









MOST INNOVATIVE DIGITAL PLATFORM FOR RENEWABLE ENERGY ASSET MANAGEMENT

**KAISERWETTER ENERGY** ASSET MANAGEMENT





Big Data, IoT and AI as the Key Elements of **Future Power Generation** 

17 July 2019



**2018** Best Renewable Energy Asset Managers Germany 2018

Top 100 Ideas of the Year

PREMIO ACTUALIDAD ECONOMICA IOO MEJORES IDEAS



**Best Energy** Company 2017



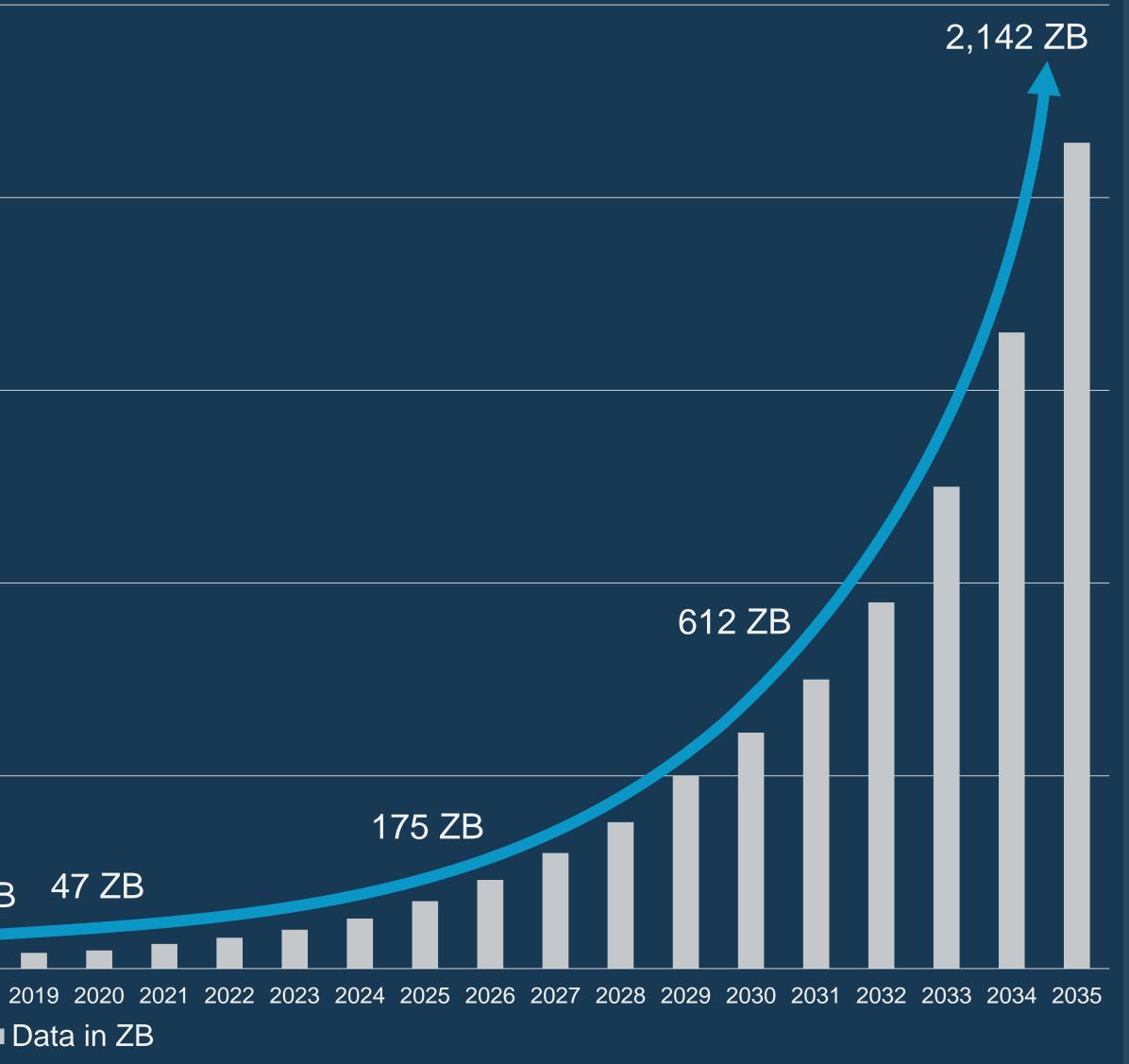
**Smart Data Analytics** Internet of Things Machine Learning Predictive Analytics Augmeneted Analytics Deep Learning Artificial Intelligence Demand Side Economies Digital Twin **Big Data Mining** 



#### The consequence of the increasing reliance on data will be a never-ending expansion in the K size of the global data sphere, which drives the GDP and the future economic world

2500			
2000			
1500			
1000			
500			
	2 ZB	12 ZB	33 ZE
0	2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018		

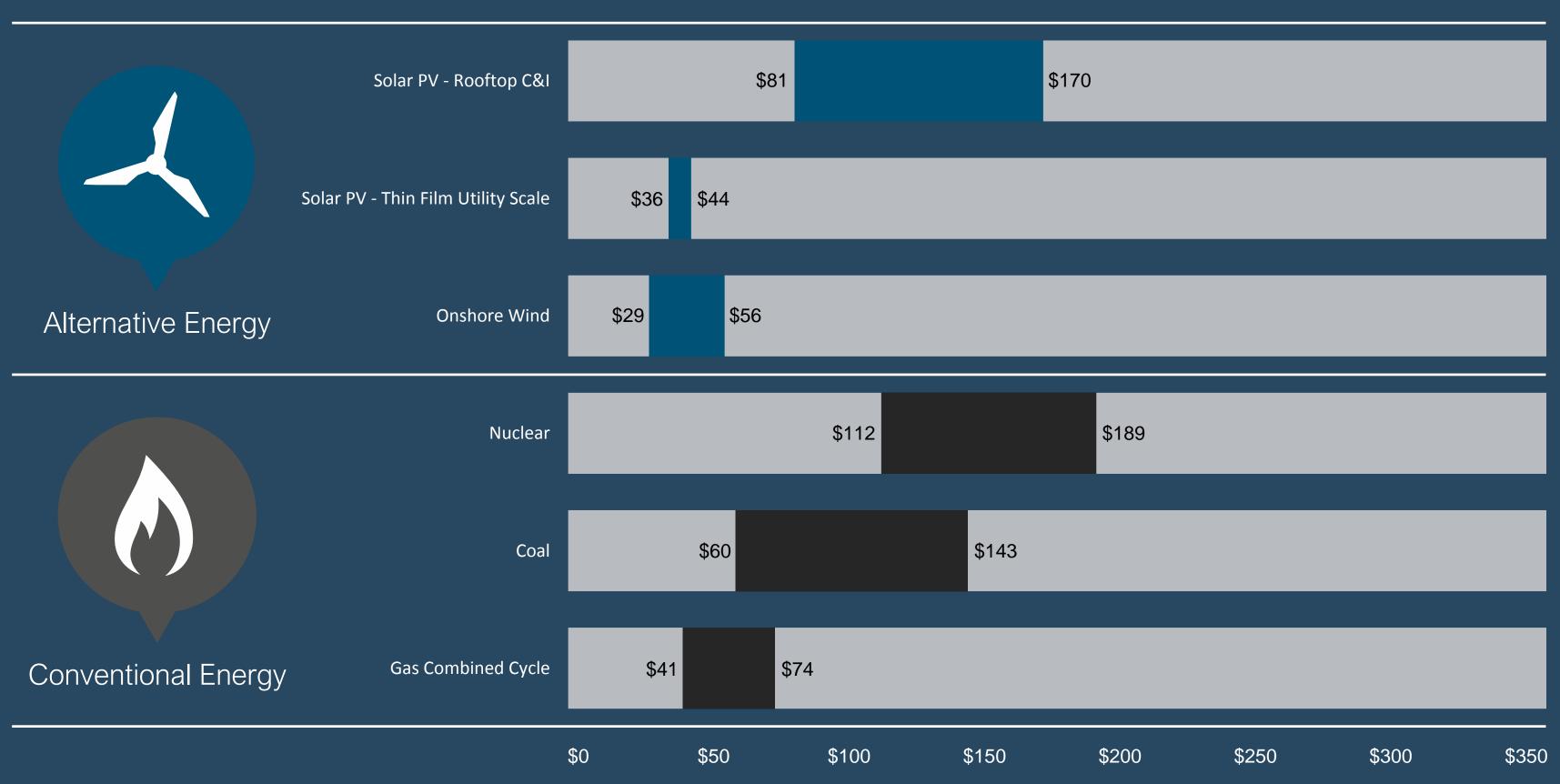
Source: IDC White Paper sponsored by Seagate: Data Age 2025. The Digitization of the World from Edge to Core, November 2018, Kleiner Perkins, Statista Digital Market Outlook



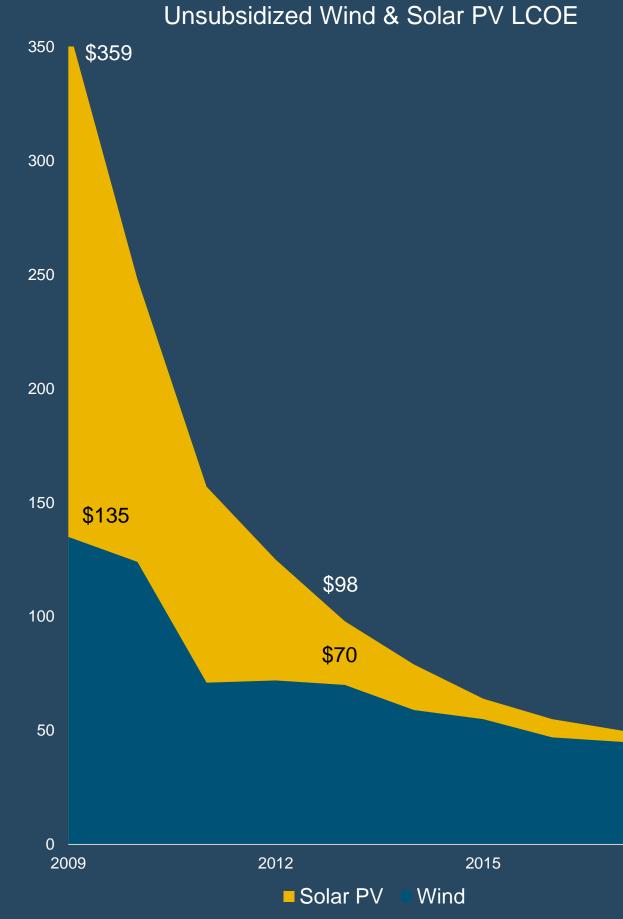


## Investing in renewable energy has never been such an attractive proposition!

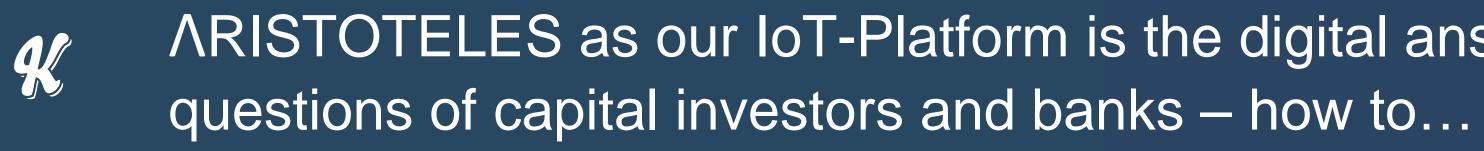
Levelized Cost (\$/MWh)



Source: Lazard's Levelized Cost of Energy Analysis, Version 12.0







## ...minimize Investment Risks



#### ...maximize Returns

## ... create highest Transparency

ARISTOTELES as our IoT-Platform is the digital answer to some of the most urgent

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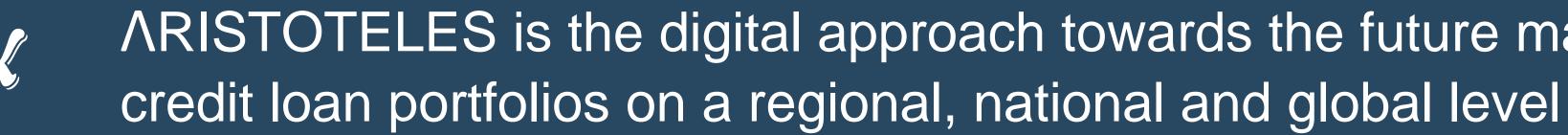
# credit loan portfolios on a regional, national and global level

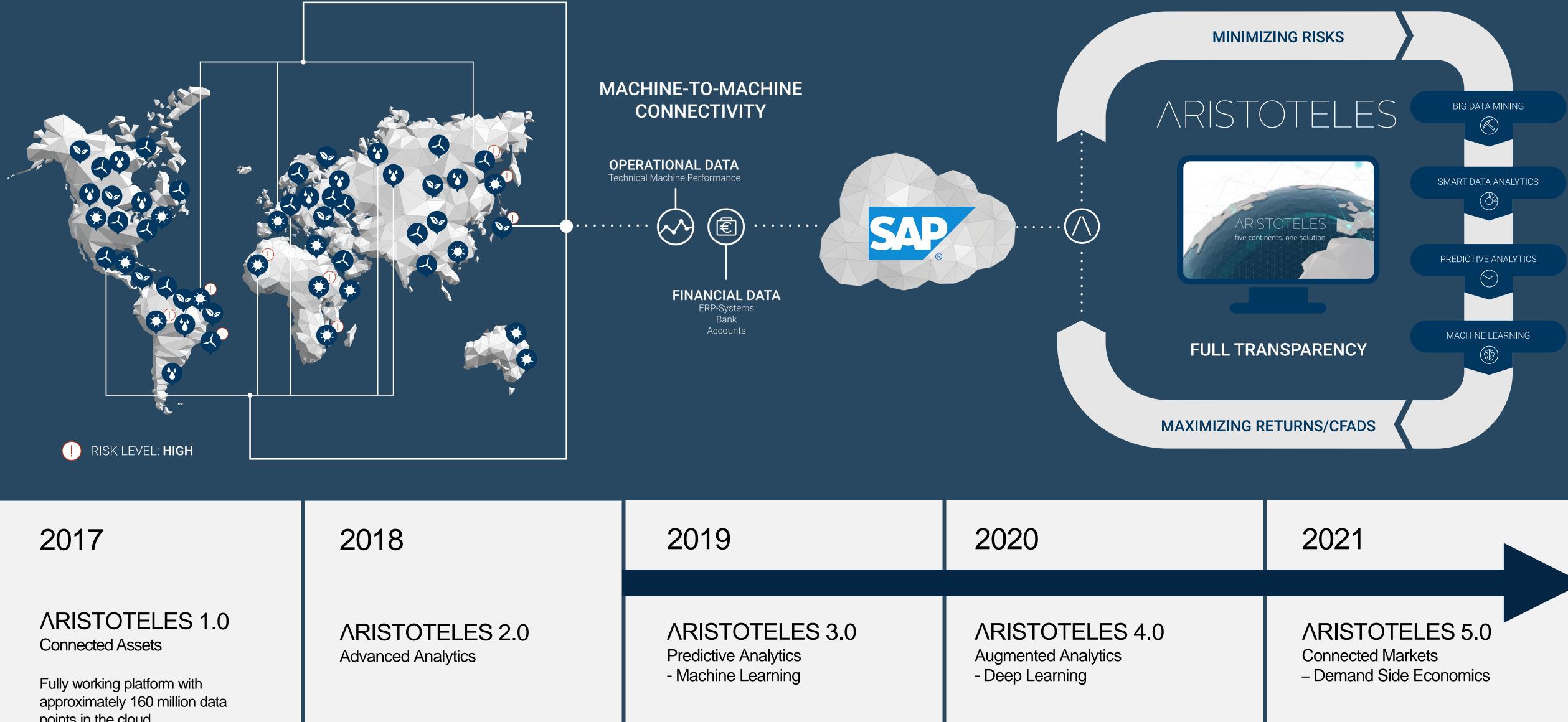




ARISTOTELES is the digital approach towards the future managing investment portfolios /







points in the cloud

# ARISTOTELES is the digital approach towards the future managing investment portfolios /





With all these digital innovations ARISTOTELES is putting all kinds of assets under one umbrella and ready to become the worldwide leading digital Platform defining the industrial standard

# five continents. one solution.



## CONVENTIONAL **ENERGY** BIOMASS STORAGE GRIDS FIRED





## together for a brighter tomorrow.

www.kaiserwetter.energy

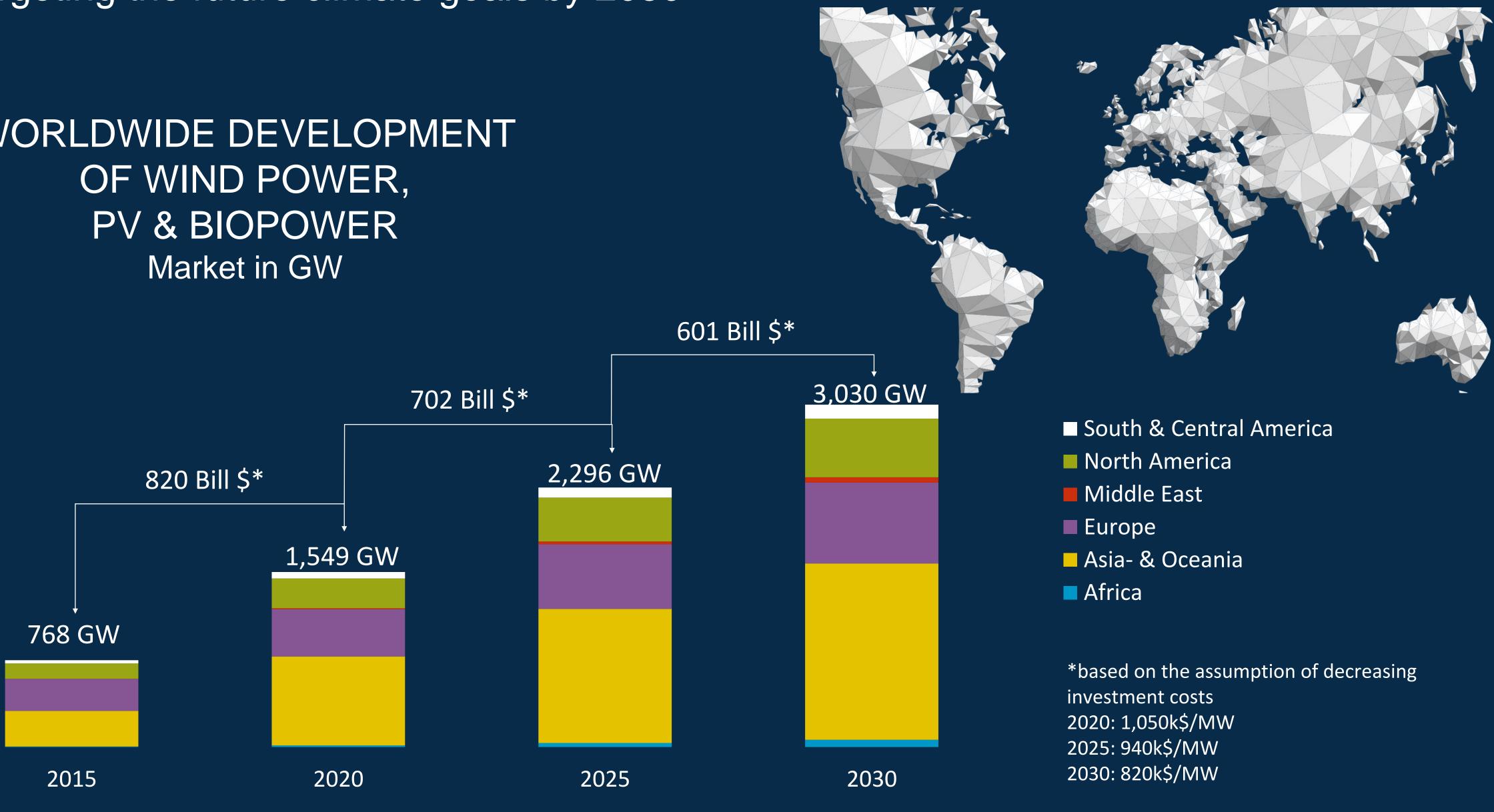






targeting the future climate goals by 2030

#### WORLDWIDE DEVELOPMENT OF WIND POWER, **PV & BIOPOWER** Market in GW

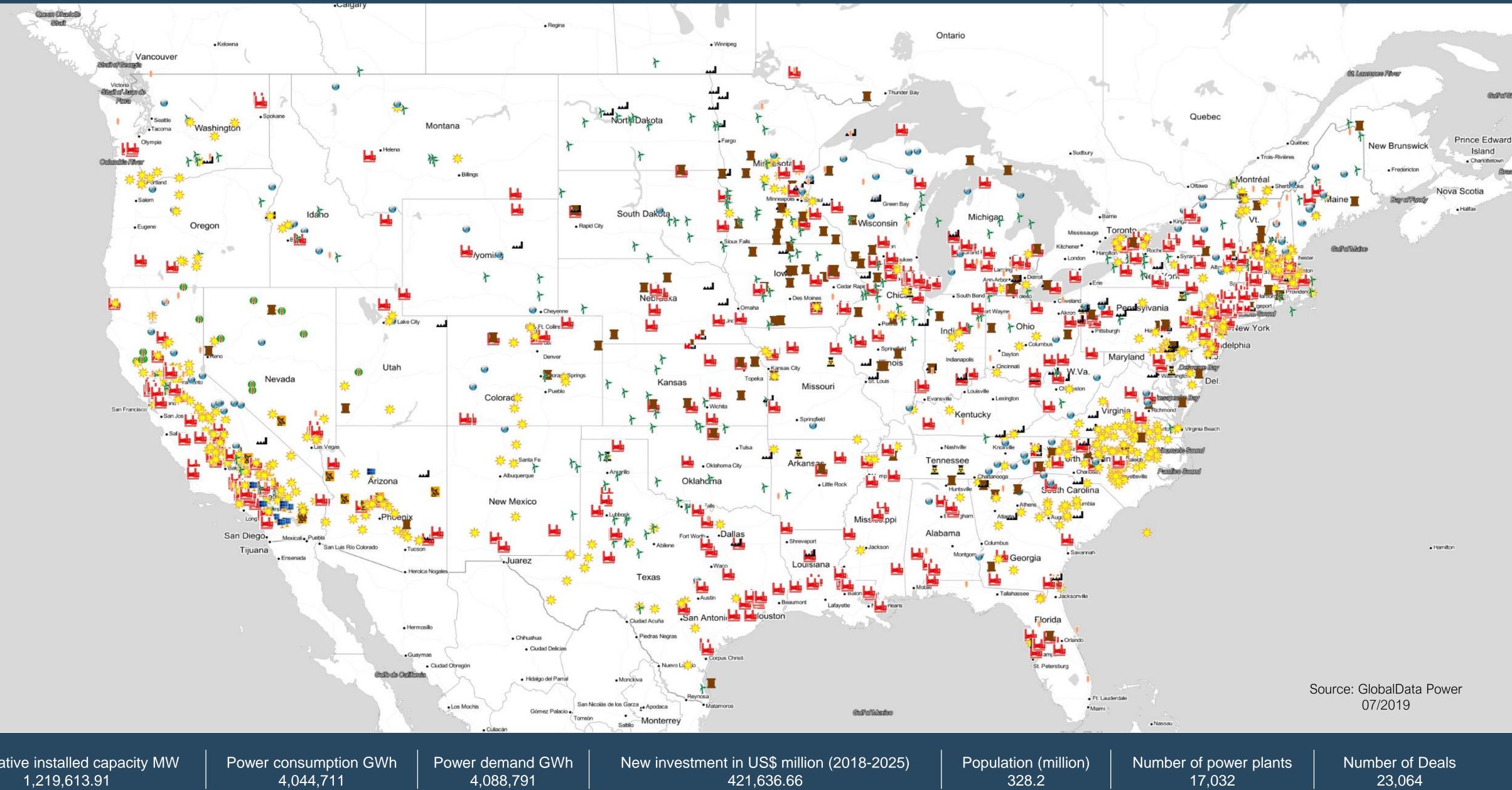


# Capital of \$1,800 Billions has to be invested in Renewable Energy around the world





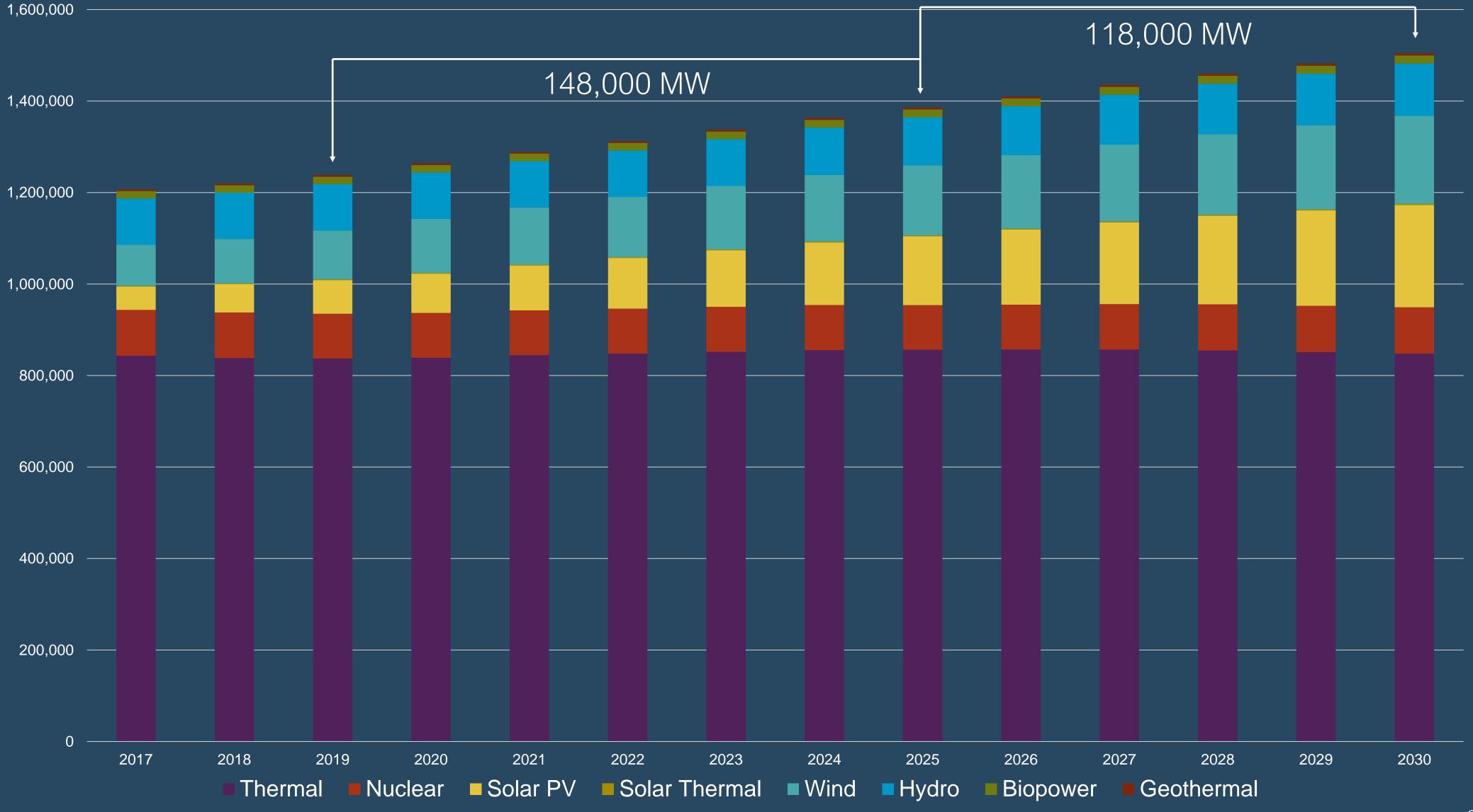
#### The United States have enormous potential for the expansion of renewable energy while most of its existing capacity is located at the east & west coast



Cumulative installed capacity MW

#### Between 2019 and 2030, the US market will invest \$ 250 billion for 266,000 MW in all kinds of energy generation assets

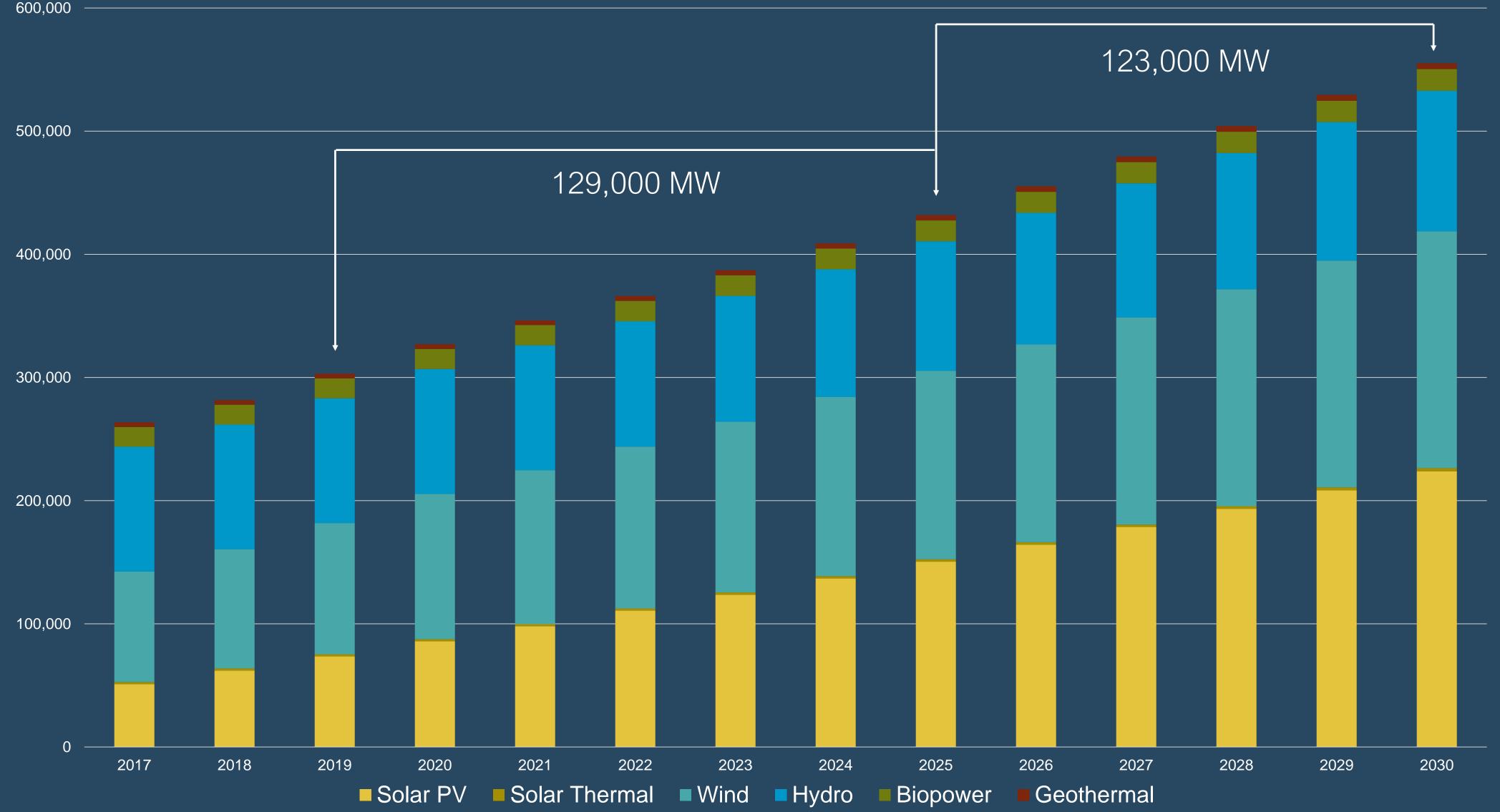
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#### Cumulative installed Capacity in MW



#### The share of renewable energies is enormous at \$ 237 billion for 252,000 MW. By contrast, the growth of conventional energies is slowing down



Cumulative installed Capacity of Renewable Energies in MW

