

ENGINEERS WITHOUT BORDERS DENMARK

2017
ANNUAL REPORT



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CHAIRMAN'S REPORT

Investment and vision towards the future have characterized 2017 in EWB-DK. During the year, new partnerships have been formed, priority has been given to internal training, a new chairmanship has come into place, and we have successfully acquired our first EU partnership project.

With our growing pool of skilled volunteers, we have consolidated our activities within technical humanitarian assistance. Particularly in Sierra Leone, we have demonstrated a strong presence – both in emergency responses providing clean water for communities affected by the flooding and mudslides in Freetown, and in our long-term commitment to secure access to clean water in rural communities.

During the year, we have extended our joint efforts to provide better lives for marginalized families. This includes new business partnerships, both with our Scandinavian sister organizations and with Danish-based international NGO's like SOS Children's Villages, with whom we have launched a joint project on sustainable energy and vocational training in one of their villages in Ethiopia.

At home, we have entered into new partnerships with technical universities and Marine Engineering Schools to attract students. Internally we have focused on two new thematic networks – Building & Construction and Capacity Building. We have also conducted internal training to address the increasing requirements for standards and normative frameworks for international development assistance.

In numbers, we have had an income of 3.9 million DKK compared to 3.1 million in 2016 – a manifestation of the continued support of our mission. More than 8.5 million DKK has been obtained in donor pledges during the year thanks to strategic choices and the hard work of the secretariat. Also worth mentioning is the continuous support we are receiving from funding mechanisms under Civil Society in Development (CISU), from where we received funding for three projects in 2017, corresponding to a total amount of 3.5 million DKK. I take this record level of funding as a recognition of our ability to implement sound small-scale interventions, representing our contribution to the UN Sustainable Development Goals.

Keeping up the pace in activities and maintaining a timely implementation is critical in a volunteer based organization. In 2017, we did not meet our expected goals related to project activities, and we aim to improve our performance in 2018.

On a personal note, 2017 has been a year of getting close to the “engine” of EWB-DK. With a deep respect for the tasks ahead of me and for the enormous efforts and amount of time invested by our volunteers, I have used my first year as chairman to get to know the various working groups, to be able to serve and support our projects and volunteers in the best way possible.

Bent Michael Nielsen,
Chairman EWB-DK

ENGINEERS WITHOUT BORDERS DENMARK

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HOW WE BUILD A BETTER TOMORROW

Engineers Without Borders Denmark is a technical humanitarian NGO established in 2001. Through the donation of time, skills and experience, our volunteers develop international partnerships, create sustainable solutions and improve living conditions in some of the poorest communities in the world. Our actions are guided by the UN Sustainable Development Goals (SDG's), and in addition to technical interventions, the fostering of local partnerships and transfer of knowledge (SDG 17) are at the core of our mission. By the end of 2017, EWB-DK is counting 1250 members, with more than 250 members actively engaging in projects.

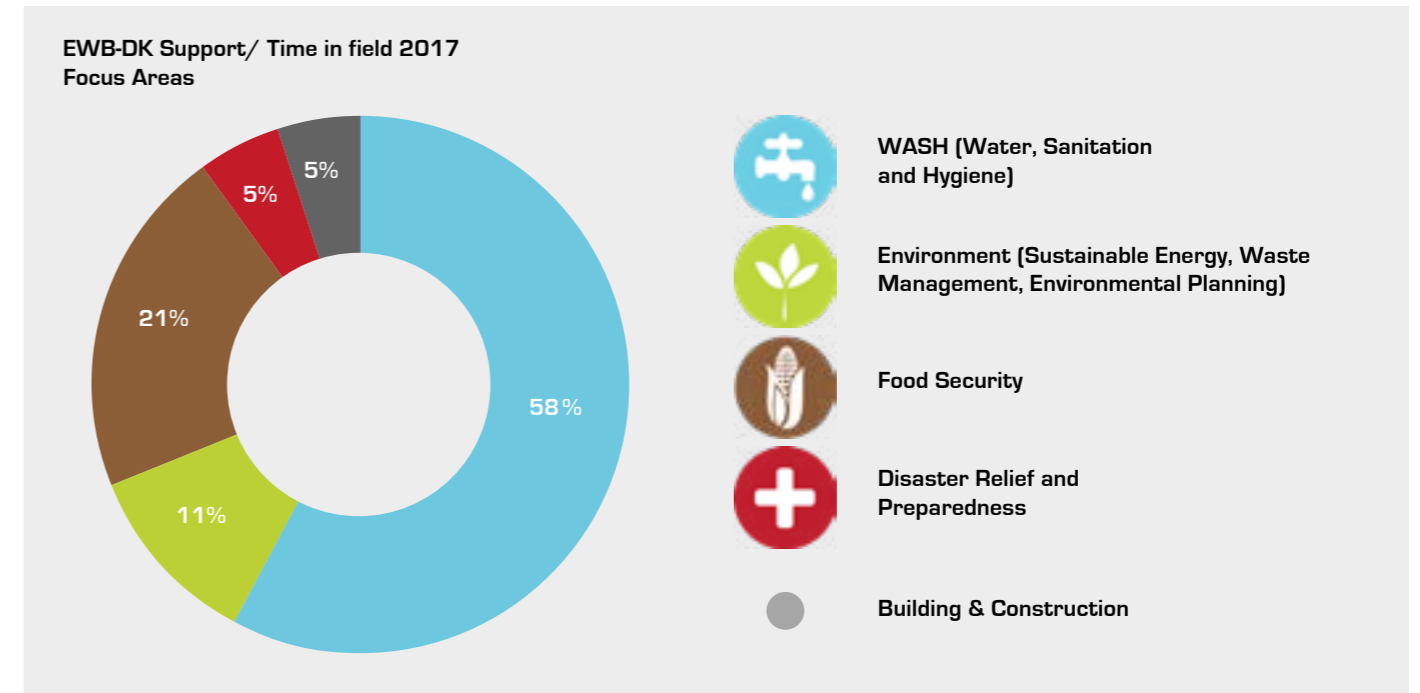
All EWB-DK projects are developed and managed by volunteer project groups – from the initial idea generation or contact to a potential partner, through

fact-finding and signing of a local partnership agreement, to implementation and a final hand-over to the local community. We ensure local anchoring and sustainable solutions by working with local ownership, community involvement and capacity building.

The small group of staff at the EWB-DK secretariat secures a solid platform for our volunteers, and provides support in project formulation, administration, fundraising, internal and external communication and much more. In addition to the activities conducted at the secretariat in Copenhagen, EWB-DK has regional sections in South Denmark (Odense) and Central Denmark (Aarhus).



EWB-DK HAS FOUR STRATEGIC FOCUS AREAS:



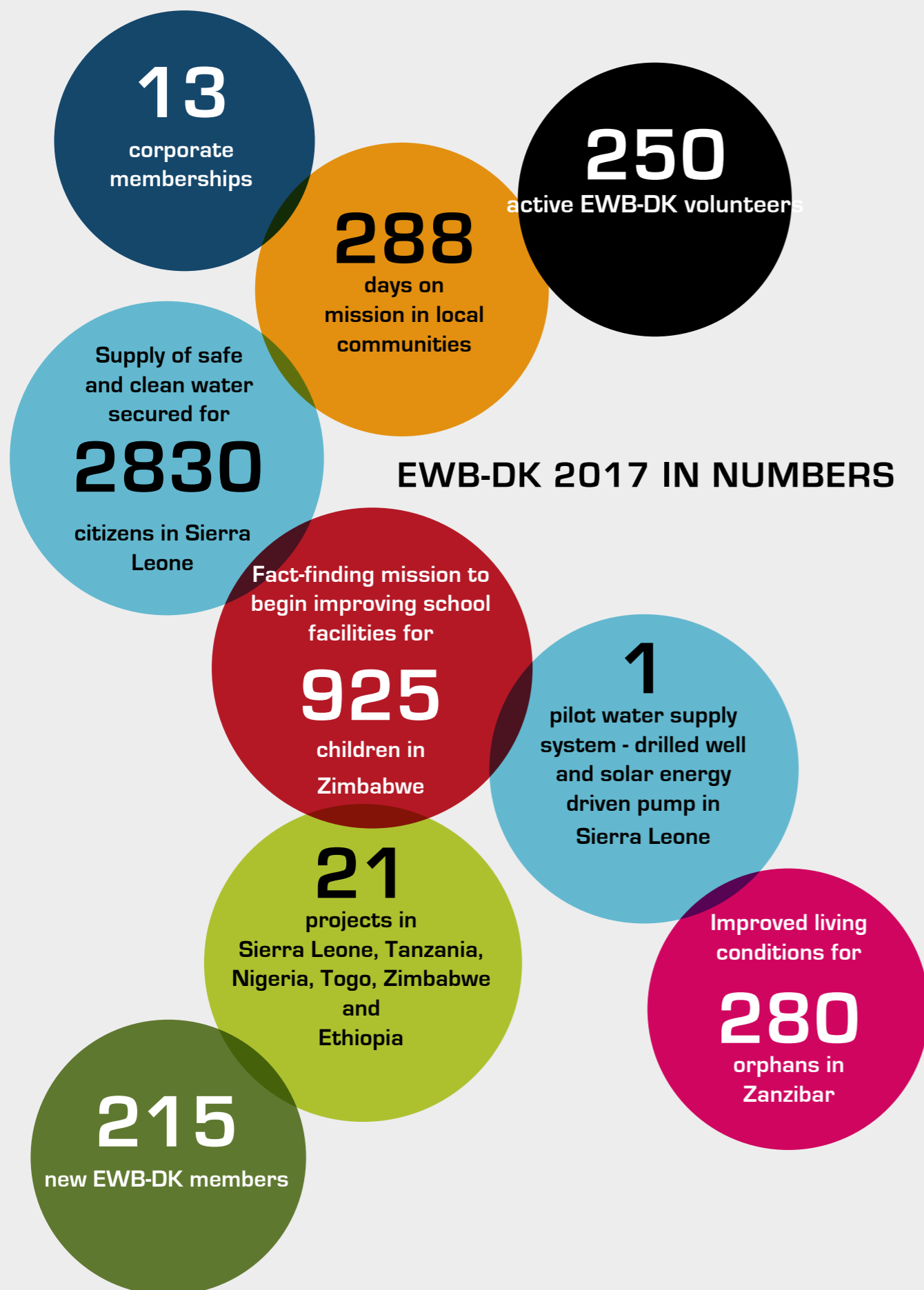
Construction of the new water tower in Pottor, Freetown after the mudslide in August.

THEMATIC NETWORKS

The thematic networks of EWB-DK are the technical foundation of our organization. They provide a space for project idea generation, technical mentoring and quality assurance, for provision of support to the project groups and for knowledge exchange across project groups.

New project groups are fostered within the thematic networks and new members in EWB-DK with a desire to become active in projects are linked to a network according to their specific interests. During 2017, we have established two new thematic networks on "Capacity Building" and "Building and Construction". Visit our website to see the complete list of thematic networks.





WHAT WE DID IN 2017

IT HAS BEEN A BUSY AND EVENTFUL YEAR. HERE ARE SOME OF THE IMPORTANT EVENTS:

JANUARY

- Launch of a wind project group in Aarhus

MARCH

- UN World Water Day celebrated together with Børnefonden

APRIL

- EWB-DK present at the DSE (Students' Business Contact) Fair at DTU Lyngby

MAY

- New chairman Bent Michal Nielsen elected at the annual general assembly. After many years of dedicated service to EWB-DK, Steen Frederiksen handed over the chairmanship.

JUNE

- EWB-DK present at the Grøn KBH sustainability fair
- Partner visit (EWB-SL) from Sierra Leone
- New thematic networks on "Building and Construction" and "Capacity Building"

AUGUST

- Sharing of experience and networking at the EWB-International Global Forum in London

SEPTEMBER

- Launch of relief efforts in response to an emergency in Sierra Leone, financially supported by the Danish

Emergency and Relief Fund and Fonden af 24. December 2008

OCTOBER

- Gratefully received continued support from the Ramboll Foundation to secure access to clean water in rural Sierra Leone
- Launch of a capacity building network in Denmark regarding Core Humanitarian Standard
- Culture Night in Copenhagen, where EWB-DK volunteers displayed projects on tea-drying in Zimbabwe and solar power in Sierra Leone

NOVEMBER

- UN World Toilet Day celebrated with BIOFOS
- EWB-DK present at the Marine Engineer Business Conference Ajour in Odense

DECEMBER

- Tyréns as new corporate member
- Gratefully received notice of donations to our WASH interventions in Sierra Leone from CISU, Novo Nordisk Foundation and Asta og Jul. P. Justesens Foundation
- EU funded initiative to facilitate and finance volunteers in field on technical humanitarian interventions. See more on page 24.



In recognition of service to the organization, EWB-DK has named Steen Frederiksen (right) the second honorary member of EWB-DK.

During the year, we have held 10 information evenings visited by 250 interested people, and we welcomed 215 new members to our organization.



Students at the Innovation Pilot course at DTU worked with a EWB-DK WASH case

COLLABORATION WITH UNIVERSITIES

Students have traditionally been a core member group in EWB-DK, to the extent that EWB-DK's mission in 2015 was reformulated so as to clearly identify a mission to share knowledge and experience, not only between the developing world and us, but also between generations.

During 2017, the focus on educational institutions such as universities, marine engineering schools and university colleges has been formalised and strengthened.

In autumn 2017, we participated in the course Innovation Pilot at DTU and we have now signed an official agreement to continue with our participation in the coming years. Supported by Danida funds, we will in 2018 develop and distribute adequate materials to the students.

Besides DTU we will visit the technical universities in South Denmark and Aarhus along with marine engineering schools in Fredericia and Aarhus.

It is important to highlight, that the focus on students is also explored in relation to universities and local vocational training schools in the areas we and our local partners work.

Examples are transfer of knowledge via training in solar energy sources in Ethiopia for youth, or technology related to water supply systems at a small polytechnic institute in Sierra Leone. These are important measures in order to secure local ownership and capability to maintain the systems we implement and donate to the local communities.

"For most of the students, working with the EWB-DK case was eye opening. Working intensively with the innovation tools and processes, they learned how complex problem solving can be in a foreign country with a culture, infrastructure and climate very different from Denmark. I'm looking forward to working together with EWB-DK again."

- Lisbeth Lindbo Larsen, Associate Professor and Coordinator of Innovation Pilot at DTU

CORPORATE PARTNERSHIPS

An increasing number of Danish companies support EWB-DK's activities through a corporate membership. Giving back to society and assisting communities in need and poverty on a non-profit basis are values strongly motivating many of EWB-DK's corporate members. These memberships also consolidate the link created by the SDGs between the corporate sphere and NGOs.

Learn how to become a corporate member on www.iug.dk.



Jan Holsøe, CEO

"It just made sense for us to support EWB-DK. We have great knowledge of the organization, and several of our employees have participated in EWB-DK development projects. It also fits well with our founding mission about developing engineering knowledge within the building industry – thus giving us the opportunity to use our expertise to create valuable and sound solutions for people in the world's developing countries."

Tyréns has an extended corporate membership.



Anne Vibeke Madsen, HR Consultant

"We are proud of making a difference through the Opportunity Training Center (OTC) in Kenema, Sierra Leone, which is helping disabled persons in their local environment through education. Creating opportunities for people in need is an important part of our social responsibility. Lodam entered a partnership with EWB-DK in 2015, and are supporting all the good work that has been put into creating a better and more sustainable future for those who truly need it."

Lodam supports EWB-DK with a 3 year sponsorship with an fixed annual amount donated according to the number of employees in the company.



Samuel Safai, HVAC Engineer at NNE

"I want to make a difference in the fight against poverty and contribute to "building a better tomorrow" for people affected by disasters and poverty. I believe that the world's poor have and can obtain the technical competences to play a crucial role in the rebuilding and development of their respective communities."

NNE sponsorship of staff in order to form part of EWB-DK project mission.



Ellen Holbek, Project Manager at SWECO and part of the project group on Zimbabwe school renovations

"Personally, I think there has been such great response in Sweco, because EWB-DK is an organization that the employees at Sweco Denmark can really identify with. We take pride in showing that we are engaged in EWB-DK, and that the core competences of our work can be used for creating a better life for people in less fortunate positions in developing countries."

SWECO team is sponsoring and working on the school project in Zimbabwe.





WASH

WATER, SANITATION AND HYGIENE

Access to water, sanitation and hygiene (WASH) is a basic human right, and EWB-DK sees it as the foundation for all development. During the last ten years, Africa has become the main operation area of our WASH interventions, with Sierra Leone as the primary target country.

The projects aim to provide safe and reliable water supply for rural domestic use, provided from hand-dug wells or drilled wells powered by solar energy. In addition to water infrastructure, project activities include establishment of adequate sanitation facilities, securing irrigation for farmers, training in maintenance of the water supply systems and community training in hygiene and sanitation practices.

EWB-DK sees local ownership and community engagement as crucial aspects for sustainability and in addition to long-term monitoring and technical follow-ups, all WASH projects include local organizational capacity building and community empowerment. This way, the projects not only provide sustainable technical solutions

and immediate health improvements, the local population also becomes engaged in a more long-term empowerment process, and gains experience in joint community efforts for improving their livelihoods.

In 2017, our focus has been the extension of our rural WASH activities in Sierra Leone, on emergency efforts to restore access to safe water in Freetown after mudslides and flooding, revitalization of our WASH thematic network under new coordination, and exploration of potential new partnerships.



TANZANIA: RENOVATION OF SOS CHILDREN'S VILLAGE IN ZANZIBAR



After many years of service, the buildings of the SOS Children's Village in Zanzibar were in desperate need of renovation in order to accommodate the needs of the 80 children living in the village.

Since 2015, EWB-DK has been involved in renovating the whole village: roof repairs, piping, and renovation of the electricity, water and wastewater systems. Staff from Siemens Denmark, Solar DK and EWB-DK have installed a solar power system, which provides cheap and sustainable electricity.

In 2017, our work has mainly consisted of supervising the final reconstruction efforts, and monitoring the solar system previously installed in the village. We also detected further renovation needs regarding the drainage/rain-water system. Thanks to financial support from the Ramboll Foundation, this will be the main task for the EWB-DK and SOS Children's Villages partnership in 2018. Jointly we will seek to create a safer environment for the children and to lower the risk of flooding of the whole area, and thus reduce the risk of the children contracting waterborne diseases during the rain season.

Partner: SOS Children's Villages Zanzibar
Donors: Siemens Denmark, Nordic Solar, Ramboll Foundation



WHY I VOLUNTEER

In October 2017, Pernille Storm Sletbjerg and Bo Neergaard Jacobsen became joint coordinators of the EWB-DK WASH thematic network.

Pernille: "I was drawn to EWB-DK because of the practical aspect, and the social and cultural angle that exists in an EWB-DK project. One thing is to implement engineering solutions when the newest technology is available. A different task is to find a sustainable and effective solution while being in a less resourceful place, yet where you know the work will change lives. I find EWB-DK's work inspiring, and I love that capacity building of the local community is a very integrated part of every project in order to sustain it."

Bo: "My interest for EWB-DK began at the IWA-DK [International Water Association] General Assembly about 15 years ago, during a presentation given by a young, enthusiastic EWB-DK member who had just



returned from a successful mission. After being a passive member for over a decade, my retirement from the European Environment Agency in 2015 enabled me to allocate more time to EWB-DK activities. My entire 40-year career has been in the field of water [mostly sanitation/wastewater treatment], so the WASH thematic network was a logical choice."



ENVIRONMENT

SUSTAINABLE ENERGY, WASTE MANAGEMENT AND ENVIRONMENTAL PLANNING

Supporting vulnerable and exposed communities in coping with climate changes and scarce natural resources through adapted sustainable technology is a powerful step towards eradicating poverty and ensuring sustainable and prosperous local communities. EWB-DK assists local and mainly rural communities in more sustainable use of natural resources, and in minimizing negative environmental impact from rural development.

We improve the livelihood of the poor through relevant, locally adapted and sustainable approaches. The goal of our interventions and projects is to

facilitate help to self-help, hence making local communities able to address their basic needs, and become active agents in their own development and problem solving. Combining income generation with sustainable local development initiatives produces strong incentives for local participation and ownership, and improves the health and general living conditions of the local population. In 2017, our focus within this strategic area has been on developing and formulating local waste management initiatives, and on provision of solar energy to rural health clinics.



SIERRA LEONE: COMMUNITY WATER SUPPLY SYSTEM

To meet the demand for water in medium size communities in rural Sierra Leone, EWB-DK has embraced a “second generation” approach/technology for water supply systems (first generation being the traditional hand pump). This system consists of a 90-meter-deep bore well as water source, a solar powered SQFlex Grundfos pump that pumps to two elevated water tanks that, by gravity, distribute water to a number of strategic posts where the water can be collected. In 2017, the citizens of Gandorhun (approx. 2000) in Sierra Leone received such a system.

This more advanced system can provide a minimum of 20 liters per person per day all year, because it extracts from deeper groundwater. It is a more secure water supply system, since it does not run dry and contamination is rare. In order to secure the sustainability of the system, the community itself has invested a small sum in the implementation as well, and a monthly fee is collected from the community households to cover the operation and maintenance of the system.

A second system has been financed by the Ramboll Foundation, and will be established in a new rural community in need in 2018. In addition, this project includes theoretical and practical training for the students of the local university Eastern Polytechnic, who will follow the construction of the water supply system.

Furthermore, EWB-DK and partner EWB-SL have in 2017 provided three villages (Talia, Komende and Nyandeyama) – each with 1000 to 2700 citizens - with additional hand dug wells, as the one they each had insufficiently covered the need for water. The villages now each have two functioning wells and the demand for clean water is met.

Partner: Engineers without Borders Sierra Leone

Donors: Ramboll Foundation, Asta and Jul. P. Justesens Foundation



TOGO: SOLID WASTE MANAGEMENT IN KÉTAO



The city of Kéao in the small West African country Togo is drowning in waste. In addition to the 20.000 inhabitants, the city weekly hosts a regional market visited by up to 50.000 people. This produces a lot of waste that needs to be taken care of in a sustainable way. Traditionally, banana leaves were used for packaging, but now plastic is used. This has resulted in large amounts of plastic bags etc. in the streets and on the fields surrounding the city. It is estimated that 2.646 tons of waste are generated every year - 858 tons are organic waste and 1.260 tons are sand. The sand comes from the household waste collection, where the courtyard is swept and the sand collected with the waste. Currently, the city does not have any policy/plan for waste, so it is often dumped uncontrollably in surrounding fields.

With this project, EWB-DK will engage the community and jointly make a waste management plan for the city. The goal is to make Kéao a pilot city regarding waste management in Togo. In 2017, we have focused on project planning with the local partner and in 2018 we will begin the implementation. The project activities include community involvement, campaigns, school outreach and the construction of a safe and controlled dumpsite outside the urban area.

Partner: ADSA - Association de Développement Social et Agricole / Social and agricultural development association

Donors: CISU, Spejernes Genbrug

WHY I VOLUNTEER

“Working with EWB-DK gives me the opportunity to use my knowledge to help other people with problems influencing their everyday life. I am part of EWB-DK because I wish to help people towards a life with more opportunities, without problems like pollution, sanitation and lack of access to clean drinking water.”



- Anne Tipsmark Ottosen, M. Sc., Environmental Engineering at Rambøll A/S



SIERRA LEONE: TECHNICAL SUPPORT TO TRAINING CENTRE FOR POLIO SURVIVORS

Since 1994, the Opportunity Training Centre (OTC) for polio survivors in Kenema has trained young people with physical disabilities in order to provide them with vocational skills. In a 4-year period, the students learn how to read, write and calculate. They also receive training in vocational areas such as metal workshop, tailoring, hairdressing and mechanical repair. The training increases the students' possibility of a livelihood and economic income in spite of their very weak social position. Currently, the centre is run by 15 staff members – mostly volunteers, and has 60 students with various physical disabilities. OTC does not receive public funding, they rely only on the income of the services and products that they sell. Half of the income of a student's production goes to OTC the other half goes to the student.

During 2017, EWB-DK has conducted an initial fact-finding to Kenema in order to identify the needs and to, together with management and users of the OTC, develop a plan to strengthen the centre's offer to the young disabled students. The objective is to support their right to a decent life and economic livelihood

regardless of their disability. Specifically, EWB-DK will seek to strengthen the technical capacities for training, and address the poor standard of the buildings to secure improved and adapted sanitation facilities and clean water, though the first priority is access to cheap and stable solar energy. With assistance from Copenhagen's regional centre for recycling of hospital apparatus, a container was shipped in December 2017, with equipment for physical vocational training. Private donors also contributed to training materials for the centre.

Partner: Polio Survivors Association Kenema
Donors: Lodam, Velux, equipment donated by Tagarno A/S, SDE College - Syddansk Erhvervsskole Odense, Depotgården Fredericia and private citizens of Fredericia and others.





SIERRA LEONE: PROVISION OF SOLAR ENERGY FOR RURAL HEALTH CLINICS

In the rural areas of Sierra Leone, access to electricity is practically non-existent. However, public health can be improved significantly if rural clinics are provided with electricity. Therefore EWB-DK will establish a PV system and solar panels at four health clinics, serving 10.100 people in total, and will provide power for lighting, basic medical equipment and a refrigerator for medicine and vaccines.

Infant mortality in Sierra Leone is as high as 94 out of 1.000 live births, and there is a need to lower the rate. Combined, three of the clinics in this project have more than 500 childbirths a year. With electricity in the clinics, giving birth becomes much safer, and it is estimated that the infant mortality rate will decrease. The systems will be installed in spring 2018.

Partner: Engineers without Borders Sierra Leone
Donors: The Novo Nordisk Foundation



NIGERIA: CHILDREN'S HOME IN OPERATION

Early in 2017, 53 children and 15 employees moved into the newly constructed children's home "Land of Hope" in Nigeria. The children living at the home are accused of witchcraft and are in desperate need for a safe place to live. Through the Danish organization DINNoedhjaelp, the children are offered a safe haven. EWB-DK has during 2016/2017 assisted DINNoedhjaelp with the construction design for part of the new children's home, and has supported with the development of tender offer materials.

EWB-DK has also funded, delivered and installed a PV system and solar panels and battery backup to provide sustainable energy and water heating for the children's home. The project will be completed in 2018 and remaining tasks include new LED light sources and solar powered outdoor lighting.

Partner: DINNoedhjaelp
Donors: Foundation of 24th December 2008, Employees Foundation at Novo Group A/S, D/S Orients Foundation



ETHIOPIA: SOLAR ENERGY IN SOS CHILDREN'S VILLAGE IN HAWASSA

A 24 years old standby generator that can break down at any time supplies the SOS Children's Village in Hawassa with power when the national electricity grid is out. The frequent power outages makes energy costs very high and also makes it difficult to use IT and for the 150 children of the village to study in the evening and to secure the compound, when the sun has set. EWB-DK will provide a solar panel energy system in the village. Combined with lamps and rechargeable batteries, the houses can have light at night-time and the cost will go down.

After a fact-finding mission in January 2017, the project plan was formulated and includes future

training sessions on solar panel energy systems at a local vocational training centre for youth. As youth from the SOS Children's Village obtain an education at the vocational training centre, training in green technology is an obvious transfer of knowledge for EWB-DK to provide. Training and installation of the energy system is scheduled to early 2018.

Partner: SOS Children's Villages Hawassa
Donor and part of the project team: Solar DK



FOOD SECURITY

Even though the number is declining, approx. 800 million people worldwide still suffer from hunger or malnutrition today. Inherent in EWB-DK's focus on food security is the aim to provide a foundation for income generation, improved access to nutritious food and to secure higher quality of food for poor and vulnerable families living with food shortages. In our projects, food security is addressed through a holistic approach targeting both production and post-harvest handling, but also access to markets.

Together with the rural communities EWB-DK develops innovative solutions to secure access to

irrigation, production systems, post-harvest storage/cooling, diversification of production and adapted and locally relevant mechanizations of production. In 2017, we focused our efforts on cash crop production by rural poor families living with a handicap in Sierra Leone who are short on land for farming and on development of new partnerships in Zimbabwe with tea farmers. Additionally, the first stepping-stones were laid for a project partnership between Danish agro-mechanical companies, Danish agro-educational institutions and a rural district in Ghana, to explore the possibilities of mechanization of agro-production.



SIERRA LEONE: PRODUCTIVE HOMESTEAD



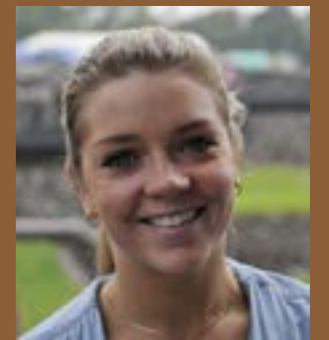
During 2017, we implemented food security activities in the three amputee townships Norway, Elise and Turid Town. The activities include poultry, goats, growing walls, backyard gardening and fruit trees, enabling the community households to sell eggs, grow crops and harvest cassava and nuts. The fruit trees are growing, the crop production is developing and expanding, and the livestock is doing well. The beehives for honey production have been active in different degrees among the townships, an external consultant will assist in ensuring colonisation of the beehives. Through selling eggs and crops, the households have created an income generation, and by engaging in the project the communities have become more active in their own development.

Partner: Engineers Without Borders Sierra Leone
Donors: Erik Thune's Foundation, Ramboll Foundation and Foundation of 24th December 2008



WHY I VOLUNTEER

"I have always had a desire to help people, an interest for the mathematical sciences and a passion for travelling. In that way, Engineers without Borders is perfect for me. I am a part of the project group for the White Tea project in Zimbabwe, where I work with the equipment for tea drying. I find it very exciting - it is a new way to apply my knowledge and learn about other cultures as well as development projects. I am happy I can help other people build a better tomorrow."



- Vanja Wylie, Project Manager at PJ Diesel Engineering

ZIMBABWE: WHITE TEA SOLAR DRYING PROJECT

Traditionally, the tea farmers in Honde Valley, Zimbabwe, deliver all their harvest to the Eastern Highlands Plantation, which produces traditional black tea from the leaves. The global price for black tea has been very low in recent years, severely affecting the livelihoods of the tea farmers. With an association of 1056 tea farmers in Honde Valley, EWB-DK will seek to assist with development of simple and low-cost equipment to support the introduction of white tea production methods. With a market price 10 times higher for white tea than black tea, there is a real and significant possibility of a higher economic income for the tea farmers and their families.

Production of white tea depends on a slow drying process at a temperature of 40 to 50 degrees Celsius. A prototype of a solar powered drying facility developed in cooperation with KEA Copenhagen School of Design and Technology will seek to ensure the right drying process, so the farmers achieve a quality product. In order to secure the value chain

of marketing, a strategic alliance has been fostered with TE & KAFFE Specialisten in Denmark, who will help with the quality control in the development process and has guaranteed to sell the final product if sufficient quality is secured. In 2018, the project will begin in-field testing of equipment and training of farmers.

Partners: The Honde Valley Tea Growers Association, KEA Copenhagen School of Design and Technology, TE & KAFFE Specialisten
Donor: To be determined



DISASTER RELIEF AND PREPAREDNESS

EWB-DK's efforts on Disaster Relief and Preparedness mainly lie within assisting other and larger relief and emergency organizations, in the second and third phases of disaster relief efforts. Technically skilled EWB-DK members are seconded to larger partner organizations, who are often lead in a particular field of assistance in the affected area.

Assistance is provided in securing rapid access to safe water points for affected populations, erecting sanitation facilities, shelters, in sustainable waste management and debris clearance and recycling. EWB-DK contributes to ensure the most basic human needs in the aftermath of a disaster. In its interventions, EWB-DK is guided by the Core Humanitarian Standard (CHS).



NEW FOCUS ON CORE HUMANITARIAN STANDARD

In 2017 EWB-DK has been the leading organization initiating a capacity-building initiative amongst three Danish NGO's on incorporating CHS in their interventions.

The Core Humanitarian Standard on Quality and Accountability (CHS) sets out nine commitments that organizations involved in humanitarian interventions can use to improve the quality and efficiency of the assistance they provide.

Learn more about CHS on corehumanitarianstandard.org



SIERRA LEONE: EMERGENCY WASH IN FREETOWN

During the flooding in Sierra Leone in August 2017, many thousands of lives were lost and many poor families lost everything. One of the severe and long-term consequences of the flooding and mudslides was that many of the local water systems (wells and natural catchments) were destroyed or contaminated. Many simple and poor-conditioned latrines were also flooded, causing a high risk of cholera and typhus in the affected communities. EWB-DK along with partner EWB-SL have joint the local cluster on the WASH disaster management and are now, in close coordination with the local actors, community and government officials, embarked on securing 4 new water points in the affected areas. The solution is based on flood-proof new community toilets, deep drillings for water and rehabilitation of natural catchments. As a result of the local vulnerability to

the effects of climate change in Sierra Leone, EWB-DK is investigating how to best secure and build up community resilience in the affected areas in order to enhance community based emergency preparedness via preventive actions/planning.

Partner: Engineers Without Borders Sierra Leone
Donors: Foundation of 24. December 2008, Danish Emergency Relief Fund, Novo Nordisk Foundation and Asta and Jul. P. Justesens Foundation





OTHER PROJECTS



ZIMBABWE: RENOVATION OF LUPANE PRIMARY SCHOOLS AND LAPDESK FOR IMPROVED LEARNING



The project includes renovation of school buildings and the development of a LapDesk – a transportable desk children can place on their laps – to solve some of the need for furniture both at school and at home. The desk also includes a reading light, so the children can study after sunset. Important parameters for the LapDesk are sustainable materials and a future possibility for local production. In 2017, surveys for needs and costs regarding renovation of the four school buildings were conducted, and plans for the renovation project have been finalised. Future project activities may include improving the infrastructure of the schools in terms of water supply, sanitation, kitchen facilities or establishing solar panel systems.

Partners: Care4People, Christian Youth Volunteers Association Trust
Donor: Employees at SWECO

Classrooms in Zimbabwe are either inside worn-down or outside. School children typically sit on the floor during class, as many rural schools lack basic furniture. At home, the children cannot study after sunset because there is no desk, nor electricity. EWB-DK seeks to improve the conditions of four primary schools in the Lupane district in Zimbabwe, with a total enrolment of 925 children.



FACT FINDING - SIERRA LEONE: CONSTRUCTION OF RURAL HEALTH POST FOR A COMMUNITY OF FAMILIES LIVING WITH DISABILITY

In Turid and Elise Town, 50 of the parents in the communities (300 residents) live with a disability due to polio or

as civil war amputees. They have to travel a long way to get to the nearest health clinic, which additionally is not free.

families/persons living with disability.

Partner: Engineers Without Borders Sierra Leone
Donor for fact-finding: Novo Nordic Engineering

On a fact-finding mission in autumn 2017, EWB-DK looked into the possibility of constructing a new community health outreach-post in Turid town, so the families in both communities can receive basic diagnostic services close to their home village from staff from a regional health centre, and be referred to a district level hospital in severe and necessary situations.

The fact-finding mission was sponsored by Novo Nordisk Engineering. An NNE employee and EWB-DK volunteer visited the area and met with the local chief, and inspected the site selected for the new health post. A solar panel and PV system will be used as power source. The health post has been requested by the district health unit, and will be a replica of the outreach post successfully constructed in the community of Norway – also a community of



EU AID VOLUNTEERS INITIATIVE - BRINGING TECHNICAL KNOWLEDGE TO THE FIELD

Late 2017 EWB-DK and partners joined the EU Aid Volunteers initiative (EUAVI).

EUAVI aims to strengthen capacity and resilience of vulnerable partner communities through placement of volunteers to build up local technical and organizational capacity within local organizations. The initiative facilitates the opportunity for organizations to benefit from deployment of citizens with a diversity of skills and professional experience, to get involved as volunteers in technical humanitarian aid projects including through deployment with third country organizations.

During 2018/19 EWB-DK and partners (in Nepal, Tanzania, Sierra Leone, Norway, Sweden and

Denmark) will implement an EU funded project in order to build organizational capacity with partners to host many future volunteers.

The overall objective of the Engineers Without Borders Humanitarian Capacity Building project (EWBCV) is, within the framework of the EU Aid Volunteer initiative (EUAVI), to contribute to sustainable development in communities improving livelihoods through creation of resilient communities and emergency assistance via voluntary based technical humanitarian assistance. It contains a unique opportunity for EWB-DK and partners to place volunteers with technical knowledge in field and at the service for the communities we work with.



INTERNSHIP AND SENIOR PROGRAMMES



During 2017, our partner EWB-SL hosted two long-term internships as well as one short-term. 2017's first long-term placed intern was Astrid Høegh Jensen, who developed a GIS platform for all joint EWB-DK and EWB-SL projects in the Kenema district. A second intern position was filled by Peter Kasozi, also with EWB-SL. Peter supported the construction of a drilled well/solar power driven water system in the community of Gandorhun, Kenema district. Rune Holse and Christopher Ian Vedelsby completed a short-term internship with EWB-SL, and jointly conducted a feasibility study on solar cooling for rural small hold farmers. EWB-DK is grateful for the support the internship program has obtained during the years, from among others A.P. Møllerske Støttefond and the former Alectia Foundation (now NIRAS).

2017 has been a busy year for the EWB-DK senior program. Several information meetings have been held specifically for seniors, at Sweco Denmark and two Senior Clubs (East and West) of the Danish Marine Engineers Association (Maskinmestrenes Forening). Additionally, five senior members have obtained support for their missions from the Velux Foundation Active Senior Program. The senior program has also been active within other areas, and has participated at conferences and held events for marine engineering students.

THANK YOU TO OUR DONORS! DONOR PLEDGES 2017

250.000 DKK AND ABOVE

Asta og Jul. P. Justesens Fond
The Civil Society Fund
Danish Emergency Relief Fund
EU Aid Volunteers Initiative
Novo Nordisk Foundation
Ramboll Foundation
Ministry of Foreign Affairs of Denmark (Oplysningspulje)

50.000-250.000 DKK

The Agency for Culture and Palaces
Fonden af 24. december 2008
Global Focus
Lodam
Marie og M.B. Richters Fond
Sweco Denmark A/S employees
Torben og Alice Frimodts Fond
The Velux Foundations

5.000-50.000 DKK

Det Arnstedske Familiefond
Burmeister & Wain Scandinavian Contractor A/S
Civilingeniør H.C. Bechgaard og hustru
Ella Mary Bechgaards Fond
Dansk Firmamassage
Fonden af 17-12-1981
Frantz Hoffmanns Mindelegat
Google UK
GreenSpeak
Henry Donsruds Fond
Lund Fonden
Recycling for Development
Rørkærfonden

Additionally, we would like to extend our sincere gratitude and appreciation to all private persons for their donations.



CORPORATE MEMBERS 2017

Extended corporate members
20,000 DKK / year

Lodam Electronics A/S
Process Engineering A/S
SWECO Denmark
Tyréns A/S

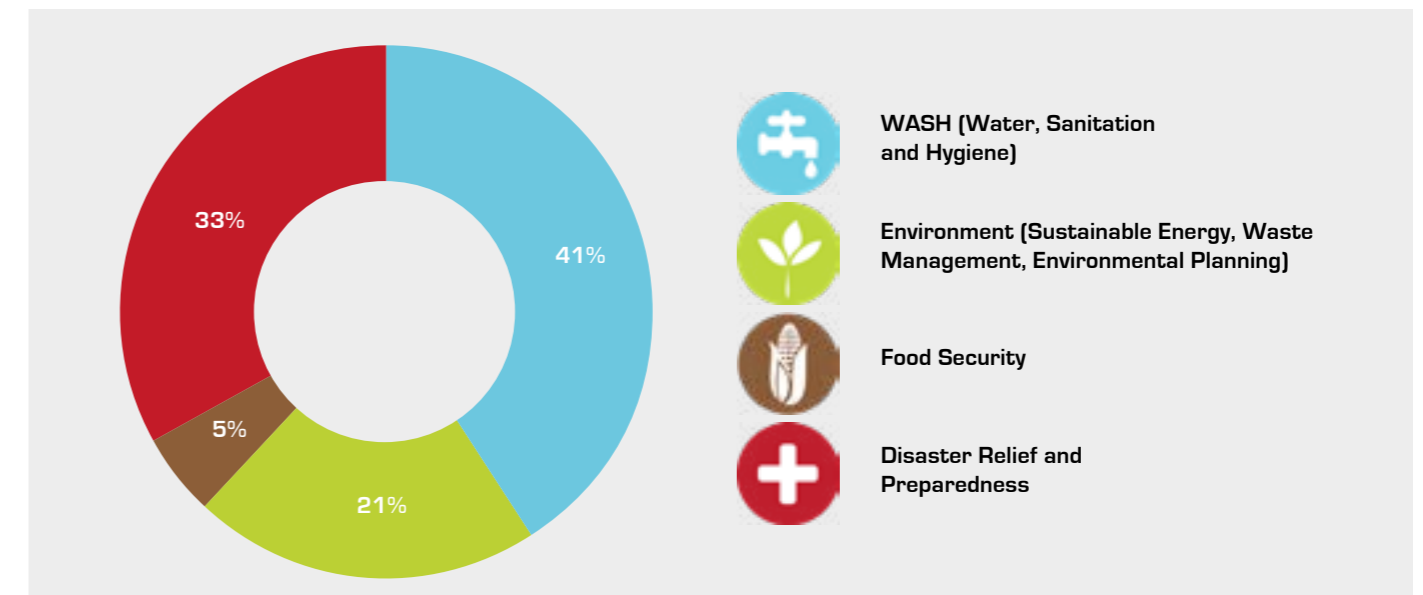
Basic corporate members
10,000 DKK / year

Arkil Holding A/S
COWI A/S
Dansk Firma Massage
Haldor Topsøe A/S
Ingeniørhøjskolen Aarhus Universitet
Kuben Management A/S
NIRAS A/S
Ramboll Denmark
Siemens A/S

ANNUAL ACCOUNTS

OPERATING STATEMENT January 1 - December 31	2017 (DKK 1,000)	2016 (DKK 1,000)
REVENUES:		
Tied Revenues	2,968	2,409
Other Revenues	940	904
Total Revenues	3,908	3,313
EXPENSES:		
Project Expenses	1,726	2,133
Other Expenses	952	1,160
Total Expenses	2,678	3,293
Result Before Financial Revenues	44	20
Financial revenues	-36	6
ANNUAL RESULT	8	26

PROJECT INVESTMENT DKK FOCUS AREAS



BALANCE SHEET December 31	2017 (DKK 1,000)	2016 (DKK 1,000)
Assets		
Fixed Assets	19	18
Current Assets	4,017	3,307
Total Assets	4,037	3,325
Liabilities		
Equity	634	626
Tied Reserves For Projects	3,098	2,040
Account with the Danish Society of Engineers, IDA	96	343
Other Debt	208	316
Total Liabilities	4,036	3,325



BUILDING A BETTER
TOMORROW

ENGINEERS WITHOUT BORDERS DENMARK

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