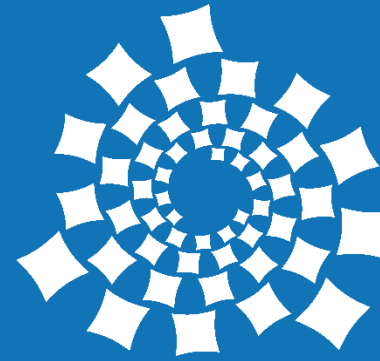




GLOBAL COOLING PLEDGE ASSEMBLY

SINGAPORE 15 - 18 SEPTEMBER 2026

Parallel Session: Implementation Roundtables and Beat the Heat Training

Market Transformation: Scaling Passive Cooling in Buildings

11:00-12:30, 16 September 2026



Ministry of Sustainability
and the Environment
— SINGAPORE —

Opening remarks

3 minutes



Cédric Bozonnat

**Counsellor for Energy, Transport
and Sustainable Development,
Regional Economic Service,
for Singapore and ASEAN countries,
French Embassy in Singapore**

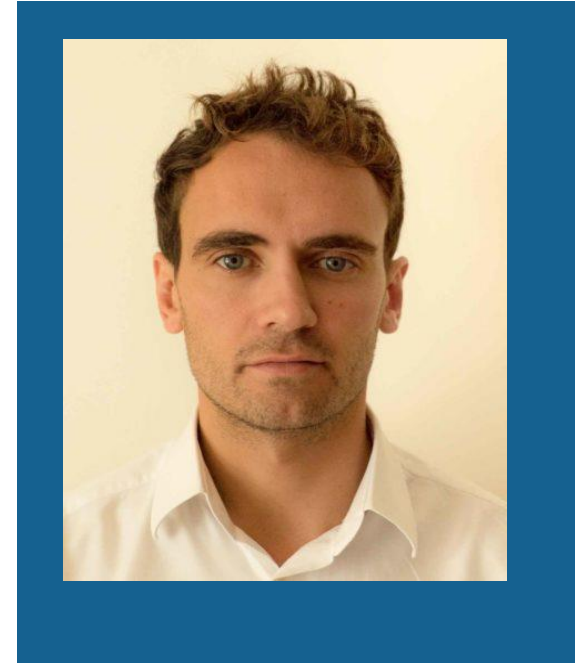
Setting the Scene: Passive Cooling and Global State of building codes

7 minutes



Gennai Kamata

Associate Programme Officer
UNEP



Benjamin Hickman

Programme Management Officer, UNEP



**GLOBAL COOLING
PLEDGE ASSEMBLY**
SINGAPORE 15 - 18 SEPTEMBER 2026

Market Transformation

**Scaling Passive Cooling in Buildings for
Heat Resilience**



Ministry of Sustainability
and the Environment
— SINGAPORE —



Policy Support: Market Transformation for passive cooling, Cambodia



• Interministerial Collaboration

- **Environment Ministry:** Climate Policy, NDC,
- **Construction Ministry:** Building Code, Building Permit
- **Energy Ministry:** Energy Efficiency and Conservation
- **Labour Ministry:** Heat Stress on Labours
- **Health Ministry:** Heat Action Plan
- **Education Ministry:** Academic Curriculum
 - Ensure the alignment to develop consolidated building energy code, avoiding overlaps, duplications, gaps between ministries
 - Feed into NDC, EIA, Building Energy Code updates, successfully incorporate passive cooling, establishing a potential market.



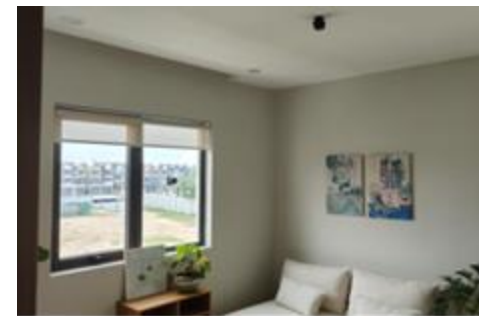
Cambodia Passive Cooling Interministerial Workshop, September 2024 in Phnom Penh

Demonstration: Market Transformation for passive cooling, Cambodia



- **Real-estate Developer Collaboration**

- Private Sector (developers) is the main driver for national construction
- **Cool paint demonstration** on roofs and walls.
- **Window-to-Wall Ratio** Demonstration
- Monitoring Equipment was installed to measure 12-month impact on **indoor temperatures and cooling energy**.
- **40% energy use reduction** with **only 3% additional cost**, achieving additional **162 days of thermal comfort without AC use**.
- Producing scientific evidence feeding into the policy backstopping



Collaboration with ISI Group



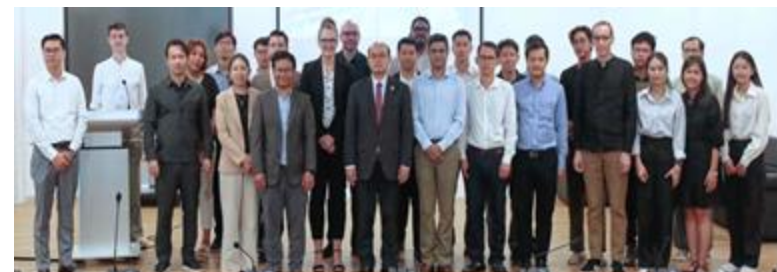
Ministry of Sustainability
and the Environment
SINGAPORE

Capacity Building: Market Transformation for passive cooling, Cambodia



- **Capacity-Building**

- **Design Workshop:** demonstrate how to use energy simulation and design software
- **Design Guidelines:** handbook for architects, engineers, etc to incorporate passive cooling into their design drawings and material specifications.
- **Knowledge Exchange:** establish Community of Practice (CoP) to share the best practices and lesson learnt, hosted by ITC
- **International Webinar Series:** transfer the global knowledge into Cambodia
- **Virtual Reality Tool:** explain the benefits of passive cooling to end-users with a visual material





Enabling states, cities and private sector to drive action on
passive cooling & thermal comfort

Starting Point

- National Cooling Action Plan framework
- Numerous demonstrations (*not collated, not 'owned' by policymakers*)
- National building energy codes with passive cooling (*not mid-size buildings; not regulated sub-nationally*)
- Strong state governments with targets and able to coordinate across departments
- Large-scale public building construction (*procurement norms for passive cooling missing*)
- Strong real estate sector (*diverse capabilities; resisting regulation*)
- Established building certifications (*not all equal*)
- Very strong civil society and academia (*lack of convening; duplicated efforts*)
- Diverse finance mechanisms tested (*numerous challenges*)
- Rising recognition of heatwave



BeCool India Programme



Enabling states, cities and private sector to drive action on
passive cooling & thermal comfort

Component 1



Enhancing policy design & implementation

- Strengthening national, state and city policies, standards
- Horizontal departmental coordination
- Convening platforms and aligning projects

- 5 partner states
- 20 cities
- 50+ partners

Component 2



Accelerating finance

- Demonstration projects
- Financing mechanisms
- Business models
- Bankable project pipelines
- Public finance allocation and aligning funds

- >100 million USD
- 10+ project pipelines

Component 3



Awareness & capacity of real estate sector

- Real estate developer charettes and capacity building
- Professional and academic training/skilling
- Centres of excellence & skilling

- >20 developers
- ~ 5,000 people



Discussion Breakouts

Participants are welcomed to join Breakout 1 or 2

50 minutes



Breakout 1: Implementing Passive Cooling through Building Codes

MODERATOR

Mr. Benjamin Hickman

Programme Manager Becool India,
UNEP

Breakout 2: Scaling Solutions: Financing, and Technology Innovation for Passive Cooling

MODERATOR

Satish Kumar

CEO, President, Alliance for
Energy Efficient Economy (AEEE)

A Framework for Market Transformation of Passive Cooling

Breakout Groups

Policy, regulations, codes and standards for passive cooling

- Passive cooling guidelines and compendium (subnational, national and sub-regional)
- National building (energy) code with passive cooling; and subnational building regulations and incentives
- Certification and labelling (and incentives)
- Public buildings and green procurement
- Skilling and capacity building
- Public awareness; real estate sector buy-in

Unlocking finance, business models and demonstrations

- Demonstration and technology/financing pilots with real estate developers and public sector
- Public finance programmes and allocations and role of MDBs, PPP structuring
- Commercial bank – construction finance, green mortgages
- Community based organisations and community financing
- Carbon finance and credits



GLOBAL COOLING PLEDGE ASSEMBLY

SINGAPORE 15 - 18 SEPTEMBER 2026

Reporting Back

Rapporteurs designated by Breakouts



Ministry of Sustainability
and the Environment
— SINGAPORE —



Closing Remarks



Rashane Sala-Ngram

Senior Officer
Regional Partnerships and Cooperation,
AFD