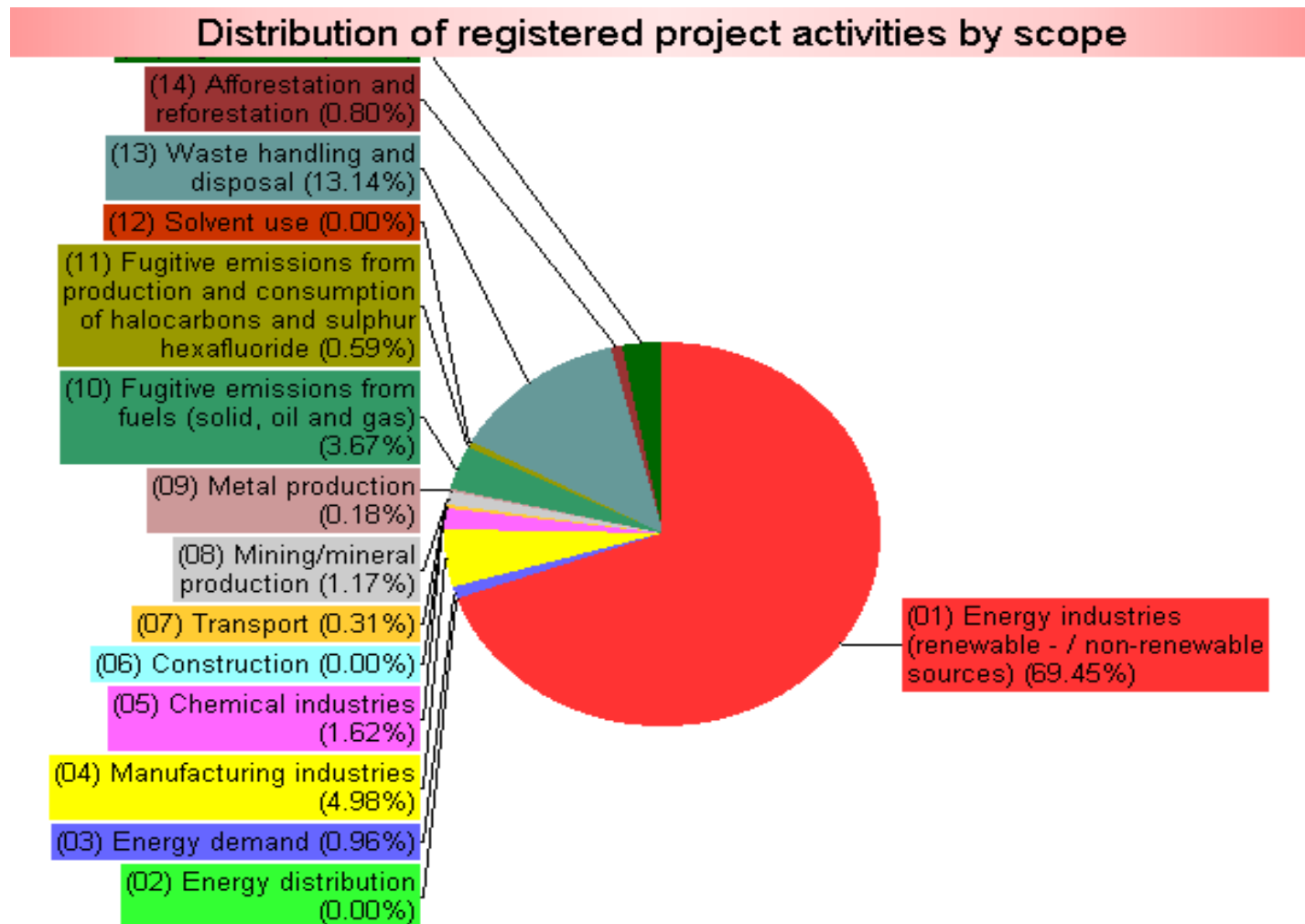


CDM implementation in renewable energy sector

RE leads the Registered Project Types



Solar and Wind CDM Projects

Wind CDM projects		
Country	Projects	MW
China	1357	74269
India	739	12684
Mexico	29	3479
Brazil	75	5458
South Korea	14	391
South Africa	18	2792
Chile	17	1380
Uruguay	16	773
Argentina	11	665
Morocco	8	704
Cyprus	5	241
Dominican Republic	7	280
Nicaragua	5	189
Egypt	4	406
Costa Rica	6	197
Thailand	5	352
Philippines	5	301
Sri Lanka	3	30
Serbia	4	450
Kenya	4	425
Panama	5	675
Peru	4	232
Israel	2	34
Ecuador	2	8
Jamaica	2	39
Pakistan	3	156
Macedonia	2	137
Honduras	1	102
Azerbaijan	2	98
Mongolia	1	50
Senegal	1	125
Colombia	1	20
Tunisia	2	224
Vietnam	5	188
Montenegro	1	46
Guatemala	2	69
Angola	1	100
United Arab Emirates	1	25
Mauritius	1	18
Total	2371	107811

Solar CDM projects		
Country	Projects	MW
China	121	2327
India	87	906
South Korea	31	186
Thailand	20	967
Chile	8	400
Israel	7	318
United Arab Emirates	4	220
South Africa	6	305
Peru	3	56
Rwanda	2	0.04
Madagascar	2	
Morocco	1	8
Tunisia	1	1
Dominican Republic	2	82
Lebanon	1	
Indonesia	1	
Total	297	5775

RE projects seeking CDM benefit in PIC

Fiji

- Vaturu and Wainikasou Hydro Projects
- Kinoya Sewerage Treatment Plant GHG Emission Reduction Project
- Fiji Nadarivatu Hydropower Project

PNG

- Lihir Geothermal Power Project
- Kumbango POME methane capture project
- Mosa POME methane capture project

- Numundo POME methane capture project
- Warastone POME methane capture project
- Bundled project on methane recovery from wastewater treatment in Hargy Oil Palms Limited's, Two Palm oil mills located in Papua New Guinea
- Biogas recovery from wastewater treatment in Hargy Oil Palms Ltd, palm oil mill
- Oil Search Limited Flare and Vent Gas Conservation Project
- Sangara POME Methane Avoidance project_NBPOL-P2
- Hagita POME Methane Avoidance project_NBPOL-P2

Micro-Scale RE Projects

No Additionality requirements if:

- The project installed capacity is smaller than 5 MW-electrical
- Is located in LDCs/SIDs
- the project activity is an off-grid activity supplying energy to households/communities (less than 12 hours grid availability per 24 hours day is also considered as off grid for this assessment);

RE CDM - Barriers

- Technological
- Social
- Financial

Some Issues

- EU does not accept CERs from hydro projects larger than 10 MW unless the dam complies with World Commission of Dams guidelines
- UNFCCC has a limit on surface area of reservoirs
- Wind atlas for most of PICs are not existent
- Erection of wind turbines-an expensive exercise
- Smaller wind turbines are difficult to source
- Landfill methane projects lucrative but have to be implemented quickly – gas in MSW peaks within a year of being covered.

Potential of RE in Vanuatu

- In Vanuatu commercial energy consumption is entirely dependent on imported petroleum
- An estimated 27% of the Vanuatu population has access to electricity
- The power generation in Vanuatu is prominently from diesel fired generators. Since Vanuatu is not having indigenous sources of fossil fuels, cost of power generation is high.
- Government of Vanuatu aims to reduce power costs and improve electricity access in rural areas by developing renewable energy projects

Vanuatu National Energy Policy Framework

Under the framework Government of Vanuatu aims to increase use of renewable energy in Vanuatu by :

- Providing tax incentives in the importation and use of renewable energy technologies.
- Encouraging partnerships with private investors, donors and other funding agencies.
- Encouraging training, research and development in renewable energy technologies.
- Promoting awareness and active involvement of communities in renewable energy programmes.
- Ensuring a sustainable financial and legal mechanism is in place.
- Raise awareness on cost and benefits of renewable energy projects.

RE Technologies Covered Under CDM

Solar

Wind

Hydro

Biomass

Biogas

Tidal

THANK YOU!