Sustainable Development Goals and Climate Change: Challenges and Opportunities

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Location of Nepal
Silent Features of Climate Change

- Temperature raise: 0.056 degree Celsius/year
- Rainfall: Erratic, too much in summer and too little in winter
- Vulnerability status
  - Climate Change Vulnerability Index-2011 (by Maplecroft): 4th/170
  - Climate Change Risk Index-2018 (Germanwatch): 4/187
  - Earth Quake Vulnerability Index: 11th
  - The most disaster prone countries: 20th
- Nepal contribution to global greenhouse gas emission (GHG): 0.027%
- Drought Affected Area: 135942 ha

- Population: 30 million
- Country Area” 147181 km²
- Protected Areas: 23.39%
- GDP Per Capita: 1000US$+
- Status: Least Developed Country
Climate Change: Life and Livelihoods
Landslides and Floods
Climate Change impacts
Road Blocked in Earthquake 2015 and Its Impacts on Trade and Economy
Transportation problem in the Hills
Drinking water problem
Climate induced disasters in Nepal

More than 75% of natural disasters are related to extreme meteorological events and results in 62% and 80% of economic and human loss and damage annually

- floods,
- landslides,
- snow avalanches,
- Glacial Lake Outburst Floods (GLOF),
- hailstorms, windstorm
- thunderstorms,
- cold waves, heat waves,
- Drought, dry spells and epidemics.
Climate Policy and Priorities

- National Development Vision/SD Goals (2030)
- Middle Income Country by 2030, GDP growth rate of 9%

- 14th Three Year Plan (2016/17 – 2018/2019)
- Investments by Private Sector

- Climate Change Policy (2011)
- National Adaptation Programme of Action (NAPA)
- Local Adaptation Plans for Action (LAPA)
- Nationally Determined Contributions (NDC, 2016)
- Low Carbon Economic Development Strategy (Draft)
- National Adaptation Plan (NAP) (under preparation)

- Forests and Biodiversity
- Agriculture
- Water and Energy
- Industry and Transport
- Health

- Gender and Social Inclusion
- Governance
- Livelihoods
Nature Based Solutions

Resilience through Solar Home System

Resilience through Forage based Goat Keeping
Nature based Solutions

Water for irrigation

Water for drinking

Rural development

Micro-enterprises

Indigenous knowledge and technology

Water for fishing

Cooking stove

Organic Farming
Integration of Climate Actions
Ways Forward

- Policy and institutional reform
- Nature based solutions:
  - Adaptation
  - Mitigation
- Transportation and Trade
- Renewable clean energy
- Health and resilience

Young Mobilization
Thank You