

# Jim Burke

**President and CEO** 

## Vistra: America's Leading Integrated Energy Company



## **Purpose: Lighting Up Lives, Powering A Better Way Forward**



### ~4 million retail

**customers** 

across the United States

## ~37,000 MW

generation capacity: enough to power 20 million homes





#### HOMEFIELD > DYNEGY ENERGY





#### **Retail Offices**

Cincinnati, OH Collinsville, IL Columbus, OH Houston, TX



#### **Total Employees**

~5,000



1. Announced March 6th 2023, and contingent upon receiving regulatory approvals and official closing of the Energy Harbor transaction

# **Our Three Top Priorities**

The priorities of **reliability**, **affordability** and **sustainability** remain at the top. The question is: *how do we accomplish all three*?

 #1 priority for electricity was reliability (84% very important)

> 79% say affordability is very important

47% say environmental friendliness as it relates to the energy supply is very important



According to a Morning Consult survey conducted summer 2021 of U.S. Adults

## **Focused On Our Customers**



Our customers and their priorities vary when it comes to their electric needs and plans.

Large C&I

Small businesses

Residential





## Sustainability: Environmental Stewardship

Vistra's green-focused targets emphasize its sustainability transition that balances **reliability** and **affordability** of power

#### **EMISSIONS REDUCTIONS**<sup>1</sup>



#### **VISTRA's PORTFOLIO TRANSFORMATION**

#### ~3,400 MW<sup>2</sup>

of zero-carbon generation currently online

#### ~15,150 MW

fossil generation retired since 2010, ~10,400 MW retired since 2018 and on track for ~20,000 MW total retired by 2027 (from 2010 baseline)



#### **Disciplined Zero-Carbon**

generation/storage growth over time

Vistra's goal to achieve a 60% reduction in noted emissions by 2030, as compared to the 2010 baseline, and net-zero carbon emissions by 2050, assumes necessary advancements in technology and supportive market constructs and public policy.
Includes Comanche Peak nuclear facility; does not include Energy Harbor nuclear generation.
As of YE 2022, and the full year reduction impact of recently retired coal units

# Competitive Market Is More Efficient

Price signal of competitive market also incentivizes demand side response

Free Nights & Solar Days First-of-its-kind plan providing residential customers 100% solar every day and free electricity every night, encouraging a shift of energy use to outside of peak

Opportunistic Demand Response Tool Assisting industrial customers with realtime demand response tool that allows adjusting their load during high price peak demand periods

## US Path to Net-zero – IEA Projects Energy Demand To Shift From 60% Fossils Today To ~90%+ Clean Energy By 2050...



Source: IEA stated policies generation forecast with a more conservative benchmark, assuming not all net-zero goals will be met

Increased penetration of renewables drives the shift away from fossil fuels

**Accelerated coal retirement** of coal – Dropping to ~0% by 2035

## Generation from nuclear stays fairly constant around 10-20%

Energy mix is only one part of the story, **capacity also needs to be considered** 



1. 4.5 GW wind, 2.5 GW solar, and 2 GW batteries (1-hour duration) based on the ERCOT grid

2. 1GW of CCGT @ Capital cost of \$968/kW (\$1.0B); 9GW of Wind + Solar + Battery (\$10.3B): 4.5GW wind @ \$1,307/kW, 2.5GW solar @ \$1,120/kW, 2GW 1-hr batteries @ \$807/kW Source: National Renewable Energy Lab (NREL) Annual Technology Baseline (ATB) to calculate cost of both technology scenarios

## Grid Needs Firm Resources To Be Reliable

Gas plants ramp up to support the grid load when wind generation drops



#### **ERCOT** generation during Winter Storm Mara

## Clean Technologies Have Incentives But Are Still Under Development



While many technologies hold promise – **reliability** and **affordability** will remain important criteria in addition to **sustainability** 

# Challenges Facing The Transition



## Need to recognize:

- Value of **reliability**
- Investment signals (market prices, PTC/ITC)
- **Speed** of transition