

WELCOME TO BACKER CELLNERGY PTE. LTD.

**Your Partner for Solutions Concerning Heating
and Temperature Control**

Backer Cellnergy Pte Ltd.

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www.backergroup.com/en-se.html

www.nibe.com



Backer Cellnergy was set up in the year of 2004.

Our distinct core competency is our in-house design capability, supply chain stability, competitive pricing and quality .

We have vast experiences dealing with all types of heaters in providing custom made industrial heater, which specifically in various sizes for heater jacket, tubular heater, wire heater, foil heater, thermostat, oven light etc., which we design and manufacture according to client's requirements and needs.

Company Timeline History



2004



Cellnergy is born!

In 2004, a few professionals come together to start up Cellnergy Engineering Pte Ltd major in heating jackets fabrication and installation

2018



Acquisition

Acquisition of Cellnergy Engineering by NIBE AB started and negotiation completed by mid 2018

2021



A New Chapter

Cellnergy fully acquired by NIBE AB and rebranded to Backer Cellnergy.

2022



Introduction of new product

A new range of products introduced to supplement our existing range of services and products

Backer Cellnergy Core Competency



Fabrication

Backer Cellnergy's core competency is fabrication of heater jackets (fabric & silicone type). Our fabrication service is 100% done in house in our Singapore facility and we stand by our quality and competitive pricing



Repair

Besides fabrication of heater jackets, Backer Cellnergy also provides repair services of heater jackets. From minor sewing works to major overhaul of your heater jackets, we are committed to offer your heater jackets a new lease of life!



Trading

We have in the recent years added a string of new products into our portfolio to serve a broader range of industries and needs. From cable management, mechanical components to heating elements, we are dedicated to serve your needs in the long term

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KEY FOCUS:

BACKER CELL ENERGY has a strict quality control system for material sourcing, manufacturing processes, and product testing. We use high-quality raw materials.

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We are Dynamic!

Highly spirited, enthusiastic & innovative team that wants to achieve the impossible



We are Committed!

Highly motivated and willing to go the extra mile to offer our customers the best



We are Quality!

Strive to meet customers' expectations and relentless pursue of zero defect ideology

Your one stop services solution provider



Why Us:

- i) Established Brand in Semiconductor Industry since year 2004.
- ii) Huge Customers Base in Singapore.
- iii) In-house manufacturer of flexible heaters.
- iv) In-house technical support team for troubleshooting, repair or replacement works. Customization works. Available for urgent/adhoc issues.
- v) Shorter lead time, in-house production.
- vi) Thermal system integration.
- vii) Customized insulation
- viii) Availability of ready stock locally for standard sizes.
- ix) Focus on Quality Products
- x) Competitive Price

APPLICATION – Semiconductor (Cleanroom & Subfab)



Application: CVD, PVD, Thin film, Metal/Dry/Wet Etch, diffusion, Lito, Ashing, ion Implant, CMP & Stripping etc.

i) Etching Processes: In semiconductor fabrication, etching processes are used to remove layers of material from a substrate to create desired patterns. Thermal heater jackets may be used to maintain specific temperatures in etching chambers, ensuring optimal process conditions for accurate etching.

ii) PVD (Physical Vapor Deposition): Heater jacket for Physical Vapor Deposition (PVD) processes plays a crucial role in maintaining stable and precise temperatures during thin-film deposition. PVD is used in industries such as semiconductors, optics, and coatings, where materials are evaporated or sputtered onto a substrate to create thin films with specific properties.

iii) CVD (Chemical Vapor Deposition): CVD is a process used to deposit thin films of material onto a substrate surface in semiconductor manufacturing. Thermal heater jackets can be employed to heat the reaction chamber to the required temperature for the deposition process to occur effectively.

iv) Thinfilm - Heater jacket for thin-film application typically refers to a heating system designed to maintain or control the temperature of a thin-film material during processing or deposition. Thin films are often used in industries such as semiconductors, optics, and coatings, where precise temperature control is crucial for the quality and performance of the final product.

v) Lithography: Lithography is a fundamental process in semiconductor manufacturing used to pattern features on a substrate. Thermal heater jackets can be integrated into lithography equipment to control the temperature of photoresist materials or other components critical to the lithographic process.

vi) Wafer Cleaning: Wafer cleaning is crucial for removing contaminants and residues from semiconductor wafers before subsequent processing steps. Thermal heater jackets may be used to heat cleaning solutions or baths to enhance the effectiveness of the cleaning process.