







SAFE HARBOR STATEMENT

B&W Enterprises cautions that this presentation contains forward-looking statements within the meaning of federal securities laws. All statements other than statements of historical or current fact included in this presentation are forward-looking statements, including, without limitation, statements relating to the company's business outlook and expected financial performance, including adjusted EBITDA and sales targets, expectations regarding future growth, expansion and profitability, outlook and expectations regarding B&W's BrightLoop™ technologies, as well as statements about B&W's future pipeline of new projects and business within its Renewable, Environmental and Thermal operating segments and their impact on future shareholder value. These forward-looking statements are based on management's current expectations and involve a number of risks and uncertainties, including, among other things, our ability to continue as a going concern, our ability to maintain effective internal control over financial reporting; the impact of global macroeconomic conditions, including inflation and volatility in the capital markets; the impact of our divestiture of Babcock & Wilcox Solar Energy, Inc. ("Babcock & Wilcox Solar" or "B&W Solar"); the refinancing of our senior debt; our ability to integrate acquired businesses and the impact of those acquired businesses on our cash flows, results of operations and financial condition, including our acquisitions of Babcock & Wilcox Renewable Service A/S, formerly known as VODA A/S ("VODA"), Fossil Power Systems, Inc. ("FPS"), Babcock & Wilcox Chanute, LLC, formerly known as Optimus Industries, LLC. and certain assets of Hamon Holdings Corporation ("Hamon"); our recognition of any asset impairments as a result of any decline in the value of our assets or our efforts to dispose of any assets in the future; our ability to obtain and maintain sufficient financing to provide liquidity to meet our business objectives, surety bonds, letters of credit and similar financing; our ability to comply with the requirements of, and to service the indebtedness under, our debt facility agreements; our ability to pay dividends on our 7.75% Series A Cumulative Perpetual Preferred Stock; our ability to make interest payments on our 8.125% senior notes due 2026 and our 6.50% notes due 2026; the highly competitive nature of our businesses and our ability to win work, including identified project opportunities in our pipeline; general economic and business conditions, including changes in interest rates and currency exchange rates; cancellations of and adjustments to backlog and the resulting impact from using backlog as an indicator of future earnings; our ability to perform contracts on time and on budget, in accordance with the schedules and terms established by the applicable contracts with customers; failure by third-party subcontractors, partners or suppliers to perform their obligations on time and as specified; delays initiated by our customers; our ability to successfully resolve claims by vendors for goods and services provided and claims by customers for items under warranty; our ability to realize anticipated savings and operational benefits from our restructuring plans, and other cost-savings initiatives; our ability to successfully address productivity and schedule issues in our B&W Renewable, B&W Environmental and B&W Thermal segments; our ability to successfully partner with third parties to win and execute contracts within our B&W Environmental, B&W Renewable and B&W Thermal segments; changes in our effective tax rate and tax positions, including any limitation on our ability to use our net operating loss carryforwards and other tax assets; our ability to successfully manage research and development projects and costs, including our efforts to successfully develop and commercialize new technologies and products; the operating risks normally incident to our lines of business, including professional liability, product liability, warranty and other claims against us; difficulties we may encounter in obtaining regulatory or other necessary permits or approvals; changes in actuarial assumptions and market fluctuations that affect our net pension liabilities and income; our ability to successfully compete with current and future competitors; our ability to negotiate and maintain good relationships with labor unions; changes in pension and medical expenses associated with our retirement benefit programs; social, political, competitive and economic situations in foreign countries where we do business or seek new business; the impact of the ongoing conflicts in Ukraine and the Middle East, the impact of pandemics or other global health crises, and the other factors specified and set forth under "Risk Factors" in our periodic reports filed with the Securities and Exchange Commission, including, without limitation, the risks described in the Company's Annual Report on Form 10-K for the year ended December 31, 2022 under the caption "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" (as applicable). These factors should be considered carefully, and B&W Enterprises cautions you not to place undue reliance on these forward-looking statements, which speak only as of the date of this presentation, and undertakes no obligation to update or revise any forward-looking statement, except to the extent required by applicable law.

Non-GAAP Financial Measures

Adjusted EBITDA on a consolidated basis is a non-GAAP metric defined as the sum of the adjusted EBITDA for each of the segments, further adjusted for corporate allocations and research and development costs. At a segment level, adjusted EBITDA presented is consistent with the way our chief operating decision maker reviews the results of operations and makes strategic decisions about the business and is calculated as earnings before interest expense, tax, depreciation and amortization adjusted for items such as gains or losses arising from the sale of non-income producing assets, net pension benefits, restructuring costs, impairments, gains and losses on debt extinguishment, costs related to financial consulting, research and development costs and other costs that may not be directly controllable by segment management and are not allocated to the segment. We present consolidated Adjusted EBITDA because we believe it is useful to investors to help facilitate comparisons of our ongoing, operating performance before corporate overhead and other expenses not attributable to the operating performance of our revenue generating segments. In this presentation, we also present certain targets for our adjusted EBITDA in the future; these targets are not intended as guidance regarding how we believe the business will perform. We are unable to reconcile these targets to their GAAP counterparts without unreasonable effort and expense due to the aspirational nature of these targets.

WE'RE A GLOBAL ENERGY LEADER CREATING A BRIGHTER FUTURE

Providing high quality and innovative technologies since 1867

- From our first patent for a more efficient boiler to more than 17,000 patents since, we continue to drive innovation and change
- Today, we are a globally recognized technology leader and innovator at the forefront of the energy transition

Ensuring energy security for customers and the world

- Helping utility and industrial customers with the technical challenges of moving from current to future energy sources
- Delivering systems, parts and field services to help utility and industrial plants operate more effectively and efficiently

Making net zero ambitions a reality today

 Our hydrogen production, carbon capture, waste- and biomass-to-energy, and environmental technologies support the reduction of greenhouse gases, including CO₂ and methane, in an environmentally friendly way



WE'RE HELPING CUSTOMERS CREATE CLEAN AND RELIABLE ENERGY



SUPPORTING A CIRCULAR ECONOMY

Ecologically sound ways of using and recycling resources like biomass and municipal waste to create clean, renewable baseload power while reducing greenhouse gas emissions.



REDUCING THE IMPACT OF GREENHOUSE GAS EMISSIONS

Hydrogen production, carbon capture, ash handling, cooling systems, energy recovery and storage, and advanced emissions control solutions to help preserve the world's natural resources.



CREATING RELIABLE AND EFFICIENT STEAM GENERATION

Providing boilers and related equipment, aftermarket parts, service and upgrades to help utilities and industries generate reliable thermal energy from a wide range of fuels and bridge the gap during the global transition to new energy sources.



THE FOUNDATION OF OUR COMPANY

Our Vision:

Advancing energy and environmental solutions that bring power and progress to our world.

Our Mission:

B&W delivers environmentally conscious, technology-driven solutions and services to energy and industrial customers worldwide – safely, ethically and as promised.

Our Core Values:

Safety • Integrity • Quality • Respect • Agility



WE'RE STRENGTHENING OUR BUSINESS TO ACHIEVE PROFITABLE GROWTH AS WE CONTINUE TO PROVIDE ENERGY TECHNOLOGIES

- Continue to expand geographical presence in Thermal and Renewable aftermarket parts and services
- Leverage our advanced thermal technologies to support gas conversion projects
- Increase focus on higher-margin aftermarket parts and services across all three business segments
- Implementing up to \$30 million in cost reductions associated with strategic realignment
- Entered into new \$150 million senior secured credit facility to reduce interest expense associated with letters of credit and revolving lines of debt
- Strengthen balance sheet and evaluate strategic alternatives for non-strategic assets
- Utilize state and federal project-level financing to accelerate deployment of BrightLoop™
- Utilize FEED studies to drive ClimateBright™ technology bookings
- Achieve full-year 2024 adjusted EBITDA of \$100M to \$110M, excluding BrightLoop™ and ClimateBright™ expenses



WE'RE LEVERAGING A VAST INSTALLED BASE AND PROVEN TECHNOLOGIES





- More than 500 waste-to-energy and biomass-to-energy units at 300+ facilities globally (consuming over 61 million tonnes of waste per year) and a leader in plant availability
- Serving utility, waste management, municipality and investment firm customers



- Large worldwide installed base of wet and dry scrubbers for SO_X reduction, particulate control equipment, NO_X reduction technologies, and mercury control systems to meet environmental regulations
- ▶ Flue gas pre-treatment technologies for use with CO₂ capture
- Nearly 2,000 wet, dry and hybrid cooling system units (10,000+ cells) installed globally



- More than 300 operating utility and industrial boiler units in the U.S. and nearly 200 operating utility and industrial boiler units across 40 countries around the world
- More than 5,000 industrial water-tube package boilers and other waste heat recovery products installed in a variety of facilities
- Average approximately 500,000 Boilermakers' construction manhours per year over last five years









BABCOCK & WILCOX PROFILE

CORPORATE SNAPSHOT

Headquarters: Akron OH, USA

Founded: 1867

Ownership: Public (NYSE:BW)

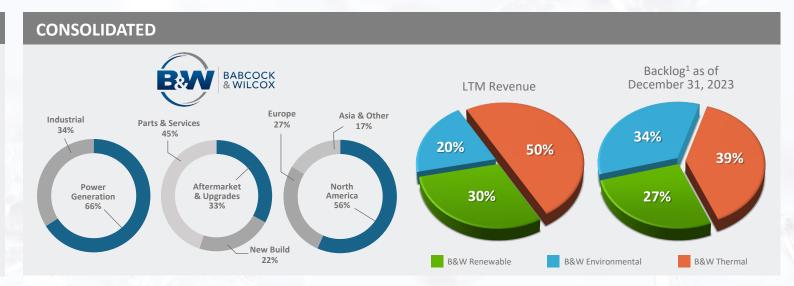
Employees: ~2,250

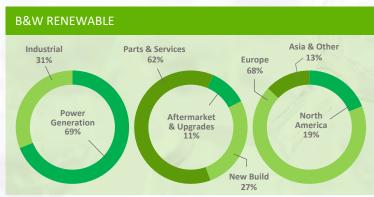
LTM Revenue

~\$999.4M

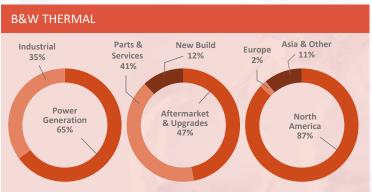
LTM Adjusted EBITDA: \$79.1M

2024 EBITDA Target: \$100M to \$110M²





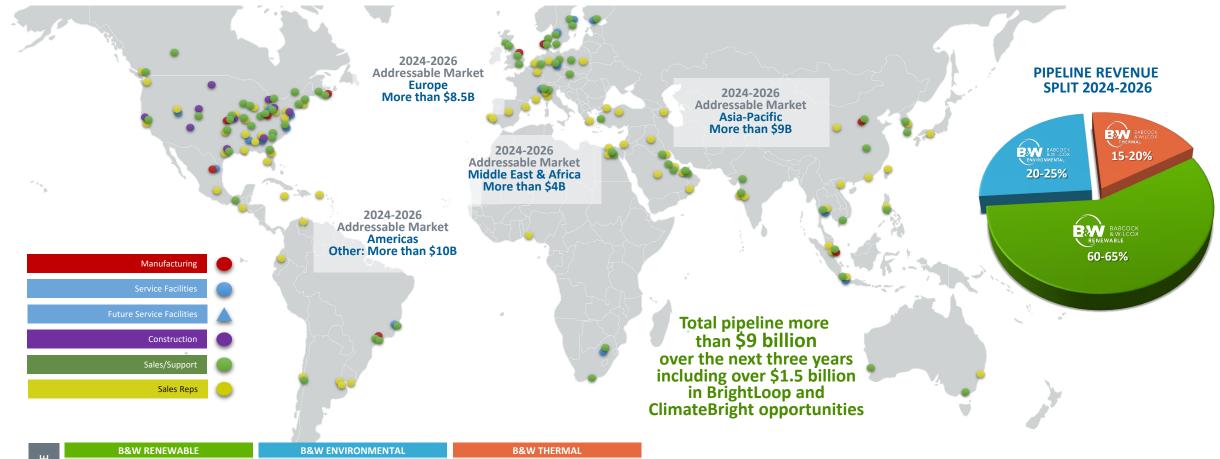




Notes: All charts based on LTM December 31, 2023 revenues, unless otherwise noted. 1. Backlog does not include shorter lead-time parts and services. 2. The most comparable GAAP target is not available without unreasonable effort. Target is based on continuing operations excluding BrightLoop™ and ClimateBright™ expenses.

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A SOLID PIPELINE OF GLOBAL OPPORTUNITIES





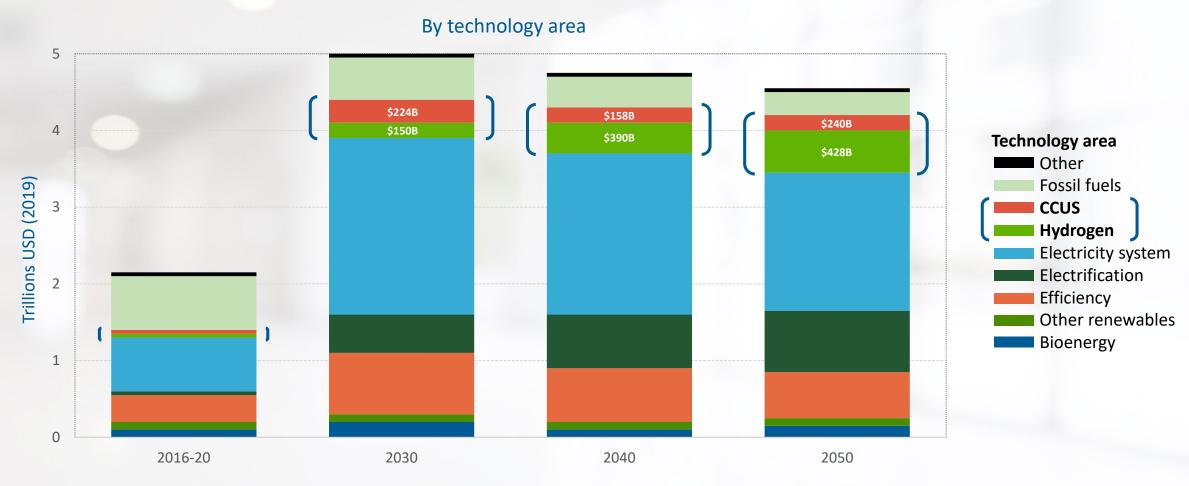




A WIDE FOOTPRINT AND ONGOING EXPANSION POSITIONS B&W TO LEVERAGE MARKET TRENDS AROUND THE WORLD

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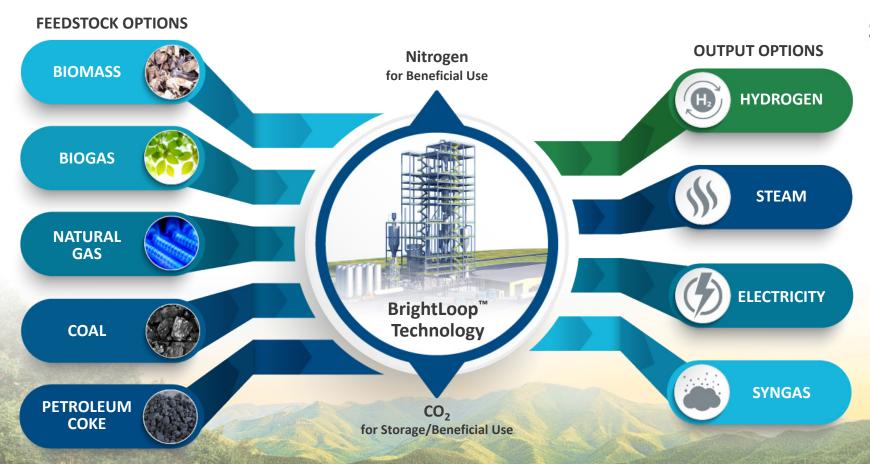
GLOBAL ANNUAL CAPITAL INVESTMENT IN CARBON CAPTURE AND HYDROGEN IS GROWING



ANNUAL AVERAGE CAPITAL INVESTMENT IN THE NET-ZERO EMISSIONS (NZE) SCENARIO

Source: IEA

BRIGHTLOOP™ HYDROGEN PRODUCTION

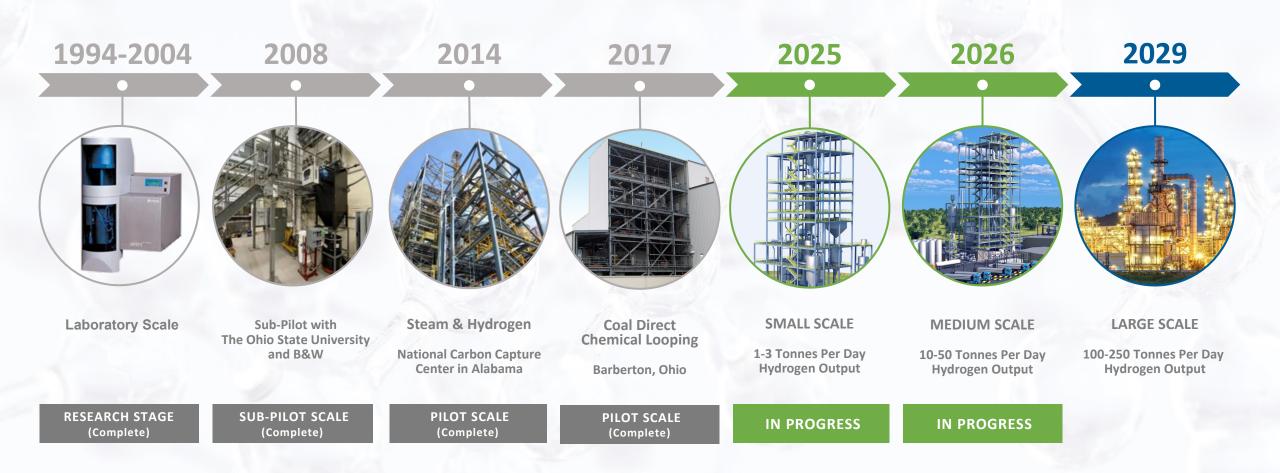


SIGNIFICANT ADVANTAGES:

- Hydrogen from solid fuels can utilize a variety of solid or gaseous fuels as feedstock
- High rate of carbon captured inherent CO₂ isolation supports sequestration or utilization without the expensive post combustion capture equipment and operation
- Competitive hydrogen cost lower levelized cost of hydrogen when compared to other hydrogen production methods
- High quality hydrogen production from steam produces higher quality as compared to separating hydrogen from fuel
- Scalable for a range of applications accommodates both large and small applications

BRIGHTLOOP™ HYDROGEN PRODUCTION PROGRESS

BRIGHTLOOP™ EVOLUTION



LEVERAGING DECADES OF FUNDING AWARDS AND INVESTMENTS

CONTINUE TO SCALE THIS INDUSTRY - CHANGING TECHNOLOGY

COAL DIRECT CHEMICAL LOOPING (CDCL)



2,000
OPERATING HOURS

50

STARTUP / SHUTDOWNS

NATIONAL CARBON CAPTURE CENTER (NCCC)



1,000
OPERATING HOURS

20

STARTUP / SHUTDOWNS

2009 CL with OSU 2010 NCCC Design & Construction 2010 NCCC Testing 2012 – 2014 CDCL DOE Techno-Economic Analysis 2016 – 2018 DOE Pre-FEED CDCL 2022 - Present Commercialization

THE OHIO STATE UNIVERSITY

TGA TESTING

500 10,000

TEST RUNS HOURS OF TESTING

3 Reactor SUB-PILOT

50

1,000

TEST RUNS HOURS OF TESTING

BENCH SCALE

200 5,000+
TEST RUNS HOURS OF TESTING

SUB-PILOT

50+

TEST RUNS

2,000+

HOURS OF TESTING

75
STARTUP / SHUTDOWNS

PATENTED IRON OXIDE PARTICLE

10,000+

CYCLE TIMES

3,000+

HOURS OF TESTING

10,000+





Experts Trained

70 OSU CL RESULTED PHDS
100 GRAD STUDENTS

250 OTHER STUDENTS AND STAFF

TOTAL R&D INVESTMENT

\$275M+

DOE GRANTS – STATE GRANTS – OSU – B&W to study impact of various feedstocks on hydrogen production and advance the technology

UNLOCKING FUTURE REVENUE POTENTIAL OF BRIGHTLOOP AND POSITION BASED ON MARKET

WITH SIGNIFICANT GROWTH OF HYDROGEN PROJECTED

Target Market Share

Achieving only 1% market share of a \$140B US market

Assumed Mix of Projects

3-5 Large Unit Projects2-4 Medium Unit Projects3-8 Small Unit Projects

2030 Approximate Revenue

***\$1 Billion**annual revenues at 25%+ Gross Margin

B&W currently has 8 projects in pipeline which alone total over \$1Billion

B&W Project Timeline:

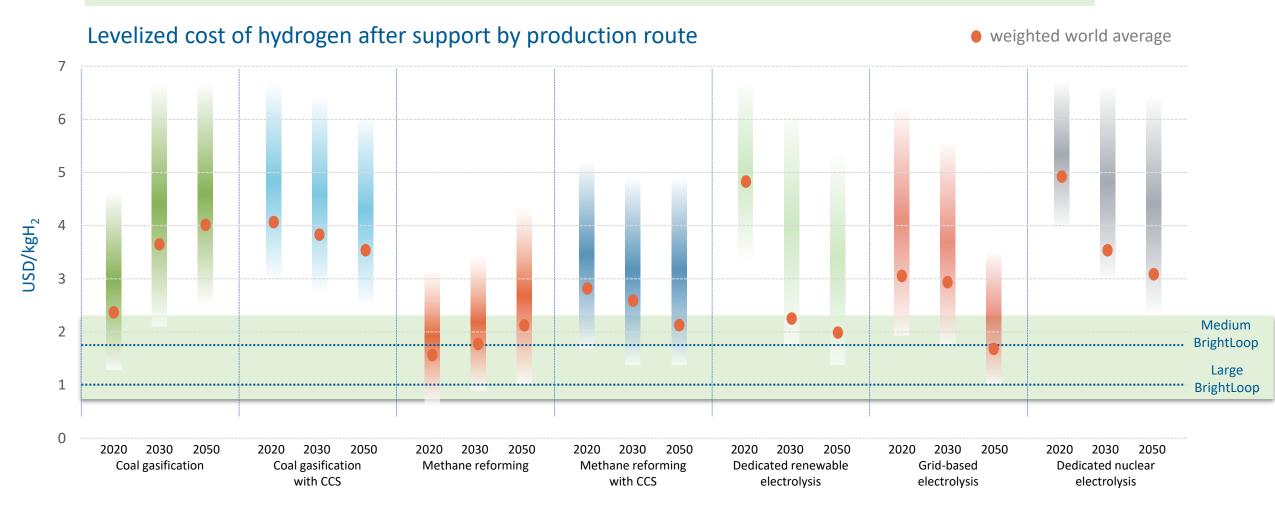
- 2025 Producing hydrogen from the first small unit
- 2026 Producing hydrogen from the first medium unit
- 2030 Booking multiple units of each size per year

*Market Data from IEA Net Zero by 2050 A Roadmap for the Global Energy Sector



HYDROGEN PRODUCTION AND COSTS

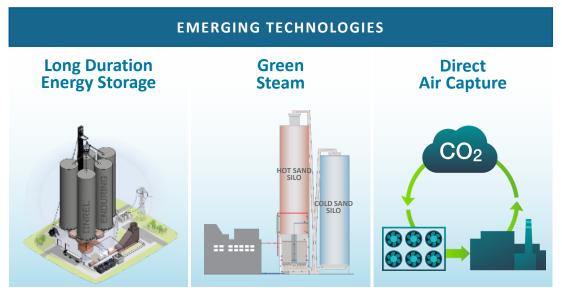
BrightLoop™ produces low-cost hydrogen compared to the competition



Note: BLH Projections based on \$1 / MMBTU feedstock; Source: DNV

GLOBAL LEADER IN CLEAN POWER PRODUCTION TECHNOLOGIES — OUR CLIMATEBRIGHT™ SUITE





- B&W is at the forefront of developing CO₂ capturing technologies
- Multiple technologies ready for commercial demonstration
- 93 active patents related to carbon capture technology
- Positioned to provide critical solutions to meet global climate goals

B&W'S PORTFOLIO OF CLEAN POWER PRODUCTION SOLUTIONS CONTINUES TO EVOLVE TO REACH CUSTOMERS AT ALL STAGES OF THEIR ENERGY TRANSITION.

INFLATION REDUCTION ACT FOR CLIMATEBRIGHT™

Clean Hydrogen Production Tax Credit (PTC): 45V

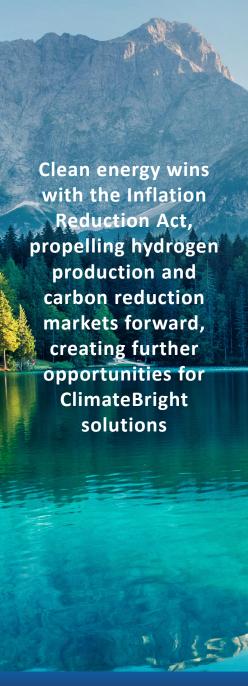
- New 10-year incentive for clean hydrogen production with four tiers and a maximum of 4 kilograms of CO₂ equivalent per kilogram of hydrogen
- Green hydrogen awards: \$3/kg

Carbon Capture and Sequestration Tax Credit: 45Q

- Increases the tax credits, lowers the threshold to be applicable, and adds direct air capture making carbon capture affordable
- CO₂ increases to \$85/ton and DAC increases to \$180/ton; 12-year term

Clean Electricity Investment Tax Credit (ITC): 48C

- New, tech-neutral ITC replaces Energy ITC after 2024, emissions-based and flexible between clean technologies
- Renewable energy offsets CapEx at 30%, with potential for multiple 10-20% bonuses



B&W'S WASTE-TO-ENERGY TECHNOLOGY REDUCES METHANE EMISSIONS



- Methane has 84 times the Global Warming Potential (GWP) of CO₂ⁱ
- Annual additions to landfills in the U.S. ii produce emissions equivalent to 10 million cars
- Landfills in the U.S.ⁱⁱⁱ emit more than 330 million tons of 20year basis GWP each year, roughly equal to 70 million cars^{iv}
- Waste-to-Energy (WTE) avoids landfilling while producing baseload clean energy

- **B&W's state-of-the-art technology** has been installed in more than 500 units in more than 30 countries, including:
 - The most recent WTE facility in the U.S.
 (Palm Beach Renewable Energy Facility, Florida)
 - One of the world's largest waste treatment facilities (Shenzhen East, China)







WTE TECHNOLOGIES

- Boiler/steam generation island
- DynaGrate® combustion grate
- Fuel handling systems
- Emissions control equipment

1 ton of waste in a LANDFILL emits 3.42 metric tons of global warming potential



Landfill methane is **84 times** as potent as CO₂.

1 ton of waste in a WASTE-TO-ENERGY
FACILITY emits .001 metric tons
of global warming potential



Reduced to .03% of Landfill GWP

B&W IS ACTIVELY DEPLOYING TECHNOLOGY THAT CURBS THE GLOBAL WARMING IMPACT OF METHANE

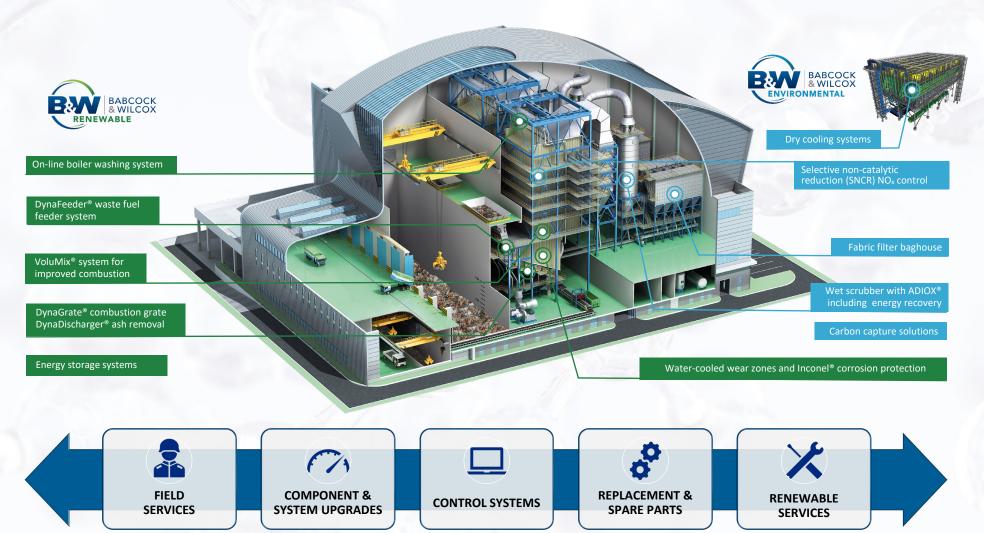
¹ Anthropogenic and Natural Radiative Forcing. In: Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. https://www.ipcc.ch/site/assets/uploads/2018/02/WG1ARS_Chapter08_FINAL_pdf. 20-year basis

^a EIA Biomass Explained: Waste-to-energy (Municipal Solid Waste), November 29, 2020 https://www.eia.gov/energyexplained/biomass/waste-to-energy.php

EPA Landfill Methane Outreach Program: Project and Landfill Data by State; https://www.epa.gov/lmop/project-and-landfill-data-state#:":text=The%20LMOP%20Landfill%20and%20Landfill,more%20than%202%2C600%20MSW%20landfills and EPA U.S. Greenhouse Gas inventory 2020, Chapter 7: Waste, Section 7.1 Landfills (CRF Source Category 5A1)

iv Equivalent car emissions calculated using EPA metric of 4.6 metric tons of CO2 per year per passenger car

GLOBAL LEADER IN COMPREHENSIVE WASTE-TO-ENERGY SOLUTIONS





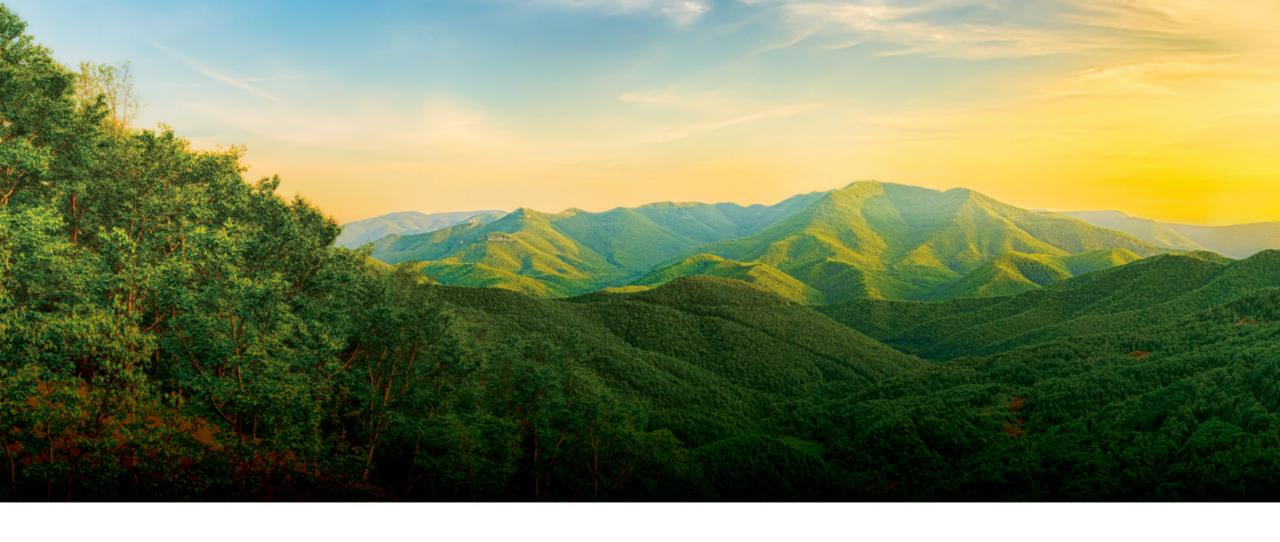
BIOENERGY WITH CARBON CAPTURE AND SEQUESTRATION (BECCS)

OxyBright with B&W's biomass-fired BFB boiler produces carbon negative electricity with a -2,500gCO₂e/kWh carbon intensity

OxyBright with B&W's WtE solution could produce carbon negative electricity with a -1,000 gCO₂e/kWh carbon intensity

Our negative carbon intensity (-2500 gCO_2e/kWh) is nearly seven times more negative than the US grid is positive (+373 gCO_2e/kWh)





FINANCIAL INFORMATION

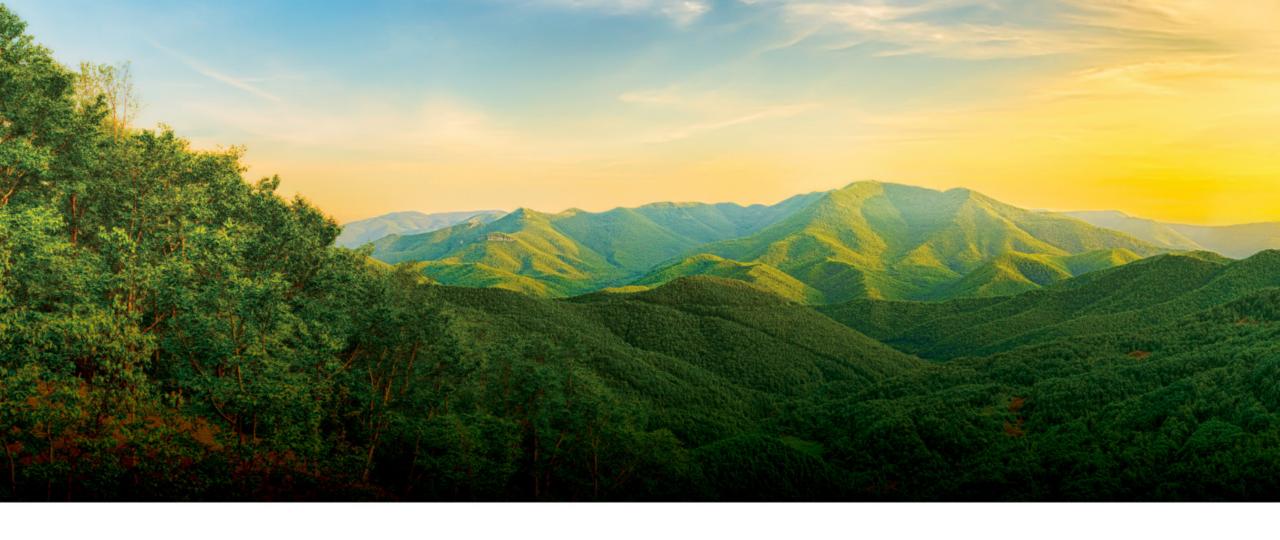
CONSOLIDATED FINANCIAL SUMMARY-CONTINUING OPERATIONS

(\$ in millions)	Twelve Months Ended <u>December 31, 2023</u>	Twelve Months Ended <u>December 31, 2022</u>	Twelve Months Ended <u>December 31, 2021</u>
Revenue	\$ 999.4	\$ 847.9	\$ 710.9
Operating Income (loss)	\$ 19.9	\$ 2.3	\$ 19.4
Income (loss) from continuing operations	\$ (78.6)	\$ (20.0)	\$ 29.3
Adjusted EBITDA ⁽¹⁾	\$ 79.1	\$ 67.5	\$ 67.2
Adjusted EBITDA Margin % ⁽¹⁾	7.9%	8.0%	9.5%

Note: Figures may not be clerically accurate due to rounding.

⁽¹⁾ Adjusted EBITDA for 2023 was \$8.41 when excluding \$5.0 million non-recurring expenses. Adjusted EBITDA for 2022 was \$71.8 million when excluding \$4.3 million non-recurring expenses related to BrightLoop and ClimateBright. Adjusted EBITDA for 2022 was \$71.8 million when excluding \$4.3 million non-recurring expenses related to BrightLoop and ClimateBright. Adjusted EBITDA Margin for 2022 was 8.5% when excluding the impact of the \$4.3 million non-recurring expenses.

⁽²⁾ Net income (loss) attributable to stockholders of common stock for the twelve months ended December 31, 2023 includes Loss from discontinued operations of (\$118.3) million.



APPENDIX

CAPITAL STRUCTURE

(\$ in millions)		of December 31, 2023		
CAPITALIZATION:				
Total Debt	\$	379.5		
Cash, cash equivalents and restricted cash		71.3		
Net Debt	\$	308.2		

Note: Figures may not be clerically accurate due to rounding.



LEADERSHIP TEAM









Chairman and Chief Executive Officer

Kenny Young



Executive Vice President and Chief Financial Officer

Lou Salamone



Executive Vice President and Chief Operating Officer

Jimmy B. Morgan



Executive Vice President, General Counsel and Corporate Secretary

John J. Dziewisz



Chief Technology Officer

Brandy Johnson



Vice President, Corporate Operations

Gillianne Hetrick



Senior Vice President, Thermal

Chris Riker



Vice President, Corporate Development

Sarah Serafin

CORPORATE GOVERNANCE

BOARD OF DIRECTORS



Chairman and
Chief Executive Officer
Kenny Young





Homaira Akbari



Rod O'Connor



Henry Bartoli



Rebecca Stahl



Joseph Tato



Peter O'Keefe



Eric Powell



Alan Howe



Philip Moeller

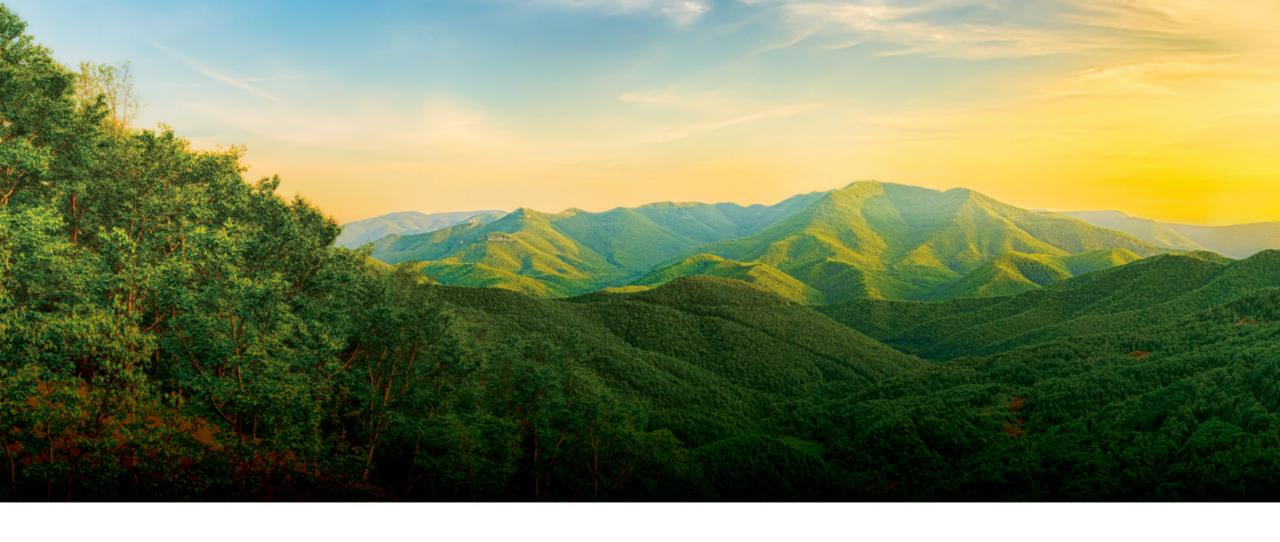


Naomi Boness

ADJUSTED EBITDA RECONCILIATION – CONTINUING OPERATIONS⁽¹⁾

(\$ in millions)	Twelve Months Ended December 31, 2023 ⁽³⁾	Twelve Months Ended December 31, 2022 (4)	Twelve Months Ended December 31, 2021
Income (loss) from continuing operations	\$ (78.6)	\$ (20.0)	\$29.3
Interest expense	48.7	44.2	39.0
Income tax (benefit) expense	8.5	11.1	(2.0)
Depreciation & amortization	20.0	21.6	16.3
EBITDA	(1.4)	56.9	82.6
Benefit plans, net	37.5	(37.5)	(48.1)
Gain on sales, net	0.1	(2.5)	(14.0)
Gain on debt extinguishment		4	(6.5)
Stock compensation	7.1	8.7	10.5
Restructuring activities and business services transition costs	5.7	8.5	10.7
Advisory fees for settlement costs and liquidity planning	1.1	1.5	5.5
Litigation legal costs (recoveries)	(1.5)	10.7	4.9
Acquisition pursuit and related costs	0.8	5.5	4.8
Contract disposal (O&M)	8.6	3.0	_
Product development ⁽²⁾	9.0	4.1	4.7
Foreign exchange	2.5	0.6	4.3
Financial advisory services	- 1111	1.4	2.7
Loss from business held for sale	- ///	· ·	0.6
Letter of credit fees	7.7	5.2	1.6
Other – net	2.0	1.5	2.9
Income from discontinued operations	<u> </u>		_
Adjusted EBITDA	\$79.1	\$67.5	\$67.2
Adjusted EBITDA Exc. BrightLoop and ClimateBright expenses	\$84.1	\$71.8	\$67.2

- Adjusted EBITDA is a non-GAAP Measure; figures may not be clerically accurate due to rounding.
- Cost associated with development of commercially viable products that are ready to go to market.
- Adjusted EBITDA for the twelve months ended December 31, 2023 includes \$5.0 million non-recurring expenses related to BrightLoop and ClimateBright.
- Adjusted EBITDA for the twelve months ended December 31, 2022 includes \$4.3 million of non-recurring expenses related to BrightLoop and ClimateBright.



KEY TECHNOLOGIES AND CAPABILITIES

KEY TECHNOLOGIES: STEAM GENERATION





Utility Boilers

High pressure, high efficiency, high capacity, low emissions

Fuel: Coal, oil, natural gas, multi-fuel



Natural Gas-Fired and Other Industrial Water-Tube and Fire-Tube Boilers

Bottom- or top-supported, shop- or field-assembled Fuel: Natural gas, oil, CO, waste heat and gases



Heat Recovery Steam Generator Components

Pressure parts, casing, ducting, drums, housing and frames

Fuel: Waste heat and gases





Waste-to-Energy Boilers

Reduces dependency on landfills and reduces methane gas emissions

Fuel: MSW, RDF



Biomass-Fired Boilers

Carbon-neutral technology

Fuel: Wood, wood waste, straw, sludge



Process Recovery Boilers

Single-drum, industry-standard unit for improved mill operation

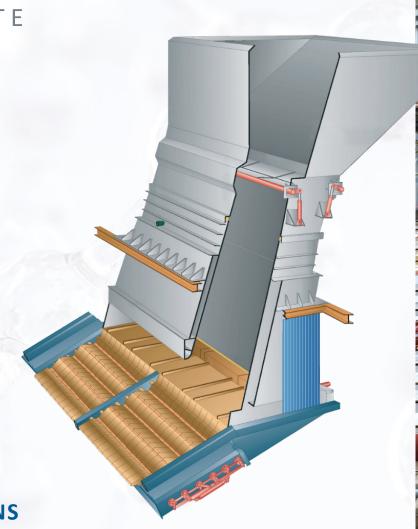
Fuel: Black liquor

KEY TECHNOLOGIES: RENEWABLE COMBUSTION GRATES

DYNAGRATE® COMBUSTION GRATE

- Large installed base with diverse set of customers
- Grate design allows for high availability and long operational time, leading to reduced O&M cost
- High thermal efficiency and low emissions
- Fuel flexibility
- Factory assembled modules reduce field construction

A MARKET LEADER WITH DIFFERENTIATING TECHNOLOGY IN WASTE-TO-ENERGY SOLUTIONS



KEY TECHNOLOGIES: EMISSIONS CONTROLS

PURPOSE	TECHNOLOGY SOLUTION	PURPOSE	TECHNOLOGY SOLUTION	
Particulate Control	 Pulse Jet Fabric Filters (PJFF) / Baghouses Wet and Dry Electrostatic Precipitators (ESPs) Wet Particulate Scrubbers Multiclone® Dust Collectors 	Mercury, Dioxins, Furans	 Powdered Activated Carbon Injection Absorption Plus™, MercPlus™, Mitagent™ Additives GMAB™ ADIOX® and MERCOX™ technologies 	
NO _x Control	 Selective Catalytic and Non-catalytic Reduction (SCR/SNCR) Low NO_X Burners and Combustion Systems 	Wastewater Elimination	 Wastewater Evaporation System (WES) via Spray Drying Air-Cooled Condensers 	
SO ₂ / Acid Gas Control	 Wet or Seawater Flue Gas Desulfurization (FGD) Systems Semi-dry FGDs (Spray Dry Absorbers, Circulating Dry Scrubbers) Wet ESPs and Dry Sorbent Injection (DSI) 	Pre-treatment for Post- Combustion Carbon Capture	 Wet and Dry Scrubbers, Sorbent Injection, ESP Fabric Filters, SCRs Complements SolveBright process, other post-combustion technologies 	
SO ₃ / Acid Mist Control	Wet ESPsDry Sorbent Injection (DSI)			



KEY TECHNOLOGIES: FLUE GAS TREATMENT FOR CARBON CAPTURE

- To optimize carbon capture on solvent-based scrubbing technologies, reductions in various pollutants found in the incoming flue gas are required
- Our solutions include technologies for acid gases, particulate and acid mist, NO_x mercury, and flue gas moisture













FLUE GAS









TECHNOLOGIES



THE WORLDWIDE LEADER IN FLUE GAS PRE-TREATMENT **TECHNOLOGIES FOR POST-COMBUSTION CARBON CAPTURE**



KEY TECHNOLOGIES: SUBMERGED GRIND CONVEYOR ASH HANDLING

Designated to meet current and future U.S. regulatory requirements for ash handling with:

- Lower equipment cost
- Lower installation cost
- Ability to utilize existing hoppers and gate valves
- No hopper modifications
- Short outage time
- Short lead time
- Available redundancy under the boiler
- Lower O&M costs



AN INNOVATIVE SOLUTION TO ELIMINATE ASH PONDS

BABCOCK

KEY TECHNOLOGIES: COOLING SYSTEMS



WET



NATURAL DRAFT/HYPERBOLIC

Fanless design provides low power, noise and maintenance, as well as long operating lifecycle



MECHANICAL DRAFT

Counterflow for cost-effective thermal performance; crossflow for low energy consumption and operating costs

HYBRID



HYBRID WET/DRY COOLING

Environmentally friendly hybrid design combines benefits of both wet and dry cooling technology as the optimal solution for plume abatement and water savings

MATERIAL OPTIONS:

WOOD CONCRETE FIBER-REINFORCED POLYMER (FRP)

DRY



AIR-COOLED CONDENERS

Water preservation technology customized for high-performance, long-life, low noise, corrosion-resistant applications



AIR FIN COOLERS

Cost-effective designs using embedded or wrapped tubes to meet required thermal, mechanical, noise, and space requirements

SERVICES



OPTIMIZATION SERVICES

Specialized services to maximize plant performance and minimize costs and maintenance

KEY CAPABILITIES: AFTERMARKET SERVICES







UPGRADES & RETROFITS

Maintaining/improving plant operation:
Projects for extending the life of power, process and environmental equipment

REPLACEMENT PARTS

Supplying components for system reliability: High-quality standard or custom-engineered pressure and nonpressure parts

OPTIMIZATION SYSTEMS

Enhancing efficiency with proven technology: Diagnostic, monitoring, tuning and control systems for combustion, cleaning and cooling equipment

ENGINEERING SERVICES

Evaluating options for improved performance: Expert people, tools and processes to measure, model, design, deliver, train, and project manage

CONSTRUCTION

Adding value through constructability:
Safe execution of new installation, retrofits, system maintenance/repair, plant modifications

















KEY TECHNOLOGIES: IGNITORS, FLAME SCANNERS AND CONTROLS

Designed for safety, reliability and fuel flexibility

- Natural gas conversions from oil- or coal-firing
- Alternative energy fuels such as hydrogen, bio-diesel, methanol, and bio-gas
- Burner management and controls for complete turnkey system capability
- Flame scanning capability can be effectively implemented on any industrial application
- Technologies can be utilized for new construction or retrofit projects
- Safety standards conforming to National Fire Protection Association (NFPA) classes

PROVEN TECHNOLOGIES WITH INSTALLATIONS IN MORE THAN 70 COUNTRIES, INCLUDING MORE THAN 11,000 IGNITORS

