Company Profile 2023©

National Battery Research Institute

National Battery Research Institute

Powering Indonesia's **Battery Revolution**

Supported by

Queen Mary University of London

ISO 45001 : 2018

ISO 14001 : 2015

ISO 9001 : 2015

Forewords

NBRI is Indonesia's leading independent institute for electrochemical energy storage science and technology. NBRI covers research & development, training & education, testing & standardization, international conference, expo, social impact, and publishing. NBRI aims to contribute to the overall issue on battery technology from upstream to downstream, as well as renewable energy. Reflecting to above concern, NBRI completely supports Sustainable Development Goal Agenda, Paris Agreement, and Indonesian government program for implementing clean energy transition through Renewable Energy (RE) and Electric Vehicles (EV).

NBRI is a platform that brings together scientists, academicians, industry partners, the government, and all stakeholders that focus on battery technology and renewable energy. Our priority is to encourage and support the battery manufacturing industry using local resources and provide competent resources in the field of Battery technology for EV and RE. It will enable Indonesia to be independent in energy. For attaining our goals, we open to collaborate with stakeholders for accommodating various views and suggestions from our partners to always be the best.

We believe on the impact that we have done for society and environment would **create a positive difference.**

Prof. Dr. rer. nat. Evvy Kartini

Founder

Prof. Alan J. Drew

Co-Founder

About Us

The NBRI was supported by the UK Government's Global Challenge Research Fund (GCRF), and Queen Mary University London. Since January 2020, NBRI has performed more than 240 activities national and internationally covering 35 countries. Those activities include Focus Group Discussion, Lectures, Schools, Workshops, Webinars and also annual International Conferences.

NBRI was the delivery partner of an Indonesia-UK Climate Change Workshop funded by the British Council. NBRI was legally established on 07th December 2020 as The Center of Excellence Innovation of Battery and Renewable Energy Foundation, with Prof. Dr. Evvy Kartini and Prof. Dr. Alan J. Drew, becoming the Founder and Co-founder of NBRI, respectively. This will enable us to build on our successes in 2023 and carry out our future vision, which is to enable and support Indonesia to become world-leading in battery education, research, innovation, and manufacture, resulting in the capacity and technology within the Indonesian industry to build a new market for Indonesian manufactured batteries using locally extracted mineral resources.

Vision

Our vision for the NBRI is to gather all Indonesian stakeholders in battery research and production, to help form strong national batteries research and increase the visibility of batteries research at the government level.

Mission

1. Assisting Indonesia to develop a batteries manufacturing industry ecosystem using locally mineral resources

2. Supporting Indonesia to be an independent in energy.

Our Team

Prof.Dr.rer.nat Evvy Kartini

Founder of NBRI

Prof. Alan J. Drew

Co-Founder NBRI

Muhammad Firmansyah S.E.

Program Director

Moh. Wahyu Syafi'ul, S.Si

Manager of Education and Training

Muhammad Fakhruddin, S.T.

Assistant Manager Research, Development and Innovation

Baihaqi Muhammad, S.Si

Corporate Engagement

Sigit Aryo Kristianto, S.Si

Battery Testing and Standardization Supervisor

Shafira Ramadhani, S.Ars

Manager of Creative Design

Henih Anggraeni

Accounting and Tax Staff

Raychan Abyqa Fahriza, S.Si

Renewable Energy, Electric Vehicles and Energy Storage Engineer

Demographic

More than
35 Countries

Indonesia, Australia, Singapore, India, Brazil, Poland, Portugal, United Kingdom, Algeria, United States of America, Canada, Japan, South Korea, Thailand, Belgium, Norwegia, Bangladesh, Brazil, China, Ghana, Iraq, Malaysia, Morocco, Nigeria, Pakistan, Philippines, Russia, Rwanda, Taiwan, Tunisia, Turkey, French, Hongkong, Egypt, Vietnam

More than
11.114 Participants

More than
792 Institutions

More than
46 Delivered Projects & 200 Activities

More than
4.5 out of 5 (Satisfaction Score)

What We Offer

We have several departments that offer various services.

01 Research, Development and Innovation

02 Education, Training and Certification

03 Battery Testing and Standardization

04 Renewable Energy, Electric Vehicles and Energy Storage

05 Event Organizer and Exhibitor

06 Publisher (JBREV and NBRI Press)

07 Social Impact

08 Consultation

Spotlight Activities

2021-2022

NATIONAL RESEARCH PRIORITY

NBRI has successfully delivered research project on developing battery technology from locally mineral resources

SKKNI ON BATTERY PACK

As a working group leader, NBRI along with Ministry of Manpower has ratified a National Work Competency Standard (SKKNI) on Battery Pack

PT KOMATSU INDONESIA ELECTRIFICATION

For supporting energy transition, NBRI assists PT. Komatsu Indonesia to conduct electrification on their industrial ecosystem

CLIMATE CHALLENGE WORKSHOP

NBRI in collaboration with Queen Mary University of London has delivered research prize for researcher to solve climate change issue that was funded by British Council

CLIMBING UP THE INDONESIA NICKEL VALUE CHAIN

NBRI signs the Memorandum of Understanding (MoU) with Association of Indonesia Nickel Miners (APNI)

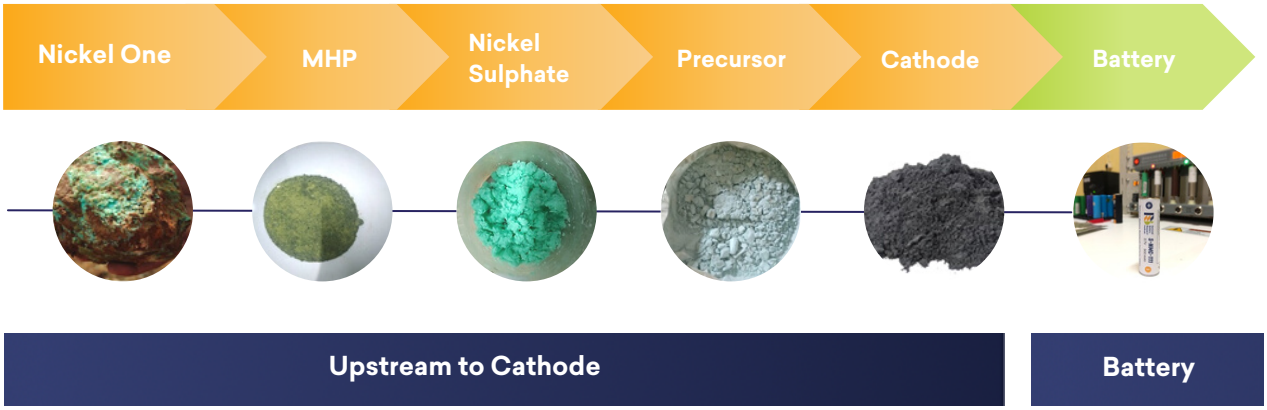
ESPOUSING NATIONAL & INTERNATIONAL BATTERY STANDARDIZATION

NBRI signs the Memorandum of Understanding (MoU) with Underwriters Laboratories (UL) Solutions of Indonesia

Research Development and Innovation

Levelling Up Nickel Ore

FROM NICKEL TO BATTERY



Our Services

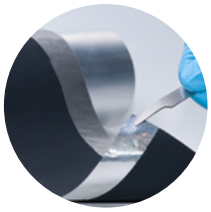
WHAT WE OFFER

Mineral extraction

Ore extraction for battery materials

Custom Battery Materials Development

Precursor, cathode & anode active materials



Electrode Sheet Development

Electrode Sheet Development

Battery Cell Fabrication

Coin & cylinder cell assembly

Battery Pack Assembly

Development of innovative battery packs with BMS

Direct Consultation

Consultation regarding business model, etc.

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PATENTS

42
CONSULTATIONS

12
PROJECTS

36
PUBLICATIONS

Event Highlights

Webinars

Focus Group Discussions

International Conferences & Meetings

Exhibitors

Education and Training

ANNUAL PROGRAMS

International Battery School

24-25 MAY 2022

Satisfaction Score 4.6/5
30 Participants

Facilitating participant to have a basic understanding about battery technology and its current issue

International Workshop on Solar PV Technology

2-3 AUGUST 2022

Satisfaction Score 4.2/5
14 Participants

Two days intensive workshop on Solar PV technology for providing an insight both theoretical and practical

International Workshop on Material and Advanced Characterizations

24-25 NOVEMBER 2022

Satisfaction Score 4.6/5
30 Participants

Organizing international workshop on material and its characterization for students, researchers, and industries

Training of Trainers

14-15 DECEMBER 2022

Satisfaction Score 4.5/5
27 Participants

Two days intensive training for trainers to obtain useful knowledge about battery technology from upstream to downstream

Education and Training

INTERNSHIP PROGRAM

Total Internship
Interns: 26
Institutions: 12

Battery Testing and Standardization

Our Services

BATTERY TESTING & STANDARDIZATION FACILITIES

Battery Testing Facilities

We are the testing facilties to ensure all the battery product are tested and safe according to international standards

Consultation

We are consultant in Lithium Battery field for fulfill consumer energy storage needs in Renewable Energy and Electric Vehicle

Inspection

We offer the inspection services for energy storage application that already complying with international standards

Products and Clients

Pouch Cell Testing
Client: Supernova Flexible Packaging

Inspection & Study on VRLA Battery
Client: TML Energy

Battery Pack Testing & Standardization
Client: PT. Pindad

Battery Pack Testing & Certification Training
Client: PT. PLN

Battery Pack Testing & Standardization for EV
Client: Indonesia Battery Corporation

Battery conversion from Lead Acid to Lithium ion Batteries for Pallet Mover
Client: PT. Komatsu Indonesia

In collaboration with

Publisher

JBREV

Journal of **Batteries** for **Renewable Energy** and **Electric Vehicle**

JBREV is established in 2022 by the National Battery Research Institute (NBRI) in collaboration with the Queen Mary University of London, Material Research Society Indonesia (MRS-INA), and International Union of Material Research Societies (IUMRS). The JBREV is devoted to publish new and original research, article review related to battery materials, science & engineering that applicable to renewable energy and electric vehicles.

NBRI PRESS

NBRI Press or "Penerbit Yayasan Pusat Unggulan Inovasi Baterai dan Energi Terbarukan" is a publishing house under National Battery Research Institute. NBRI Press publishes JBREV, scientific & popular book, module and handbook focusing on battery technology, renewable energy and electric vehicles. NBRI Press also covers various topics as long as it is beneficial for society.

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PROCEEDINGS

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PROCESSED MANUSCRIPTS

FURTHER INFO:

Social Impact Project

NBRI Social Impact is a social project to help communities and increase their productivity through appropriate technology, especially batteries and renewable energy, as well as community capacity building.

FURTHER INFO:

Project Location

Patia Village, Patia District, Pandeglang Regency, Banten Province

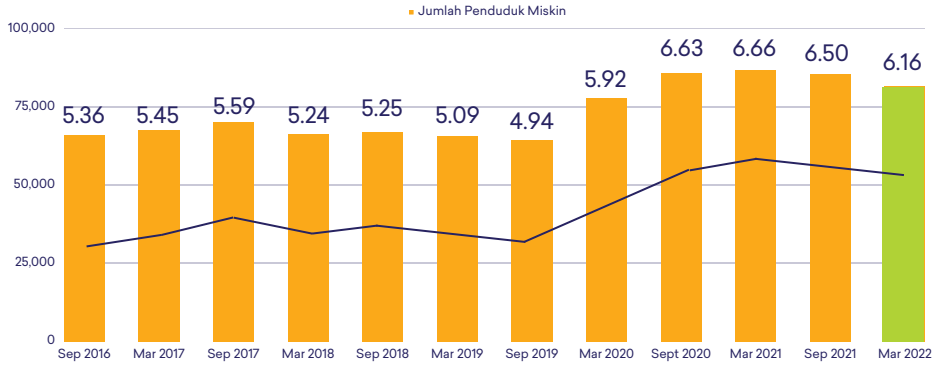
Aim

Increasing agricultural efficiency. Currently, more than 50% Patia's rice field is using non-irrigation system.

Poverty Profile

Banten, Maret 2022

Pandeglang Regency, particularly on Patia District has the highest poverty numbers in Banten Province.



Scheme

Corporate CSR

Support through corporate CSR funds will further accelerate impact and help more people.

Crowdfunding

Every donated penny is very meaningful for the Social Impact project

Partnership

PARTNERS

National Battery Research Institute

Contact Us

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