

ENGINEERS  
WITHOUT BORDERS  
DENMARK



ASSOCIATION OF  
NORDIC ENGINEERS



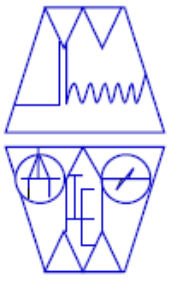
Sierra Leone Institution of Engineers,  
Engineers Without Borders – Denmark, & Association of Nordic Engineers

## **SLIE's Contribution to Engineering the Future in Sierra Leone**

Nordic input to SLIE's work on sustainable development according to the UN Sustainable Development Goals  
*Partnership to strengthen SLIE's work on sustainable development according to the UN's Sustainable Development Goals*

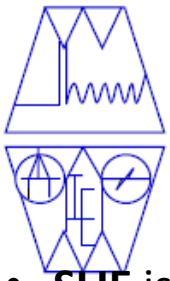
### Project Overview

16<sup>th</sup> July 2021



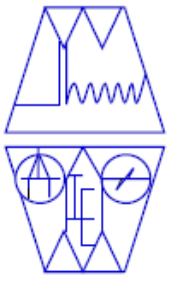
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## Partners

- **SLIE** is the sole association for all engineers in Sierra Leone. It was formed in 1970 and is currently celebrating its 50 years anniversary, starting in June 2020. SLIE's membership includes students, graduates, corporate members and a small number of Fellows. It has a total of 1379 registered members but in 2020, only has 739 paid members. SLIE is a non-political institution and is not affiliated with any political party.
- **EWB-DK** is a technical-humanitarian organization of volunteer members with a large range of technical skills and backgrounds. EWB-DK collaborates with local and international NGOs to improve the living conditions for marginalised and vulnerable people in poor countries. EWB-DK builds schools and health clinics, provides clean water and better sanitation, improves roads and bridges as well as establishes solar power plants and waste treatment plants. EWB-DK's efforts ensure local anchorage and lasting solutions and are founded in the UN Sustainable Development Goals. EWB-DK has a long-lasting presence and experience in Sierra Leone, and thereby vast knowledge of the context the activities are to take place in.
- **ANE** is a binding cooperation between The Swedish Association of Graduate Engineers (Sveriges Ingenjörer); The Danish Society of Engineers (IDA); The Norwegian Society of Engineers and Technologists (NITO); The Association of Chartered Engineers in Iceland (VFÍ); and Engineers Finland. Together, ANE represents more than 340,000 engineers in the Nordic Region. ANE promotes the interests of Nordic engineers in international affairs, reinforces the Nordic cross-organisational cooperation and raises awareness of the Nordic engineers' work-life balance model. ANE makes the crucial role of engineers in society more visible and strives to find common solutions to current global challenges, as well as influencing the cross-border decisions at EU level.



# Collaboration with EWB-DK and ANE

## Project Description

The **objective** of the project is to improve SLIEs competence and capacity to influence stakeholders, to ensure a more sustainable development of Sierra Leone.

The project is being considered in two phases:

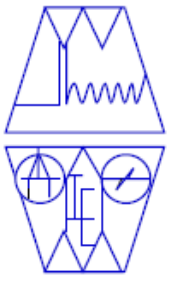
**Phase 0:** The initial planning (Phase 0) of the project took place 2019 until April 2020 and is completed

**Phase 1:** Phase one of the project is planned to have a duration of one year from financing is in place: September 2020 to September 2021

### Phase 1

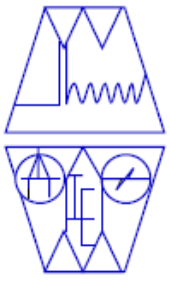
The project the coming year will consist of **four components**, as described in chapter 4.1 to 4.4, and as concluded at the February 2020 meetings at SLIE:

1. Organisational development including drafting a strategy for SLIE
2. Communication and marketing of SLIE
3. Training in SDGs and sustainable engineering
4. Water supply component



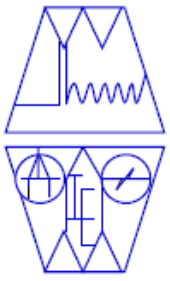
# Project Rationale

- Engineers are critical in the development of nearly all sectors in society
- Engineers skills include technical, communication, networking and advocacy skills – which bring real change
- SLIE had limited resources – budget, facilities and finances
- SLIE needs to express it strategic objective



## Project Benefits

- Prepare and disseminate a long-term strategy for SLIE as an organisation, its development plus its interest in influencing decision makers and the whole society in utilising technical sustainable solutions.
- Assist SLIE in being more proactive in communication with all stakeholders, including SLIE's members (existing and potential), existing and potential employers, decision makers like Government and society as a whole specifically local communities.
- Increased visibility will enable SLIE and its members to be seen as the premier engineering body for collaboration on all donor and government projects specifically those related providing clean water, electricity, infrastructure, housing, products.
- The present project will contribute to building engineers' competences by including sustainability aspects in education and post graduate training



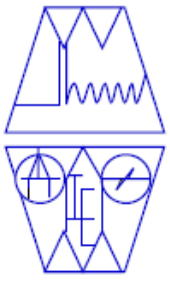
## **Project Description – 1. *Organisational development including drafting a strategy for SLIE***

Establish a direction and clear path for SLIE through the revision of its mission, vision and strategic goals over a 5-year period, with appropriate goals and targets. This will help focus efforts so that SLIE becomes more relevant to members and can influence the national agenda and policy formulation in order to promote sustainable development.

Ensure Strategic stakeholders identified, engaged and converted to being supportive of SLIE's strategy development

Support SLIE to gain increased administrative capacity in management of funds and in the management of a contract with an external consultant

Ensure SLIE has enhanced its knowledge and capacity to communicate and raise awareness on sustainable development from an engineering sector perspective. Specific topics could include decent work, certification of engineers and women in development

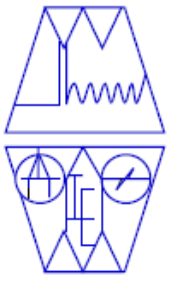


## Project Description – 2. *Communication and marketing of SLIE*

Increased visibility for SLIE will assist in their ability to affect the sustainable development of Sierra Leone and strengthen the identity of the organisation and thus their political influence.

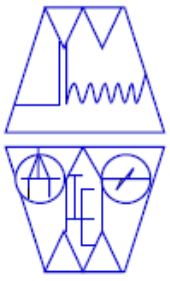
- The communication component is a part of the organisational and strategy development and will be linked closely to both the training and the water supply component, with particular attention to gender aspects and the possibilities of young engineers.
- The responsible person for developing and executing the activities within this component will be the new communications officer, which is why the first activity is to identify and employ a communications officer.





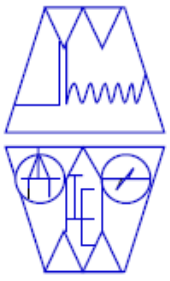
## Project Description - *3. Training in SDGs and sustainable engineering*

The **objective** is to enhance the knowledge and experience by young engineers and student engineers on how to prioritise and work with the 17 UN SDG, plus how to include sustainability aspects in engineers daily work



## Project Description - *4. Water supply component*

- Access to water, sanitation and hygiene 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 EWB-DK interventions, with Sierra Leone as the primary target country.
- The projects aim to provide safe and reliable water supply for rural and urban domestic use provided from drilled boreholes powered from solar energy. In addition to water infrastructure project activities will include training in maintenance of the water supply systems and community training in hygiene and sanitation practices.



# Professional Engineers' Registration Council

## **PERC is:**

- The Body empowered by an Act of Parliament of 1990 to regulate and control the practice of engineering in the country.
- A “body corporate” with perpetual succession
- Council has a Chairman
- Consists of 9 members – 8 professional engineers and 1 lawyer
- Powers to make regulations
- Keeps a Register of Professional Engineers
- Investigates and enforces discipline amongst engineers

## **Its Key Objectives are to:**

- (a) Register all professional Engineers in Sierra Leone.
- (b) Regulate the practice of Engineering.

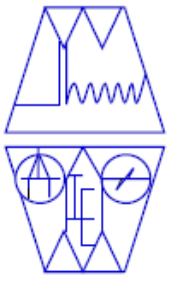
## **Mission**

To maintain international recognized standards of competence and commitment for the engineering profession and to license and regulate competent institutions and engineering practitioners to champion these standards thereby contributing to the well-being of humankind in Sierra Leone and beyond.

The **Vision** of PERC is that society has Confidence and trust in the Engineering profession.

## **The Law**

It is illegal for anyone to practice in Sierra Leone as an engineer without a certificate from PERC



# Sierra Leone Institution of Engineers

Formed in 1970 through a Memorandum and Articles of Association and became a statutory body by an Act of Parliament which was passed into law on 13th March 1990.

## The main objectives of the Institution

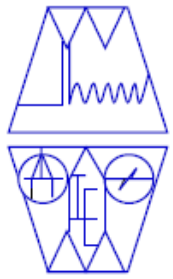
- Facilitating the advancement of Engineering in all its branches for the improvement and development of Sierra Leone.
- Promoting and maintaining the unity, public usefulness, honour and interest of its members.
- Promoting sound Engineering Practice, Engineering Education in schools and Gender Participation in Engineering
- Advising Government on all Engineering Matters.

## Membership

Fellow  
Emeritus Fellow  
Companion  
Corporate member  
Honorary Member  
Graduate Member  
Associate Member  
Student Member

*The future...expand to:*

- *Technicians*
- *Technologists*



## Vision

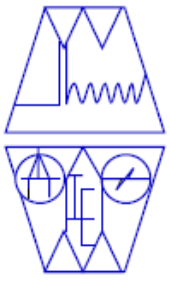
*To become an influential and competent engineering institution, serving the needs of the citizens of Sierra Leone by driving high standards in engineering, empowering students, engineering technicians and engineering professionals in the training and practice of engineering at all levels to advance the development of Sierra Leone*

## Mission Statement

SLIE continues to work to advance and promote innovation, excellence, and access to opportunities for all professionals engaged in the practice of engineering including all technicians, technologists and engineers

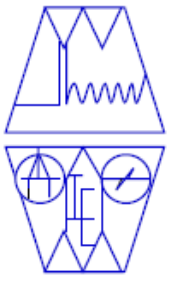
## Core Values

**P**-rofessionalism  
**E**-xcellence  
**I**-ntegrity  
**I**-nnovation  
**E**-ngagement



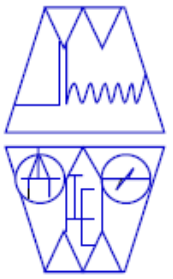
# Strategic Objectives

1. Demonstrate the value of **maintaining registration** with SLIE as a **professional institution**
2. Demonstrate the **role and value** of competent and regulated engineering profession to **society**
3. Support the **continuing professional development** of all engineers
4. Promote **diversity and inclusion** at all technical levels in engineering
5. Continue and expand **international collaboration** with International Partners
6. Develop the **SLIE Secretariat** to provide the requisite service for a modern secretariat

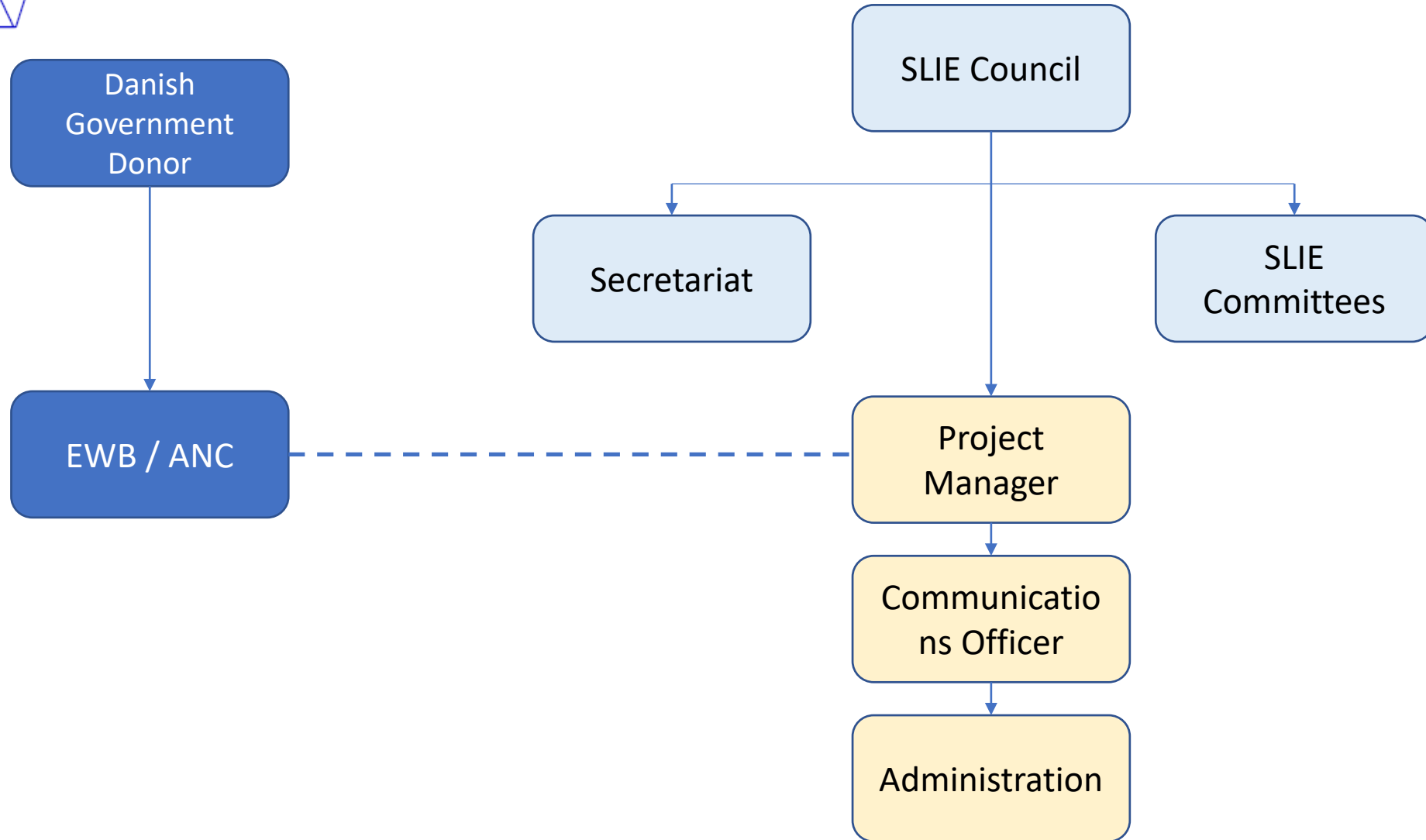


# SLIE Committees

1. Finance, Fundraising and Projects
2. Conference, Publicity and Editorial
3. International and Industrial Relations
4. Education, Training and Professional Development
5. Ethics, Regulations, Membership & Welfare
6. Constitution Review

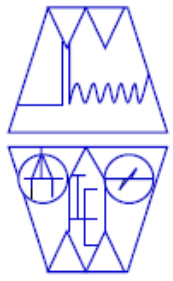


# Project Governance

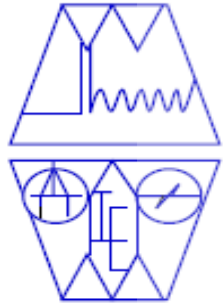








# Questions and Answers



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Thank you!

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President

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