

CLIMATE SMART SOLUTIONS FOR WATER, SANITATION AND HYGEINE



Lovans Owusu-Takyi
Director

Institute for Sustainable Energy and
Environmental Solutions (ISEES)



About ISEES

- The Institute for Sustainable Energy and Environmental Solutions (ISEES) is
- Non Profit - social enterprise institution in Ghana
- Mission: **identifying** (through research), **promoting** (awareness creation and training) and **deploying** (market deployment) of **innovative energy, water and environmental solutions** for improving the **livelihoods of households and small enterprises** in Ghana and Africa.
- website www.iseesonline.org

Thematic Areas of Operation

Renewable Energy &
Energy Efficiency

Natural Resources –
Forestry, Fisheries
and Agriculture –
REDD+,

Environment - Climate
Change and Biodiversity
Conservation

WASH – Water,
Sanitation and
Hygiene

How we do it

Training

- Entrepreneurship based training (seminars, short courses, academic courses)

Research

- Evidence based research for advocacy

Consultancy

- Professional Advisory Services

Community Development

- Outreach, education and behavioral change communication, livelihood empowerment

Technology Deployment & Marketing

- Sale of innovative products and technologies through innovative business models

Business Development

- Sanitation and WASH Business Development Solutions

Climate Change and WASH

- **Significant relationship**
- Climate variability and weather patterns
- increased CO2 emissions and heat,
- irregular rainfall patterns,
- Droughts
- Floods
- impacts on water supply and sanitation.
- drying of water bodies

Impacts on WASH

- Reducing water tables **affecting water supply** in towns and villages
- Rising sea levels also affects **sanitation infrastructure in coastal areas**
- Urban water supply
- Water Quality
- Waste water disposal
- Faecal Sludge treatment and disposal

ISEES - Climate Smart Solutions for WASH

Water Availability, Quality and Conservation

- Water purification equipment for households and SMEs
- Planting of trees along water bodies and community water supply systems.
- Borehole Drilling and water infrastructure – In partnership with More Prosperity Company
- Rainwater harvesting systems
- Water storage systems – for households and communities
- Solar water pumping systems
- Climate Monitoring



ISEES Climate solutions to WASH

Water and Waste Treatment Solutions

- Biogas Digesters
- Anaerobic Baffled Reactors – for Waste water treatment
- Faecal Sludge charcoal briquettes
- Waste Water Treatment and Reuse



Schools Clubs Education on Climate, WASH



- Awareness campaigns on Sanitation, hygiene and water usage
- Tree planting and Eco-schools
- Youth Sanitation forums
- Clean Up Exercises
- Environmental Education
- Climate Change Education

YVE GHANA

Partners



UNIVERSITY OF GHANA - LEGON



PERMACULTURE NETWORK GHANA



Contact Us

Lovans Owusu-Takyi

Director

Institute for Sustainable Energy and Environmental Solutions
(ISEES)

Box 658, University of Ghana Legon, Accra

Tel: 0264108268

Email: director@iseesonline.org

Website: www.iseesonline.org