

THE ROLE OF ENERGY STORAGE IN GRID MODERNISATION & DECARBONISATION Dr Marek Kubik **UN Experts on Clean Energy**

6th November 2019

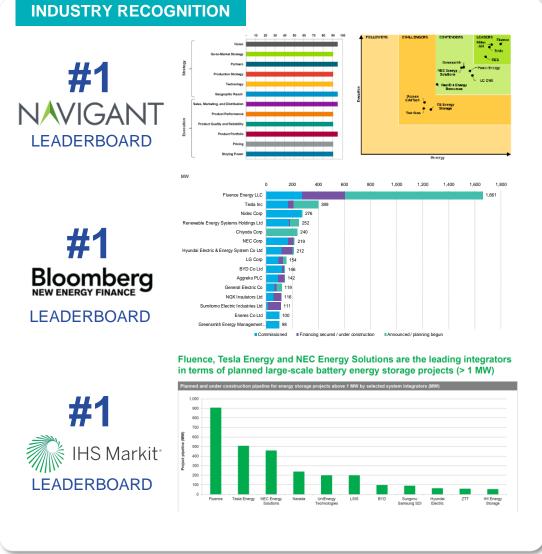
Fluence is the global leader in grid connected energy storage

SERVICE GLOBALLY

Joint Venture of Siemens & AES delivers complete, proven storage systems to developers and utilities



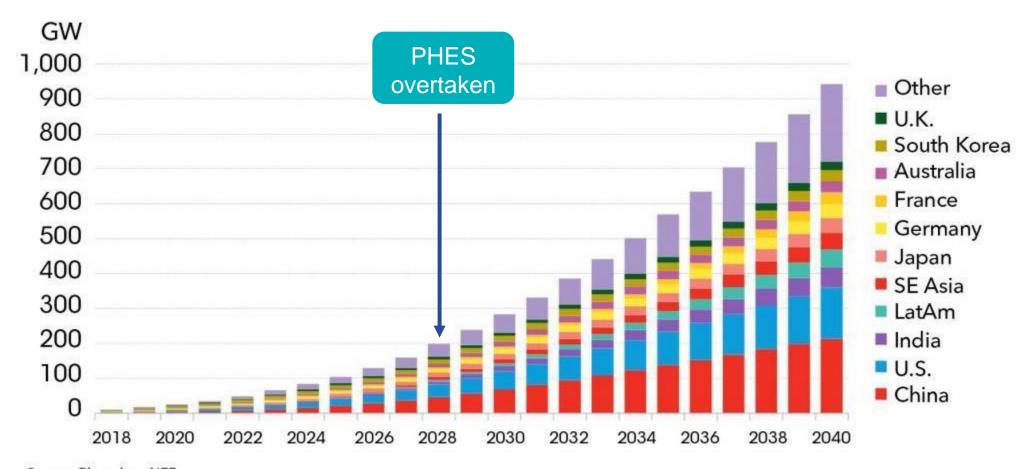






Battery Energy Storage is on an exponential growth path

Investment of over \$620 billion during this period creates massive positive feedback loops







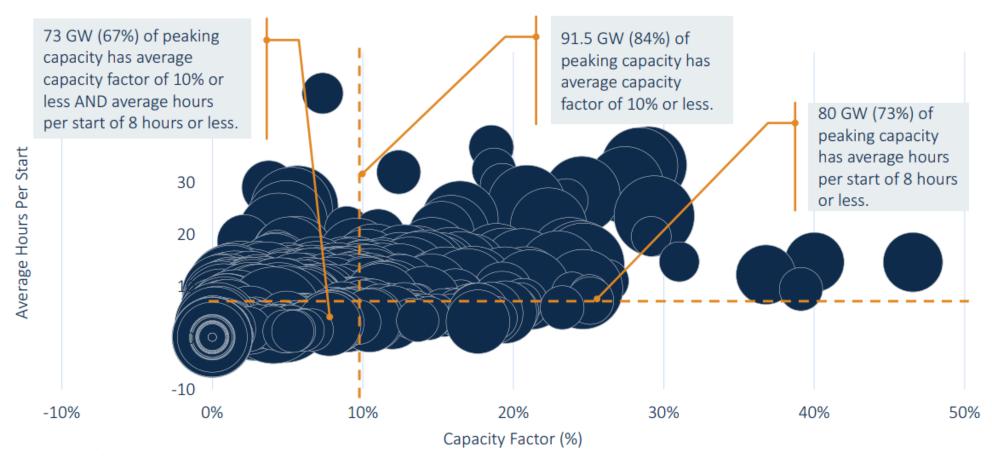




penetration grows. Getting to 80% RES-E only requires daily storage, getting to 100% requires seasonal.

Sources: SYSTEMIQ analysis, Aurora Energy Research

Over 67% of US peakers have < 10% utilization, and < 8hr run times



Source: Wood Mackenzie, Webinar 3/1/2018



A bridge to nowhere: Solar + Storage is already cheaper that mid-merit gas

