



Environmental Sustainability

Our Small Part For A Bigger Common Sustainable Future



Sunray Stories Living Life The
SUNNY SIDE UP

VOLUME 4 | Q4 2023



Table of Contents

SUSTAINABILITY VISION AND PATH AHEAD Sunray Supports Sustainable Development Goals	03
REVISITING OUR SUSTAINABILITY JOURNEY Sustainability Certification Upcycling Our Own Office Furniture Sunray of Hope for Inclusive Society	17
SUSTAINABLE BUSINESS CULTURE End-Of-Life VS Next-Of-Life “SOTU” - Switch Off and Turn Up A Sustainable Corporate Social Responsibility (CSR)	21
SUNRAY BE GREEN, BE GRACIOUS CAMPAIGN	27
OUR GLOBAL FOOTPRINT	29

Sustainability Vision and Path Ahead

At Sunray, we believe that sustainability is a way of life. We have always believed in putting Mother Nature first.

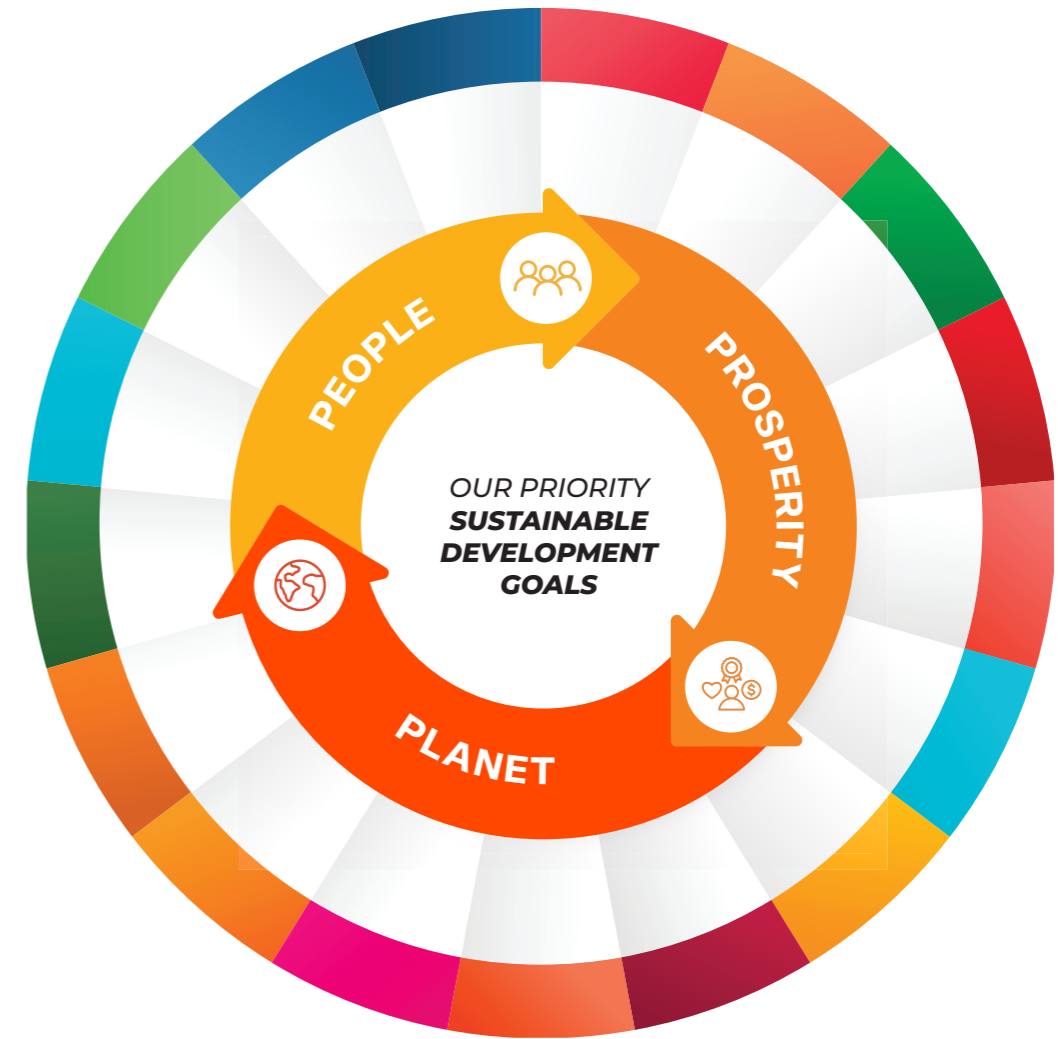
“A Greener Today for a Cleaner Tomorrow.”

We invite you to explore Sunray’s intricate initiatives, innovations, and insights that embody our steadfast commitment to a sustainable future. Together, let’s illuminate the path ahead, where sustainability isn’t just a goal - it’s the very essence of our existence, shaping the contours of our vision and the legacy we are forging for generations to come.

Our Priority Sustainable Development Goals



Our Priority Sustainable Development Goals



PEOPLE

Sunray is dedicated to sustainability, prioritizing our most valuable asset – our people. Our wellness programs and initiatives promote diversity, inclusivity, and individual growth, fostering a workplace thriving on collective success.



PLANET

We align with the global pursuit of a greener tomorrow by integrating eco-friendly practices. From reducing our carbon footprint to embracing renewable energy, we’re dedicated to preserving the planet for future generations.



PROSPERITY

Our business prioritizes prosperity beyond finances. Through ethical practices, fair labour standards, and community engagement, we are committed to a positive impact and responsible business conduct.

SUSTAINABILITY VISION AND PATH AHEAD

Sunray Supports Sustainable Development Goals



GOOD HEALTH AND WELL-BEING

Sunray is dedicated to ensuring healthy lives and promoting the well-being of all Sunrayians. We focus on aspects such as health and safety, indoor air quality (IAQ), accessible and inclusive design, and mental support.



SOME OF OUR ACTIVITIES

- 1** We enforce stringent health and safety protocols. This includes providing regular training on workplace safety, and fostering a deeper culture of safety consciousness.
- 2** We have been and will continue to create healthier and more conducive work environments by integrating biophilic design elements, and using low-VOC materials in interior fit-out projects within owned premises.
- 3** We cultivate a positive and supportive work environment by integrating elements that reduce stress and enhance mental well-being.

QUALITY EDUCATION

Sunray advocates for quality technical, vocational, and tertiary education as a means to attract talent to the Built Environment sector.



SOME OF OUR ACTIVITIES

- 1** We offer youth industry undergraduate scholarships and apprenticeship programs.
- 2** Academic scholarships are awarded to aspiring top students in the modules offered under Building and Project Management related degree programs.
- 3** We promote life-long learning by empowering Sunray employees with training to become skilled professionals for long-term career outlook.



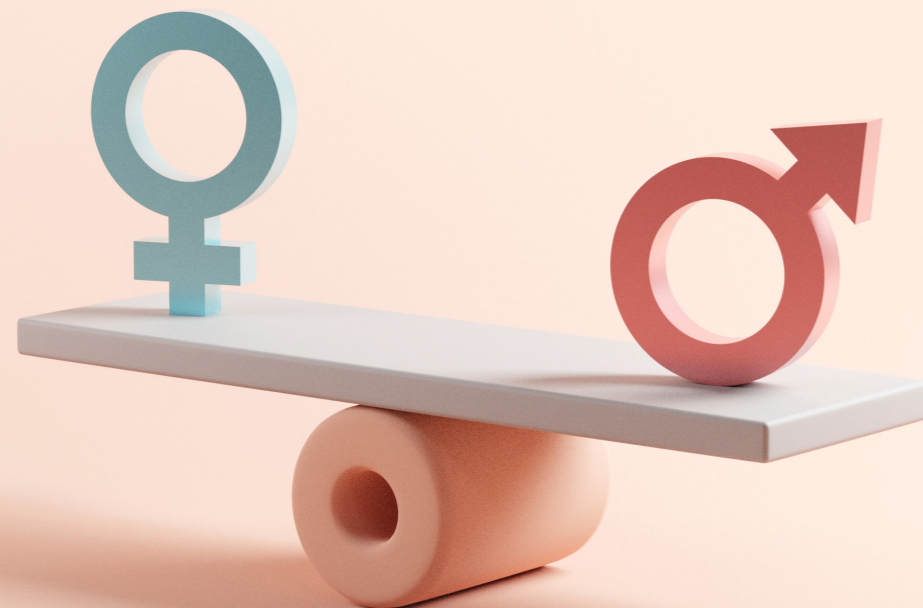
GENDER EQUALITY

Sunray prohibits all forms of discrimination against women and girls in the construction sector.



SOME OF OUR ACTIVITIES

- 1 We provide equal opportunities for advancement to leadership roles for corporate decision-making and effective participation, regardless of gender.
- 2 We foster an understanding and inclusive work culture that values diversity and advocate for gender equality through industry partnerships and networking events.



CLEAN WATER AND SANITATION

Sunray takes part in ensuring the availability and sustainable management of water and sanitation for all.



SOME OF OUR ACTIVITIES

- 1 We implement sustainable water usage by incorporating water-saving technologies or fixtures at all owned premises.
- 2 We provide adequate and equitable sanitation and hygiene facilities for all employees.
- 3 We ensure strict adherence to environmental regulations and guidelines in all construction activities. Regularly assess and monitor the firm's environmental performance, and implement measures to minimize the potential impact on water resources and water-related ecosystem.



AFFORDABLE AND CLEAN ENERGY

Sunray is stepping up efforts on energy-efficient designs, sustainable building practices, and the integration of green technology for projects and building properties. This is aimed at ensuring affordable, reliable, and sustainable energy.



SOME OF OUR ACTIVITIES

- 1 By 2030, all inefficient incandescent light bulbs (ICLs) within Sunray's owned premises will be replaced with more efficient LEDs.

- 2 We are incorporating solar panels into all premises owned by Sunray to harness renewable energy.

- 3 By 2050, all company vehicles and third-party vehicles utilised for the daily commute of Sunray employees are cleaner-energy models, such as electric, hybrid, or hydrogen fuel cell vehicles.

DECENT WORK AND ECONOMIC GROWTH

Sunray is dedicated to nurturing a micro-environment characterised by sustained, inclusive, and sustainable economic growth, as well as ensuring full and productive employment with decent work opportunities for all.



SOME OF OUR ACTIVITIES

- 1 We foster a productive employment environment and ensure decent work for all, emphasising equal pay for work of equal value.

- 2 We have implemented effective measures to eradicate forced labour and modern slavery.

- 3 We maintain a zero-tolerance policy for child labour and human trafficking in all forms within the business and supply chain.

- 4 We collaborate with ethical suppliers and subcontractors committed to fair labour practices.



INDUSTRY, INNOVATION AND INFRASTRUCTURE

Sunray advocates for the development of sustainable and resilient infrastructure while promoting inclusive and sustainable industrialisation.



SOME OF OUR ACTIVITIES

- 1** We implement sustainable construction practices or special construction methods to address environmental concerns, site challenges and best manpower management practices.
- 2** We incorporate innovative technologies to reduce the environmental impact of construction projects.
- 3** We emphasize the use of energy-efficient systems and promote the adoption of sustainable building materials in projects at new-built or existing buildings.



REDUCED INEQUALITIES

Sunray empowers and facilitates the social and economic inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion, economics, or other status.



SOME OF OUR ACTIVITIES

- 1** We foster a diverse and inclusive work environment that promotes equal treatment for all employees, regardless of their socio-economic background and identity.
- 2** We uphold fair labour practices and ensure that all employees receive fair wages, benefits, and opportunities for career progression, and provide a supportive work environment that values the contributions of each individual.
- 3** We promote a culture of understanding and respect for diverse perspectives and backgrounds.





RESPONSIBLE CONSUMPTION AND PRODUCTION

Sunray actively demonstrates a commitment to fostering a sustainable consumption and production pattern in order to minimise environmental impact and promote long-term ecological well-being.



SOME OF OUR ACTIVITIES

- 1 We moderate consumption in energy, waters, and materials in building operation and at projects to reduce GHG emissions.
- 2 We reduce waste generation through prevention, reduction, recycling and reuse.
- 3 We promote the use of recycled or upcycled materials in interior design and construction, and the procurement practices that are sustainable.

SUSTAINABLE CITIES AND COMMUNITIES

Sunray collaborates with public and private sectors in the journey transforming Singapore to a City in Nature that is ever inclusive, safe, resilient and sustainable.



SOME OF OUR ACTIVITIES

- 1 We are aligned with Singapore Green Building Masterplan and sustainable building certifications such as Green Mark, LEED, WELL, and EDGE to build resilience against climate related hazard.
- 2 We focus on creating interior spaces that promote sustainable urbanisation and designs that enhance the overall quality of urban living.
- 3 We contribute to creation of safe, inclusive and accessible, green public and private spaces, in particular for women and children, older persons and persons with disabilities.



CLIMATE ACTION

Sunray is actively integrating climate change measures into its company policies and strategic planning, demonstrating a strong commitment to environmental sustainability and responsible business practices.



SOME OF OUR ACTIVITIES

- 1** We encourage the use of renewable energy sources to lower GHG emissions from thermal power plants.
- 2** We promote the use of sustainable materials that contribute to carbon sequestration or have a lower embodied carbon footprint.
- 3** We prioritize sourcing materials from environmentally responsible suppliers, waste reduction, and environmentally sound management of chemicals and wastes.
- 4** We improve awareness-raising within organisation on climate change impacts and mitigation.



PARTNERSHIPS FOR THE GOALS

Sunray strengthens its role as a responsible global citizen by revitalising partnerships to achieve the Sustainable Development Goals (SDGs).



SOME OF OUR ACTIVITIES

- 1** We participate in the industry associations and initiatives that focus on sustainability and mutual sharing of best practices in the built environment.
- 2** We encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships.
- 3** We give impetus to sustainable development and lifestyles in harmony with nature.



REVISITING OUR SUSTAINABILITY JOURNEY

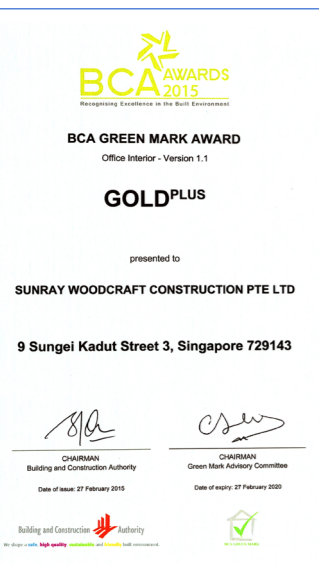
Sustainability Certification



◀ 2009
ISO certified in Environment Management System (ISO 14001)



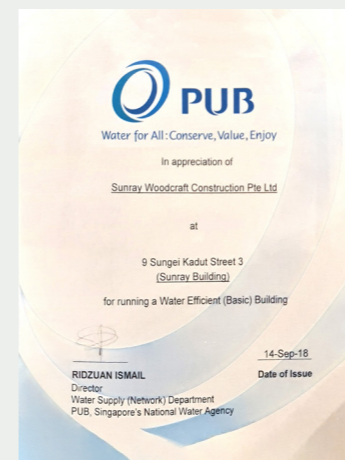
◀ 2016
Received recognition for ecological landscape design and management



▶ 2014
Became a corporate member of the Singapore Green Building Council



◀ 2015
Sunray built and moved into its new Headquarters, the Sunray Building, which was awarded with BCA Green Mark Gold Plus Award



◀ 2018
The Sunray Building was successfully certified as a Water Efficient Building under the PUB Programme



▶ 2017
Certified as an Eco-Office under the eco-outreach initiative of Singapore Environment Council

▶ 2015
Certified as BCA Green and Gracious Builder



▶ 2021
Certified BCA-HPB Green Mark Gold Plus for Healthier Workplaces



Upcycling Our Own Office Furniture



With a strong commitment to the **5R's (Refuse, Reduce, Reuse, Repurpose, and Recycle)** embedded in Sunray's organisational culture, creative ideas emerged when we relocated our office in 2015.

Instead of opting for excessive new purchases, and in an effort to reduce our carbon footprint, our carpentry team skillfully repurposed wood waste from wooden crates into biophilic and long-lasting office furniture. Try to spot them when you visit Sunray Building next time!

Sunray of Hope for Inclusive Society



Sunray is proud to be the main contractor, and one of the founding donors of Enabling Village, a dedicated and supportive environment for people with disabilities to receive job training and education.

We are heartened to share the joy with Enabling Village, an inclusive community spaces that integrates lives, as it has won the 2022 Urban Land Institute (ULI) Global Award for Excellence. This international recognition signifies best practices and the impact nature of the project.

Enabling Village is 1 out of 6 global winners for this award. These winners were selected from a pool of 26 global finalists who had first won in the highly competitive regional competitions that saw a total of 152 submissions. Earlier in June 2022, Enabling Village was selected as one of 13 winners of the Asia Pacific edition of the Awards, and it was the only winning project from Singapore.

End-Of-Life VS Next-Of-Life



Sunray's business revolves around the core of the 3Ps: **People, Planet, and Prosperity.**

As the construction contractor for the National Centre for Infectious Disease (NCID) project, we explored the option, together with the client, of giving a second life to the trees cleared for construction. Felled logs were transformed into an aesthetically pleasing feature wall, bringing a natural element and biophilic design into the building.

In addition to the feature wall, some of the logs were used as materials for on-site furniture products. Example of some of such furniture include natural wooden coffee tables, wooden stools, half log benches, display credenzas, and timber benches.

On another project at a hotel, the doors of old wardrobes, still in excellent condition, were processed and refurbished for reapplication within the same project, mitigating "cradle-to-grave" cycle where possible. This contributes to reducing waste and the carbon footprints of the A&A project.



SUSTAINABLE BUSINESS CULTURE

“SOTU”- Switch Off and Turn Up



In conjunction with the “Switch Off, Turn Up (SOTU) Campaign” of iLight Singapore 2023, as one of the official sponsors of the sustainable light art festival that features art installations designed with energy-saving lightings and environmentally-friendly materials, Sunray were also invited to take up the challenge.

We participated by turning off lighting, and adjusting air conditioning temperatures for a month, from 01 June to 30 June 2023 at Sunray Building.

Non-essential areas lighting, and a portion office lightings were switched off during the lunch break. Additionally, the air conditioning was raised by 1°C, set to 25°C from 3pm onwards daily.

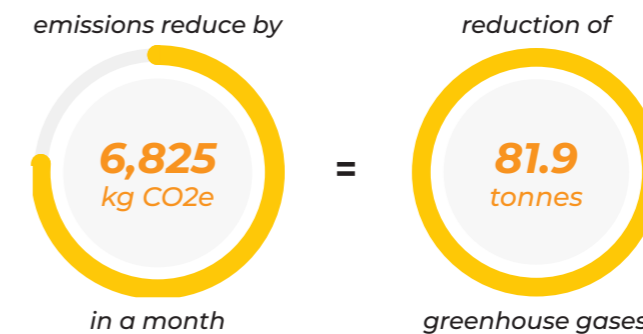


The tracking of the implementation indicates a significant reduction of 16,822 kWh in electricity consumption compared to the previous month. Hence, the initiative also reduced Scope 2 emission of Sunray Building by 6,825 kg CO₂e. That is equivalent to the amount of CO₂ absorbed by around 273 mature trees in a year.

Having garnered warm support from the Sunray community, these practices have persisted since then, extending beyond the initial event period.

Small Habit, Big Impact

A minor change in habit enabled Sunray to reduce emissions by **6,825 kg CO₂e** in a month, equivalent to an annualized reduction of **81.9 tonnes** of greenhouse gases.



This reduction is comparable to the carbon footprint reduction of approximately 105 passengers on a one-way flight from Singapore Changi Airport to Osaka International Airport.

SUSTAINABLE BUSINESS CULTURE

A Sustainable Corporate Social Responsibility (CSR)



At the beginning of a project, Sunray assesses the condition of on-site furniture before commencing demolition works.



Some projects involve a large quantity of furniture sets with similar styles. Additionally, certain pieces of furniture might be rarely used or show only minimal wear and tear, making it wasteful to dispose of them.



To support the circular economy, upon receiving clients' approval, Sunray salvages furniture in excellent condition that would otherwise be discarded and diverts them for better use. This process includes refurbishing the furniture before donating it to non-governmental organizations (NGOs) or non-profit organizations (NPOs) as part of Sunray's CSR initiatives.

Sunray had the opportunity to connect with EQUAL-ARK, an animal-assisted learning center in Singapore that develops life skills in youths, people with special needs, families, and seniors. Having learned about their needs, we contributed to the renovation, repainting, and furnishing for EQUAL-ARK.



Additionally, we repurposed furniture salvaged from projects using our in-house carpentry and metalwork capabilities. We are delighted that these efforts have helped EQUAL-ARK become more adaptable to changing program needs.

Sunray is heartened that we were able to play our small part in mitigating the "cradle-to-grave" product lifecycle and making a positive difference in society at the same time.

Sunray Be Green, Be Gracious Campaign

Every construction project affects our environment, and the public, one way or another. It is our duty as responsible Contractors to minimize these impacts.

At Sunray, we ensure that all our Project Teams implement these practices whenever possible.

01

- Use environmentally friendly cleaning and office products
- Adopt energy efficient appliances or motion sensors
- Set air-conditioning to 25°C
- Provide a pleasant working environment
- Provide proper facilities, gear and equipment for our workers

02

- Ensure that project site entrances are kept unobstructed and clean
- At locations that generate high volumes of dust, spray water on the ground to reduce dust generation
- Cover stock piles and loose soil using erosion control blanket
- Use convex mirrors for blind spots
- Recycle treated water for washing bay or watering plants
- Ensure vector control with less toxic pesticides
- Provide covered walkways and ensure wheelchair access
- Display signage and guides to pedestrians and motorists
- Use water efficient fittings

03

- Use advanced formwork (eg. metal, aluminium) and platform systems or scissor
- Designate storage space for materials
- Install solar-powered CCTV and noise meter
- Use precast components (e.g floor slab, column)

04

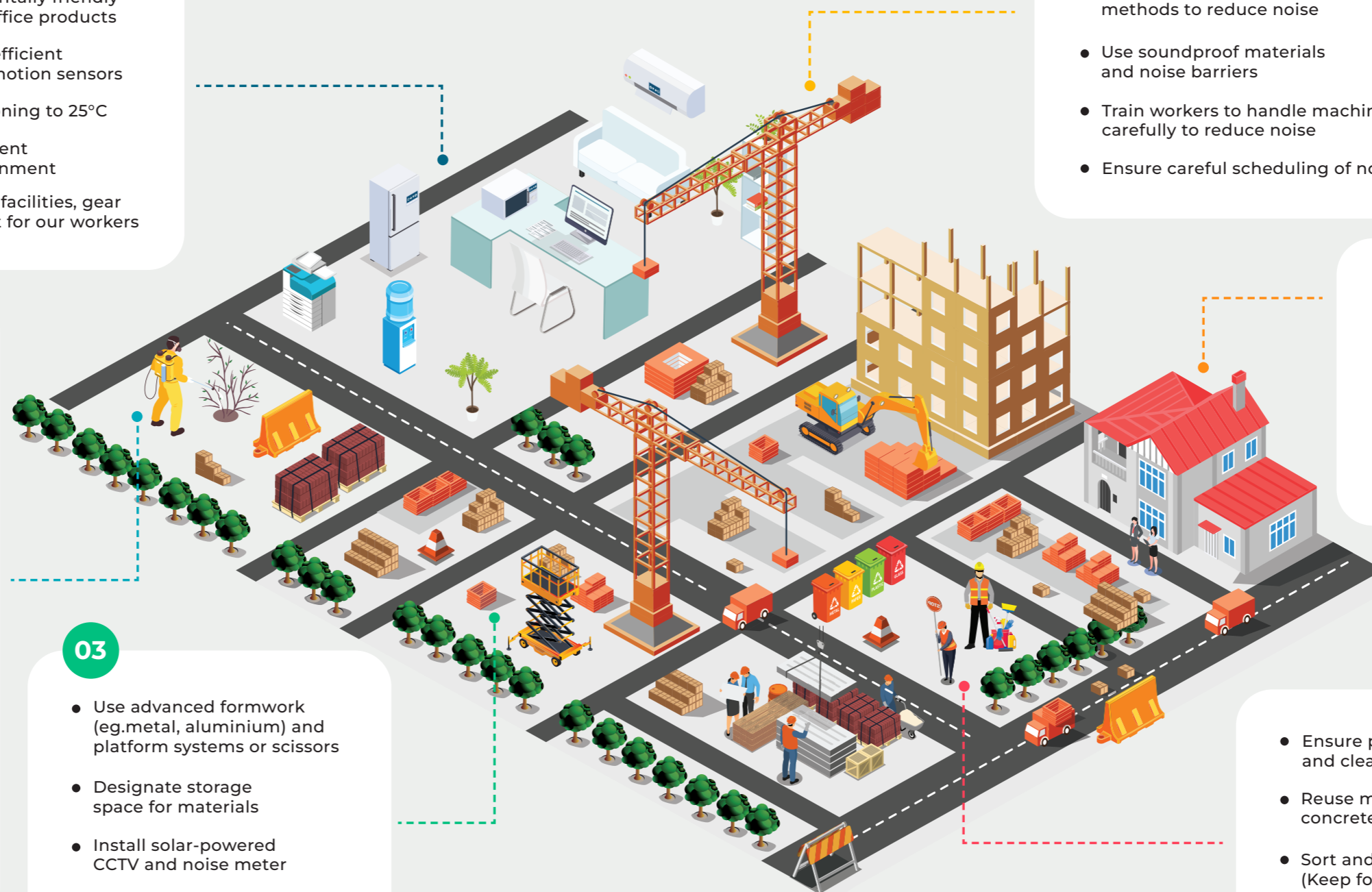
- Use alternative construction methods to reduce noise
- Use soundproof materials and noise barriers
- Train workers to handle machinery carefully to reduce noise
- Ensure careful scheduling of noisy works

05

- Proactively update neighbouring residents on progress
- Provide feedback channel for public and ensure proper records
- Provide vehicular barriers

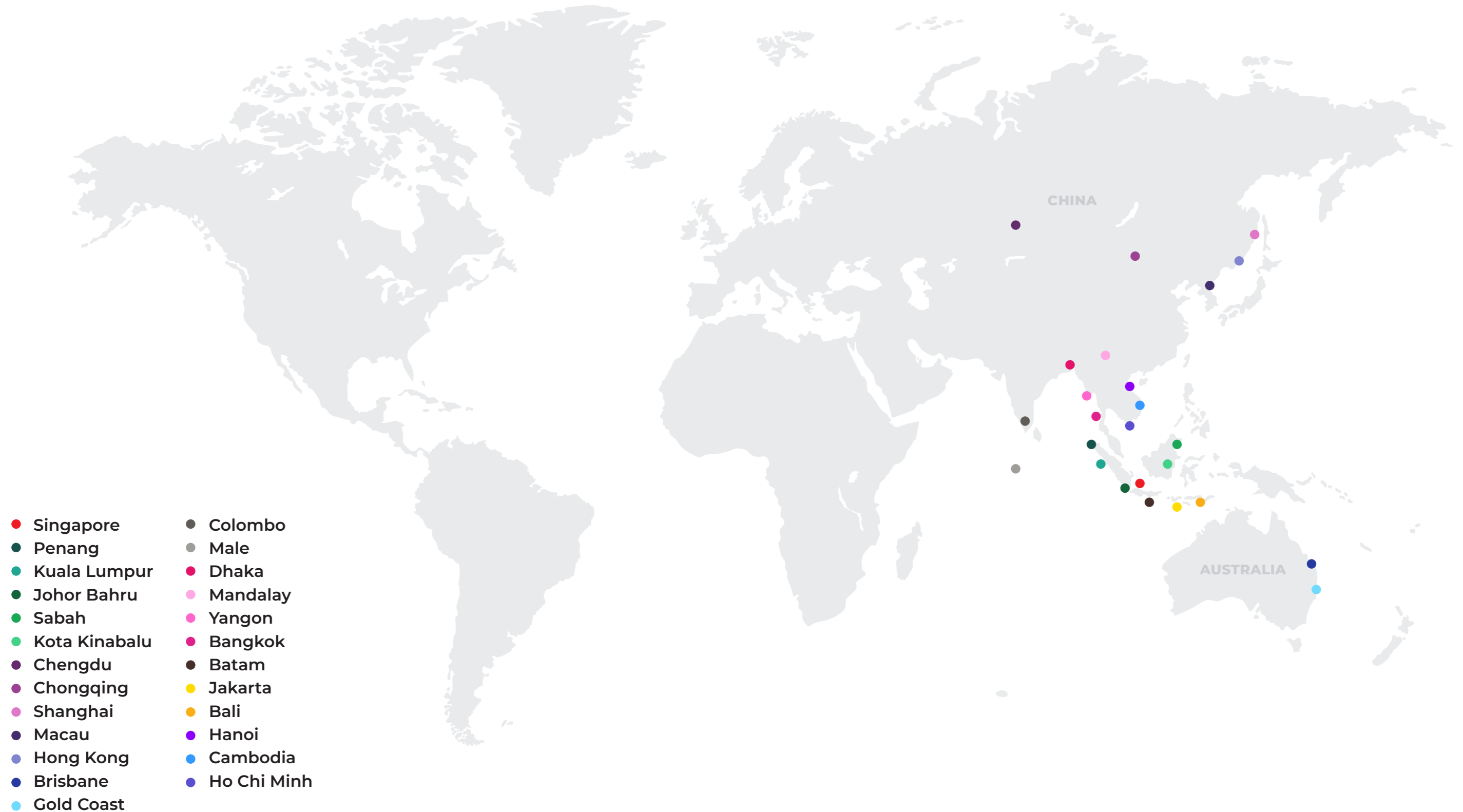
06

- Ensure proper housekeeping and cleanliness
- Reuse materials (e.g metal poles, concrete, wire mesh at site)
- Sort and segregate waste (Keep food waste bin covered)
- Provide traffic controllers



Our Global Footprint

Sunray has won the trust of our customers, delivering projects in the region. A strong production facilities and offices in **Singapore, Malaysia, Indonesia, Cambodia and China**. Sunray has been providing construction, interior fitting out services and furniture in Asia with Pride.



SINGAPORE (HEADQUARTERS)

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