



ENERGY. CLIMATE.
DEVELOPMENT.

Advancing SDG 7 : Powering Healthcare, Supporting Clean Cooking and Sustainable Cooling

Jacqueline Lam, Regional Director for Asia

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OUR MISSION

SEforALL operates at the nexus of global energy, climate and development efforts to enable a Just and Equitable Energy Transition



ENERGY ACCESS

As captured by SDG7 targets, aiming to provide universal access, increase in share of renewables, and improved energy efficiency.



CLIMATE & NET-ZERO TRANSITION

As committed to in the Paris Agreement, which aims to keep global warming to $\leq 1.5^{\circ}\text{C}$ and reach net zero emissions by 2050.



DEVELOPMENT & LIVELIHOODS

As captured by global SDGs, such as promoting healthy lives and well-being for all, and empowering women and youth.

OUR MISSION

To enable a just, equitable and sustainable energy transition that ensures every person, everywhere can live a dignified life on a healthy planet.



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Powering Healthcare

Powering Healthcare in South Asia

South Asia: India and Nepal



- Collaborating with UNICEF to deliver market assessments and roadmaps for Powering Healthcare in 5 states of **India**. Expected to be published by December 2025.
- Climate Finance for Powering Healthcare (launched in Nov 2023)
 - Featuring case studies from **India, Nepal**, and Nigeria, this report makes a compelling case for low-carbon, climate-resilient investments in healthcare energy systems.
 - It quantifies mitigation and adaptation benefits highlighting, for e.g., that solar PV systems in Indian healthcare facilities could save \$125–207 million annually and reduce greenhouse gas emissions by 0.29–0.5 MtCO₂.
 - The report provides a clear roadmap for governments and stakeholders in South Asia and beyond to integrate climate finance into health sector energy planning.
- Climate Resilience and Powering Healthcare in the Global South (launched in Feb 2025)
 - Featuring case studies from **India**, Kenya, and Barbados, this report examines how climate impacts disrupt energy supply and alter energy demand in healthcare facilities.
 - In India alone, 19% of public healthcare facilities are at high or very high risk from drought, flooding, or cyclones. Making these facilities climate-resilient through solutions like energy-efficient fans, solar refrigerators, and cool roofs, would require an estimated \$54 million.
 - The report offers concrete recommendations to governments and health systems on building climate-resilient energy infrastructure across the Global South.
- Knowledge Partner for GOGLA India DRE event (April 2025)

Powering Healthcare Centre of Excellence

2023 and 2024 achievements

1. Design and launch of the Centre of Excellence



2. PHC Market Assessment & Roadmap for Madagascar



3. Climate Finance Study (launched in Nov 2023 at COP 28)



4. Policy Foundations for Powering Healthcare



Powering Healthcare Centre of Excellence

2025 activities

1. Climate Resilience Study (Launched in Feb 2025)



2. PHC Market Assessment & Roadmap for India – 5 states (Ongoing and expected to be completed in Q4 2025)



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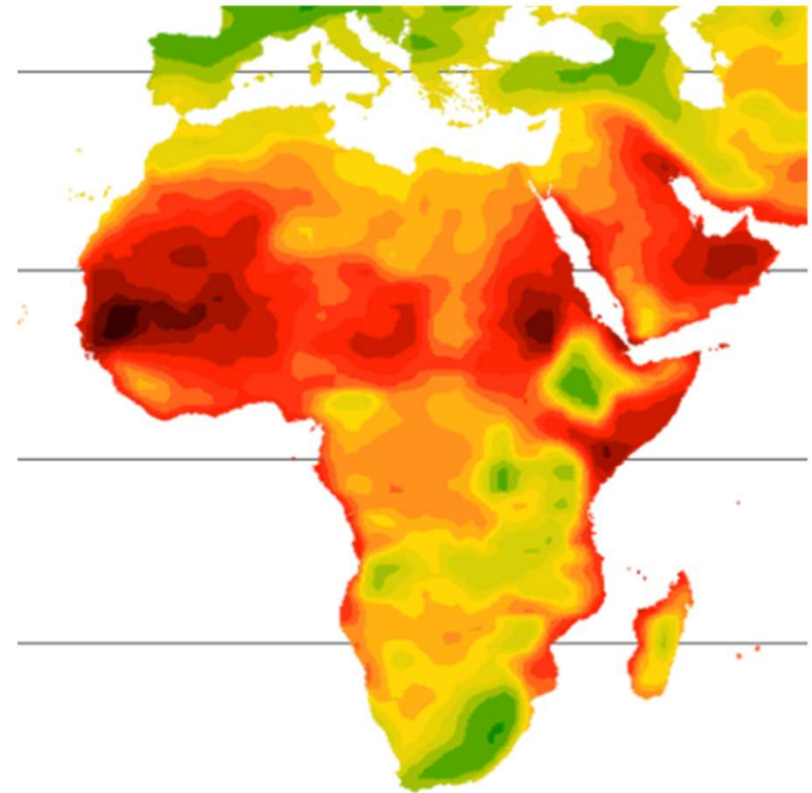
Sustainable Cooling

In a warming world, access to cooling is not a luxury. It is an issue of equity, necessary to adapt and thrive.

1.14 bn

People at high risk for the lack of cooling

Do you know the cooling access gap in your country?



ACCESS TO COOLING | POPULATIONS AT RISK



**RURAL
POOR**

- Likely to be subsistence farmers without access to an intact cold chain;
- may lack access to electricity and properly stored vaccines.

HIGH RISK



**URBAN
POOR**

- May have some access to electricity, but live in housing of poor quality;
- may have a refrigerator, but food often spoils due to intermittent power.



**LOWER-MIDDLE
INCOME**

- May purchase an affordable thus likely inefficient air conditioner or refrigerator that raises energy consumption and GHG emissions.

MEDIUM RISK



**MIDDLE
INCOME**

- May be able to afford a more efficient air conditioner or minimize its use;
- may move to energy efficient housing and working environments.

LOW RISK

Sustainable Cooling

INTERVENTIONS

Global Advocacy and Strategic Communications

Catalyze new commitments for sustainable cooling, whilst championing access to cooling as an issue of equity and justice

Tailored country support to unlock investment in sustainable cooling and cold chains

Support governments with technical assistance to integrate sustainable cooling into evidence-based policies, plans, and strategies—focusing on agricultural and vaccine cold chains, and passive or nature-based solutions for cities and buildings

Catalyzing Solution Deployment, Incubation & Replication

Increase financing for sustainable cooling and help build lasting markets by providing investors, companies, and development partners with expert support, data, and partnerships to de-risk investments and scale up funding in supported countries

OUTCOMES

ACCELERATED PROGRESS ON SDG7 WITH BROADER SDG IMPACT

1. Greater political momentum and public awareness for sustainable cooling as a development and climate priority
2. Sustainable cooling recognized in global and national agendas, contributing to SDG7 and the 2030 agenda
3. Evidence-based policies and plans adopted to expand access to sustainable cooling for vulnerable populations
4. More finance mobilized and investment risks reduced
5. Growing markets for affordable and sustainable cooling solutions

SEforALL Sample Activities in Cooling

Global Advocacy and Strategic Communications

- SEforALL's global advocacy efforts resulted in over **60 countries signing the Global Cooling Pledge at COP28**, including Kenya, Ghana, the United States, Brazil, and Nigeria. The Chilling Prospects series identifies every year the population at risk due to the lack of cooling
- The **Chilling Prospects** series identifies every year the population at risk due to the lack of cooling
- In collaboration with ESMAP, we've highlighted the **nexus between energy access and clean cooling solutions**

Tailored country support to unlock investment in sustainable cooling and cold chains

- Partnered with countries including Ghana, South Africa, Sri Lanka, Bangladesh, Cambodia and Kenya to improved their policy and regulatory frameworks through **National Cooling Action Plans**
- Ongoing Support to ten Kenyan county governments to develop **Heat Action Plans**

Catalyzing Solution Deployment, Incubation & Replication

- Unlocked **+USD 300 million investment for sustainable cooling**, which further leveraged an estimated **USD 1.4 billion**



Driven by SEforALL and partners, the Global Cooling Pledge was launched at COP28 and has seen over 60 countries commit to reducing emissions and safeguarding communities.

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Clean Cooking

SEforALL's Clean Cooking Programme: Filling the missing links within the sector to achieve SDG7

By developing the thriving global market for clean cooking, we can transform the way the world cooks, saving lives, improving livelihoods, empowering women and protecting the environment, while accelerating economic growth simultaneously.

	PROGRAMME PILLARS		
	 Global Advocacy and Knowledge Dissemination	 Scalable Solutions and Platforms	 Tailored Country Support
Objectives	Rally political momentum, create awareness, and drive decision making on an international stage	Unlock financial flows , foster enabling business and policy environments , and test implementation models	Build system capacity and advise around national planning and implementation
Opportunities	Build the action base through high-level agenda settings, partnerships and convenings; Raise awareness and accelerated adoption through innovative communications strategies.	Leverage on innovative financing mechanisms to scale finance towards the sector; Seek opportunities to engage women and youth in the sector.	Elevate the importance of clean cooking as part of national energy planning, and improve data and evidence bases to accelerate decision making within the sector.

Integrated Energy Planning and Clean Cooking

Visual Representation of Clean Cooking Opportunities

Integrated Energy Planning makes use of IT, digital tools (e.g., GIS), satellite imagery, and machine learning to give **policymakers an easier, relatively low-cost, and visually powerful way of identifying** the optimal mix of technologies to achieve universal energy access.



Least-cost technology mix to electrify households and social infrastructure

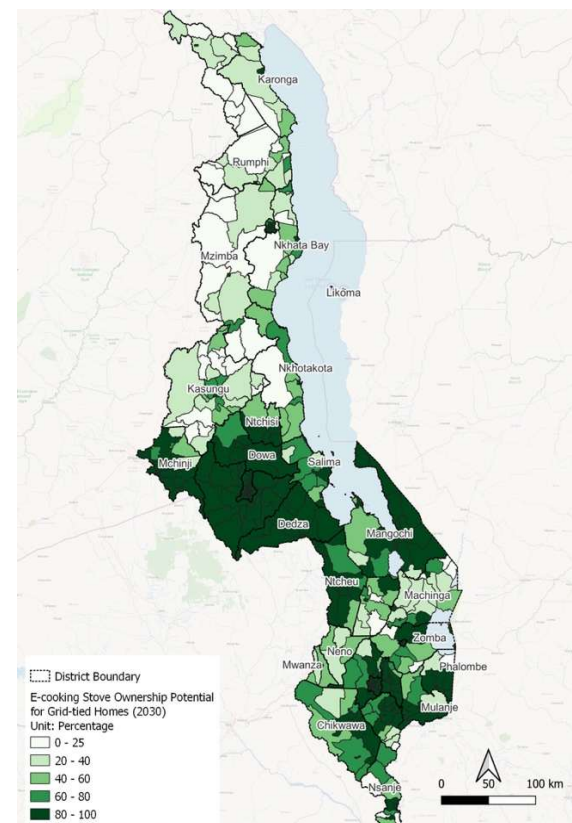


Integrating electrification, medical and agricultural cold-chains and access to clean cooking analysis with geospatial components



Associated costs, budget implications and prioritization of sites for each technology type

Impact example: eCooking potential reaches **73.1% of all households** in Malawi under the IEP universal electrification plan.



OnStove Methodology

OnStove – Open-source spatial cooking tool

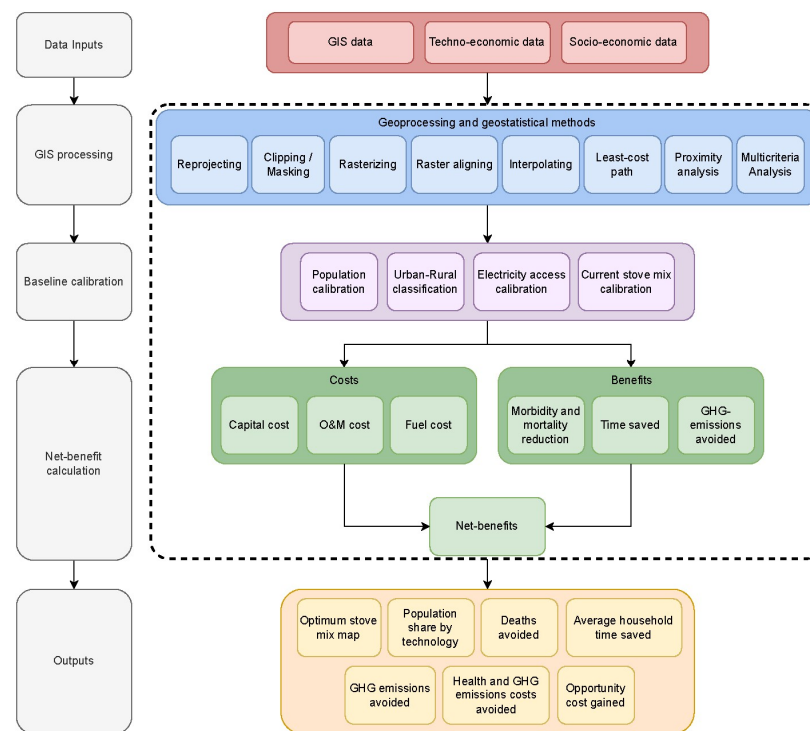
A geospatial clean cooking tool, determining the **net-benefit of cooking with different stoves** across an area

- Morbidity and Mortality reductions
- Emission reduction
- Time saved
- Capital investments
- O&M costs
- Fuel costs

Selects **the stove with the highest net-benefit** in each settlement.

Why Geospatial?

- Ability to tailor solution
- Ability to diversify supply mixes (costs & resource availability changes with location)
- GIS can be used to illustrate results in interactive maps – results easily understood



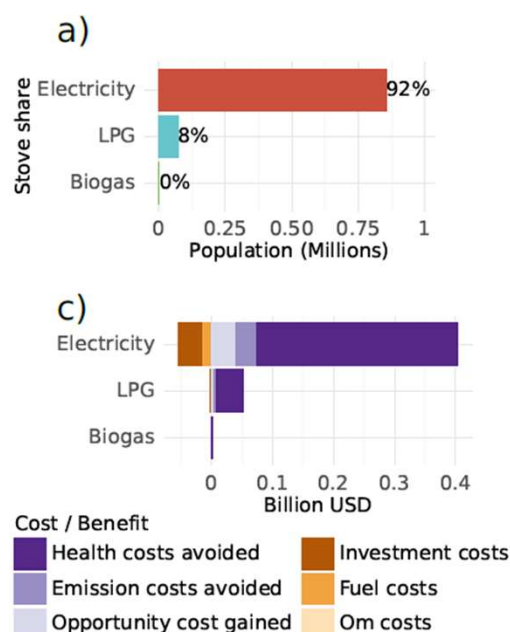
OnStove Methodology – Fiji Example

Main Result Example – Fiji

a) OnStove determines and visualizes the stove split for the given study area. The graph displays both shares and absolute numbers of each stove type.

b) Main result map of the OnStove analysis, showing the spatial distribution of the maximized net-benefit technology mix

c) OnStove calculates the costs and benefits of transitioning to clean cooking alternatives relative to a baseline, i.e. the current cooking technologies used over the study area.



Maximum benefit cooking technology

- LPG
- Biogas
- Biogas and LPG
- Electricity
- Electricity and LPG
- Electricity and Biogas

eCooking Opportunities Example: Clean Cooking Transition in Schools in Tanzania

Sustainable Energy For All (SEforALL) and the World Food Programme (WFP) have partnered to address the clean cooking challenge in schools globally.

The first implementation country: **Tanzania**

Transitioning schools to clean, affordable and reliable, cooking solutions:

- Improves the **health** of students, teachers, and cooks by reducing their exposure to air pollution generated in school kitchens.
- Supports school feeding that leads to improved **education** and **nutrition**
- Reduces **deforestation**
- Reduces **carbon emissions**
- **Schools as agents of change**

Objectives

1. Deploy electric cooking solutions to up to 50 grid-connected government primary schools with existing school feeding programs, reaching over 25,000 students and contributing to social, health, education and social economic development benefits across schools and communities
2. Deliver substantial reduction in emissions and an estimated 40,000 tonnes of biomass saved
3. Implement carbon finance to ensure sustainability and support scale up



World Food Programme



Thank you for your attention

Sustainable Energy for All is an independent organization, hosted by UNOPS, with a global mandate to accelerate progress on the energy transition in emerging and developing countries. We work at the intersection of energy, climate, and development.

We collaborate with governments and partners worldwide to end energy poverty, accelerate the deployment of renewable energy solutions, and combat climate change.

Jacqueline Lam

Asia Regional Director

Jacqueline.lam@seforall.org

