

2050 Calculator

What's happening in the 2050 Calculator community?

Following on from the launch of the **Vietnam 2050 Calculator** last quarter, we were excited to see the launch of the Nigerian Energy Calculator – **NECAL2050** – at the end of March – the first African Calculator to support low carbon development! We're also pleased to announce that **Colombia** has joined the programme, driving an ambitious initiative to mitigate climate change and meet emission targets in one of Latin America's fastest-growing economies.

In this edition of our community newsletter, you can read more about the [Nigeria launch](#) and [Colombia joining the programme](#), as well as the latest highlights from [Calculators around the world](#). We're also starting to plan our [annual international conference](#), looking at venues in London, UK – stay tuned for details!

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Nigeria becomes the first African country to launch an updated 2050 Calculator to support low-carbon development

The Energy Commission of Nigeria (ECN), the Federal Ministry of Environment and the British Embassy Abuja have jointly launched an updated version of the Nigeria Energy Calculator 2050 (NECAL 2050), a bespoke energy and emissions model to assist Nigeria in achieving its climate goals. [Read more.](#)

Colombia has joined the UK Government’s 2050 Calculator programme being delivered by Mott MacDonald and partners

The Colombia Directorate of Climate Change and Risk Management is collaborating with the UK Government on an update to the Colombian 2050 Calculator energy and emissions model, under the 2050 Calculator extension programme. [Read more.](#)

Calculators around the world – updates

Colombia

The official launch of the project took place in May. The team organised a webinar with presentations by the Ministry of Environment, BEIS and the programme consortium. The scope of the update was presented, together with an explanation on the uses of the Calculator and examples of carbon Calculators from around the world. The event was a great opportunity to identify local stakeholders that have used and will use the Calculator in future. The team prepared a survey to allow participants to share ideas and provide feedback to improve the tool.



In parallel, the project has advanced to identify new functionalities required for the model and changes needed in the tool. Communications and stakeholder engagement plans have been developed. IDOM, our downstream partner, is working closely with local authorities to determine common ground, links, and connections with nationally determined contributions and the 2050 strategy team.

India

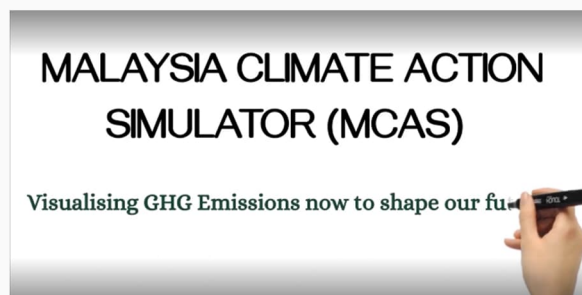
The India Calculator continues to grow in ambition and is expected to be a core tool for the country's net zero transition. Data and Excel tool development have been finalised, with some minor tweaks still needed before the webtool can be launched. India's **IESS 2047** is highly innovative – it includes automated data updates and an annual, rather than five-year, modelling function. The launch of the webtool is expected in the coming weeks and will usher in phase 2 of the Calculator, allowing it to be even more ambitious, innovative, and inclusive.

Kenya

The Kenya team is working on the final stages of its Calculator development. All data has been collected – a significant achievement – and a draft webtool has been showcased. Over the coming weeks, the team will work hard to ensure that government of Kenya ministries are aware of the tool for broad engagement. A director-level offsite is planned in June, to be followed by the official launch in July. We are thrilled to see the progress of Kenya's **KCERT 2050** tool as it moves towards its imminent launch!

Malaysia

An introductory workshop on the **Malaysia Climate Action Simulator (MCAS)** was held on 20 May. It was attended by over 20 participants consisting of industry players, academia and non-governmental organisations (NGOs). The feedback received from participants was



overwhelmingly good, with the main query being ‘when will the Calculator be available for public use?’ (the answer is, ‘in the next few months’). The team is also finalising a promotional video for the tool, which will be hosted on the Calculator’s official website once up and running.

Nigeria



Now that **NECAL 2050** has been launched, the team continues to work on expanding awareness of the tool. Ongoing engagement with ministries is underway, while capacity building workshops are being planned for Lagos

and Abuja, with broader awareness activities planned for all six zones of Nigeria.

It is with much sadness that we announce the passing of our friend and colleague, **Mr Iwollo**, who led the industry sector inputs to the tool. On behalf of the Calculator community, we would like to pay tribute to him and thank him for his contribution to NECAL2050. He will be remembered fondly.

The Philippines

We continue to support the Philippines team to deliver its Calculator, and are now looking at bringing in external expertise to deliver key areas of the scope.

Thailand

The team has completed data collection and assumptions for all sectors of the model, consisting of transport, industry, land use, electricity generation, and building sectors. All data has been consolidated and workshops were held



throughout April to engage stakeholders from various sectors on the model

assumptions and the possible levels of ambition. The feedback gathered from stakeholders has been reflected in the model.

The next step is to convert the Excel model to a webtool, which is planned for completion within the third quarter of this year.

Vietnam

The updated Vietnam Calculator – [Vietnam2050Calculator4NDC](#) webtool will be hosted on the government's [National Energy Efficiency Programme \(VNEEP\) website](#). The team is now exploring expanding awareness of the tool with key stakeholders.



Conferences and events

2050 Calculator International workshop Q4 2022

We're planning to hold our annual international conference in Q4 of this year. We're aiming for an in-person event in London, UK, to celebrate the programme's achievements and plan the way forward for Calculator use in policy and other areas. More details, including invites, to follow – but please get in touch if you're interested in attending.

About us

2050 Calculator delivery partner

To deliver the 2050 Calculator programme, BEIS appointed a Mott MacDonald-led consortium as its delivery partner. Our consortium includes [Mott MacDonald](#), [Climact](#), [Imperial College London](#) and [Ricardo](#).

We provide technical and capacity building support for governments and other stakeholders as they develop and use their Calculators; and we're responsible for disbursing UK Government funding to in-country downstream partners where required to ensure sufficient resources are available. Over the course of the programme, we're also working 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 news, updates, and discussion.

Delivery team highlights



Fran Walker

Principal Policy Adviser, Business, Energy and Industrial Strategy (BEIS), UK Government

Fran is part of BEIS' International Climate Finance team, providing oversight of the department's work on the 2050 Calculator as well as the NDC Partnership and Climate Ambition Support Alliance. She has worked in climate and development for the past 10 years and joined the UK government in 2018 from the Overseas Development Institute. Prior to that, she worked as a programme manager in PwC's Sustainability and Climate Change team. Fran holds a Master's in Sustainable Energy Systems and a BSc in Physics. She lives in Manchester and is based at BEIS' Salford office.

Victor Arango



Environment and Social Team Leader, Mott MacDonald

Victor is the 2050 Calculator programme's country manager for Colombia, which has now officially launched its update. He also leads Mott MacDonald's environmental and social team based in Bogota. Victor is a social performance specialist with over 12 years of experience in the assessment and management of social and environmental matters such as: community risks and impacts, indigenous peoples' engagement, community investment, health and safety, climate change, human rights, resettlement, and sustainability, amongst others. Victor is convinced that the 2050 Calculator is a tool that will allow his country to make better efforts to plan for sustainability and the protection of the global and local ecosystems.

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