Environment & Sustainable Energy for Immunisation Supply Chains – and Health

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TechNet 2017
Environmental Sustainability in Immunization as a way to meet SDGs
Climate Change Resilience

Public Health Sector is among the key priority areas to address climate change risks and impacts

CLIMATE CHANGE MITIGATION

*through low-carbon tech R&D*

- Environmentally-sustainable approaches and technologies for health centers, cold chain & transport
- Support the shift to low-carbon technologies in the immunization and health sectors to reduce GHG emissions
- Leverage investments in low carbon development

CLIMATE CHANGE ADAPTATION

*through resilient development*

- Robust energy access and cold chain
- Leverage climate finance
- Strengthen health services to cope with additional demands and stresses posed by climate change
Environment & Sustainability entry points in the life cycle of a vaccine

Integrating environmental sustainability management (ESM) in the vaccination programme

- Production
- Transportation
- Storage
- Sustainable transportation and efficiency planning
- Health center
- Waste disposal

- Resilient and sustainable immunization services for children

- Applying an environmental lens to procurement regarding products, equipment and packaging
- Improved supply networks through sustainable transport and efficiency planning
- Sustainable energy can improve the resilience of energy access and the cold chain
- Improved supply networks through sustainable transport and efficiency planning
- Sustainable energy can improve the resilience of energy access of health centers for cooling vaccines and other services
- Sustainable waste management
Environmentally - responsible Equipment & Packaging

• Whole-lifecycle product design
• Sustainable procurement policies
Waste Management

• Gain learning experience through technical cooperation

• Segregation, collection, disposal of defective vaccine refrigerators, solar batteries nationally and infectious sharps waste in townships

• Mobile App for credit incentives to waste handlers
Environmentally-responsible Network Design

• Consider environmental efficiencies of supply chains
Reliable, sustainable Energy for Health - incl. Immunization

- **EPI energy picture in transition** – pooled rural development initiative (through 2021)
- **Combination of grants & government resources (loans)**
- **From hybrid vaccine storage systems** – to prefab solar powered clinics - to cross sectorial programme planning (Health, WASH, Education, Social Policy)
### Partnerships for Environment & Sustainability in Immunisation & Health

<table>
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<tr>
<th>Financing</th>
<th>Community</th>
<th>Private Sector</th>
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<tbody>
<tr>
<td>• Pooled financing initiatives in country (incl. GAVI HSS)</td>
<td>• Fee-for-service community-owned and managed solar micro grids</td>
<td>• Public-private models for design and implementation</td>
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<td>• Financing of carbon-neutral supply</td>
<td>• Sustainable maintenance arrangements</td>
<td>• Engagement of cellphone service providers</td>
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In conclusion

Focusing on environmental sustainability has the potential to improve the effectiveness and efficiency of the immunization programme.

Sustainable approaches to immunization can pave the way for delivery on cross-cutting SDG issues.

Pooled financing helps strengthen communities and improve health care in a holistic manner.