IRENA Youth Talk:
Entrepreneurship and Innovation for the Green Energy Agenda

Organised in partnership with Initiate! and SDG 7 Youth Constituency

Thursday, 08 OCTOBER 2020 • 10:00 - 12:30 (CEST)
Welcoming remarks

Dolf Gielen
Director
IRENA Innovation and Technology
Please make sure to **mute** yourself during the session to avoid background noise.

If you have questions for our panelists, please use the Q&A.

If you encounter any technical issues, please write your issue to Cisco WebEx Events.

This session will be recorded and recording along with the slides will be available on the Innovation Week website.
## Agenda

### Panel I: Renewable Solutions for Transport

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### Panel II: Renewable Solutions for Industry and Buildings

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Panel I: Renewable Solutions for Transport

10:00 - 11:15 (CEST)
Panel I: Setting the scene

Arina Anisie

Associate Programme Officer, Renewable Energy Innovation, IRENA Innovation and Technology Centre
Emerging innovations for the integration of solar and wind power

- Operation of a decentralised system
- Electrification of end-use sectors
- Value complementarities in renewable generation
- Encourage flexibility
- Empowering consumers
- Value spatial complementarities
- Digitalisation
- Storage
- Blockchain
- Electric vehicles
- Energy as a service
- Peer-to-peer electricity trading
- Aggregators
Emerging innovations for wind and solar PV integration

Source: IRENA (2019), Innovation landscape for a renewable-powered future: Solutions to integrate variable renewables
Digital Innovation Toolbox

Innovation Toolbox

Rapidly integrating solar and wind power to cut emissions and meet key climate goals poses technical and economic challenges.

**Innovation Toolbox** offers 30 innovations emerging across four key dimensions: enabling technologies, business models, market design and system operation.

These innovations can be mixed and matched as needed to create solutions. While the combinations could be endless, the Toolbox outlines 11 solutions as examples of how to achieve system-wide synergies.

Explore the **Innovation Toolbox** based on your own technical, economic or societal requirements:

- Select from the 30 innovations on the left to discover each in more detail.
- Select a solution to see how different innovations can work together.

Access tutorial to learn how to use the Toolbox.

[https://www.irena.org/innovation/Toolbox](https://www.irena.org/innovation/Toolbox)
Electrification of the transport sector

By 2050, potential storage capacity to provide grid services:

~ 14 TWh EV batteries vs ~ 9 TWh stationary batteries
Innovation Showcase
Moderator

Noortje van Heijst

Investment Associate, Unknown Group & VenturesOne
Innovation Showcase

Jorg van Heebeen
CBO, Jedlix
The Netherlands
DRIVING RENEWABLES FORWARD
Taking control of charging is critical for MASS EV adoption

- REDUCE TCO
- AVOID GRID BACKOUTS
- OPTIMIZE EV BATTERY USAGE
- SOURCE CLEAN ENERGY
JEDLIX monetizes flexibility & optimizes use of renewables

Jedlix aggregates electric vehicles with its Vehicle to Grid Integration (VGI) platform and pays out OEMs, CPOs, eMSPs and/or drivers in return for the EVs flexibility monetization with the energy industry.
Vehicle-Grid Integration for Energy & E-Mobility Partners

- Reduce Cost
- Increase Revenue
- Optimise Renewable
The JEDLIX Business Model and Key Figures

- **5 OEMs** on board covering 60% of EV in Europe
- **8,000+** registered users on the smart charging platform
- Users in **6** countries in 2020
- First company to provide **TSO** services from EV on a commercial scale
- **200 MWh** smart energy charged per week
- **11 utilities** connected on the platform

---

**Key Figures**

**Flow of data**

1. **OEM / User**
   - Telematics and control

2. JEDLIX
   - Virtual Power Plant
     - Energy Utility Integration
     - Energy and Balancing markets
   - Flexibility Revenues

3. Flow of money
   - Revenue Share
   - Flexibility Revenues
User Interfacing Support Various Distribution Models

Prototyping
- JEDLIX app
  - Full operational service testing
  - Panel user feedback collection
  - Value proposition testing
  - Qualify vehicle for balancing services

Launch in specific markets
- BRANDED app
  - Customized messaging
  - Customized value proposition
  - Closer user-OEM interaction
  - Fully hosted and maintained by Jedlix

Continental or global scaling
- INTEGRATED feature
  - Seamless experience in native app
  - Most scalable model
  - In-app cross-selling opportunity
  - Platform integration through backend services

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Innovation Showcase

Kim Chepkoit
Founder & CEO, Ecobodaa
Kenya
Our Innovation

ECOBODAA is Solving the Last-mile connectivity problem in African cities by Leveraging on Data and Rider Behavior to build Africa’s First Connected, Data-driven Electric Motorcycle Taxis (BodaBodas) Designed & Assembled in Nairobi, Kenya for Africa’s Cities
The Problem

Motorcycle taxis are the **biggest** polluter in Kenya’s transport sector.

Riders spend more than **25%** of their daily income on fuel & **3-days income** on servicing every 14 days.

Lack of access to **capital** for purchasing a motorcycle taxi.

Less than **3%** of motorcycle taxi riders in Kenya are women.
Why Cities?

• Rapid rates of **Urbanization** in Africa
• Cities are Major Contributors of **GHG Emissions** within the Transport Sector
• **Easy** to Build Charging/Swap Infrastructure
Innovation Showcase

Sasiranga de Silva
Founder & Lecturer, Electric Tuk Tuk
Sri Lanka
Electrifying Tuk Tuks

Convert to a better future
Present Context

Energy efficient commodity

First mile last mile connectivity

Nearly 1.1 Million tuk tuks

300,000 Two strokes
Problem

- Increasing fuel prices/Higher maintenance cost
- Potential to ban 2-Strokes
- Difficulty in passing emission testing
- Difficulty in meeting global emission standards
- Noise pollution

Electrify

- Tuk tuk as good as new
- Save 1000$ annually
- 65% CO2 reduction per unit
- 1 Million ton annual CO2 reduction
Customer Demands

100km Range

Li-ion battery
5 year warranty

Electrical Safety

Performance

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Our innovation and value addition

Novel conversion method

Locally assembled battery pack

Unique electronics

Regenerative braking
Thank you!

Sasiranga De Silva
ThermalR Industries Pvt Ltd
sasiranga@uom.lk
+94777358765
Innovation Showcase

Isaac Oyedokun
CEO & Co-founder

Esther Ehindero
COO

Trekk Scooters
Nigeria

Micro Mobility | Small is Beautiful.

#IVIW2020
About Trekk Scooters

Trekk Scooters is transforming today’s mobility trend across Nigeria and Africa.

- Trekk Scooters is a Nigeria-based modern transportation company solely leveraging improved and eco-friendly technology to redefine the traditional and arduous means of people’s movement within closed communities.
- Trekk is the pioneer of e-scooters sharing service in Nigeria, paving the way for micro mobility in Africa.
- Trekk Scooters is redefining communities’ access to smart and affordable mobility. Using an efficient, fun and environmentally friendly means of transport, we’re building better people, communities and a greener earth. From one community to another, we’re making the world a better place to live in.

“To revolutionize and innovate transportation system in Nigeria and beyond.”

“To create one of the fastest, eco-friendly means of mobility within communities hence reducing traffic congestions and enhancing the quality of life of an average commuter.”

We are in line with the United Nations Sustainable Development Goals 7, 11&13

SDG 7  “Ensure access to affordable, reliable, sustainable and modern energy for all”

SDG 11 “Make cities and human settlements inclusive, safe, resilient and sustainable.”

SDG 13 “Take urgent action to combat climate change and its impacts.”

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# Our Differentiators

1. Trekk Technology
2. Our Product – Electric Scooters (Modern Alternatives)
3. Zero CO2 Emission, No Pollution & Lower Emission Trip
4. Promotes a Fit & Healthy Lifestyle
5. Pioneer of Micro-mobility in the Nigeria
6. Our Passionate & Dedicated Team

## Humans of Trekk!

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issac Oyedokun</td>
<td>CEO &amp; Co-founder</td>
</tr>
<tr>
<td>Esther Ehindero</td>
<td>COO &amp; Co-founder</td>
</tr>
<tr>
<td>Praise Sakanwi</td>
<td>CTO &amp; Co-founder</td>
</tr>
<tr>
<td>Jean Noel Bayi</td>
<td>CFO &amp; Co-founder</td>
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</tbody>
</table>

23 Strong Volunteers!

Micro Mobility | Small is Beautiful.  
#IVIW2020
Our Decarbonisation Goals

Current State

Our E-scooters have zero emission and provide better alternatives to other carbon driven mode of transport for last miles.

TREKK would drive a decrease in CO2 emissions from on-road vehicles and it would also reduce the traffic because its a shared mobility powered by technology.

Future State

- Solar based e-scooters
- Solar powered hub
- Electric vehicles for scooters deployment
- Solar Panel installed for scooters charging
- Repurposing scooters battery

Renewable energy usage throughout the lifecycle of our scooters.
Our Impact

The Problem

• Only half (53%) of urban residents have convenient access to public transport
• 9 out of 10 urban residents breathe polluted air
• The global mean temperature in 2018 is approximately 1°C above the pre-industrial baseline
• Climate-related and geophysical disasters claimed an estimated 1.3 million lives between 1998 and 2017
• To limit global warming to 1.5°C, global carbon emissions need to fall to 55% of 2010 levels by 2030 and continue a steep decline to zero net emissions by 2050

Environmental Impact: Zero emission, noise pollution reduction, cleaner & safer communities
Economic Impact: Job creation, skill-set and capabilities building of employees, nation building
Social Impact: Educating the populace on micro mobility, Driving renewable energy among young entrepreneurs
Techpreneurship Ideation: DIY

Trekk’s Community Impact

Concerted efforts with the government and policy makers to reduce CO2 emission in Nigeria and other African countries by 2030

Global Impact

Sources:
The Sustainable Development Goals Report 2019
https://www.worldometers.info/co2-emissions/nigeria-co2-emissions/

Figures Don’t Lie!

Micro Mobility | Small is Beautiful
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Our Advice

• Passion: Engage in a project that you are passionate about. Passion is the fuel needed for stormy days.

• Research: Ensure to conduct a thorough research on the project and society you wish to launch. Understand the politics, regulatory framework, economic and social life of such community.

• Creativity: Aim at a project that seeks to solve a problem that is particular to that society

• Consider scalability of the Idea

• Build and Nourish Networks
THINK GLOBALLY!

TREKK LOCALLY!

www.trekscooters.com
Innovation Showcase

Bhaskar Deol
Co-Founder & CEO
eDRV (Netherlands)
Our Mission is to enable the rapid electrification of transportation to help achieve the goals of the Paris agreement
Across the world, entrepreneurs are developing ambitions to own and operate electric vehicle charging as a service for business, cities and regions.
eDRV Innovation

**SaaS for electric vehicle charging network operations**

**Differentiators**

**Plug & Go Zero Touch Charging**
Tesla Supercharger-like plug and go experience to drivers of all electric vehicles

**World's First Public EV Charging API**
First widely available public API for EV charging, with more coming soon

---

**Logos:** Apple Pay, Google Pay, Mastercard, VISA, PayPal, Connectivity, Management, Maintenance
eDRV Paves the Way for Integration of EVs, Storage and Renewables

eDRV combines vehicle and charging endpoints to provide 360° integration of EV charging with demand response, building management, fleets and consumer applications.
Questions
Panel Discussion:
Supporting Youth Innovation in Decarbonising Transport
Supporting Youth Innovation in Decarbonising Transport

Moderator
Noortje van Heijst
Investment Associate, Unknown Group

Panellists
Philippe Vangeel
Secretary General
The European Association for Electromobility (AVERE)

Alexander Körner
Programme Officer
UNEP, Sustainable Mobility Unit

Bhaskar Deol
Co-Founder & CEO
eDRV

Sasiranga de Silva
Founder & Lecturer
Electric Tuk Tuk
Panel II:
Renewable Solutions for Industry and Buildings
11:15 – 12:30 (CEST)
Panel II: Setting the scene

Elena Ocenic
Associate Programme Officer, Innovation Networks, IRENA Innovation and Technology Centre
Decarbonisation pathways to 2050
Innovations for increased renewables in buildings

- Innovative operation of pumped hydropower storage
- Installation of floating solar PV plants on hydro reservoirs
- Regional markets
- Innovative ancillary services
- Behind-the-meter batteries
- Market integration of distributed energy resources
- Internet-of-Things
- Artificial Intelligence and Big Data
- Community-ownership business models

Innovations for access to electricity

- Renewable mini-grids
- Solar home systems
- Behind-the-meter batteries
- Pay-as-you-go model
- Community-ownership model

Innovations for end-use sectors

- Renewable electrification in buildings (solar home systems)
- Energy efficiency of lighting and water heating
- Clean cooking
- Electric Vehicles and Smart charging
Technological pathways for increased renewables in industry

Renewables accounts for 46% of the economic emission abatement potential in industry.

Industry share of total energy and process-related CO₂ emissions in 2017 (Gt).

Industry share of total energy and process-related CO₂ emissions in 2050 Planned Energy Scenario (Gt).

Direct Energy & Process CO₂ Emissions in 2050 (Planned Energy Scenario)

- Iron & Steel: 2.9 Gt
- Cement: 2.6 Gt
- Chemical & Petrochemicals: 2.5 Gt
- Aluminium: 0.6 Gt

24% of total (36.5 Gt) emissions

- Reduced demand and improved energy efficiency
- Direct use of clean, predominantly renewable, electricity
- Direct use of renewable heat and biomass
- Indirect use of clean electricity via synthetic fuels & feedstocks
- Use of carbon dioxide removal measures

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Thank you very much for your attention!

eocenic@irena.org
https://www.irena.org/publications
Innovation Showcase
Joyce Mendez
Latin American Observatory of Geopolitics of Energy
Innovation Showcase

Vaitea Cowan
Co-Founder, Enapter
(Germany)
The AEM Electrolyser

Replacing fossil fuels with green hydrogen.
Only 30% of energy is consumed in the form of electricity (electrons)

70% are used in industry, transport and heating sector (molecules)
Hydrogen

Enapter
AEM Electrolyser

Green Energy Storage

Synthetic Fuels
Fuel Cell
Direct Use

Oil
Gas
Electricity
Water
Industry Feedstock
Heating & Cooling
How is Enapter different?

Think of an electrolyser as a commodity!

1981

2020

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The products today
Hydrogen Application

One Advice: Cooperation
Innovation Showcase

Dwi Rizky Rachmadhani & Ilham Gucci
Founders, Okham
(Indonesia)
The Geographical Diversity makes it difficult to provide Grid Electricity to the Rural Isolated villages.

Extending Electricity Infrastructure

Quality of Electricity Access

Sustainability Problems

No one held responsibility over built RE Assets

Lacking network to service provider

Insufficient technical capacity

Lack of performance and condition monitoring
Overview

“ 

We bring one stop end-to-end solutions to installation owner, government, resident for the abovementioned problems with our professional staffs and hi-tech equipment for providing Inspection, Supervision, Testing, and Training Services

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We Provide **Professional, Futuristic** and **Affordable** Renewable Energy Services

- **Inspection**, troubleshooting and repair solar PV & other RE system
- **Supervision**, monitoring and consulting of solar PV & other RE system project construction
- **Testing** materials, installation and battery storage of RE system to comply with regulation
- **Training** and capacity building for solar PV & other RE system’s manpower

**SEMons**, Smart Energy Monitoring System

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Decarbonization

Converting the conventional fossil fuel to Renewable Energy

Massive utilization of Renewable Energy

Co2 intensity of Gross Domestic Product

More people invest in Renewable Energy

Public Engagement
Impacts

Impact of Okham Innovation for Society

- **Economic Dimension**
  - GDP – Increase in per Capita Income/year
  - Consumption and Investment

- **Social Dimension**
  - Employment
  - Spending on Health
  - Education

- **Environmental Dimension**
  - Greenhouse Gas Emission
  - Material Consumption

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Success - Challenge

**Challenge**

- Geographical Diversity
- Information Barrier

**Success Factor**

- Availability of Technology - Maintenance Scheme
- Networks Development
- Local Government and Other Stakeholders Support
- Community Participation

#IVIW2020
Innovation Showcase

Esther Wanza
Energy Business Mentor, Energy 4 Impact
(Kenya)
Introduction - About Energy 4 Impact

Overview
Non-profit organisation working with local businesses to extend access to energy in Africa. Supported over 5,000 energy access businesses in the last 12 years. Deep insight into energy access and markets across Sub-Saharan Africa.

Our Services include:

- Enterprise Support
- Financing
- Innovative Models
Overview – Innovation

About S-WIRE Project.

- Taking advantage of technology, resources and science to build more sustainable and resilient businesses for women entrepreneurs.

- Energy 4 Impact conceptualized, designed and developed Jiko Smart.

- Jiko Smart has superior performance characteristics over majority of locally developed and produced stoves models and is fairly priced for affordability.

- Energy 4 Impact supported its dissemination through selected groups of entrepreneurs from Central, Kisii and Kisumu clusters.

S-WIRE workstreams – what and why

- Technical and Business training
- Mentorship and monitoring
- Market Development
- Capital access
## Decarbonising goals

<table>
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<tr>
<th>Outcome Objective</th>
<th>Indicator</th>
<th>Target</th>
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<tbody>
<tr>
<td>Increased access to clean energy through adoption of clean energy products</td>
<td>Number of individuals served by the entrepreneurs supported by the project</td>
<td>103,000</td>
</tr>
<tr>
<td>Enhanced environmental sustainability</td>
<td>Tonnes of CO(_2) mitigated (computed based on the 4-year average life expectancy of the expected cookstoves sold)</td>
<td>62,000</td>
</tr>
<tr>
<td>Scaled up dissemination and distribution of improved cookstoves</td>
<td>Number of improved cookstoves distributed (all types)</td>
<td>34,500</td>
</tr>
<tr>
<td></td>
<td>Number of improved Jiko Smart cookstoves distributed (additional)</td>
<td>10,300</td>
</tr>
<tr>
<td>Employment Creation</td>
<td>Number of jobs created (skilled and unskilled labour)</td>
<td></td>
</tr>
<tr>
<td>Cookstoves enterprises supported to manufacture and distribute improved cookstoves</td>
<td>Number of women entrepreneurs supported</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Number of trained on production of Jiko Smart</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Number of work plans developed</td>
<td>150</td>
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## Impact

<table>
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<tr>
<th>Impact</th>
<th>Indicator</th>
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<tbody>
<tr>
<td>Employment</td>
<td>• 457 people employment, 47% of whom are women.</td>
</tr>
<tr>
<td>Income generation</td>
<td>• Total value of goods sold UC$482,894,</td>
</tr>
<tr>
<td></td>
<td>• Monthly sales increased by $7,787.</td>
</tr>
<tr>
<td>Women empowerment</td>
<td>• 167 entrepreneurs supported.</td>
</tr>
<tr>
<td>CO2 reduction</td>
<td>• 166,901 tonnes of CO2.</td>
</tr>
<tr>
<td>Clean energy dissemination</td>
<td>• 212,613 people benefiting from clean cooking, 106% above target.</td>
</tr>
<tr>
<td></td>
<td>• 388 units of solar lanterns.</td>
</tr>
<tr>
<td></td>
<td>• 1002 units of solar home systems.</td>
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<tr>
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<td>• 47,259 kilograms of briquettes.</td>
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Challenges and Interventions

Challenges

- **Finance** - As innovations involve risk, finding capital to support research and development, pilot studies or field trials can be challenging, particularly in emerging markets.

- **Illiteracy** - Due to the age factor and illiteracy, most trainings took longer time.

- **Business models** - Poor business models.

- **Lack of government support** and unfavorable operating environments.

Proposed Interventions

- Innovative financing models for energy service delivery & access.

- Technical advisory (TA) and capacity building to energy energy access as an enabler to address other challenges in the community.

- Enterprise & livelihood support in energy intensive value chains.

- Leveraging on existing institutions/infrastructure to improve last mile delivery (LMD) of clean energy services.
Advice

- Existence of opportunities to leverage on e.g. market development and distribution.
- Proposal development for funding.
- Bridging the illiteracy gap through building the capacity of local entrepreneurs.
- Youths should take advantage of the available business incubation opportunities in their localities.
- Role to play in promoting most efficient and cost-effective technologies and business models in off-grid markets.
- Productive use of Energy in creating strong food systems.
- Entrepreneurship plays a key role in accelerating deployment of Renewable Energy technologies.
- Benchmark and exchange- programs.
Thank you for listening

Contact information: Esther Wanza
Esther.Wanza@energy4impact.org
+254726451127.

For more information visit:
https://www.energy4impact.org/what-we-do/what-we-do
Innovation Showcase

Peter Paul van Voorst
Founder, Skoon Energy
(Netherlands)
Clean Energy On Demand
The mobile energy platform
We Enable Mobile Clean Energy on Demand

SKOON SHARING
Clean Energy Marketplace

ASSET OWNERS
Mobile Batteries and Hydrogen Generators

SKOON SUITE
Rental Management Software for Asset owners

CUSTOMERS
For Data

ENERGY USERS
Construction, Entertainment, Maritime etc.

#IVIW2020
Leading Software Solutions to Enable Decarbonisation

SKOON SUITE
Rental Management Software

SKOON SHARING
The Clean Mobile Energy Marketplace

#IVIW2020
Our Impact Stretches Local and Global Communities

Reduce local emissions by replacing diesel generators

Saving 14,000 tons of CO2 on a short term

Provide scalable software to enable growth of clean energy storage

Facilitating management of hundreds of clean energy storage assets

Empower people and business to attract investment in clean energy projects

Attract millions of funding

SKOON

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What Experts Have Advised Me To Do

**THINK BIG**
Don’t sit back, think big and act now. Help and resources are out there, all that’s needed is your limitless energy.

**SUPPORT EACH OTHER**
It’s about numbers, so support each other by following, liking and interacting on- and offline.

**LOOK FOR BUSINESS CASES**
The status quo will only be convinced by real opportunities and business cases.
Help us Accelerate the Transition

We are looking for strategic investors to scale our software development, sales and marketing teams.

We look forward to speaking with you!

Peter Paul van Voorst
peterpaulvanvoorst@skoon.world
+31617745012

Daan Geldermans
daangeldermans@skoon.world
+31643690879
Innovation Showcase

Jeremiah Thoronka
Optim Energy
(Rwanda/Sierra Leone)
We are Optim Energy. We are an innovative energy start-up that uses kinetic energy and vibration in bringing clean and affordable electricity to homes in rural areas.

Our piezoelectric devices harnesses energy from pressure, heat and vibrations all which naturally occur in the environment in making energy accessible to residence in rural areas.
Our business model and social impact strategy aims to promote the transition to an emission-free energy market. Our decarbonisation goals are aligned with the sustainable goals, OE aims to:

- Maintaining a 100% carbon free emissions from our generating capacity;
- Promoting circular economy in our areas of operation and among consumers; and
- Promoting the use of the optim energy online calculator as a tool to help our consumers in making energy efficient decisions.
Impact

- One hundred and fifty (150) households and fifteen (15) schools electrified free of cost during our prototyping phase.
- Over one thousand five-hundred (1500) residences and over nine thousand (9,000) kids provided with electricity.
- Facilitated a 5% efficiency and a 70% growth in energy service continuation and voltage stability where we operate.
- Decrease in greenhouse gas (GHG) from the local community through awareness and a collaborative effort towards protecting the remaining forest cover.
- Decrease in health issues among students and young people caused by Photochemical smog.
- Increase in economic activities in the local community.
Youth Action

As youths our future “will be what we make out of it”

Take time to build on your skills, knowledge, and the people around you. Whatever solution you’ll be bringing it should help in promoting the circular economy concept and in getting us closer to achieving the SDG’s.

“The future is green, let me it stay that way”
Thank you

Jeremiah Thoronka
Founder: Optim Energy (Sierra Leone)
Email: jeremiahthoronka1@gmail.com
Phone: +250780226589
Twitter: @JeremiahThoron
Panel Discussion:
Supporting Youth Innovation in Decarbonising Industry and Buildings
Supporting Youth Innovation in Decarbonising Industry and Buildings

Moderator
Joyce Mendez
Latin American Observatory of Geopolitics of Energy

Panellists
Ernesto Ciorra
Chief Innovability Officer
Enel

Thaddeus Anim-Somuah
Engineering Manager
Croda

Esther Wanza
Energy Business Mentor
Energy 4 Impact

#IVIW2020
Thank you!

Coming up next:
Session 8:
Re-cap and Wrap-up: The Way Forward

today at 2 pm (CEST)

Register at
https://innovationweek.irena.org/