

LoCARNet 8th Annual Meeting Program

Climate Change Policies and Roles of Research Communities in Cambodia

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Outlines

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- II. National Policies to address climate change**
- III. INDC Mitigation Target**
- IV. Research cooperation with research communities and
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I. Cambodia at Glance

Key government policies:

- Sustainable Development Goals (SDGs)
- Rectangular Strategy
- National Strategic Development Plan (NSDP)



Environmental and development challenges

- Population growth
- Water accessibility
- Climate Change
- Ecosystem Loss
- Pollution
- Poverty
- Education

Current socio-economic development

- Population: 15.3 million
- Poverty: less than 10%
- GDP growth: 7.1%
- GDP per capita: 1.706\$
- GDP share:
 - Agriculture: 24.0%
 - Service: 39.7%
 - Industry: 30.3%
- Tourist: 6.2 Mil (2018)
- Electricity consumption (2018):
 - 86.9% of villages and
 - 72.2% of households electrified
- Forest cover: 50%
- Improvement of Road/rail transport
- Per capita emissions 0.23tCO₂ in 2000 and were expected to reach 1.3 tCO₂ by 2050.

Development target:

- Population: 18.39 mil (2030) & 21.96 mil (2050)
- Industrial share: 30% by 2025
- Forest: 60% (2030)
- Electricity:
 - => 100% villages electrified (2020)
 - => 70% households electrified (2030)
- Economic development targets:
 - => 2030 High middle income country
 - => 2050 Developed country
- Tourist: 10 mil (2025) and 15 Mil (2030)

II. National policies to address climate change

- Law on Environment and Natural Resources Management (1996)
- National Strategic Plan on Green Growth (2013-2030)
- UNFCCC 18 December 1995
- Kyoto Protocol 04 July 2002
- Climate Paris Agreement 22 April 2016
- Climate Change Strategic Plan (2014-2023)
- Intended Nationally Determined Contribution 2015 (27% of emission reduction 2030)
- A design of a roadmap for implementing the INDC 2020-2030
- National Strategic Development Plan

- Fist BUR (ongoing)
- Third National Communication (on going)
- Sub-decree on waste water and solid waste management (1999)
- Sub-decree on air pollution control 2000
- National policy and strategy on transport
- Sub-decree No.113 on Municipal waste management 2015
- Sub-decree No.168 on Plastic bag management 2017
- Sub-decree No.16 on Electronic waste management 2016
- NAPA
- NAMA/MRV
- REDD+

III. INDC mitigation target

Sector	Priority actions	Reduction (Gg CO ₂ eq.) 2030 compared to BaU
Energy Industries	<ul style="list-style-type: none"> - Grid connected renewable energy generation (solar energy, hydropower, biomass and biogas). - Off-grid electricity such as solar home systems, hydro (pico, mini and micro). - Promote energy efficiency by end users. 	1,800 (16%)
Manufacturing Industries	<ul style="list-style-type: none"> - Promote use of renewable energy and adopt energy efficiency for garment factory, rice mills, and brick kilns. 	727 (7%)
Transport	<ul style="list-style-type: none"> - Promote mass public transport. - Improve operation and maintenance of vehicles, and the increased use of hybrid cars, electric vehicles and bicycles. 	390 (3%)
Others	<ul style="list-style-type: none"> - Promote energy efficiency for buildings and more efficient cook-stoves. - Reduce emissions from waste through use of bio-digesters and water filters. - Use renewable energy for irrigation and solar lamps. 	155 (1%)
Total Savings		3,100 (27%)

IV. Research cooperation with research communities and academia

- **The General Secretariat of the National Council for Sustainable Development (GSSD) signed MoU with 5 universities on cooperation in the field of sustainable development in Cambodia.**

- The GSSD signed **MoU** with **STEM** Education Organization for Cambodia & **STEAM** Cambodia to strengthen, promote, and develop co-operation in the field of environmental and natural resources education for school/university level students.



- Organized “Science and Technology Cocktail” in 2018 to brainstorm and encourage youths to be interested in Science, Technology, Engineer and Mathematics (STEM).



- Jointly organized public awareness raising on science and technology with the Royal University of Phnom Penh in 2019.



- Jointly organized awareness raising programme on science, low carbon technology, and innovations with Battambang Technology University in 2018.



- Jointly organized a Workshop on Science and Technology Today is the Future of Life with Union of Youth Association of Cambodia on 26 October 2019 at the Institute of Technology of Cambodia.



- Co-organized a workshop on Nuclear Technology and Innovation with Swayrieng University on 30-31 October 2019.



- Delivered a presentation on national policy and strategy related to energy efficiency during the workshop on Sustainable city “Using of Energy-Efficient Street Lights for Smart City” on 31 Oct 2019 co-organized by the General Secretariat of the National Council for Sustainable Development and MinebeaMitsumi’s company.



V. Next steps

- Continue cooperate with academia and research institute to promote science and technologies;
- Mobilize support to implement climate change mitigation related projects;
- Mobilize support from development partners and key stakeholders (IGES/NIES) for capacity building and research cooperation; and
- Promote public awareness raising on science and technologies for climate change responses.

Thanks for kind your attention!