SHARING SKILLS
CHANGING LIVES

CED
CHRISTIAN ENGINEERS IN DEVELOPMENT



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Annual Review 2025/2026

Christian Engineers in Development

CED is a Christian professional consultancy service dedicated to development work in partnership with overseas communities.

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Above: river valley, Kagera, Tanzania
Front cover: building a water tank during seminar in Ngara, July 2026.

Executive View



In May this year, the Board and Executive Committee had a weekend together at Micklepage Farmhouse, near Horsham. We spent some time reviewing recent years, and looking ahead to what the future might hold for us as a Christian development charity.

During our time of worship on the Sunday morning – it being Pentecost Sunday – we looked at Luke's account of Pentecost in Acts 2, and the coming of the Holy Spirit in power on that day.

The wind and the fire of the Holy Spirit are wild, untameable forces, and the experience of the wind rushing through the house with a great roar, and the fire coming to rest on each person present, must have been both terrifying and exhilarating. God was doing something new. Luke was explaining how it was that a small group of frightened, puzzled and largely uneducated men and women could so quickly become, as they did, a force to be reckoned with right across the known world.

Some lessons from Acts 2 for us as individuals and as an organisation:

- The Spirit disrupts comfort and creates courage
- The Spirit reverses isolation and builds community
- The Spirit equips ordinary people for extraordinary mission
- The Spirit equips for justice, compassion, reconciliation, advocacy

We're only a small organisation; but we serve a big God. And His Spirit is in us!

Over the last three months CED has hosted a student from Bournemouth University, on a six-month placement. Joel Viney has spent eight weeks in Uganda and Tanzania, visiting CED projects and partners there. His enthusiasm for development work is infectious, as is his strong Christian faith, and if you are able to come to the Open Day on 3rd October you'll have the opportunity of meeting Joel and hearing his reflections from his visit to East Africa. Joel has pioneered our CED Instagram page, with posts about his experiences and our projects – if you're on Instagram check out our page (ced.christian.engineers), or alternatively the same posts can be found on Facebook (Christian Engineers in Development).

Two of our members are stepping down from the Executive Committee, after five years of service since its formation: Ian Bell and Ian Rankin. In addition, Jonny Burns is stepping down from both the committee and his role as Membership Secretary. Our grateful thanks to them for their faithful service over the years.

Our thanks also to all our members who have given of their time and skills in this past year, and to the Executive Committee for all their work. I would like also to thank the Board for their unwavering support, wise governance, and searching questions.

This will be my last report as Chair of the Executive Committee; I'm stepping down from that role after five years in post, to concentrate on project-related work.

Jonathan Appleby, Executive Chair

From the Chair of the Trustees

"The Lord is exalted, for he dwells on high; he will fill Zion with justice and righteousness. He will be a sure foundation for your times, a rich store of salvation and wisdom and knowledge." (Isaiah 33:5 and 6).



Last year, in handing over to me, Rob Brighouse referred to a turbulent world over the previous 12 months. If anything, the turbulence is worse and uncertainty has increased – but we have trust in God that he is in control and provides the necessary stability in our faith for us to continue to serve him.

With the Board I would like to thank all those involved in the support of projects, whether in prayer, administration, dealing with funders, fund raising, designing and project implementation, liaising with partners, publicity, considering seeding, sustainability, and skills transfer, and evaluation, and so on in a more complex development and aid sphere.

Of many activities in the year, one has been the Strategy weekend. Thank you to all who took part and the efforts made to consider CED's way forward in a changing world, where aid monies are diminishing, donor expectations are changing, and the wider aspects of providing development beyond just engineering have to be considered. The output will of course need to be adaptable to requests, thoughts and resources, especially financial and membership capacity. So, another thanks to those members who have been able to give "feed-back" in phone discussions in response to one of the Strategy items – being to update ourselves on membership comments, interest, and availability.

As I write this many are engaged with planning for our AGM and Open Day on Saturday 3rd October, and it would be great to have you join with us to learn together and share about the work of CED in reaching out to the poor and marginalised.

Colin Gibson, Chair

Membership

During the CED Strategy Weekend in May, a key topic was membership and how we might improve the involvement of our various members. As an organisation we have a diverse portfolio of technical knowledge and experience and therefore we wanted to take a 'step back' and understand how we can best utilise each member's skills, availability and time. As a result of this discussion, each member is being contacted as a 'touch base' to understand how they feel about their current level of involvement, and how we, as an organisation can make the most of our members.

And now to introduce you to our new members who have joined since our last AGM!

Joel Viney is a Design Engineering student at Bournemouth University. He recently spent two months in Uganda and Tanzania, assisting

Jonathan Appleby and Ian Rankin with ongoing projects in the region. He is currently also supporting CED's publicity and communications, managing content for the organisation's Instagram and Facebook platforms.

Mark Gill CEng FICE is a hydropower engineer (1kW to 1530MW), recently semi-retired. He has worked 35 years overseas, 25 of those with CMS in Nepal as a Mission Partner. Originally from Co Armagh, he now resides in Seaford, E Sussex.

Roger Lewis is a chartered civil engineer, specialising in the development and management of water related infrastructure, mainly flood risk management, irrigation, and dams and reservoirs. He recently retired from the Environment Agency, and has also worked for engineering consultants in the UK and overseas, including Tanzania.

Martin Davy is a semi-retired Civil Engineer who worked in the US for many years on industrial, commercial and residential development projects. He has worked on roads, storm drainage, water supply and other infrastructure.

Gabriel Barale is a PhD student in Mechanical Engineering, currently working in the development of flapping wing drones. Gabriel uses his experience on the development of surveillance and rescue drones, biomedical devices and deployable structures, focusing on the development of more sustainable and reliable environments.

We hope they will find fellowship in CED to be something that builds them up in their faith and in their professional careers as well as enabling them to become involved in challenging development initiatives.

Jonny Burns

Meeting Up

On 4th Oct 2025 we celebrated CED's 40th birthday. Thirty-one members were present along with representatives of EMI and others interested in our work. We were able to look back with gratitude to God for all that had been achieved in that time, consider current projects and look forward to some possible new developments. It was a great time of fellowship and of encouragement.

We fully understand that not everyone can attend our annual Open Day and AGM and so hold other meetings during the year that all can access online. We are grateful that CED member Alan Chadborn usually organises two hybrid meetings a year, with those within striking distance of London invited to meet at City Hope Church, Bermondsey for food before the meeting. At the request of members, we now also arrange an online meeting approximately mid-way between AGMs to present updates on projects. Consequently, in April there were excellent presentations on 5 projects, with time for questions from members.

In addition, in May 2025 there was an online meeting to give safeguarding training, which all members actively involved in CED were encouraged to attend. This training is provided every three years.

Then, in August Alan C. hosted a Teams meeting where Alan M. talked about Rwanda, Nigel talked about possible Clariwash filters for Pakistan, Ian talked about rainwater harvesting as a franchise, and we finished with a discussion about the future of CED.

CED meetings are generally open to all members and supporters. Notification of meetings is by email – so don't forget to let us know if you change your email address, or, if you are not receiving emails, please contact members@ced.org.uk and we'll add you in.

Barbara Brighouse



20 Ways to Seed Development

Over the past couple of years, CED has been exploring the concept of 'Seeding Development'. We want to ensure that we are supporting engineering solutions that meet people's needs in a manner that is sustainable, with a particular focus on those who are in danger of 'being left behind', the poor and vulnerable.

"But some seeds fell in good soil, and the plants produced corn; some produced 100 grains, others sixty, and others thirty. And Jesus concluded, 'Listen, then, if you have ears!'"

Our Rain Water Harvesting (RWH) programme in Tanzania exhibits some of the different aspects of 'seeding', showcasing a few of the possible approaches. There are always different ways of doing things and approaches are adapted to fit the context of different communities and needs.

The engineered solution being promoted by our partner churches in Tanzania is the construction of cement water storage tanks which, for over three-quarters of the year, deliver water at home from a tap, capturing rainwater from the roof of each house.

"Seeding" starts with communications, sharing information, knowledge and concepts among both national and international partners. "Seeding" evolves into "capacity building" when the knowledge, skills and changed attitudes become embedded within the local community, whilst in the global church, "capacity building" is demonstrated in its growing recognition of its ongoing responsibilities in our unequal world.

~~20~~ 21 seeds planted in CED's RWH project in Tanzania.

1. Ensuring a local champion for the programme - embedding service delivery in the local church diocese, both at area leadership level (bishop and development department) and at parish / pastor level.

2. Harnessing strengths already present - Tear Fund had supported the training and resourcing of leaders in a 'Church and Community Mobilisation Process' (CCMP) and we benefit from their expertise. Trained local communities are willing to "get their hands dirty" instead of waiting for handouts.

3. Training local masons - initially, church members are trained in 10 day workshops then these workshops are rolled out to successive other Dioceses as the programme responds to demand.

4. Defining the relationship - developing the concept of a franchiser (CED) and franchisee (the Tanzanian Diocese), with the franchiser providing support through product design, initial knowledge transfer, subsequent quality assurance and assisting with marketing the approach, nationally and internationally. The franchisee's responsibility is to determine the genuinely needy (to receive a 100% subsidy via Tap-Twinning), identify institutions that badly need help, motivate local support (for funds to purchase materials and to collect sand and gravel, not always easy), then manage local trained masons to construct the tanks.

5. Providing on-going support - managing occasional water testing and ensuring the tanks continue to be useable and used, discussing problems, advising on any necessary repairs. Sharing CED's blueprints and PowerPoint presentations with franchisees.

6. Building a long term relationship - The franchisee / customer relationship is able to deal with issues down the line (this is critical - up to one third of hand pumps in Africa do not function at any one time).

7. Developing the transition of tank building - away from international funding, slowly reducing grants for institutions (through inflation) and towards supporting ongoing



viable businesses serving all their communities, though external support may always be needed for the "left behind".

8. Gradually expanding the programme - to additional church areas/dioceses as awareness increases.

9. Supporting the programme through an international 'Tap-Twinning' appeal - with a simple way to donate and recognition through sending the donor a fridge magnet showing their tank *(ced.org.uk/get-involved/donate/)*.

10. Developing the CED website - to show not only each tank on a map of north-western Tanzania but also explain the programme and invite donations *(ced.org.uk)*.

11. Producing a growing body of videos - technical and general, long and short, to explain the programme nationally and internationally.

12. Including a Frequently Asked Questions page on the website - this answers questions for engineers, for donors and for customers (recipients).

13. Further communicating the programme in UK - through a Church Times article, Men's Breakfasts, a Christmas Tree Festival, Harvest Appeals, people talking to their churches, etc.

14. Evaluating the sustainability and benefits of the programme - through a locally-managed first round of research with household surveys gathering information about consumer use, impact of the tanks, maintenance, and water quality, undertaken in 2024.

15. Enabling the Tanzanian teams to present their findings - with published papers, at a Tanzanian international water conference as well as a UK online international conference.

16. Supporting a Tanzanian MSc student - to undertake follow-up research (he found the water quality remains good!). This student also, being an officer in the national water ministry, potentially giving ongoing support to the concept in Tanzania.

17. To a very recent workshop - bringing the Franchisee programme leaders together to consolidate and prepare for expansion, one element being to encourage and support local masons to build up ongoing businesses.

18. Providing financial assistance - starter funding from CED (on request) to manufacture the necessary steel framework moulds so they are available for private hire by builders.

19. Supporting masons to build their businesses - and eventually register with the authorities.

20. Supporting a 'next generation' CED member - to join this part of the programme (welcome Joel!) and find new ways to share his experiences .

21. Testing the 'effective demand' (varying subsidy levels) - for locally-built cement tanks relative to ubiquitous (in higher-income areas) black plastic tanks. Finding that demand is more limited than we might assume, irrespective of the undoubted benefits*.

We have indeed been 'Seeding Development'. We recognise that seeding takes irrigation and fertilizer and weeding to enable those seeds to continue to flower and these are Franchiser responsibilities that continue.

Richard Franceys with Ian Rankin

**Please let us not misjudge the demand for improved water supply in Tanzania, a country with a present GDP per person of $4,600. In England and Wales in 1939, at a then GDP per person level of $14,800 per person (2025 prices), almost half (44%) of the rural parishes in England & Wales lacked a piped water supply. Of the parishes that did have piped water, it reached fewer than a third of the people. We were fortunate to have groundwater from household wells generally available.*

Thomas from Kagera Diocese on stage, Dar es Salaam



Project Review

Kuluva Hospital, Uganda:

We're pleased to report that the micro-hydro scheme at Kuluva continues to operate well – even during the dry seasons. We recently discovered that the ultrasonic flow meter is no longer operating, and we suspect that it was damaged during the lightning strike last year – so a replacement flow meter is now required. In addition to that, there are some further improvement works which it would be good to implement, to ensure continued operation in the long term, and these improvements will require some fund-raising in due course.

Inside the power house, Kuluva Hospital hydro scheme



Darran Waters visited Kuluva in April, whilst work was ongoing to refurbish the hospital water supply. His assistance was invaluable, and he was a big encouragement to the team on site. Jonathan Appleby and Joel Viney visited in August, and produced an as-built drawing of the refurbished hospital water supply network. Work on the water supply is now almost complete, with the focus now being on leakage detection – a lot of water is still being lost through old pipework and leaking stopcocks.

New water storage tank, Kuluva Hospital



Kagando Hospital, Uganda:

Over the past year we have continued to work with Friends of Kagando on the design of a Solar PV power supply for Kagando Hospital. David Bookham and Graham Miller's efforts have paid off, and we have an agreed design for the project. The contract has been signed with AIT – a firm of solar installers based in Kampala – and they arrived on site in September to install the equipment. The control building will house inverters and batteries, and CED continue to provide support to Friends of Kagando and the hospital staff on site.

Work on the footings for the control building, Kagando Solar PV



We have also continued to work with the hospital staff on the water supply. The raw water intake was rebuilt to a new design, which is less prone to damage from extreme flooding events. Water is once more available at the hospital, but it is clear that the capacity of the raw water main from the intake is insufficient for the increasing demands of the hospital and

Clariwash water filters, now operational, Kagando hospital



nursing school. Jonathan Appleby and Joel Viney visited in August this year, and re-commissioned the Clariwash filters. These are now operating, although at less than design flows because of the lack of water arriving at the hospital. A third Clariwash filter is needed to meet the demand for treated water, but this will have to wait until the raw water main capacity has been increased.

Kikatsi Valley Tank, Uganda:

This valley tank has now been constructed and

Kikatsi Valley Tank – waiting for the rains to arrive



is substantially complete. We await the arrival of the rains in November to see the full benefits of this project – although even with the limited quantity of water currently being held in the tank, there is still water available at the handpump and the cattle trough. Our thanks to Ian Bell for steering this project through to completion.

Rainwater harvesting, Tanzania:

The Rainwater Harvesting programme continues to bear fruit, with 62 tanks constructed in the past six months. In July Ian Rankin brought together our six "franchisee" dioceses to discuss the programme and review our methodology. Good feedback – have a look on Instagram or Facebook for Joel Viney's posts from the Seminar!

We are keen to slowly transfer responsibility for the tanks further from the franchiser (CED) to the franchisee. Despite their CCMP training, churches remain poor and raising cash in a rural community is difficult. One way forward would be to find ways to integrate tank building into general commercial activity. The programme has moved in small, iterative steps as God has brought new opportunities to us. We plan to expand the programme to new areas of Tanzania and, through Board Member Sam Kayaga, to neighbouring Uganda.

We look forward to the coming year, in anticipation of God's provision and leading, as we seek to serve the poor in His name.

Jonathan Appleby (with Ian Rankin on Tanzania)

Empowering our fundis

We had been struggling for a while to find a way to challenge our community-focused franchisees to explore commercial possibilities for rainwater tanks. Where might we find someone who would genuinely connect and inspire? The programme took a big step forward at the recent workshop when Davies, the Kagera Diocese Development Officer took us through the steps involved. He started with the idea that in the past everyone kept just a few chickens. It was a hobby. It was what everyone did. Nowadays, he continued, chicken farming is a business and people earn a good income from it. Having started building rainwater tanks at community level, might our technicians rise to the challenge of making this into a business? It would not need to happen quickly - perhaps just one or two tanks to begin with - then eventually, with some marketing and support from the "franchiser" (CED), they might find themselves with enough work that the Tanzania Revenue Authority would take an interest in them. This need not be a problem. With a little help they could fill the forms and register formally as a business.

Ian Rankin



Cooking area, Kuluva Hospital, Uganda.

Project Highlights April 25 - March 26

Kenya:

- Provision of borehole for Namasoli Health Centre in Butere Diocese in association with St Mary's Finchley.

Rwanda:

- Provision of pipeline, tap points and rainwater tanks at Gakamba, Rukara and Kavumu.

Tanzania:

- Continued training and development of rainwater harvesting tank programme with Kagera, Biharamulo, Lweru, Geita, Musoma and Shinyanga dioceses.
- Funding support provided for tank construction costs.
- Tap Twinning programme continues to generate financial support.
- Provision of design/engineering support for required repair of dam at Buhuri.
- Architectural oversight for building of 4 classroom block at Pande, Tanga.

Uganda:

- Assistance with repairs to intake for filtration system at Kagando Hospital.
- Continued engineering advice given for hydro schemes at Kuluva.
- Provision of engineering advice as part of infrastructure audit at Kuluva hospital.
- Purchase of land and construction of valley tank at Kikatsi, provision of sanitation and hygiene training.
- Provision of engineering advice for solar scheme at Kagando Hospital.

		B/F £	Income £	Expend £	Transfer £	C/F £
KY05	Namasoli Health Centre		2,000	-4,531	2,531	
RW12	Tanks and Home Improvements	7,293	16,863	-20,390		3,766
TZ20	Tanzania rainwater harvesting programme	4,620	25,806	-32,470	27,692	25,648
TZ22	Buhuri dam repair	62				62
UG00	Uganda general costs			-1,791	1,791	
UG42	Kagando Hospital water treatment scheme		125			125
UG43	Kuluva hydro scheme					
UG44	Kikatsi valley tank	1,000	47,843	-46,320	5,000	7,523
UG45	Kuluva hospital/building infrastructure audit					
UG46	Kagando Hospital Solar scheme	1,897				1,897
	SECMA grant Tanzania rainwater harvesting	21,519			-21,519	
	Member project donations to be allocated	11,000	1,800	-1,886	-4,287	6,627
		47,391	**94,437**	**-107,388**	**11,208**	**45,648**

Financial Summary

The CED financial position continues to be healthy largely as a result of legacies received in 2017 and 2026.

The level of donations from supporters and other individual donors remained at an encouragingly high level with the "Give Thanks" matched funding campaign in Qtr 1, 2026 raising a splendid £25,000 for future projects. The generosity of many individuals, churches and charities who regularly support us is both vital and greatly valued.

Significant donations were received from members and supporters towards the "Tanks and Home Improvement" project in Rwanda and via the "Tap Twinning" programme in support of rainwater harvesting work in Tanzania.

CED were pleased to receive £47,718 from States of Guernsey towards cost of Kikatsi Valley Tank in Uganda.

Other income represents deposit interest received.

Generally the costs of managing the charity are kept low as most activity is undertaken on a voluntary basis.

David Beak, Treasurer

	Unrestr'd Funds £	Design'd Funds £	Restricted Funds £	**Total 2026 £**	Total 2025 £
Income and endowments from :					
Donations and legacies	41,003	9,308	46,719	**97,030**	67,734
Charitable activities	-	-	47,718	**47,718**	500
Other	381	5,058	-	**5,439**	6,052
Total	41,003	14,366	94,437	**150,187**	74,286
Expenditure on:					
Raising funds	930	-	-	**930**	675
Charitable activities	3,656	-	107,388	**111,044**	91,499
Total	4,586	-	107,388	**111,974**	92,174
Net Income / (expenditure)	36,798	14,366	(12,951)	**38,213**	(17,888)
Transfers between funds	(36,454)	25246	11,208	**-**	-
Net movement in funds	344	39,612	(1,743)	**38,213**	(17,888)
Total funds brought forward at 1 April 2025	10,077	80,910	47,391	**138,378**	156,266
Total funds carried forward at 31 March 2026	10,421	120,522	45,648	**176,591**	138,378



Taking off from Dar es Salaam

CED exists to demonstrate the love of Christ by enabling Christians with engineering and allied skills to help the poorest communities overseas.

We invite supporters to become involved through:

- *Praying regularly for CED*
- *Raising the profile of CED*
- *Making donations*
- *Fundraising for specific projects*

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welding a pipe strap, Kuluva hydro scheme.