

# CCTCN

**Discussions on request generation ideas to  
contribute to year 2021 work plan**

*Virtual Regional Meeting for the NDEs*



# COVID- Medical Waste Management

## Objectives:

- Develop safe management of the biomedical waste from the “quarantine facilities” and “high risk clusters”
- Identify the best technology ( incineration) and localization of the technology.
- Training and capacity building for operation and maintenance of the technology.

- Autoclave
- Sterilization
- Twin-chamber incineration,
- Brick-built De-Montfort incinerators,
- Barrel incineration with air induction and
- On-site pit burial

Technology Options

# Framework of Activities

- Develop a methodology for estimation of the volume of the bio-medical waste due to COVID 19 quarantine centers and hot spot clusters, based on the secondary data.; and estimation of the volume of the waste which requires disposal.
- Study current practices of disposal and the capacity in the country/city
- Development of quick and simple guidelines for segregation and collection and disposal. This include the best practices from developed countries but adapted to local infrastructure and conditions.
- Identification of technology (incinerator) for their different volume of waste to be disposed viz – 500 kd/day; 1000 kg/day and 2000 kg/day and the schematics of various components.

- Development of specifications for the technology to ensure safe environmental practices – dioxin, temperature at the outlet, ash disposal etc.
- Design and fabrication of technology on a pilot scale at a local level.  
Installation and startup of the technology.
- Development of an operation and maintenance manual for the technology.
- Virtual training for the plant operators

# TA TRENDS

## Circular Economy

- Address broad range of concerns along a multitude of different bio-based value chains
- Integrated approach with socio economic benefits to leverage large scale financing
- Revive the attractiveness of complicated technologies like large biogas to power generation through valorization of waste and side stream

## Urban Resilience / development

- Integrated approach for urban adaptation and mitigation (e.g., vulnerability/risk assessment and adaptation planning, ecosystem-based adaptation intervention and urban planning for smart city)
- Early warning and environmental assessment system (e.g. hydrodynamic modelling and data management) to reduce risk of urban flooding in coastal area
- Enhancement of energy efficiency in building sectors and sustainable transportation

## E-mobility

- Policy gap analysis and regulations on E Mobility – Emobility Policy
- Feasibility studies and roadmap development to leverage large scale financing
- Procurement of E Vehicles and supporting infrastructure

## Industrial Energy Efficiency

- Energy efficient operations for water utilities, metal sector and power plants
- Energy baselining and standardization of equipment
- Development of skilled EE workforce through certification system
- On job trainings, manuals and SOPs for Energy efficient operation

June Momentum for Climate Change

## VIRTUAL EVENT

08.06.20 | 15:00 – 16:00 CEST

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**TEC**

**CTCN**

CLIMATE TECHNOLOGY CENTRE & NETWORK

## TECHNOLOGY MECHANISM

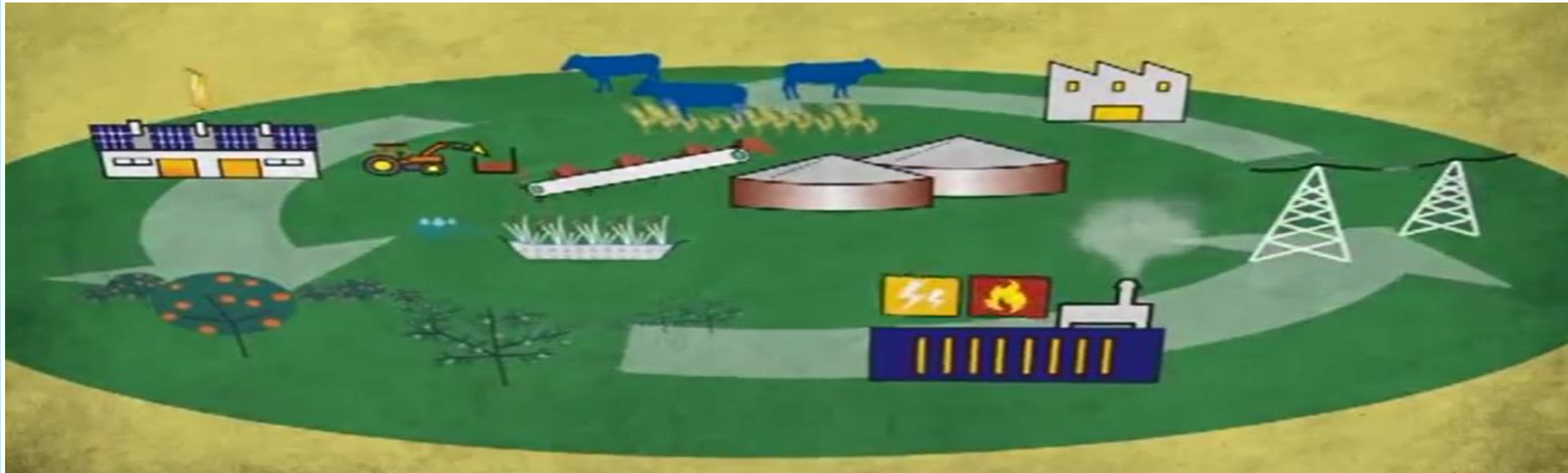
ramps up its work  
to help countries  
scale up  
climate action  
on technology

# Previous experience of CTCN's intervention

- **Circular Economy**

- (Tonga) Circular Economy project- Biogas feasibility study

*Assessment of bio-based value chain using circular economy approach to support the feasibility study of large-scale biogas to energy projects of 0.5 MW size*



# Previous experience of CTCN's intervention (cont.)

- **Urban resilience**

- (Sri Lanka) Development of Kurunegala as a climate smart city (Adaptation element)

*A manual for adaptation planning would help local government officials take action to reduce climate risk at city levels*

- (Lao PDR) City climate vulnerability assessment and identification of ecosystem-based adaptation intervention

*Established Plans to use wetlands would reduce flood risk and deliver environmental benefits in cities of Lao PDR*





# Previous experience of CTCN's intervention (cont.)

- **Urban resilience (cont.)**

- (Indonesia) Hydrodynamic modelling for flood reduction and climate resilient infrastructure development pathways in Jakarta

*Capacity of relevant government agencies to formulate policy and action plans to reduce flooding and support sustainable city planning in Jakarta would be improved*

- (Thailand) Strengthening Bangkok's early warning system to respond to climate induced flooding

*Municipal planning to reduce loss of economic productivity and property due to flooding would be improved (increase in safety and transportation efficiency of the city)*



# Previous experience of CTCN's intervention (cont.)

- **E-mobility**

- (Nauru) Feasibility study for sustainable land transport in Nauru

*Evaluating the current policy, technology and market environment will set the framework for a national low emission transport plan*

- (Indonesia) Support for e-mobility transition in Jakarta

*Investment plan and procurement program to deploy the fleet of electric buses and supporting charging infrastructure and rooftop solar*



# Previous experience of CTCN's intervention (cont.)

- **E-mobility (cont.)**

- (Cambodia) Development of low-emission mobility policies and financing proposal for Cambodia

*An action plan to implement sustainable and low carbon transportation and a financial proposal to support sustainable transportation*

- (Pakistan) Deployment and scaleup of electric vehicles in Pakistan

*GCF readiness on the review of policy, market readiness and undertake feasibility on the market uptake of the electric vehicles*



# Previous experience of CTCN's intervention (cont.)

- **Industrial energy efficiency**

- (Bangladesh and Pakistan) National certification system for energy auditors

*Trained and certified energy workforce that drives the energy efficiency in industries through a national certification scheme comprising training modules will be generated.*

- (Thailand) Benchmarking energy & GHG intensity in Thailand's metal industry

*Implementing energy efficiency in steel industry through benchmark on energy consumption and supporting tools (energy reporting guidelines and manuals on energy efficient operation) will be implemented.*



# Previous experience of CTCN's intervention (cont.)

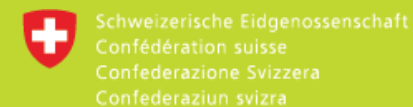
- **Industrial energy efficiency (cont.)**

- (Solomon Islands) Solomon water & energy efficiency and self-generation plan

*Energy audit of the water pump stations at Solomon Water Authority to recommend on investment on EE measures and technical specifications for procuring EE measures. Training and operational manual on EE measures.*



## Supported by



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