ECC Presentation

ECHO

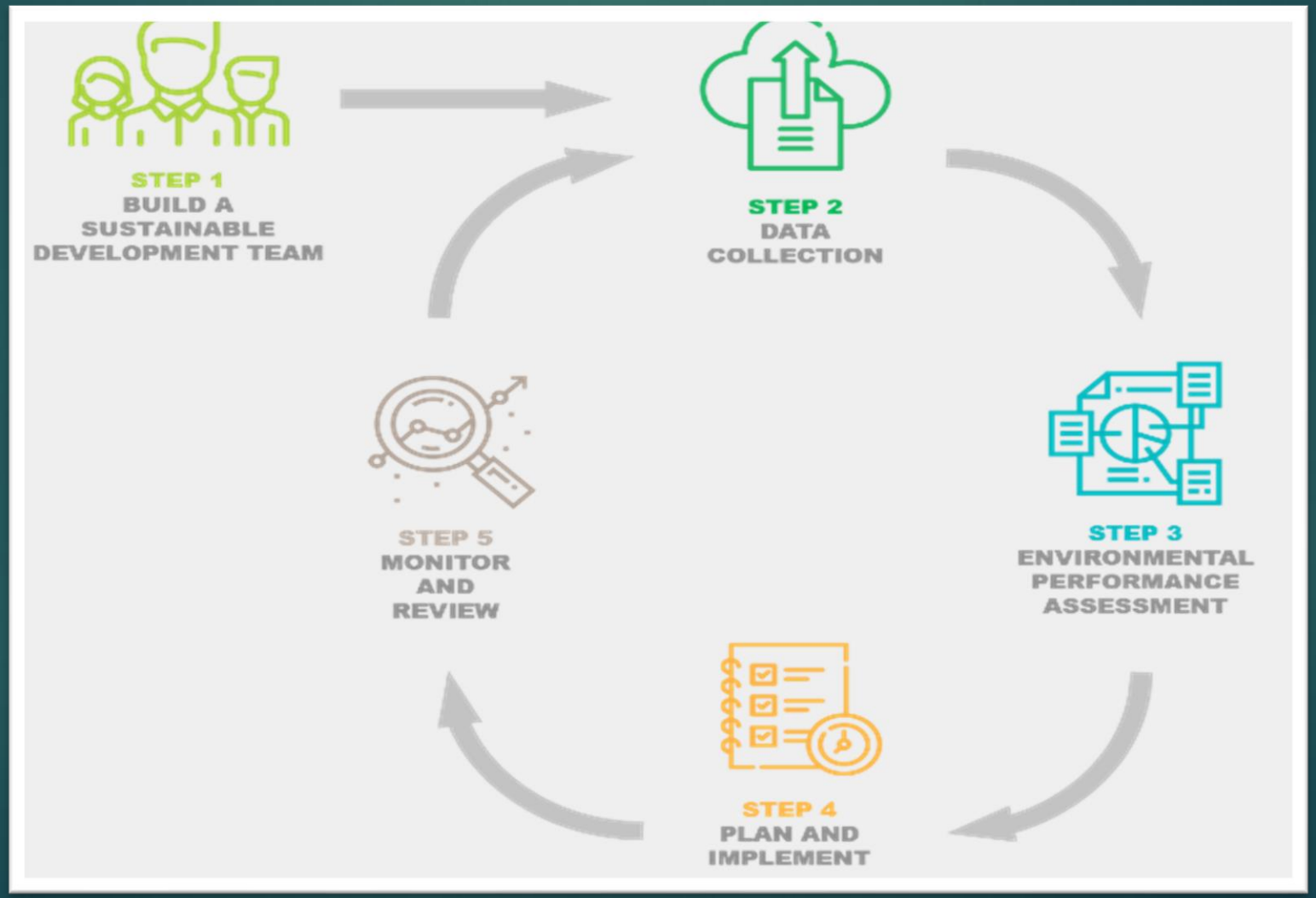
24/10/2022

Agenda

- Introduction
- Sustainable Delegation Process
- Action Planning
- Examples of Sustainability Measures
- Q&A

Sustainable Delegation Process

"What you can't measure, you cannot manage. What you can't manage you cannot change."



Action Plan Template

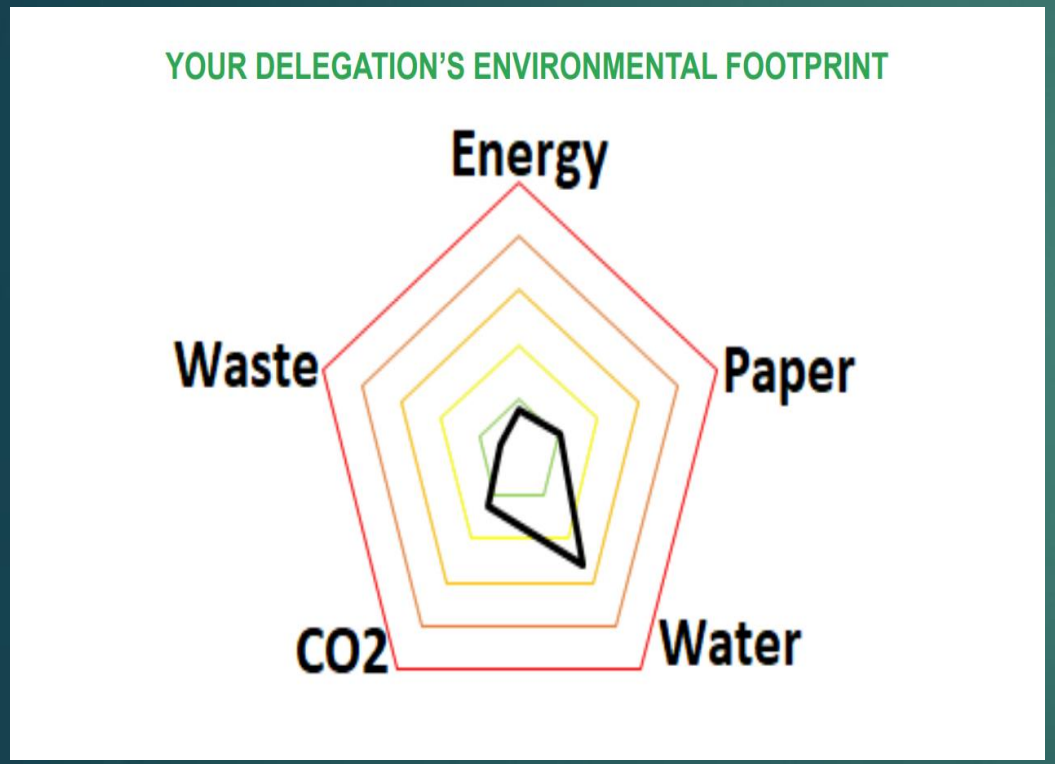
Action Plan template for 2018-2019

Delegation: _____Date:_____ Head of sustainable development working group:_____

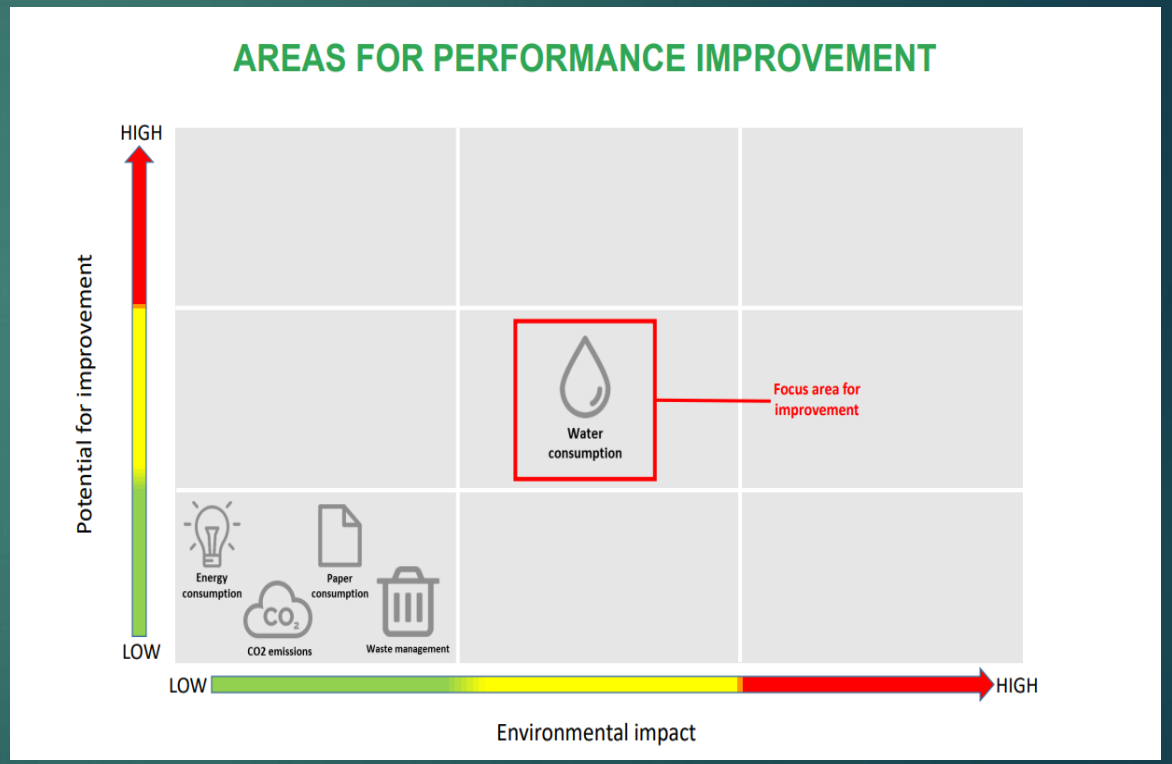
Quantitative indicators	Current results from 06.01.2016	Target results for 2018-2019	Priority (1 high – 5 low)	Intended actions to accomplish this (ex. communication campaigns, external partnerships etc.)	Estimated purchasing/service cost	Estimated benefit from this action	Group member responsible
EN 1: Energy consumption by primary energy source							
E2: Water consumption							
E3 Waste: paper consumption							
Qualitative areas	**Current waste disposal method**	**Intended improvement**	**Priority (1 high – 5 low)**	**Intended actions to accomplish this (ex. communication campaigns, external partnerships etc.)**	**Estimated cost for set-up and maintenance**	**Estimated benefit from this action**	**Group member responsible**
• Batteries							
• Electric and electronic devices							
• Toner and printer cartridges							
• Paper							
• Plastic							
• Glass							
• Aluminum							
• Organic waste							

Nairobi Delegation Example

2021 Dashboard



2021 Areas for Improvement



Methods Used to Reduce Impacts

Change behaviours & practices

Technical solutions

Erbil Water Example

Technical Solution

2018

2019

Behavioural Change

- 2018 Erbil installed a 400 Litre rain water harvesting system.
- 2019 they expanded this system to 27,400 Litres.
- Rainwater is used for landscaping and car washing.
- Reduce their water consumption by 15 M3 (15,000 Litres).
- Considerable reduction in water consumption.

Sukhumi Waste Example

Technical Solution & Behavioural Change

Statistic before and after implementation of the initiative: 2017 960 ea of 0.5 L (June) + 780 1.5 L (July, August) bottles of water - total: 1740 plastic bottles dumped. 2018 1200 ea of 0.5 L (June) + 360ea of 5 L (July, August) - total: 1560 bottles dumped. A 10% improvement 2019 10 ea of 19 L – total 0 bottle dumped. The bottles still in use by Forensic department in laboratory and in the field. Due to the changes done we significantly reduced the water costs (35'400 RUB/542 CHF-2018; 12'800 RUB/196 CHF - 2019) and stopped producing plastic garbage.

Nairobi Energy Example

Nairobi Delegation replaced 540 lightbulbs to LEDs. Cost benefit analysis stated;

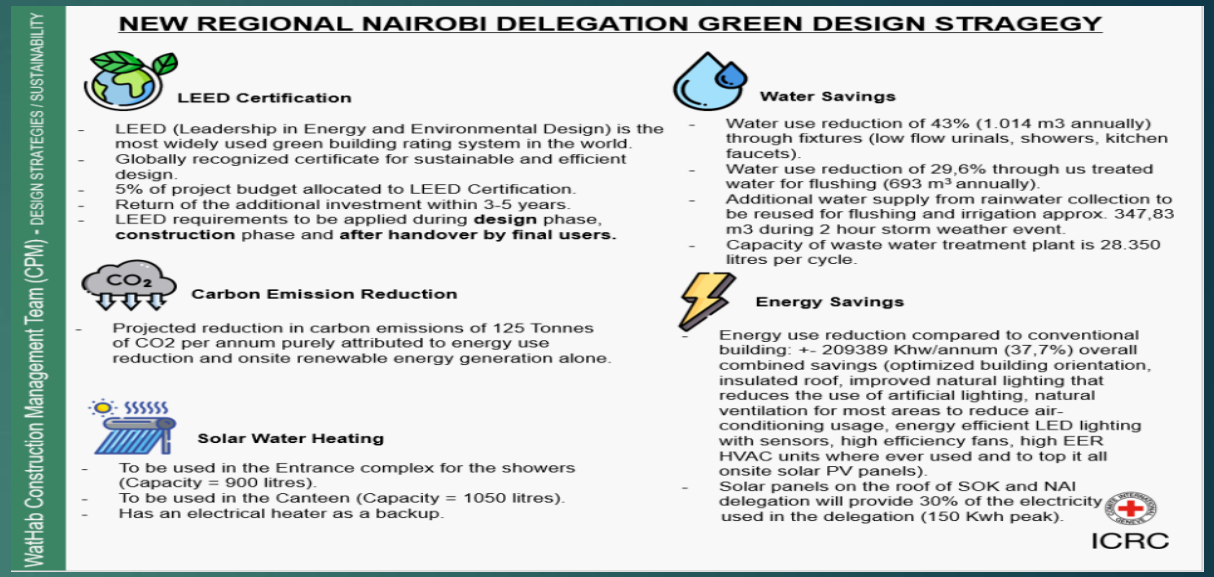
- total energy consumption for the old bulbs was 78,484 kWh (kilo watt hours) annually.
- LEDs was 53,460 kWh annually.
- Savings of 9,463 USD a year.
- Payback period was estimated at 1.2 years.
- Minimal risk was identified LEDs came with a warranty of 2 years.

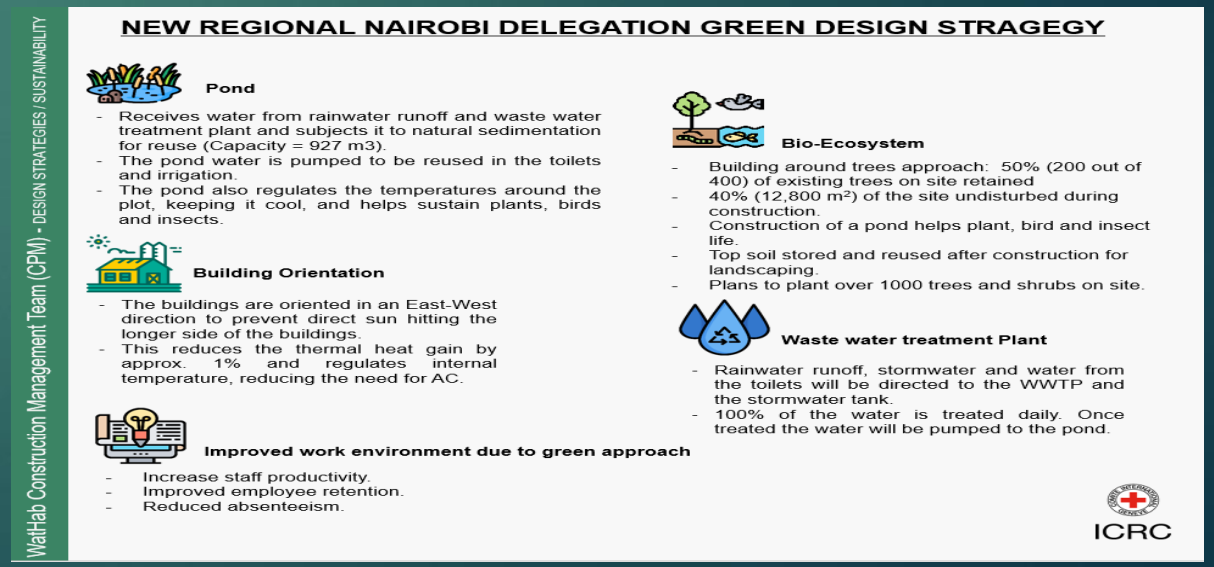
$$\text{Payback period} = \frac{\text{investment/ cost of the project}}{\text{Annual savings}}$$

The payback period is approximately 1.2 years (US$ 11,401/ US$ 9,463) and the risk of replacement costs is very low as the LEDs should come with a two-year warranty.

Water Case Study – Nairobi New Delegation

- Installation of dual flush toilets
- Installation of flow aerators in faucets
- Sewage Treatment Plan – recycled water used to flush the toilets
- Centralised pond to collect rainwater
- Low flow urinals





Water Saving Initiatives

- Dual Flush Toilets
- Low flow faucets and urinals
- Flow aerators
- Rainwater collection
- Sewage Treatment Plant (SWTP)
- Pressurised car wash
- Installation of water sensors
- Decreasing flush volumes by placing water containers in cistern – Ukraine
- Collection of water that drips from AC units
- Installation of solar water pumps
- Some delegations are looking into installing water meters.

Energy Mitigation Measures

- Old AC units being replaced with new inverter types – South Sudan
- Installation of Solar P.V. to provide 35% of electricity – Tartous Logistics center
- Purchasing a mechanical treadmill instead of electrical – Kabul
- Installation of smart energy sensors – many sites
- Use of solar pumps for garden and car wash – Bujumbura
- Installation of solar security lights – Bangui
- Installation of LED lights – Brasilia
- AC set temperature – Bangkok
- Procurement of more E.V. vehicles – Amman, Nairobi, Bangkok
- Nairobi new delegation solar p.v., motion sensors, led lights
- Energy Audits

Waste Mitigation Measures

ICRC Islamabad signed an agreement with Saaf Suthra Sheher (SSS), a company based in Islamabad, to collect all the recyclable waste without letting any of it go to a landfill or to an environment and socially harmful industry. In 2020 even though offices was closed, cities were under lock down, but the ICRC ISL team managed to recycled a big burden of waste!

Along with our partner organization (Papu Recycles) we managed to recycle 967 kg of solid waste. Around 708 kg of paper/cardboard, 37 kg of plastic, 16 kg of metal, 111 kg of glass and 95 kg of tetra pak were recycled and reused.

It saved the environment from degradation and was cost effective as well. With this small effort we saved around 12 trees, 18,762 liters of water and 03-megawatt electricity. It was our small effort to save recyclable waste for reuse

Waste Mitigation Measures

- Turning old pallets into furniture – Tartus Logistics Centre
- Recycling old and used tyres into paving bricks – Abuja
- Working with WFP to collect recycle old car batteries – DRC sites (batteries taken to Rwanda for recycling)
- Used oil from South Sudan sent to Uganda to be reused by cement factory (QSE assessments done on facilities in Uganda – Juba
- Donation of old laptops to Kenya Red Cross – Nairobi
- Nairobi did a trial of sending old tyres to a pyrolysis plant
- Replace 5L disposable plastic water bottles with 20L reusable water bottles – Sukhumi

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