

# 2050 Calculator



## What's happening in the 2050 Calculator community?

In this issue, you'll find updates on [Calculators around the world](#) over the last six months, including the launch of the [Malaysia Calculator Action Simulator \(MCAS\)](#), [Kenya My2050](#), and validation of [NECAL 2060](#).

As we begin the new year, we also end the current Calculator programme. We'd like to take the opportunity to thank you for your support over the last five years. During that time, we've supported eight country Calculators – in Vietnam, Malaysia, Nigeria, Thailand, Philippines, India, and Colombia – held two in-person Calculator community conferences in Windsor, UK (2019), and Richmond, UK (2023), as well as annual webinars, all while weathering a global pandemic. We're proud of our collective achievements.

Unlike other energy models, the 2050 Calculator is a tool which can be used by governments, stakeholders, academia, and the public alike, including schoolchildren, to inform debate about what policies will be most effective in tackling energy challenges and reducing emissions. It has an important role to play in decarbonising our environments and will continue to develop through future government programmes.

From April 2024, delivery of further 2050 Calculator activities to realise policy impact through increased use of Calculator tools will be via UK Partnering for Accelerated Climate Transitions (UK PACT). Individual

projects will be scoped using UK PACT processes to ensure strategic alignment with fund objectives and Value for Money. The UK Government is committed to helping partner governments reach their climate goals. For any further information on the 2050 Calculator, please contact [alina.apine@energysecurity.gov.uk](mailto:alina.apine@energysecurity.gov.uk).

Again, we thank you for your programme support and contributions. We wish you and your families a happy and prosperous 2024.

- The 2050 Calculator consortium

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### **Calculators around the world – updates**

#### Colombia

Colombia's Carbon Calculator 2050 is near completion. The Excel module has been finalised and the webtool is undergoing rigorous testing by the Colombian Ministry of Environment and Sustainable Development (MinAmbiente) to ensure seamless functionality and robust user experience. All other project deliverables have been approved, and MinAmbiente is set to launch the tool in early 2024, with support from UK Partnering for Accelerated Climate Transitions (UK PACT). We look forward to seeing the final version.

## Kenya

It's been a busy few months for the Kenya Carbon Emissions Reduction Tool ([KCERT 2050](#)). The team led workshops to further embed KCERT



2050 with policymakers and led two webinars to grow Calculator communities in Tanzania and Uganda. In November, KCERT 2050 was presented to President Ruto of Kenya during his visit to Strathmore University. Demonstrating the country's commitment to decarbonisation, [My2050 Kenya](#) was developed and released by Strathmore University. The tool builds on the data housed in KCERT 2050, presented in an accessible and engaging format for use by the general public. Aimed at students and policymakers alike, My2050 Kenya makes it possible for all Kenyans to explore and share their vision for a low carbon economy. [Read more.](#)

## Malaysia

The Malaysia Climate Action Simulator ([MCAS](#)) webtool was launched in October at the International Greentech and Eco Products Conference (IGEM) event in Kuala Lumpur. Prior to the launch, the Malaysian Green Technology and Climate Change Corporation (MGTC) updated the



model to include the latest electricity sector data, and held capacity building and stakeholder workshops with ministry, associated government agencies, and the public on the potential use of MCAS in achieving carbon reduction targets. The launch was attended by the Deputy Minister, Ministry of Natural

Resources, Environment and Climate Change (NRECC); YB Dato' Sri Huang Tiong Sii, the British High Commissioner to Malaysia; Her Excellency, Ailsa Terry CMG; and MGTC's CEO, Ts. Shamsul Bahar Mohd Nor. The UK PACT programme will support MCAS in 2024, including outreach to further Malaysian government agencies and civil society groups, and potentially commissioning of a Southeast Asia workshop. [Read more](#).

## Nigeria

The Energy Commission of Nigeria, the Federal Ministry of Environment, the UK Government, and the British Embassy Abuja, have jointly updated the Nigeria Energy Calculator ([NECAL](#)) for the 2060 planning horizon which is in its final stages of validation with stakeholders. Participants at the event were drawn from government agencies, including the Climate Change Office of the Ministry of Environment, the Federal Road Safety Commission, and the Nigerian Electricity Regulatory Commission, as well as academia. [Read more](#).

*"NECAL 2060 is a flagship integrated energy planning tool built on the framework of the UK-2050 Calculator for the purpose of assessing energy demand, energy supply, emissions, and land use emissions. The tool is designed to develop pathway combinations of energy demand and supply to achieve emissions reductions, while ensuring energy security based on available resources, emerging technologies, and lifestyle changes. The tool provides answers to the fundamental questions of how the energy system can evolve over the coming decades and its impact on greenhouse gas emissions, energy security, and the overall energy mix driving the economy."*

- Dr Abdullahi, Director General, Energy Commission Nigeria

## Thailand

The Thailand 2050 Calculator was showcased to key government officials during a workshop on December 18. Attended by representatives from the Ministry of Energy, the Ministry of Transport, the Ministry of Natural Resources and Environment, the Ministry of Agriculture and Cooperatives, and the Thailand Greenhouse Gas Management Organisation, the event aimed to enhance the tool's visibility and facilitate its use in policy development. Participants commended the Calculator's user-friendly design and offered valuable suggestions for future enhancements to better support their work and the overall policy-making process.



## The Philippines

The official handover of the Philippines Emissions Pathways Calculator (PEPC) to the Department of Energy took place at the end of October. The tool has the robust scientific evidence to pave the way for improved energy transition strategies and long-term climate change policies in the Philippines. The UK will continue to work closely with the Department of Energy and the Climate Change Commission Philippines in supporting the next phase of the project.



## About us

2050 Calculator delivery partner

To deliver the 2050 Calculator programme, the UK Government appointed a consortium as its delivery partner, led by [Mott MacDonald](#) and including [Climact](#), [Imperial College London](#) and [Ricardo](#).

We provided technical and capacity building support for governments and other stakeholders as they developed and used their Calculators; and were responsible for disbursing UK Government funding to in-country downstream partners where required to ensure sufficient resources were available. Over the course of the programme, we also worked to build and connect the international Calculator community through conferences and other communication channels.

We invite you to visit the [2050 Calculator website](#) and to join us on [LinkedIn](#) for future news, updates, and discussion.

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