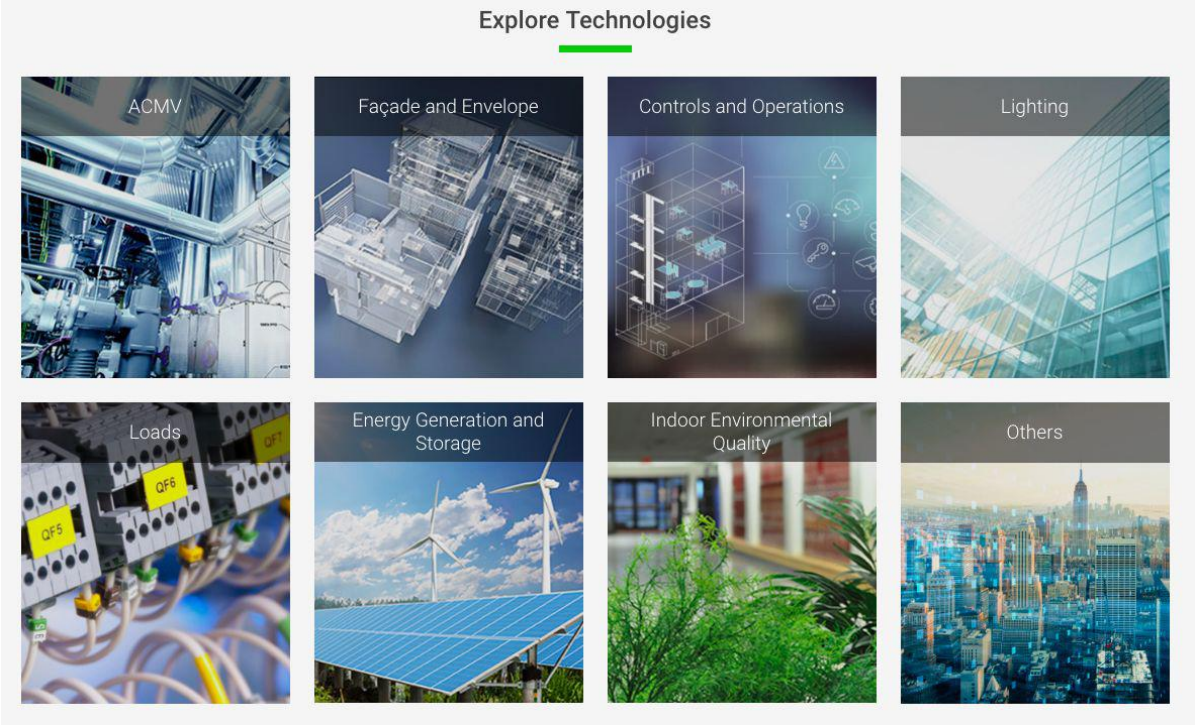
Take Your Technology Further With The SLEB Smart Hub

There is a greater emphasis now on global warming. The world's climate is changing rapidly, and we need to find ways to reduce our carbon footprint. One way we can do that is by adopting energy-efficient technology.

The SLEB Smart Hub is an initiative by the Building and Construction Authority (BCA) to encourage more Super Low Energy Buildings in Singapore. By providing multiple resources and tools, the SLEB Smart Hub makes it easier for building owners to undertake Super Low Energy Building projects.

This hub also benefits technology providers, giving them a convenient place to showcase their products via the **Technology Directory.**

The Technology Directory



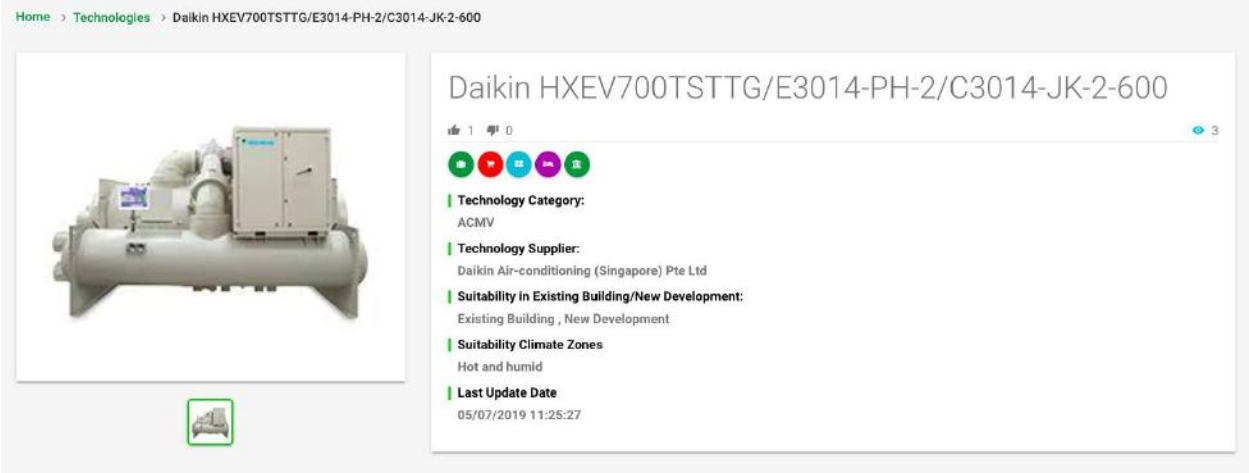
The Smart Hub's Technology Directory is a repository of information related to energy efficient technologies, making it simple to look for relevant products or technology.

As the database is segmented into different categories, it's easy to search for a specific technology that you're interested in. Here are the main categories in the Technology Directory:

- Air Conditioning and Mechanical Ventilation System (ACMV)
- Lighting
- Controls and Operations
- Facade and Envelope
- Loads
- Energy Generation and Storage
- Indoor Environmental Quality
- Others

The database also allows users to filter technologies by category, type of building, and product. For example, a hotelier could choose to look only at lighting systems designed specifically for his particular industry.

In-depth information on each technology



Each product page includes information such as the brand and supplier, suitability for any given development and climate, along with a short description. The product's estimated life span and any relevant documentation or whitepapers are also provided.

Benefits of sharing your technology with the Technology Directory

If you're a technology provider, you can also upload information on your own technology or product to this database.

By doing so, you get to introduce your technology to a wider audience, as well as gain greater exposure for your products. This also increases the chances of building owners adopting energy-efficient technology, as all the information they need is readily available upfront.

Through your participation, green technology adoption can be further accelerated.

Have an idea or innovation that you're keen to showcase? You could consider SLEB Smart Hub's **Green Buildings Innovation Cluster (GBIC) Demo Programme**.

Green Buildings Innovation Cluster (GBIC) Demo Programme

This programme aims to demonstrate novel technologies that are not yet implemented on a large scale locally in operational buildings.

It also connects developers and building owners with technology providers such as yourself, creating platforms where your new technologies can be tested. The hope is that these tests will lead to your innovations becoming commercially viable.

There are three goals for the GBIC Demo Programme:

1. To promote and bring innovations closer to market adoption
2. To aid in the formulation of policies
3. To acquire performance data and set new benchmarks for the improvement of building energy efficiency

The GBIC-Demo programme is open to all Singapore-registered companies, institutions, as well as the public sector.

What's considered "novel technology"?

Novel technology would be defined as a new way of doing something, either with non-conventional methods or equipment, and which achieves significant energy efficiency.

I'm interested, how do I participate?

In order to be eligible, you will need to:

- Form a Project Team that includes
    - Yourself (the technology provider)
    - A host
    - A research team that also includes a principal investigator
- Demonstrate your technology on a sizeable floor space within a building
    - This building must be operationally occupied, and its age does not matter

You and your project team will need to record data from the demonstration for the validation of your technology. Instrumentation such as sub-meters and sensors will also need to be installed to monitor your technology's performance.

Your technology will be expected to perform at least 20% better than existing products that are determined as 'best-in-class'. 'Best-in-class', in this case, refers to technology that is commercially available and rated as Green Mark Platinum.

Are there any incentives?

If your application is successful, you can obtain co-funding of up to 70% of the cost of your demo, depending on the scale and complexity of your technology.

How do I apply?

Before submitting an application, you and your team should schedule a meeting with the GBIC administrators. You will subsequently receive a briefing and a quick assessment.

Funding is also available, and you will need to submit a Pre-Application form for it. After that, when you and your team are ready, you can submit the project proposal here.

What if you're developing new technology, and want to test it first before applying for the demo? You can do so at the **BCA SkyLab**.

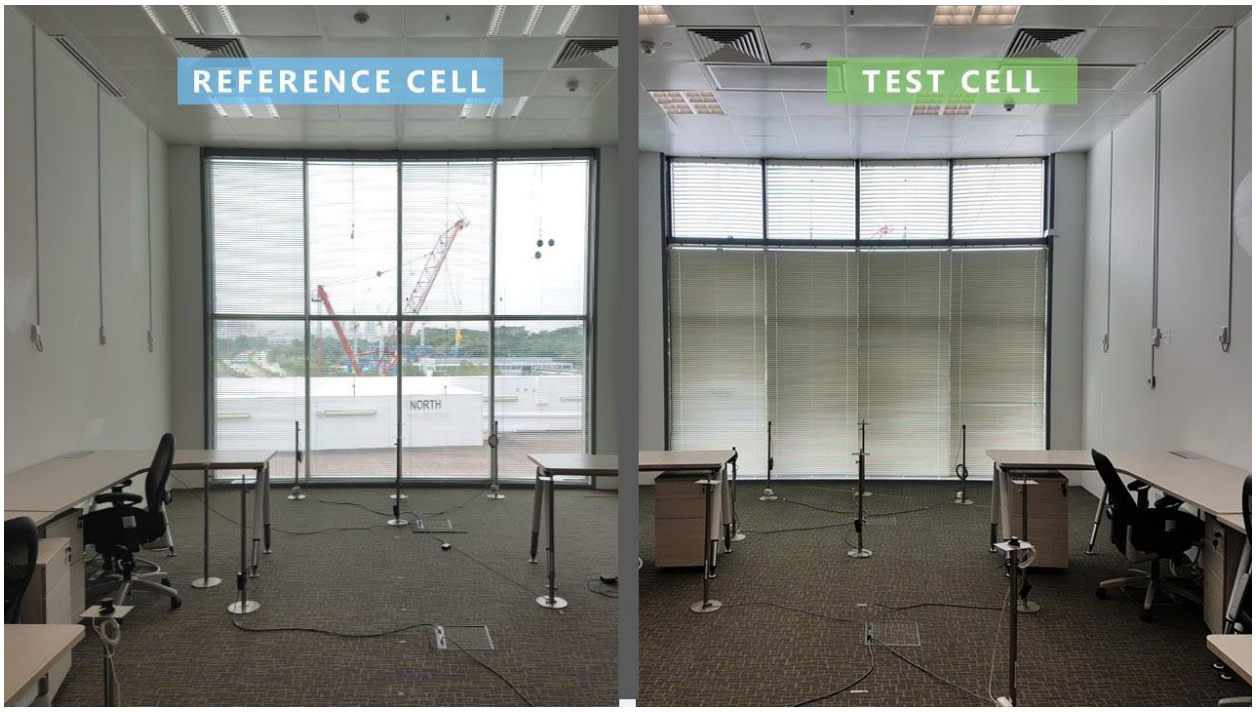
Testing new innovations at the BCA SkyLab

The BCA SkyLab is the world's first high-rise rotating laboratory developed for tropical climates, modelled after the Lawrence Berkeley National Laboratory's FLEXLAB (Facility for Low Energy Experiments in Buildings). This facility is currently located at the BCA Academy in 200 Braddell Road.

Covering a floor area of about 132 m^2, the SkyLab features two test compartments. These can be configured in several ways, allowing testing for a wide range of technologies. Some of the technologies you'll be able to find here include ACMV, lighting, and building facades.

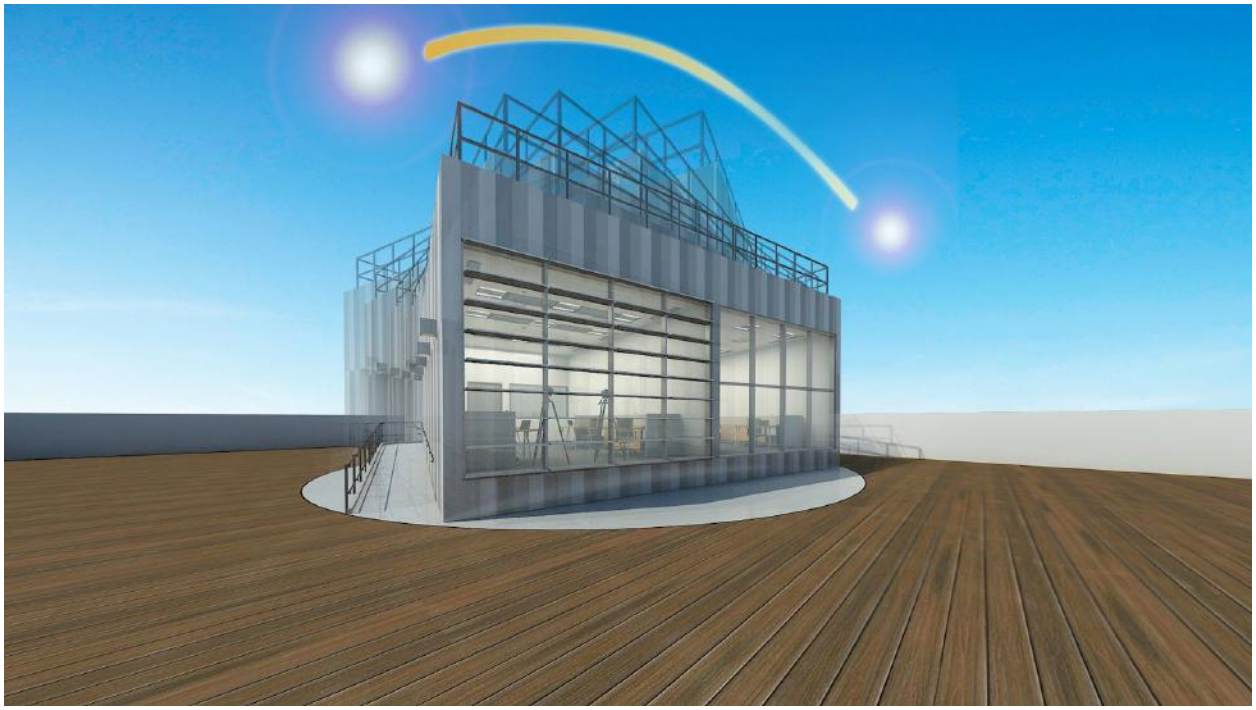
The BCA Skylab also utilises a plug-and-play concept. Essentially, this concept allows users to quantitatively assess technologies individually, or in a combined configuration.

Click here for a PDF brochure on all of the SkyLab's features.



Rotating platform system

One of the SkyLab's defining features is its ability to rotate. By allowing the facility to orientate itself relative to the sun, studies applicable to building systems and indoor environments can be conducted.



If you’re an innovator and need a place to test out your technology, why not give the SkyLab a go? You can download the application form here, and once completed, email it to BCA_Skylab@bca.gov.sg.