

# Homerun Resources Inc. Memorandum of Understanding with Halocell Energy Inc

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Vancouver, May 6, 2024 - [Homerun Resources Inc.](#) (TSXV: HMR) (OTCQB: HMRFF) ("Homerun" or the "Company") is pleased to announce that the Company has executed a non-binding Memorandum of Understanding (MOU), between Homerun and Halocell Energy Pty Ltd. (Halocell).

- Homerun is developing its business within the energy materials verticals focused on the solar and energy storage sectors.
- Halocell is a recognized world leader in research and development of perovskite technology to produce perovskite solar cells (PSC).
- Perovskite solar cells have shown remarkable progress in recent years with rapid increases in solar conversion efficiency, from about 3% solar conversion efficiency in 2009 to over 25% solar conversion efficiency in 2023 (according to NREL).
- Halocell and Homerun intend to collaborate to develop and produce the highest efficiency and most stable outdoor Solar Glass / PSC solutions.

Brian Leeners, CEO of Homerun stated, "This MOU is another important addition to our strategic plan to fully integrate into a world class energy transition materials company taking full advantage of disruptive next generation technologies and applying them to planned outputs which provide Homerun with a competitive advantage in the evolving solar space for years to come. Halocell has earned its reputation as a global leader in the development of perovskite solar technology, and we are excited to integrate their solutions into our solar vertical which originates from the amazing silica sand resources we have in Bahia, Brazil. Today, Homerun has become a leading technology and solutions provider in the solar revolution."

## Perovskite Solar Cells

Perovskites are a family of materials that have demonstrated the potential for high performance and low production costs in solar cells. Perovskite solar cells have shown remarkable progress in recent years with rapid increases in solar conversion efficiency, from about 3% solar conversion efficiency in 2009 to over 25% solar conversion efficiency in 2023. The substrate for Perovskite solar cells is also glass. Perovskite solar cells are being initially commercialized through manufacturing integration into Tandem solar cells and soon we will see commercialization of stand-alone Perovskite solar cells. Tandem or not, new perovskite solar cells are all but certain to be on the market in the next few years. That will add even lower cost and greater solar conversion efficiency to the solar revolution. (<https://www.nrel.gov/pv/cell-efficiency.html>).

Under the terms of the MOU, Halocell and Homerun agree to provide technical assistance to each other to develop the best outdoor Solar Glass / PSC solutions.

Halocell will contribute and make available the following:

- Chemistry and process experience in development of the highest efficiency outdoor PSC formulations.
- Chemistry and encapsulation experience to maximize the life span of the solar cells.
- Structural and layering experience to maximize the overall performance of the cells.
- Materials and operational experience to provide the best performance cells at the lowest cost.

Homerun will contribute and make available the following experience and information:

- Required testing specifications.
- Details of the manufacturing processes, including how the Perovskite Solar Cells can be incorporated into Solar Glass production as a final device.

About Halocell Energy Pty Ltd. (<https://halocell.energy/>)

Halocell Energy is a pioneering company at the forefront of perovskite solar cell technology. Founded with a

vision to revolutionize renewable energy, Halocell specializes in the development and commercialization of high-efficiency perovskite solar cells for a sustainable future. With a team of leading experts and innovators in the field, Halocell is dedicated to advancing the performance, stability, and scalability of perovskite solar cells to make them a viable and competitive alternative to traditional silicon-based photovoltaics.

About Homerun Resources (<https://homerunresources.com/>)

Homerun Resources is focused on the development of its business within the critical and energy materials sectors. With a steadfast commitment to operational excellence, sustainability, and building shareholder value, [Homerun Resources Inc.](#) is poised to make a lasting impact in these industries.

On behalf of the Board of Directors of  
[Homerun Resources Inc.](#)

"Brian Leeners"

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