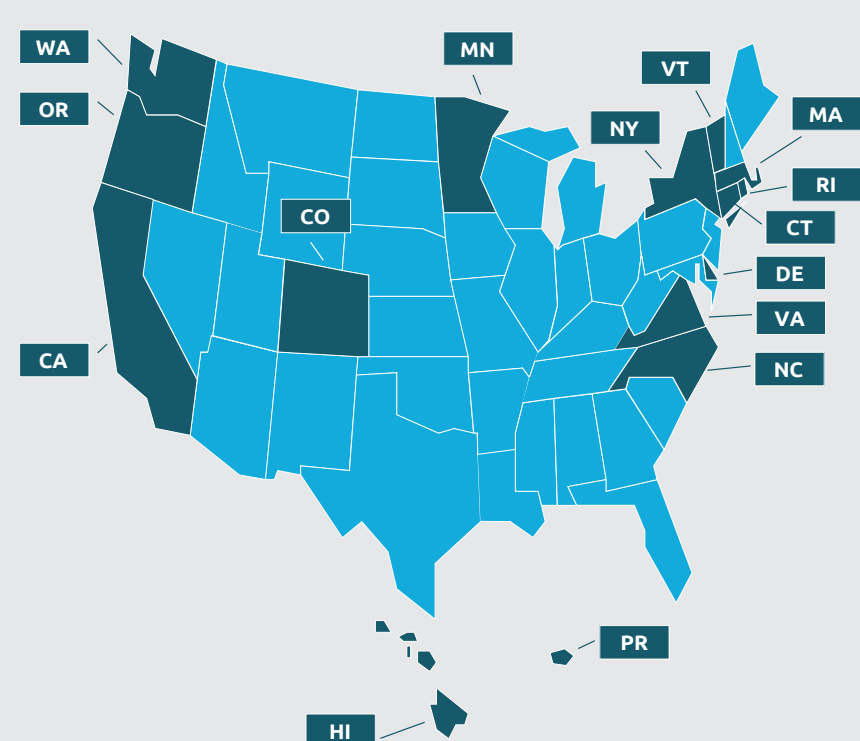




North America

World Energy Markets Observatory

States and cities committed to meeting the Paris Agreement targets (September 2017)



- States and cities committed to meeting the Paris Agreement targets (September 2017) States committing to Paris Agreement targets despite Federal withdrawal
- US Climate Alliance ~ Subnational coalition (not legally binding)



Members:

14 states ~ California, Colorado, Connecticut, Delaware, Hawaii, Massachusetts, Minnesota, New York, North Carolina, Oregon, Rhode Island, Vermont, Virginia, Washington
1 territory ~ Puerto Rico

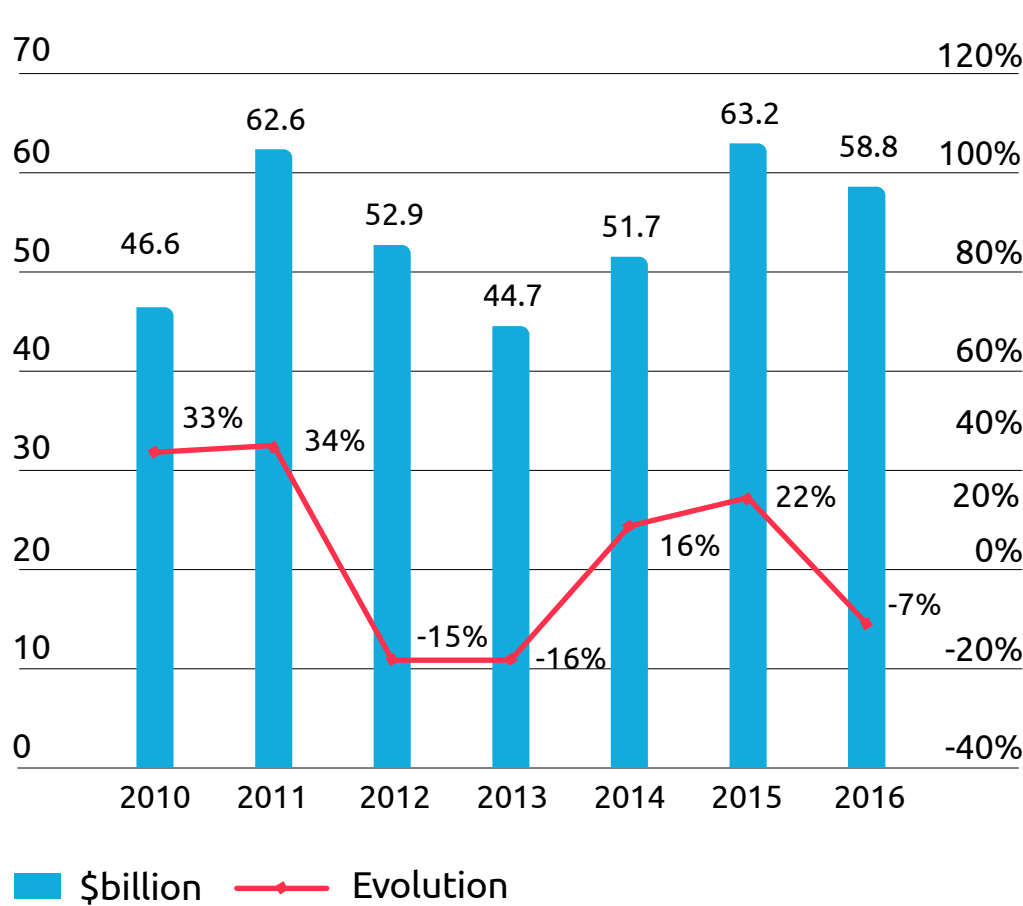


Key Trends

- Uncertainty and contradiction on the future of climate action in North America
- The 32% decrease in CO2 emissions by 2030 will be difficult to achieve .
- Coal may become the leading source of electricity generation by 2019
- Advanced energy market (Digital Operations) is led by Advanced Energy Generation (in 2016 grew to \$199.2 billion in US)
- Customers making choices about energy efficiency, EPV, solar and energy storage technologies
- Micro grids and Distributed Energy Resources making a comeback, likely in part from the aftermath felt by hurricanes
- Most utilities finished 2016 in a stronger position thanks to improved income statement measures

US Clean Energy Investment declined in 2016

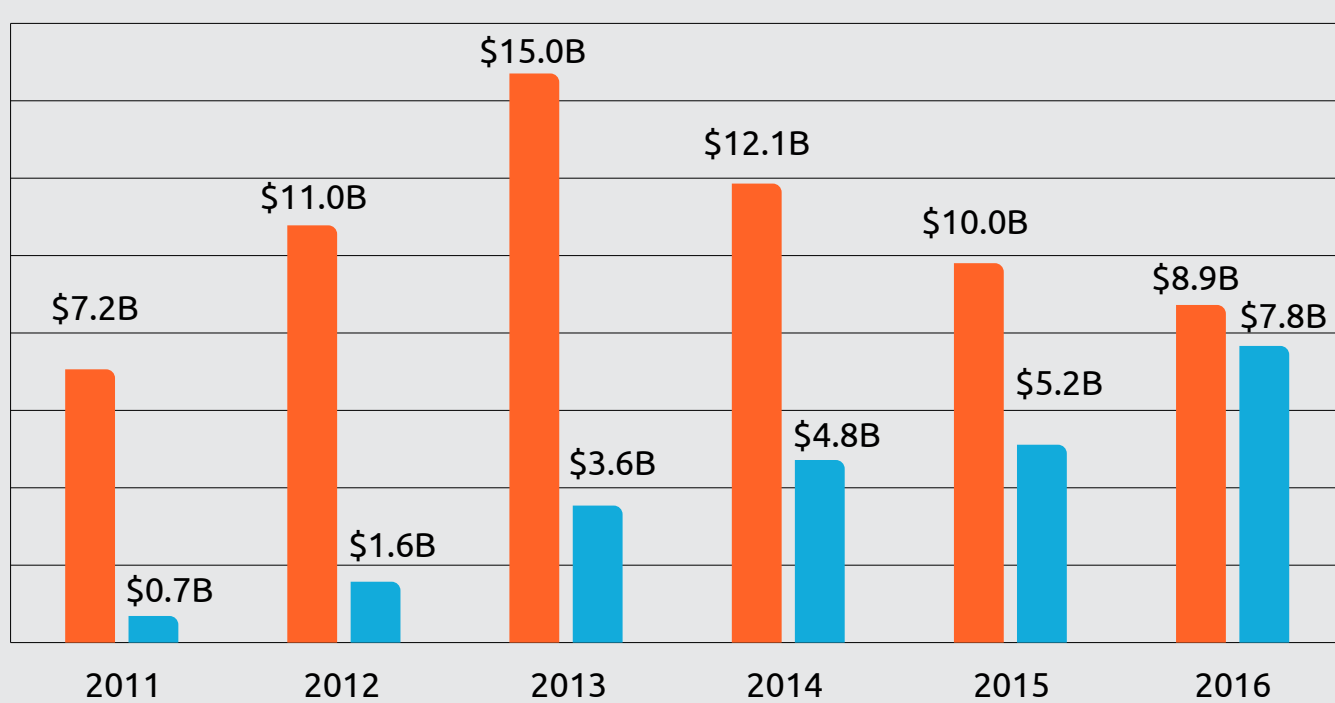
Concurrent with the growth in capacity additions, US Clean Energy Investment witnessed a decline in 2016, dropping to US\$58.8 billion, a 7% decline from 2015's all time record of US\$63.2 billion, a surge of 46% from 2014 levels



Source: Rhodium Group, Capgemini Analysis, WEMO2017

Rapid Growth Of Plug-In Electric Vehicles (US \$30.8 Bn) in 2016

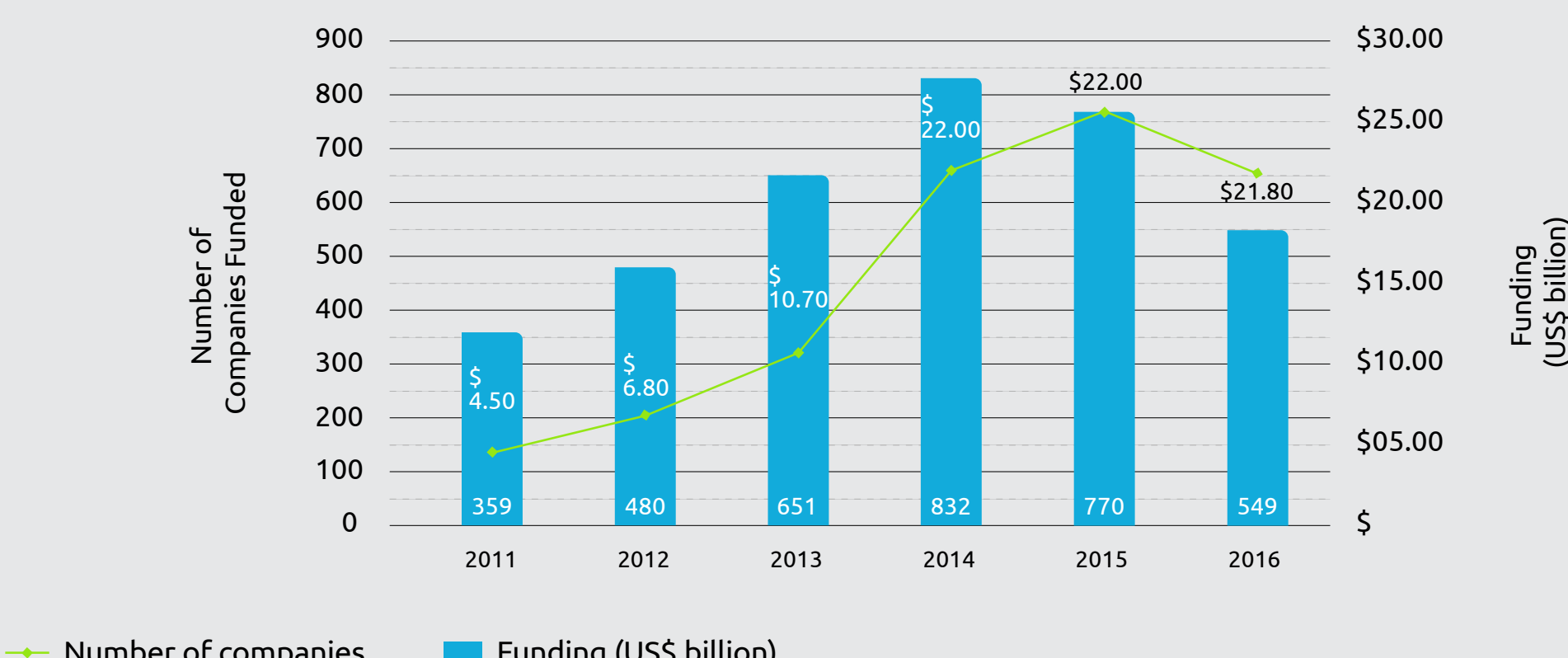
US Hybrid and Plug-in Electric Vehicle (PEV) Revenue 2011-2016 (US\$ billion)



If Revenue from PEV sales continues to grow at the same rate, it will eclipse Hybrids by the end of 2017

IoT revolution in North America is driving systems, applications, and devices, leading to home automation advances

Number of IoT Companies Funded and Total Funding (2011-2016)



<https://www.forbes.com/sites/johnkoetsier/2017/07/10/iot-in-the-usa-3000-companies-125b-in-funding-613b-in-valuation-342000-employees/#58ad1aba3ef5>

For more information, please visit:

www.capgemini.com/WEMO