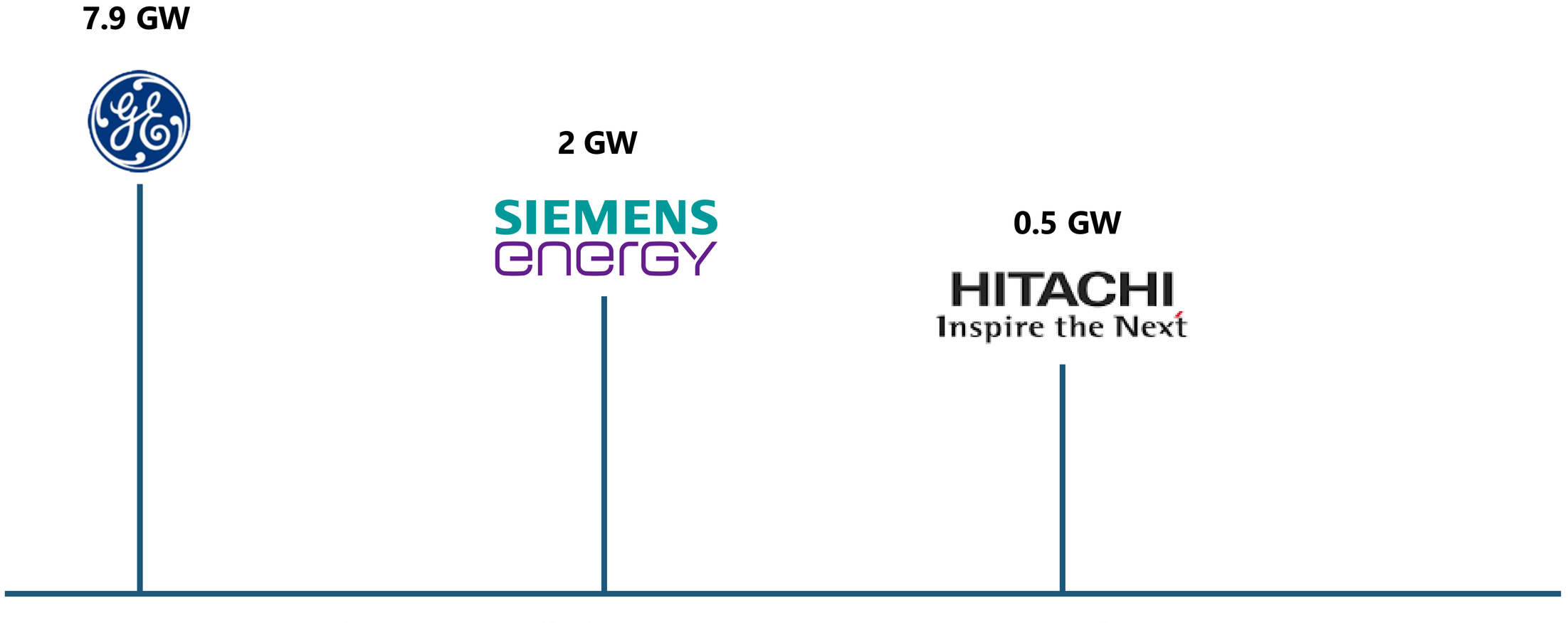
North American HVDC Market (2017–2021)

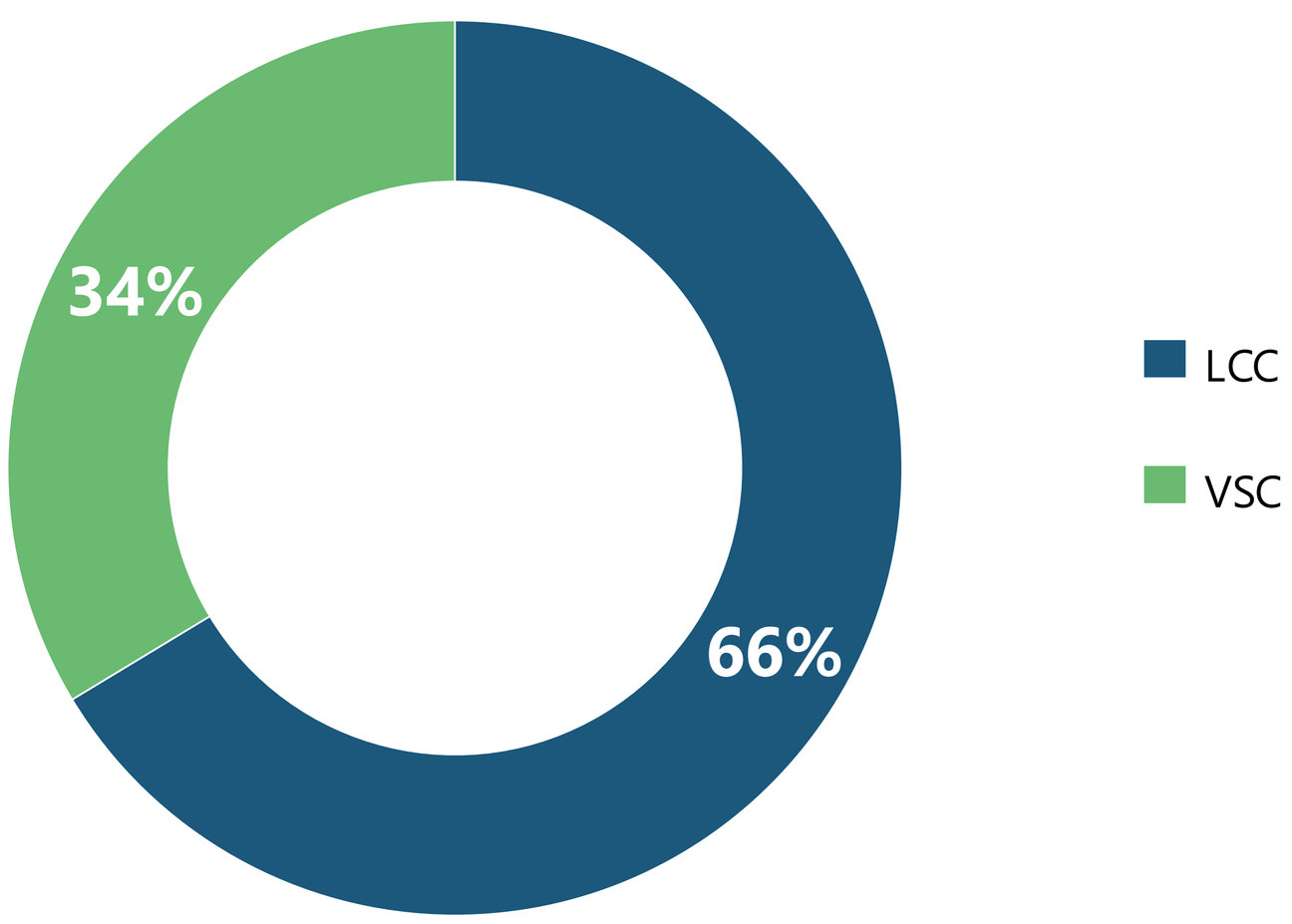
The infographic presents insights on how North American HVDC has performed between 2017 and 2021, from technology and key players standpoint.

HVDC Transmission Capacity Addition (2017-2021): 10.4 GW



Top 3 converter suppliers w.r.t installed HVDC transmission capacity in North America (2017 - 2021)

Technology Split



- From 2017-2021, the HVDC market in North America was mainly driven by the U.S., with the addition of 7 GW of HVDC transmission capacity.
- The HVDC market in North America gained traction in 2018 and 2019 as an outcome of offshore connection coming online in Canada.
- The North American HVDC market remained stagnant during 2020 with no new project installation compared to other regions.
- Line Commutated Current Sourced Converters (LCC) HVDC technology has a considerable presence in North America due to its high short circuit ratio for transporting large amounts of power at higher voltage levels from electricity generating centres to the load centres.
- In North America, both LCC and Voltage Source Converter (VSC) HVDC technology have substantial presence. In recent years, due to expansion in the offshore wind generation in the U.S., VSC HVDC has gained traction in the region. However, LCC HVDC technology still holds a major share due to its high-power transmission capacity and affordability.