

# ENGINEERS WITHOUT BORDERS DENMARK

# 2018

ANNUAL REPORT



Contributing to



## INDEX

Chairman's Report	3
How We Build a Better Tomorrow	4
What We Did in 2018	6
Collaboration with Universities and Schools	8
Corporate Partnerships	9
WASH - Water, Sanitation and Hygiene	10
Environment	13
Food Security	18
Disaster Relief and Preparedness	19
Other Projects	20
EU Aid Volunteers Initiative	22
Internship in EWB-DK	24
EWB-DK's Contribution to the SDG's	25
Thank You to Our Donors	26
Financial Accounts	27

## THE BOARD



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## CHAIRMAN'S REPORT

The fostering of local partnerships and transfer of knowledge are at the core of our mission.



When looking back at 2018, several achievements stand out. Our activity level was at an all time high. EWB-DK supported our local partners with 631 days of technical missions providing support, training and monitoring, thereby jointly consolidating ongoing projects and fostering new ones. Our increased income of 5.3 million DKK compared to 3.9 million in 2017 underlines the continued support of our mission.

An innovative highlight was the introduction of live data transmission from our solar driven water supply systems in Sierra Leone via GSM, and in remote areas via satellite. We see this not only as a means of providing technical support, but also as an important tool to keep the local public sector accountable to the population in securing a continued and ongoing provision of safe and clean water, thereby promoting transparency in local water sector governance. Moreover, EWB-DK and partners are obtaining valuable knowledge of local needs, behavioural patterns and challenges in the water supply systems.

2018 has also seen the birth of new partnerships. In particular the EU funded project on securing an institutional platform for our deployment of volunteers, under the EU Aid Volunteer Programme, is a strategically important activity. The project has strengthened the collaboration between the Nordic EWB's and we expect the initiative to facilitate that EWB-DK can deploy our volunteers in a larger scale and for longer terms.

As our mission extends not only to the transfer of knowledge to the developing world, but also between generations, engagement with educational institutions and students is of great importance to us. In 2018, we launched new engagements with Danish technical educational institutions through a Danida financed initiative. We visited several universities and marine engineers' schools in order to raise awareness amongst the students about the importance and relevance of their profession in relation to

international humanitarian actions. Students at Copenhagen School of Design and Technology (KEA) have produced innovative designs with the offset in our projects. Furthermore, EWB-DK in collaboration with Young Scientists instituted an award for student science projects on technical innovation in the humanitarian field. The Engineering Challenge has come about thanks to the generous support of Engineering in School, Villumfonden, A. P. Møller Fonden, Lundbeckfonden and Industriens Fond.

The board and management of EWB-DK feels deeply obligated to provide well-functioning structures as well as relevant and timely support for all of our volunteers. Our increased activity level has revealed the need for better assistance to ensure a positive volunteering experience and this will have high priority in 2019. The range and scope of our activities has undergone a thorough analysis, and the board has decided that throughout 2019 we will limit new initiatives to our program level countries Sierra Leone and Zimbabwe. Finally, the high activity level in the field seen in the light of the uncertainty of the world today has moved the board to review the duty of care towards our volunteers as well as the beneficiaries of our interventions. Hence, in 2018, we initiated the formulation of a new security structure and we secured funding to continue work on the institutional appropriation of the Core Humanitarian Standards. In 2019, we will revisit our 2015-2020 strategy to reflect upon our strategic focus for the next 5-year period (2020-2025).

On a personal note, 2018 has been a year of great satisfaction, as I had the opportunity to visit and to discuss the impact of our projects with our local partners in Bolivia. It was indeed rewarding and I returned to Denmark both wiser and more informed about the hard and solid work conducted by our volunteers and project partners around the world.

Bent Michael Nielsen, Chairman EWB-DK

## HOW WE BUILD A BETTER TOMORROW

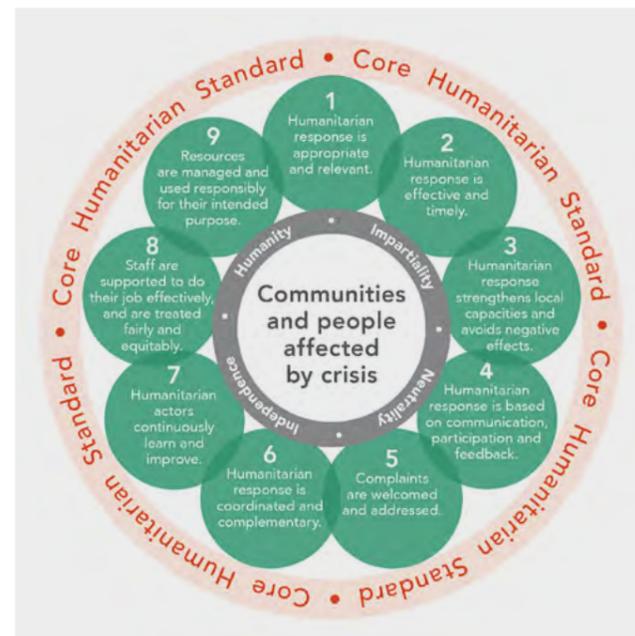
Engineers Without Borders Denmark is a technical humanitarian NGO established in 2001.

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 (SDGs), 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 2018, EWB-DK is counting 1350 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

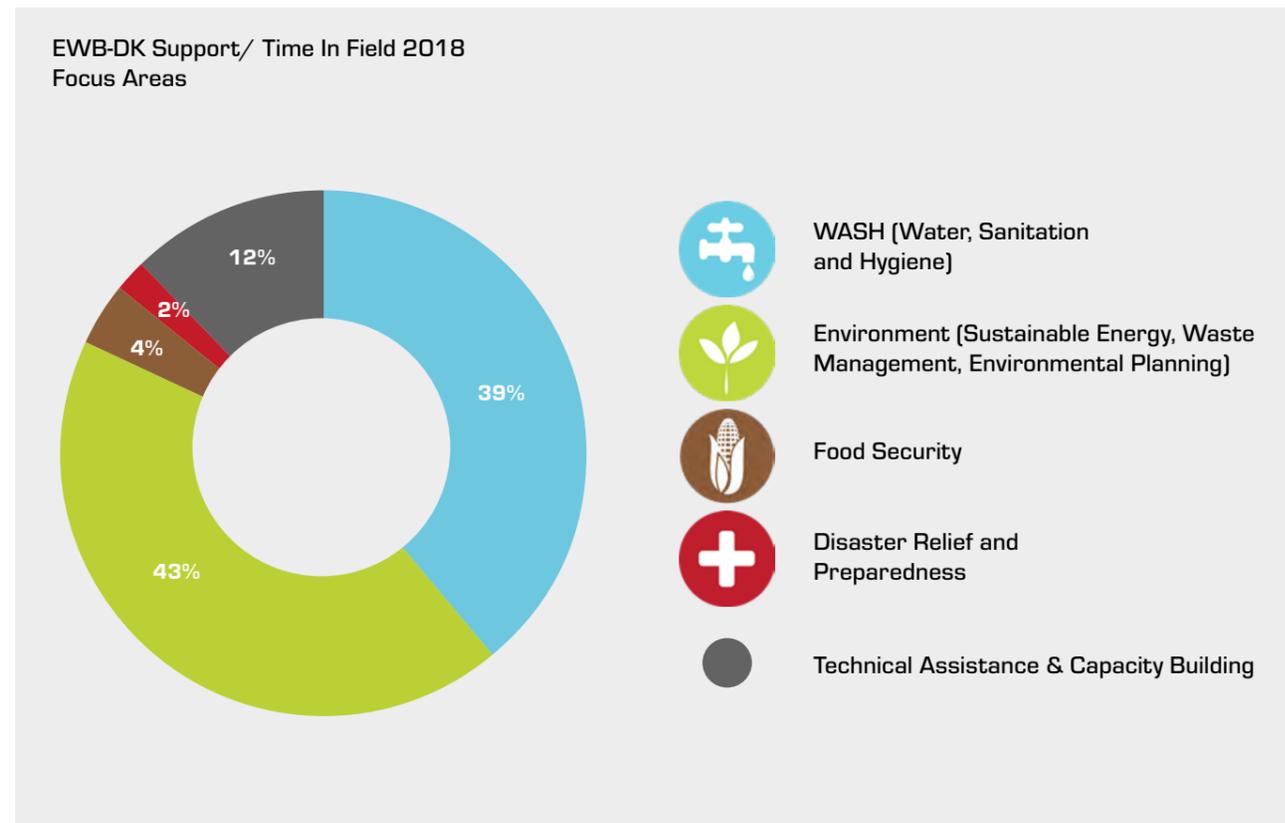
and external communication and much more. In addition to the activities conducted at the secretariat in Copenhagen, EWB-DK has regional sections in South Denmark (Odense) and Central Denmark (Aarhus).



### Core Humanitarian Standard

To ensure quality and efficiency of the projects, EWB-DK works with CHS in all interventions. In 2018, we worked on learning more and we will further develop this aspect in 2019.

## EWB-DK HAS FOUR STRATEGIC FOCUS AREAS:



### 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 2018, the network of GIS was reorganized to Information and Communication Technology thus including data transmission, Internet of Things etc. Visit our website to see the complete list of thematic networks.



### WHY I VOLUNTEER

"My fascination for the forces of nature led to my interest in natural hazards, and to how we can prevent or minimize the impact of their existence. Especially in relation to human activity that acerbate the risks. Human activity - the rapid use of natural resources and the changing climate, poses significant challenges.

I've been very fortunate and lucky to obtain an education and I'd like to pay it forward. Contributing to raising awareness about the effects of climate change, increasing the knowledge level and enhancing the coping capacity of vulnerable communities motivate me and have been a driven factor, both professionally and as an EWB-DK volunteer".

- Marianne Skov, M. Sc., Flood Risk Management, Flood Risk Specialist at Rambøll A/S



## WHAT WE DID IN 2018

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

### FEBRUARY:

- Start of EU Aid Volunteers project
- Joint event with Oxfam IBIS: How can farmers adapt to climate changes in West Africa?

### MARCH:

- UN World Water Day celebrated together with Rambøll with more than 50 attendees
- Ebmpapst joins as corporate member
- DSE fair at DTU Lyngby

### APRIL:

- First Young Scientists Engineering Challenge

### MAY:

- General assembly and election of a new board
- "Det fælles bedste" fair in Vejle
- ViewWorld workshop for volunteers

### JUNE:

- Grøn KBH fair
- Data transmission up and running in Gandorhun monitoring water use from the system

### JULY:

- New partnership with Access2innovation

### AUGUST:

- DTU Innovation Pilot course
- Participated in CISU event about Sierra Leone

### SEPTEMBER:

- Part of World's Best Morning event with World's Best News

### OCTOBER:

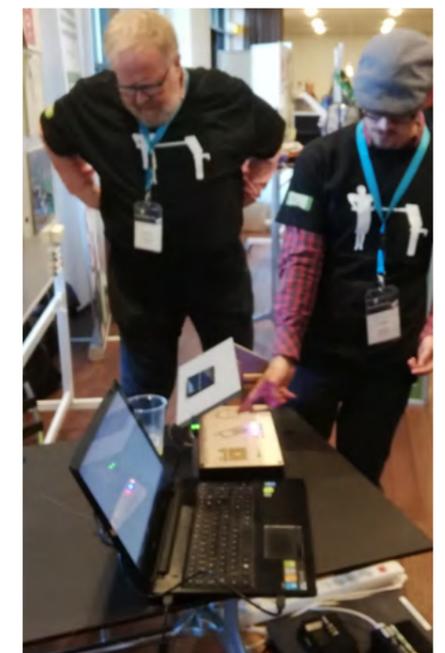
- IDA Engineering Association Environment Event
- Culture Night in Copenhagen

### NOVEMBER:

- UN World Toilet Day celebrated with Water DTU
- Marine Engineer Business Conference Ajour in Odense

### DECEMBER:

- EWB-DK represented at the board of Ocean Plastic Forum



During the year, we have held 11 information meetings visited by 225 interested people, and we welcomed 181 new members to our organization.



## COLLABORATION WITH UNIVERSITIES AND SCHOOLS

During 2018, we have strengthened EWB-DK's collaboration with Danish universities, marine engineering schools and university colleges. Supported by Danida funds, we have developed educational material about our activities and achievements in Sierra Leone. The material gives Danish engineer and marine engineer students knowledge about the economic, social, political, cultural and environmental conditions in Sierra Leone and demonstrates how Danish technical solutions and transfer of knowledge play important roles in improving life for people in developing countries, thereby contributing to the UN

Sustainable Development Goals (SDGs). With the material, EWB-DK hopes to inspire students to consider to take part in international humanitarian projects during and after graduation, e.g. through our internship programme.

The educational material was the springboard for visits to 5 universities and marine engineering schools during autumn of 2018. The Aarhus School of Marine and Technical Engineering had a full theme day with EWB-DK for 90 students. Lars Hansen, associate professor says: "The students learn about electrical installations, pumps and automation in this term, which relates well to EWB-DK's projects. I think it is good that the students get the opportunity to learn about development work".

EWB-DK also participated in the Innovation Pilot at the Technical University of Denmark (DTU), where the students used the educational material to explore how to establish data monitoring for hand pumps in rural Sierra Leone.

"EWB-DK gave a very good and professional presentation – the five people who gave the presentation blew the class away with their great enthusiasm. The cooperation with EWB-DK during the Innovation Pilot course has been excellent and the students have felt the support from EWB-DK," says Lars Maack, Associate professor and facilitator of Innovation Pilot at DTU.

University of Southern Denmark (SDU) and the marine engineering schools in Frederica and Esbjerg were also visited during the autumn of 2018.

You can find the educational material at our website: [iug.dk/undervisning](http://iug.dk/undervisning)



### ENGINEERING CHALLENGE FOR YOUNG SCIENTISTS

In cooperation with Engineering in School, Villum Foundation, A. P. Møller Foundation, Lundbeck Foundation The Danish Industry Foundation, EWB-DK handed out two prizes in the science competition Young Scientists – one in the Senior category (gymnasium level) and one in the Junior category. In relation to this project, students at Odense Tekniske Gymnasium has worked with EWB-DK cases and EWB-DK visited the Junior winners' school Gribskolen to teach the students about EWB-DK and the SDG's.



## CORPORATE PARTNERSHIPS

What strongly motivates many of EWB-DK's corporate members is to explore the shared knowledge platform with EWB-DK, giving back to society, poverty reduction on a non-profit basis, and assisting communities in need. A shared vision of joint action for the UN Sustainable Development Goals has inspired an increasing number of Danish companies to engage in a membership or project partnership with EWB-DK.

During 2018, existing corporate members have sought novel ways of supporting EWB-DK's vision, and new partnerships have been fostered, such as with Ramboll's Humanitarian Association. Additionally, Ramboll Denmark has extended their corporate membership, and a number of employees are now members and volunteering with EWB-DK.

"We believe that EWB-DK will be a strong representative of the humanitarian efforts we want to implement. EWB-DK will be good at creating the necessary framework for voluntary work abroad and at the same time being a relevant partner regarding our members' special qualifications. We therefore hope to be able to do more and at the same time give the opportunity for valuable personal experiences through voluntary work," says Thomas Madsen, Chairman of Ramboll's Humanitarian Association.

We also welcomed Ebmpapst as a new corporate member, and are looking forward to further exploring the synergy between EWB-DK's strategic areas of intervention and Ebmpapst's core competencies, and to joining forces for sectoral partnerships and access to innovation for the world's poorest population.

**LEARN HOW TO BECOME A CORPORATE MEMBER ON [WWW.IUG.DK](http://WWW.IUG.DK)**



### WHY I VOLUNTEER

"I have assisted with the implementation of the e-economic online financial system at water projects in Sierra Leone. In 2016, I was in Kenema where I introduced the system. Subsequently, I have had follow-up with the team in Sierra Leone and internally in EWB-DK.

I volunteer because I want to contribute to society and because it gives me a satisfying feeling of being able to help others."  
- Mette Paving, Project Controller at COWI A/S



# 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 10 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 2018, our focus has been on establishing data transmission from the first water supply systems, emergency efforts to restore access to safe water in Freetown after mudslides and flooding in 2017 and exploration of potential new partnerships.



## SIERRA LEONE: COMMUNITY WATER SUPPLY SYSTEM

Now operating in 26 rural communities in the Kenema district of Sierra Leone, EWB-DK and partner EWB-SL in 2018 have secured access to safe water in 5 new communities. In the smaller villages hand-dug wells have been established and in a larger community Nomo Faama (2,000 inhabitants) a drilled well has been fitted with a water tower and a solar driven pump. The solar powered system includes data transmission equipment to secure live data on the status of the system.

Parallel to the construction of the water points all 26 communities have been engaged to develop their ability and organization in order for them to conduct ongoing maintenance of the systems and collect water fees from the inhabitants to secure funds for maintenance and repairs.

One of the fundamental problems in rural Sierra Leone is the lack of public response both on the need of water, but also with respect to repair and maintenance of existing system. Therefore, the projects do not only target empowerment and access to water at community level. The projects also step up the focus on direct participation and work more strategically with strengthening of structures/ institutions at district level, to secure participation of civil society in the local official decision-making processes, specifically in the WASH sector. EWB-DK's and partners' projects secure a continued support in the coordination amongst NGOs, civil society and the local authorities in order to ensure alignment in strategies and interventions.

**Partner:** Engineers Without Borders Sierra Leone  
**Donors:** Ramboll Foundation, BDO International, CISU



### WHY I VOLUNTEER

"I have chosen to volunteer at EWB-DK because of my academic background and experience as an

engineer, but also because EWB-DK is actually an organization, where volunteers can leave their mark on the tasks you work with. As a project manager for WASH projects in Sierra Leone I have experienced the enthusiasm the people of the community shows, when you hand over a finished project and clean water is flowing from the pumps."

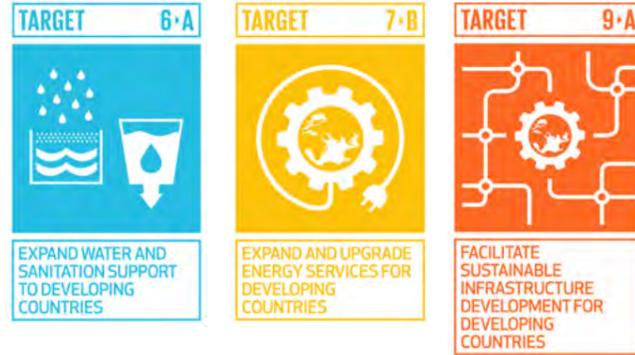
- Per Jacobsen, Civiling., Ph.D, former technical director in HOFOR, consultant. Project manager and Vice Chairman in EWB-DK



## TANZANIA: RENOVATION OF SOS CHILDREN'S VILLAGE IN ZANZIBAR

After 25 years of service, the buildings of the SOS Children's Village in Zanzibar needed extensive renovation in order to accommodate the needs of the 90 children living in the village. Since 2014, EWB-DK has been involved in the renovation including roof repairs, piping, and renovation of the electricity, water and wastewater systems. Staff from Siemens Denmark, Solar DK, Rambøll DK and EWB-DK have installed a solar power system, which provides cheap and sustainable electricity. In 2018, our work has mainly consisted of supervising the final reconstruction efforts and repairs, and monitoring the solar system previously installed in the village. We 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 having waterborne diseases during the rainy season.

To finalize the project, a workshop with focus on operation and maintenance (Planned Preventive Maintenance) for all the SOS Children's Villages in Tanzania is planned to take place in March 2019.



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



## 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 sustainable use of natural resources, and in minimizing adverse 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 2018, our focus within this strategic area has been to establish solar panels and incinerators at rural health clinics in Sierra Leone.

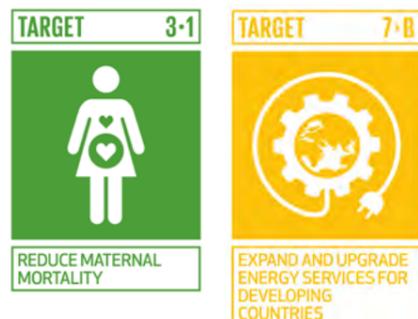




**SIERRA LEONE: SOLAR ENERGY TO RURAL HEALTH CLINICS**

In the rural areas of Sierra Leone, access to electricity is practically non-existent. However, public health and the infant mortality may be improved if rural clinics are provided with electricity. In June 2018, EWB-DK established solar panel systems at four health clinics. The clinics serve around 10,000 people in total, and three of the clinics have more than 500 childbirths a year. The solar panels now provide power for lighting, basic medical equipment and a refrigerator for medicine and vaccines. The infant mortality rate in Sierra Leone is falling but is still the second highest in the world with 82 deaths out of 1,000 live births. With electricity in the clinics, the health staff has significantly better conditions to perform their duties, and giving birth becomes safer for mothers and infants.

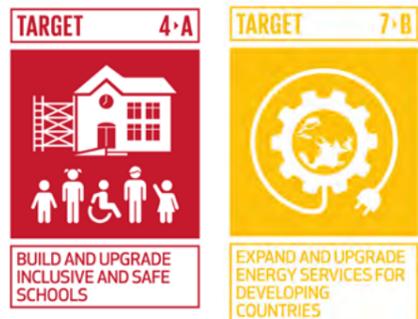
**Partner:** Engineers Without Borders Sierra Leone  
**Donor:** The Novo Nordisk Foundation



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

In January 2018, a 24 years old standby generator that could break down at any time was replaced by a solar panel system in the SOS Children's Village in Hawassa. Now the Children's Village can have power even when the national electricity grid is out. The frequent power outages made it difficult to use IT and to secure the compound after sunset. The high energy costs has also been decreased. The new PV system combined with lamps and rechargeable batteries provide the houses with light allowing the 150 children of the village to study in the evening. In November, there was a follow-up mission to make sure everything was still working properly and the workshop was held. The project also includes future training sessions on solar panel energy systems at a local vocational training centre for youth.

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

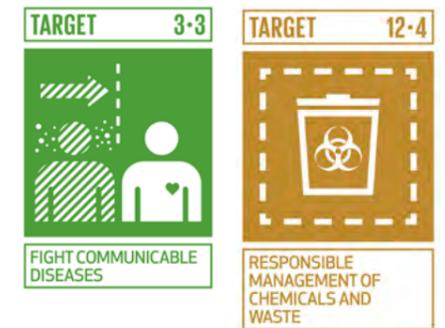


**SIERRA LEONE: MEDICAL WASTE MANAGEMENT AT RURAL HEALTH CLINICS IN KENEMA**

With the Ebola epidemic of 2015 fresh in memory, Sierra Leone has directed a greater focus towards issues of sanitation and hygiene. The rapid spread of the virus only underlines the importance of proper health care waste management, the establishment of systematic, sustainable and safe disposal of medical waste, and training of health care personnel in these matters. During 2018, EWB-DK in cooperation with local partner EWB-SL started and completed the construction of eight medical waste incinerators at small health clinics in rural communities in the Kenema district, to address precisely these issues. An EWB-DK intern spent three months in the field assisting and supporting the local partner with implementation and monitoring of the project activities. Incinerators with three pits were constructed at rural clinics in the district, and health personnel were trained in the safe operation and maintenance. The clinics monthly serve between 200-400 people and handle 10-20 births, and in a society where the fear of virus epidemics still lurks,

the medical waste system significantly improves the services and safety the clinics can provide the communities. Towards the end of 2018 the last of the incinerators were handed over to the local Ministry of Health, sharing experiences and lessons learned, and the project was completed by the end of the year.

**Partner:** Engineers Without Borders Sierra Leone  
**Donor:** Novo Nordisk Foundation





## TOGO: SOLID WASTE MANAGEMENT IN KÉTAO

In Togo, the city of Kéto hosts a weekly regional market visited by up to 50.000 people (in addition to its 20.000 inhabitants). This produces a lot of waste, also due to an increasing use of plastic bags, which needs to be handled in a sustainable way to protect the local environment and the oceans where the trash eventually ends up. In 2017, EWB-DK initiated a project in Kéto regarding a community driven waste management system for the city, focusing on community involvement, awareness campaigns, school outreach, and the establishment of a safe and controlled dump-site outside the urban area.

In 2018, the project has been moving forward. With assistance from EWB-DK, a location for the dump-site has been selected and an environmentally secure dump made. In close cooperation with the local partner ADSA, the EWB-DK project team has assisted with identification and mobilizing of local stakeholders and households for participation in the waste management system, assessing public areas such as the market and bus station for engagement in waste collection, and selection of waste bins and other equipment. EWB-DK has assisted ADSA with organizational capacity building and formulating a sustainable business model. The construction of the dump-site is expected to be completed early 2019, and after this the community can start the implementation of the waste collection and management system.

Furthermore, with the support of Recycling for Development, the EWB-DK project team shipped 39 computers to a local school Lycée de Kéto. In addition to capacity building regarding operation and maintenance of IT equipment, EWB-DK and ADSA informed about sustainable waste management of electronic equipment. This has sparked a further cooperation regarding waste management, and the school will be involved in the community waste management system by creating promotion campaigns for waste management, and include the matter into their curriculum.

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

**Donors:** CISU, Spejdernes Genbrug Forum, Reinholdt W. Jorck og Hustrus Fond, Recycling for Development



## BOLIVIA: ENVIRONMENTAL PROJECTS IN COROICO

In the small communities in the mountains in Bolivia, the streams are polluted and there is limited access to clean water. Also, plastic and other waste is accumulating. EWB-DK has completed two fact-finding missions in 2018 in relation to these issues to get insights on how the communities are handling waste and how they get clean drinking water. The projects are now working with a design of artificial wetlands with aqua plants to treat the water and slow sand filtration as well as treatment of plastic residues.

**Partners:** Caritas Coroico, Unidad Académica Campesina - Carmen Pampa  
**Donors to fact-finding missions:** Jingle & Mingle crowdfunding, Velux Foundation



### WHY I VOLUNTEER

"I joined EWB-DK a few months after I graduated from my master's in Environmental Engineering at DTU. I wanted to use and share my knowledge in water chemistry and water treatment for a good cause, and as soon as possible! More than a year has passed and a project is emerging now in Coroico, Bolivia, focusing on drinking water and wastewater treatment. In this mountainous region of Bolivia, water sanitation is an increasing problem as the population keeps growing in the rural area."

- Felix Onses, Process Automation Engineer at NNE

# 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.

## GHANA: FARM CONTRACTORS

For many smallholder rural families around the world a large obstacle to rural development and higher yield of their labour input is lack of access to mechanic equipment and motorized tools to work the land. During 2018, EWB-DK together with local Ghanaian district partners, local farmer organizations and Danish commercial agro-businesses developed a concept to fold out a mechanization of small holders in the North Dayi District in Ghana. The objective is to improve livelihood of small-scale farmers through



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 2018, we focused our efforts on development of new partnerships in Zimbabwe with tea farmers and 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.

increased farm production but also to demonstrate a solid business case for the introduction of the long-standing Danish concept of providing mechanical service (maskinstationer) to local farmers in order to improve their production methods. During a fact-finding in 2018 it was concluded that a core element of the project is the establishment of a strong local business case hence, farm and farm-contractor will work together on establishing and spreading knowledge about environmentally friendly and profitable agriculture in interaction with mechanization. The approach is holistic, hence strategic actors are local lending institutions, agro-universities, farmers organisations and local authorities.

**Partner:** North Dayi District Assembly  
**Donor:** Oikos Foundation

TARGET 2-3	TARGET 2-4
DOUBLE THE PRODUCTIVITY AND INCOMES OF SMALL-SCALE FOOD PRODUCERS	SUSTAINABLE FOOD PRODUCTION AND RESILIENT AGRICULTURAL PRACTICES

# 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 led 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).

## SIERRA LEONE: EMERGENCY WASH IN FREETOWN

Responding to the severe vulnerability due to lack of access to safe water of the communities affected by flooding in Freetown, Sierra Leone in August 2017, EWB-DK in 2018 has, jointly with partner Engineers Without Borders Sierra Leone, erected two



water points. Access to clean water was established by means of a drilled borehole with a submersible Grundfos pump, pumping up clean water by means of a solar energy PV system to tanks mounted on a solid concrete platform. Prior to the completion of the project, data transmission equipment and a water meter were also installed to assist in the further follow-up and monitoring of the completed system from within and from outside, contributing to sustainability.

The live data transmission is a landmark for the EWB-SL and EWB-DK partnership and this component will strongly inform and support future interventions. Additional 3 systems will be finalized during 2019 with partner Hope International.

**Partners:** EWB-SL, Hope International  
**Donors:** Danish Emergency and Relief Fund (DERF), Fonden af 24. December, Novo Nordic Foundation and Asta & Jul. P. Justesens Foundation

TARGET 6-1	TARGET 11-5
SAFE AND AFFORDABLE DRINKING WATER	REDUCE THE ADVERSE EFFECTS OF NATURAL DISASTERS

# OTHER PROJECTS

## SIERRA LEONE: TECHNICAL SUPPORT TO VOCATIONAL SKILLS TRAINING CENTRE FOR YOUTH WITH DISABILITY



During 2018, EWB-DK has fostered an interesting new partnership with the Opportunity Training Centre (OTC) in Kenema. In addition to basic education, the OTC offers vocational skills training for youth with disability, offering a livelihood away from living on the streets as beggars and among the most marginalised groups in society. With the support from Copenhagen's regional centre for recycling of hospital apparatus, a container with equipment for physical vocational training was shipped from Denmark and arrived at the OTC early 2018.

The donated equipment was unpacked and installed at the OTC with the assistance from an EWB-DK intern stationed in the area. In addition to hospital disability equipment, the donations included technical equipment such as tools, which are now used at the centre's various workshops where students learn practical skills that can help them establish a livelihood and create a future for themselves. The collaboration between EWB-DK and the OTC has been of aspiring character and the joint activities have

set a solid foundation for a future partnership. With the support from EWB-DK, the centre will now be able to align its many years of experience with its vision and ambitions for the future. A strategy process was launched in late 2018, and funds have been secured for further joint development of the OTC.

**Partner:** Opportunity Training Centre  
**Donors:** Recycling for Development, CISU

<p><b>TARGET 4-4</b></p> <p><b>INCREASE THE NUMBER OF PEOPLE WITH RELEVANT SKILLS FOR FINANCIAL SUCCESS</b></p>	<p><b>TARGET 4-5</b></p> <p><b>ELIMINATE ALL DISCRIMINATION IN EDUCATION</b></p>	<p><b>TARGET 10-2</b></p> <p><b>PROMOTE UNIVERSAL SOCIAL, ECONOMIC AND POLITICAL INCLUSION</b></p>
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## ZIMBABWE: LEARNING BOARD TO STUDENTS FOR IMPROVED LEARNING

In rural areas of Zimbabwe, schools lack basic furniture and students often sit on the floor or on the ground. When they get home, they cannot study after sunset because there is no desk nor electricity. An EWB-DK project group has together with students from Copenhagen School of Design and Technology (KEA) developed different prototypes of a learning board, which is a desk to be placed on the student's lap.

The desk includes a solar powered reading lamp, so the children can study after sunset. The students of KEA needed to take into account the size, materials and attachment of the lamp, but also sustainable materials and the possibility for local production when designing the learning board.

### WHY I VOLUNTEER



"I want to contribute with my professional competences to projects that seek to improve the lives and conditions for those in need. It also provides me the opportunity to develop my own knowledge and network within this important field and deal with projects that normally differentiate from my everyday work. As coordinator of the local chapter in Aarhus, I organize the local meetings for the project groups based in Aarhus. I am a member of the local WASH team where we are currently working on new upcoming projects in Zimbabwe with a focus on water supply."

- Christina Berg Olesen, M. Sc. Environmental Engineering at NIRAS A/S

**Partners:** Christian Youth Volunteers Association Trust, Copenhagen School of Design and Technology (KEA), Care4People  
**Donor:** To be determined

**TARGET 4-6**

**UNIVERSAL LITERACY AND NUMERACY**

# EU AID VOLUNTEERS INITIATIVE - BRINGING TECHNICAL KNOWLEDGE TO THE FIELD

Early 2018, EWB-DK launched the multi-partner capacity development project, together with Scandinavian EWBs, Emergency Architecture & Human Rights and partners in Sierra Leone, Nepal and Tanzania.

The purpose of the project is, within the Nordic partners and our partners in the developing South, to enhance quality and capacity of our volunteer management and hence increase the amount of future deployment of volunteers. Certification and hence eligibility to form part and receive funds

from the EU Aid Volunteers Initiative is ultimately a significant step towards further improving the joint interventions we unfold in favor of marginalized and poor families around the world.

During 2018 various missions have been conducted to Sierra Leone, Nepal and Tanzania in order to assist partners in the certification process and also to jointly conduct a survey on what specific volunteer deployments hence local technical capacity building is needed to support future joint projects.



In brief, the EU Aid Volunteers Initiative aims to strengthen resilience, disaster risk reduction of vulnerable communities and countries outside the EU, by deployment of volunteers and joint projects between experienced humanitarian development NGOs and local non-governmental organizations in countries outside the EU. The initiative facilitates organizations such as Engineers Without Borders, a technical humanitarian organisation, in deploying volunteers with a diversity of knowledge, skills and professional experience to partners, to be involved in building a better tomorrow for vulnerable communities.



# THANK YOU TO OUR DONORS! DONOR PLEDGES 2018

### 250.000 DKK and above

The Civil Society Fund  
Ramboll Foundation

### 50.000-250.000 DKK

A.P. Møllerske Støttefond  
BYGMA Fonden  
Marie og M.B. Richters Fond  
Reinholdt W. Jorck og Hustrus Fond  
Sweco Denmark A/S employees  
The Agency for Culture and Palaces  
Torben og Alice Frimodts Fond  
Recycling for Development

### 5.000-50.000 DKK

Aalborg Municipality  
BDO Denmark  
Danish Tax Agency  
D-VVS ApS  
Fabriksejer Civilingeniør Louis Dreyer Myhrwold og Hustru  
Janne Myhrwolds Fond  
Frants Richters Fond  
Frimodt-Heineke Fonden  
Google UK  
GreenSpeak  
Jubilæumsfonden af 12.08.1973  
Oikosfonden  
The Velux Foundations

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



## CORPORATE MEMBERS 2018

### Extended corporate members 20,000 DKK / year

Ebmpapst  
Lodam Electronics A/S  
Process Engineering A/S  
Rambøll Danmark  
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  
Siemens A/S  
Aarhus Arkitekterne

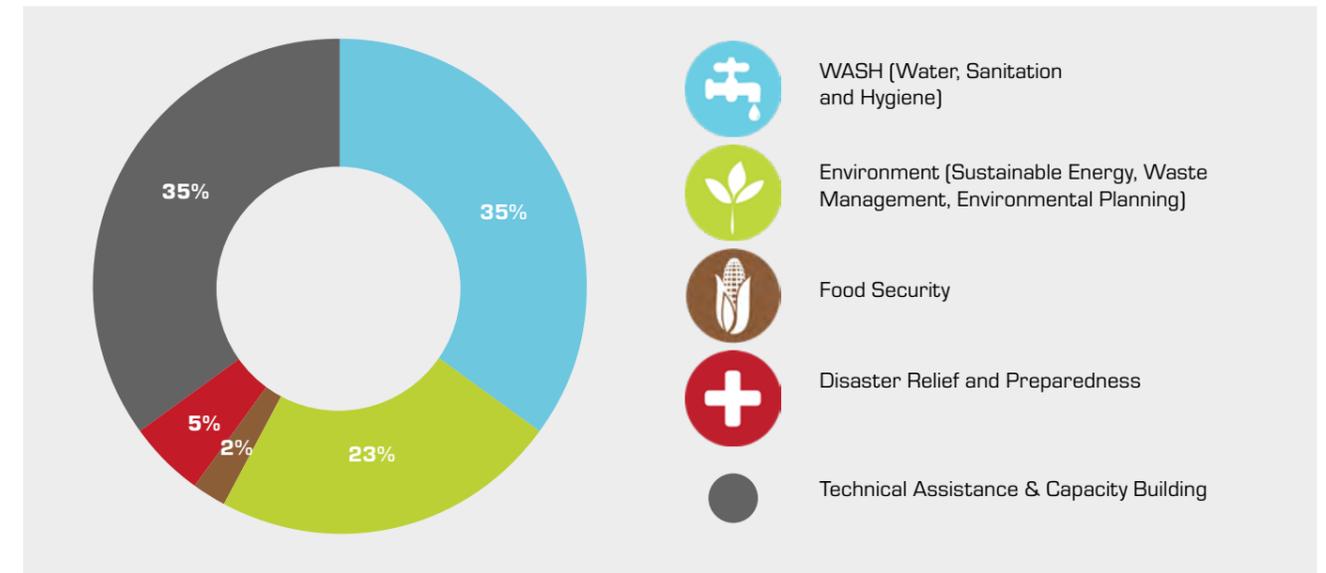
# ANNUAL ACCOUNTS

## OPERATING STATEMENT

January 1 – December 31

	2018 (DKK 1,000)	2017 (DKK 1,000)
<b>REVENUES:</b>		
Tied Revenues	4,518	2,968
Other Revenues	736	940
Advanced Funds Adjustment	133	-1,058
<b>Total Revenues</b>	<b>5,387</b>	<b>2,850</b>
<b>EXPENSES:</b>		
Project Expenses	3,691	1,726
Other Expenses	1,224	952
<b>Total Expenses</b>	<b>4,915</b>	<b>2,678</b>
Result Before Financial Revenues	231	44
<b>Financial revenues</b>	<b>-8</b>	<b>-36</b>
<b>ANNUAL RESULT</b>	<b>223</b>	<b>8</b>

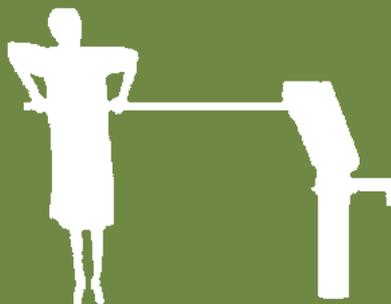
## PROJECT INVESTMENT DKK FOCUS AREAS



## BALANCE SHEET

December 31

	2018 (DKK 1,000)	2017 (DKK 1,000)
<b>Assets</b>		
Fixed Assets	19	19
Current Assets	4,278	4,017
<b>Total Assets</b>	<b>4,297</b>	<b>4,036</b>
<b>Liabilities</b>		
Equity	858	634
Tied Reserves For Projects	2,964	3,098
Account with the Danish Society of Engineers, IDA	87	96
Other Debt	388	208
<b>Total Liabilities</b>	<b>4,297</b>	<b>4,036</b>



BUILDING A BETTER  
TOMORROW

## ENGINEERS WITHOUT BORDERS DENMARK

Kalvebod Brygge 31, 1560 Copenhagen V

+45 7027 4006

[info@iug.dk](mailto:info@iug.dk), [www.iug.dk](http://www.iug.dk)

