







# Greening Africa Together



Technische Universität Berlin

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# Our brilliant team

#### **TU Berlin/HTW Students**



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# Our Partners













Hochschule für Technik und Wirtschaft Berün

Interesting of Applied Deserves.







# **Project Overview**

- Problem: Lack of energy infrastructure in a Orphanage for abandoned children in Kinsenso/Kinshasa
- **Solution:** Rooftop Photovoltaic Standalone (Offgrid) System



#### Project Overview: Location

- Name of Orphanage: Centre d'hebergement bomoyi I
- **City**: Kinseso/Kinshasa, Democratic Republic of Congo
- Number of beneficiaries: 26 girls and 3 keepers
- **Coordinates:** 4.41°S/15.35°E





#### Project Overview: Specific Needs

- Basic lighting
- Connection of other possible AC appliances
- Charging station for mobile phones to allow sustainability
- Water pump installation
- Increase of general life quality
- Allow Jobs in a sewing workshop with 5 machines



# Scenario: PV System with Solar Water Pump all components bought in the DRC



# Sustainability

- Workshops onsite: Maintenance and cleaning of the components.
- Educational approach: Turn off the lights!, Posters with facts and steps and procedure manuals and financial management of the incomes.
- Mobile Charging Station
- Possible future implementation of an Source control device









# Potential risks

- Financial (Management)
- Security
- Natural disasters
- Supply chain
- Implementation
- Operation & Maintenance



### Project Overview: Timeline







Federal Ministry for Economic Cooperation and Development





Investigest appoint thereas

# Matondo!



Feedback? Questions?





