ASX ANNOUNCEMENT **30 May 2024**

2024 Annual Meeting of Stockholders
Presentation of President & CEO

Sunnyvale, California; 30 May 2024: EBR Systems, Inc. (ASX: **"EBR"**, **"EBR Systems"**, or the **"Company"**), is pleased to provide the presentation of the President & CEO to be delivered at the Company's virtual 2024 Annual Meeting of Stockholders today, Thursday, 30 May 2024 at 9:00am Australian Eastern Standard Time (Wednesday, 29 May 2024 at 4:00pm U.S. Pacific Daylight Time).

To attend the Annual Meeting, enter meetnow.global/MLRAAYK into a web browser on your computer or other device with web access:

- CHESS Depositary Interest (**CDI**) holders will need to select "Guest" and enter their name and email address;
- Shareholders will need to select "Stockholder" and enter their Shareholder Control Number which will have been provided by Computershare Investor Services; and
- Proxyholders (including CDI holders who have appointed themselves as CHESS Depositary Nominees Pty Ltd's[1] (**CDN's**) proxy) will need to select "Invitation" and enter a proxy number which will have been provided by Computershare Investor Services.

Further information in relation to the Annual Meeting is set out in the Notice of Annual Meeting of Stockholders released on 30 April 2024.

ENDS

This announcement has been authorised for release by the EBR Systems Routine Notifications Committee, a committee established by the Board of Directors.

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About EBR Systems (ASX: EBR)
Silicon Valley-based EBR Systems (ASX: EBR) is dedicated to superior treatment of cardiac rhythm disease by providing more physiologically effective stimulation through wireless cardiac pacing. The patented proprietary Wireless Stimulation Endocardially (WiSE) technology was developed to eliminate the need for cardiac pacing leads, historically the major source of complications, effectiveness, and reliability issues in cardiac rhythm disease management. The initial product is designed to eliminate the need for coronary sinus leads to stimulate the left ventricle in heart failure patients requiring Cardiac

[1] CHESS Depositary Nominees Pty Ltd is the holder of record for all shares beneficially owned by holders of CDIs.

Resynchronisation Therapy (CRT). Future products potentially address wireless endocardial stimulation for bradycardia and other non-cardiac indications.

EBR Systems' WiSE Technology

EBR Systems' WiSE technology is the world's only wireless, endocardial (inside the heart) pacing system in clinical use for stimulating the heart's left ventricle. This has long been a goal of cardiac pacing companies since internal stimulation of the left ventricle is thought to be a potentially superior, more anatomically correct pacing location. WiSE technology enables cardiac pacing of the left ventricle with a novel cardiac implant that is roughly the size of a large grain of rice. The need for a pacing wire on the outside of the heart's left ventricle – and the attendant problems – are potentially eliminated. WiSE is an investigational device and is not currently available for sale in the US.

Forward-Looking Statements

This announcement contains or may contain forward-looking statements that are based on management's beliefs, assumptions, and expectations and on information currently available to management. Forward-looking statements involve known and unknown risks, uncertainties, contingencies, and other factors, many of which are beyond the Company's control, subject to change without notice and may involve significant elements of subjective judgment and assumptions as to future events which may or may not be correct.

All statements that address operating performance, events or developments that we expect or anticipate will occur in the future are forward-looking statements, including without limitation our expectations with respect to our ability to commercialize our products including our estimates of potential revenues, costs, profitability and financial performance; our ability to develop and commercialize new products including our ability to obtain reimbursement for our products; our expectations with respect to our clinical trials, including enrolment in or completion of our clinical trials and our associated regulatory submissions and approvals; our expectations with respect to the integrity or capabilities of our intellectual property position.

Management believes that these forward-looking statements are reasonable as and when made. You should not place undue reliance on forward-looking statements because they speak only as of the date when made. EBR does not assume any obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. EBR may not actually achieve the plans, projections or expectations disclosed in forward-looking statements, and actual results, developments or events could differ materially from those disclosed in the forward-looking statements.

Foreign Ownership Restriction

EBR's CHESS Depositary Interests (CDIs) are issued in reliance on the exemption from registration contained in Regulation S of the US Securities Act of 1933 (Securities Act) for offers or sales which are made outside the US. Accordingly, the CDIs have not been, and will not be, registered under the Securities Act or the laws of any state or other jurisdiction in the US. The holders of EBR's CDIs are unable to sell the CDIs into the US or to a US person unless the re-sale of the CDIs is registered under the Securities Act or an exemption is available. Hedging transactions with regard to the CDIs may only be conducted in accordance with the Securities Act.

AGM Presentation

MAY 2024

Year in review

July 2023
- EBR completed A$30m placement and A$2.7m SPP[1]
- Successfully drew down US$20m from growth capital facility
- Engaged with investors on Australian roadshow

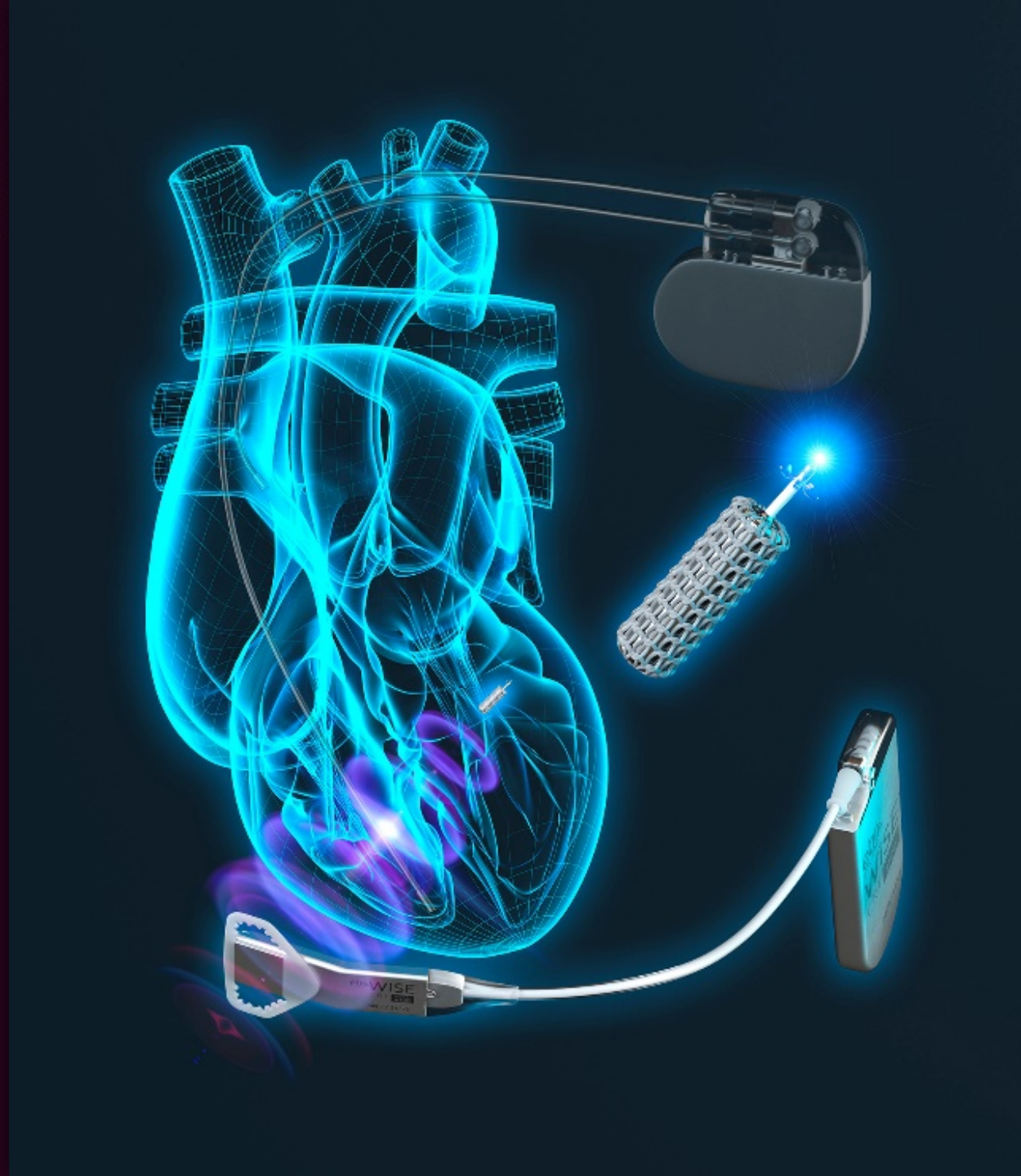
September 2023
- Positive additional results from the SOLVE-CRT study presented at APHRS[2]
- Appointed Gary Doherty as Chief Financial Officer

November 2023
- Confirmed submission of four (out of five) modules for FDA PMA[3]

December 2023
- Engaged with investors on Australian roadshow

March 2024
- EBR officially included in the S&P / ASX All Ordinaries Index

April 2024
- Appointed Erik Strandberg as Chief Commercial Officer



[1] SPP: security purchase plan; [2] APHRS: Asia Pacific Heart Rhythm Society; [3] FA: US Food and Drug Administration, PMA: Premarket Approval Application;

Pivotal SOLVE-CRT Study meets primary endpoints

Positive results confirm WiSE CRT System as a highly effective treatment option for patients with heart failure[1]

Primary efficacy endpoint met

-16.4%

p = 0.003

Decrease in left ventricular end systolic volume (vs. -9.3% target), showing improved heart function

Success in high-risk patients

SOLVE-CRT patient pool consists of patients who have failed conventional CRT

Other key data

All data analysed to date shows consistent, positive results in reversing heart failure symptoms and physiology

Primary safety endpoint met

80.9%

p < 0.001

Patients free from type I complications (vs. 70% target)

Safety profile comparable to SoC[2]

Other studies using SoC treatment for CRT upgrades have shown 81.3% freedom from device & procedure related complications[3]

Other key data

Observed complication rates were higher in early phases and decreased with experience

[1] "CEO Presentation on SOLVE-CRT Pivotal Trial Top-line Data" ASX release on 22 May 2023; [2] Standard of Care; [3] Poole, J. E., et al. (2010). Circulation 122(16): 1553-1561

Commercialisation pathway

Positive pivotal trial results support EBR's regulatory approval process and underpin a clear pathway to commercialisation

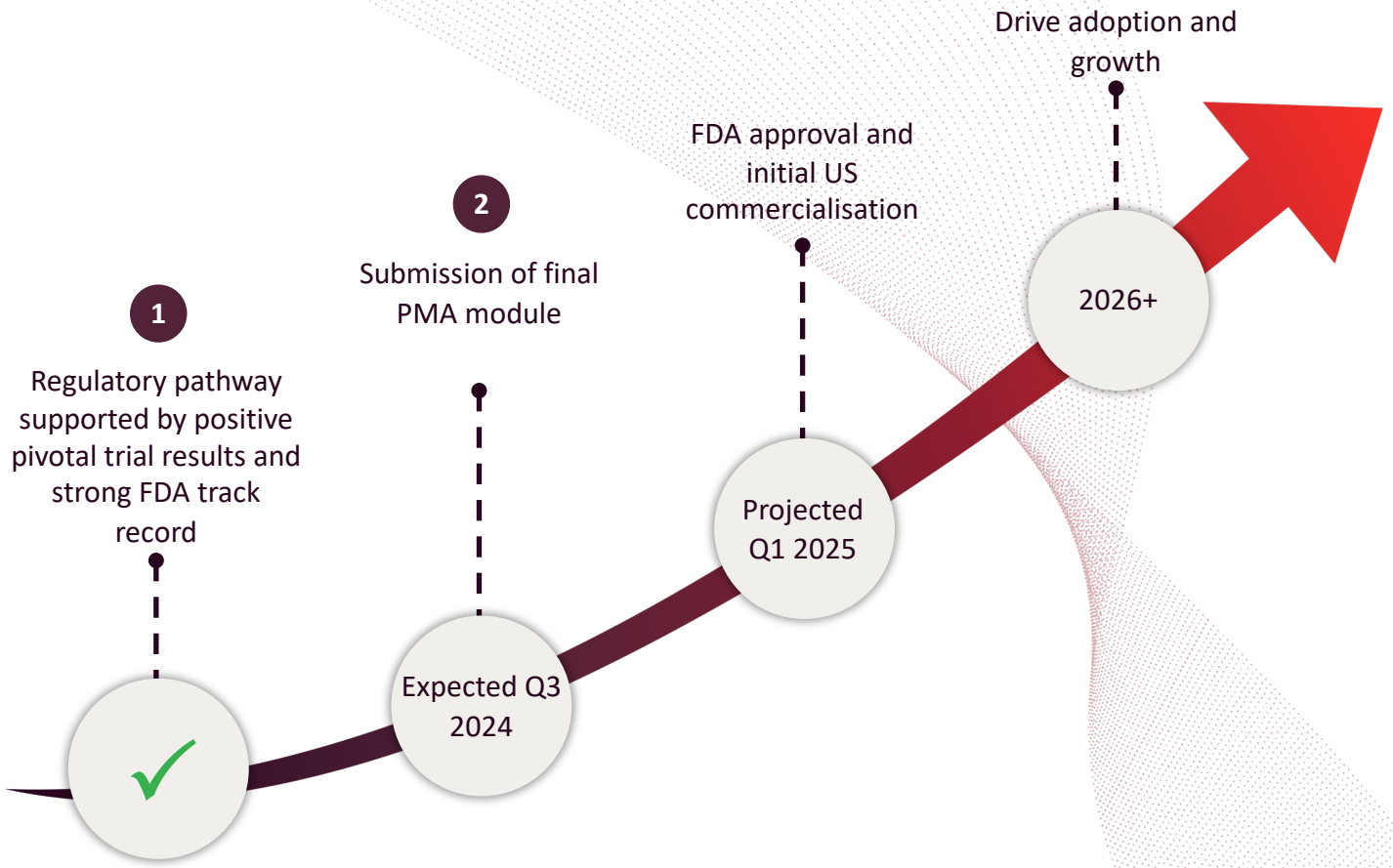
1

Confidence in FDA approval process underpinned by positive pivotal trial results and a track record of successful engagement with the FDA resulting in:

- Award of Breakthrough Device Designation
- Approval of pivotal study re-design
- Approval of leadless pacemakers as a co-implant in pivotal study

2

- EBR has submitted four out of five required modules for the PMA submission
- The final module is related to biocompatibility & device verification testing which is currently underway



Investment highlights

EBR is focused on executing its clear and targeted commercialisation strategy to deliver shareholder value

High value market opportunity

Unique solution

No competition - the WiSE CRT system is complementary to other leadless devices

Large markets

Targeting initial addressable market of US$2.6bn

De-risked pathways to market

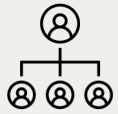
Positive results

Safety and efficacy endpoints met for SOLVE-CRT trial and Breakthrough Device Designation granted

Focused strategy

Clear pathway to achieve FDA approval and progress commercialisation activities to achieve first sales

Expert leadership



Strong team

Experienced management team with significant clinical development and commercial expertise

Disclaimer

The material contained in this document is a presentation of general information about the activities of EBR Systems, Inc. (ASX:EBR) (ARBN 654 147 127) and its subsidiaries ("EBR") current as at the date of this presentation. It should be read in conjunction with EBR's periodic and continuous disclosure announcements filed with the Australian Securities Exchange, available at www.asx.com.au.

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To the maximum extent permitted by law, no responsibility for any loss arising in any way (including by way of negligence) from anyone acting or refraining to act as a result of this presentation or its contents is accepted by EBR or any of its officers, employees or agents.

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EBR's CHESS Depositary Interests ("CDIs") are traded on ASX in reliance on the safe harbour provisions of Regulation S under the US Securities Act of 1933, as amended, and in accordance with the procedures established pursuant to the provisions of a no-action letter dated 7 January 2000 given to ASX by the staff at the US Securities and Exchange Commission. The relief was given subject to certain procedures and conditions described in the no-action letter. One of the conditions is that the issuer provides notification of the Regulation S status of its securities in communications such as this presentation.

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