







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.

BRIGHTLOOP™ - B&W'S INNOVATIVE HYDROGEN GENERATION TECHNOLOGY SUPPORTS GLOBAL 2050 CLIMATE GOALS

PRIMARY HYDROGEN (H₂) PRODUCTION METHODS TODAY:

- Steam Methane Reforming: natural gas converted to hydrogen and carbon dioxide using a catalyst with additional processes needed for carbon capture
- Autothermal Reforming: syngas produced from natural gas, along with further processes creates hydrogen and carbon dioxide
- Gasification: carbonaceous fuels converted at high temperature into carbon monoxide, hydrogen and carbon dioxide which must all be separated with further processing
- Electrolysis: electricity used to convert water into hydrogen and oxygen

2030 H₂ GLOBAL MARKET

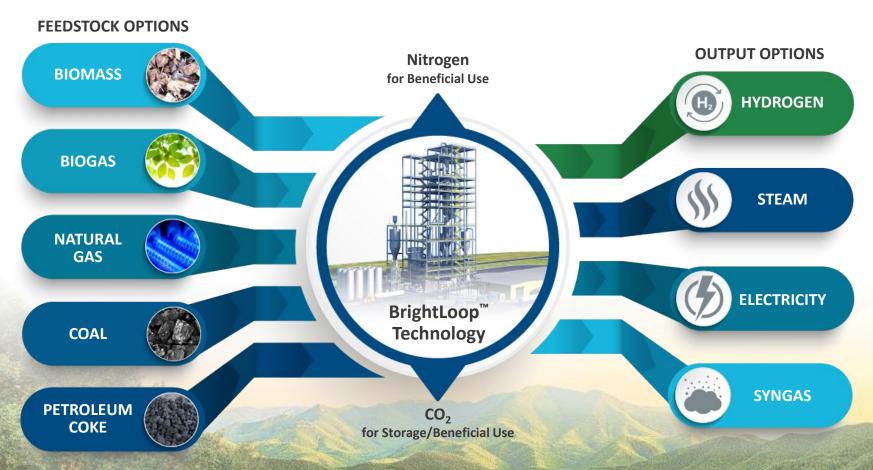
- 165 million Tonnes/Year (500,000 tonnes/day) from electrolysis, steam methane reforming, auto-thermal reforming, gasification, chemical-looping and other novel technologies
- US Department of Energy projects that the US will be producing 10 million Tonnes/year
- Current State: 70 million Tonnes/Year of high cost, high carbon intensity hydrogen from steam reforming of natural gas, gasification and electrolysis

*Data from IEA Net Zero by 2050 A Roadmap for the Global Energy Sector & US Department of Energy US National Clean Hydrogen Strategy and Roadmap

INCENTIVES DRIVING HYDROGEN MARKET

United States Incentives – Inflation Reduction Act		
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 CO ₂ equivalent per kilogram of hydrogen	
Carbon Capture & Sequestration Tax Credit 45Q Increases the tax credits, lowers the threshold to be applicable, and adds direct air capture making carbon capture affordable		
Advanced Energy Project Credit (ITC) 48C	New, tech-neutral ITC replaces Energy ITC after 2024, emissions-based and flexible between clean technologies	
Hydrogen Hubs		
European Union Incentives – European Green Deal, EU Hydrogen Strategy and REPowerEU		
European Hydrogen Bank	Auction structure to support clean hydrogen production. Each project bids into the auction to determine whether they will receive the subsidy.	
Important Projects of Common European Interest	Public funding supporting private financing which is available for projects which are strategic needed to implement the EU Strategy	

BRIGHTLOOP™ HYDROGEN PRODUCTION



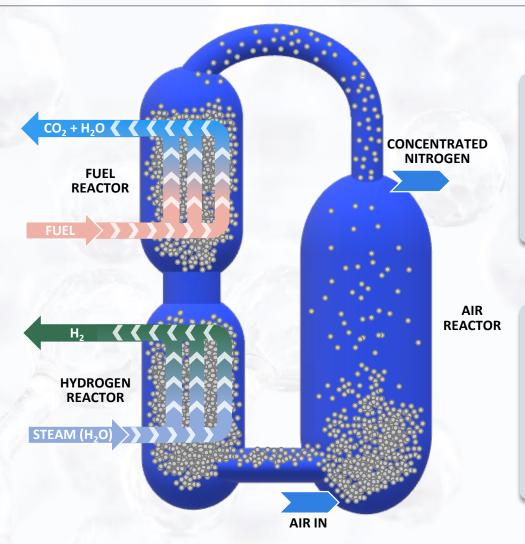
SIGNIFICANT ADVANTAGES:

- 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™ CHEMICAL LOOPING OVERVIEW

Fuel reactor – moving bed design that allows full reaction of particle to achieve FeO state of the particle

Hydrogen reactor – hydrogen is created from the steam reacting



Patented iron oxide particle -

oxidation state of particle is controlled through chemical reactions as it moves around the system

Depleted Air and CO₂ streams – heat exchangers to create steam for use in the hydrogen reactor and concentrated streams allow for small footprint equipment to clean up any pollutants in the streams

with the hot particle

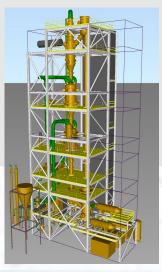
BRIGHTLOOP IDEAL FOR WIDE RANGE OF APPLICATIONS

CREATES HYDROGEN WITHOUT INCINERATION OR GASIFICATION

SMALL SCALE

1-3 tonnes per day of H₂ for industry, industrial equipment or transportation.

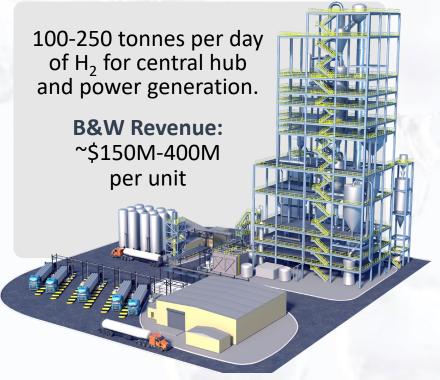
B&W Revenue: ~\$5-30M per unit



MEDIUM SCALE



LARGE SCALE



Hydrogen available for: Industrial processes, transportation fuels, ammonia and methanol production, and power generation.

LEVERAGING DECADES OF FUNDING AWARDS AND INVESTMENTS

CONTINUE TO SCALE THIS INDUSTRY - CHANGING TECHNOLOGY

COAL DIRECT CHEMICAL LOOPING (CDCL)



2,000 **OPERATING HOURS**

STARTUP / SHUTDOWNS

NATIONAL CARBON CAPTURE CENTER (NCCC)



1,000

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

OSU CL RESULTED PHDs

THE OHIO STATE UNIVERSITY

TGA TESTING

10,000

TEST RUNS HOURS OF TESTING

3 Reactor SUB-PILOT

50

1,000

TEST RUNS HOURS OF TESTING

BENCH SCALE

TEST RUNS HOURS OF TESTING

SUB-PILOT

50+

TEST RUNS

HOURS OF TESTING

STARTUP / SHUTDOWNS

PATENTED IRON OXIDE PARTICLE

10,000+

CYCLE TIMES

3,000+

HOURS OF TESTING

TOTAL TESTING HOURS



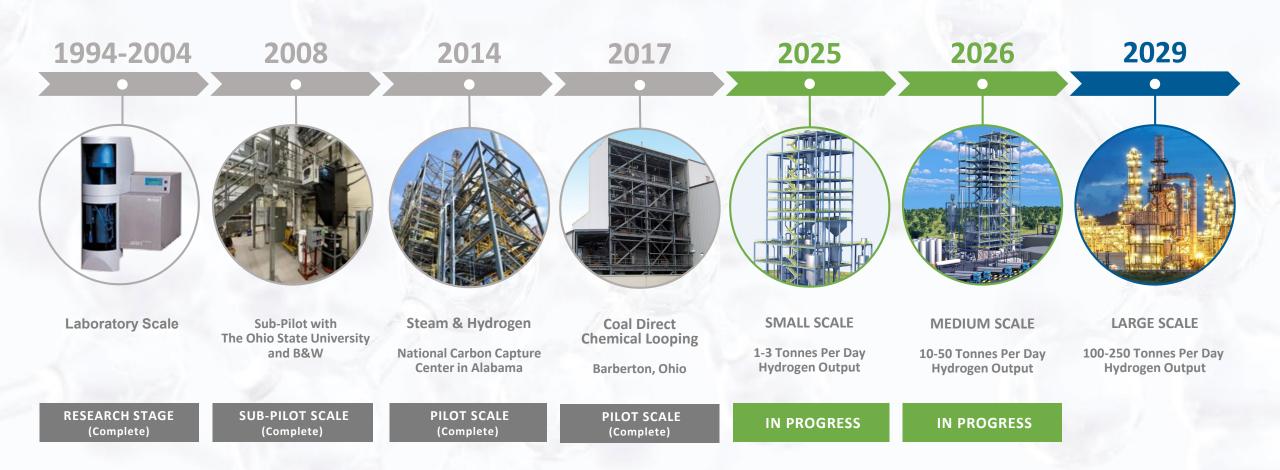
250 OTHER STUDENTS AND STAFF

TOTAL R&D INVESTMENT

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

BRIGHTLOOP™ HYDROGEN PRODUCTION PROGRESS

BRIGHTLOOP™ EVOLUTION



PROJECT - MASSILLON, OH

REVENUE OUTPUTS	
H ₂ from Natural Gas	~1-3 tonnes/day
H ₂ production use	Industrial and/or transportation

PROJECT DEVELOPMENT PLAN – APPROXIMATE TIMELINE

Off-take agreement finalized	2Q 2024
Funding Commitment	2Q 2024
Permits issued	3Q 2024
Target first H ₂ production	3Q/4Q 2025

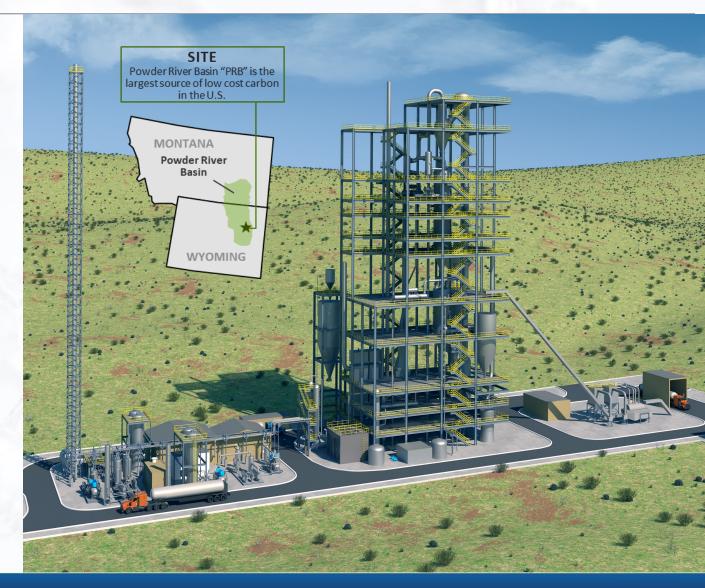


PROJECT - GILLETTE, WY

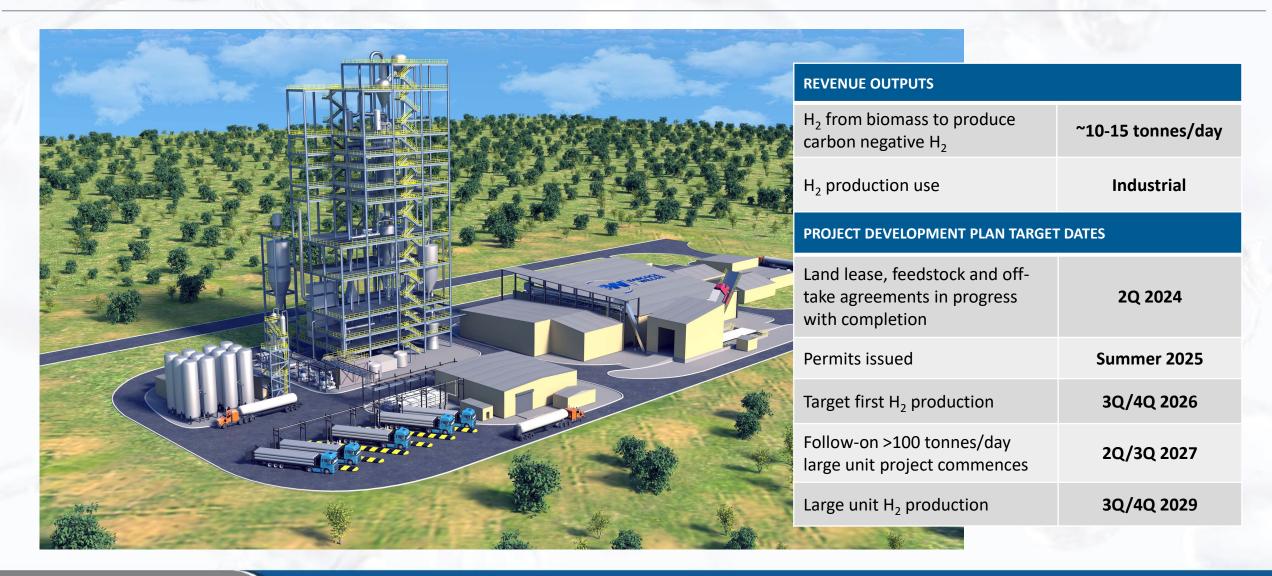
Received \$16M grant from Wyoming Energy Authority to support the project through mid-2025

REVENUE OUTPUTS	
H ₂ from Powder River Basin Coal	~10-15 tonnes/day
H ₂ production use	Power generation and/or transportation

PROJECT DEVELOPMENT PLAN – APPROXIMATE TIMELINE	
Permits issued	1Q 2025
Target first H ₂ production	4Q 2027/ 1Q 2028
Follow-on >100 tonnes/day large unit project commences	2Q/3Q 2028
Large unit H ₂ production	4Q 2030/ 1Q2031



PROJECT - BATON ROUGE, LA



AFTERMARKET POTENTIAL FOR B&W

ANNUAL REVENUE ~ \$200-250K PER TONNE OF H₂ PER DAY PRODUCTION

- Standard designs support strong aftermarket potential of all plant equipment
- Patented iron oxide particle addition required each year to maintain performance
- Ongoing support by continuous monitoring of operation utilizing subject-matter experts and artificial intelligence for groundbreaking analysis and ongoing performance improvement



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 US Department of Energy Hydrogen Shot

