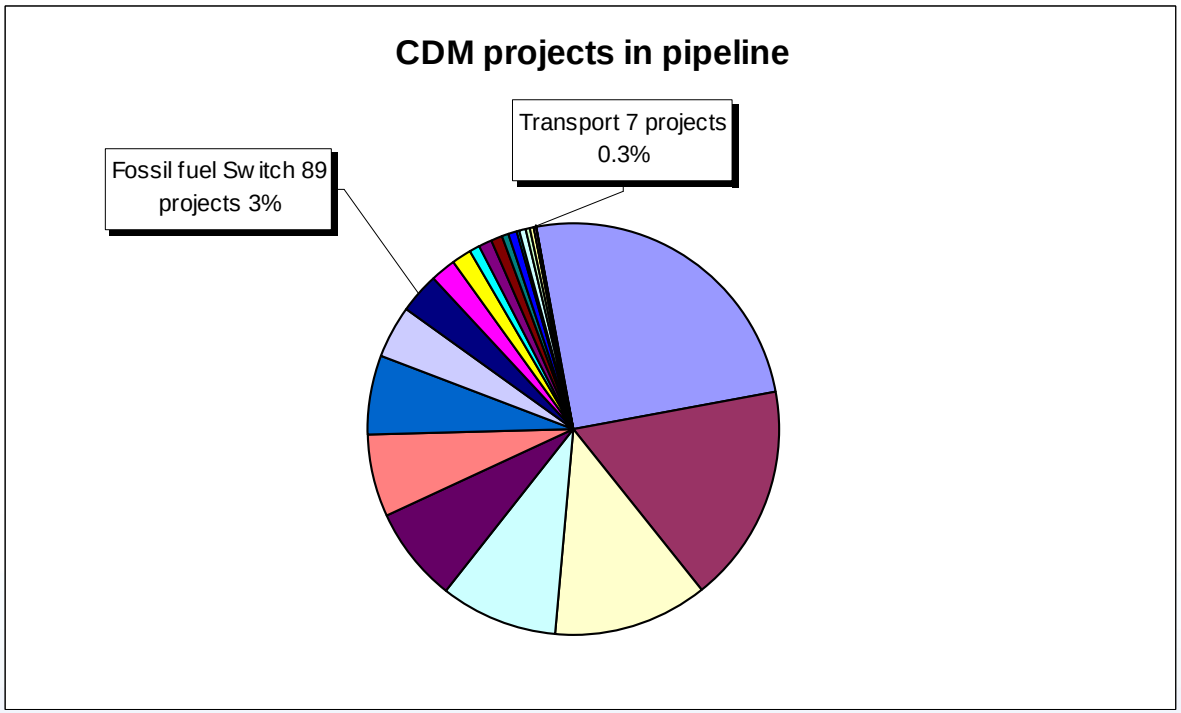
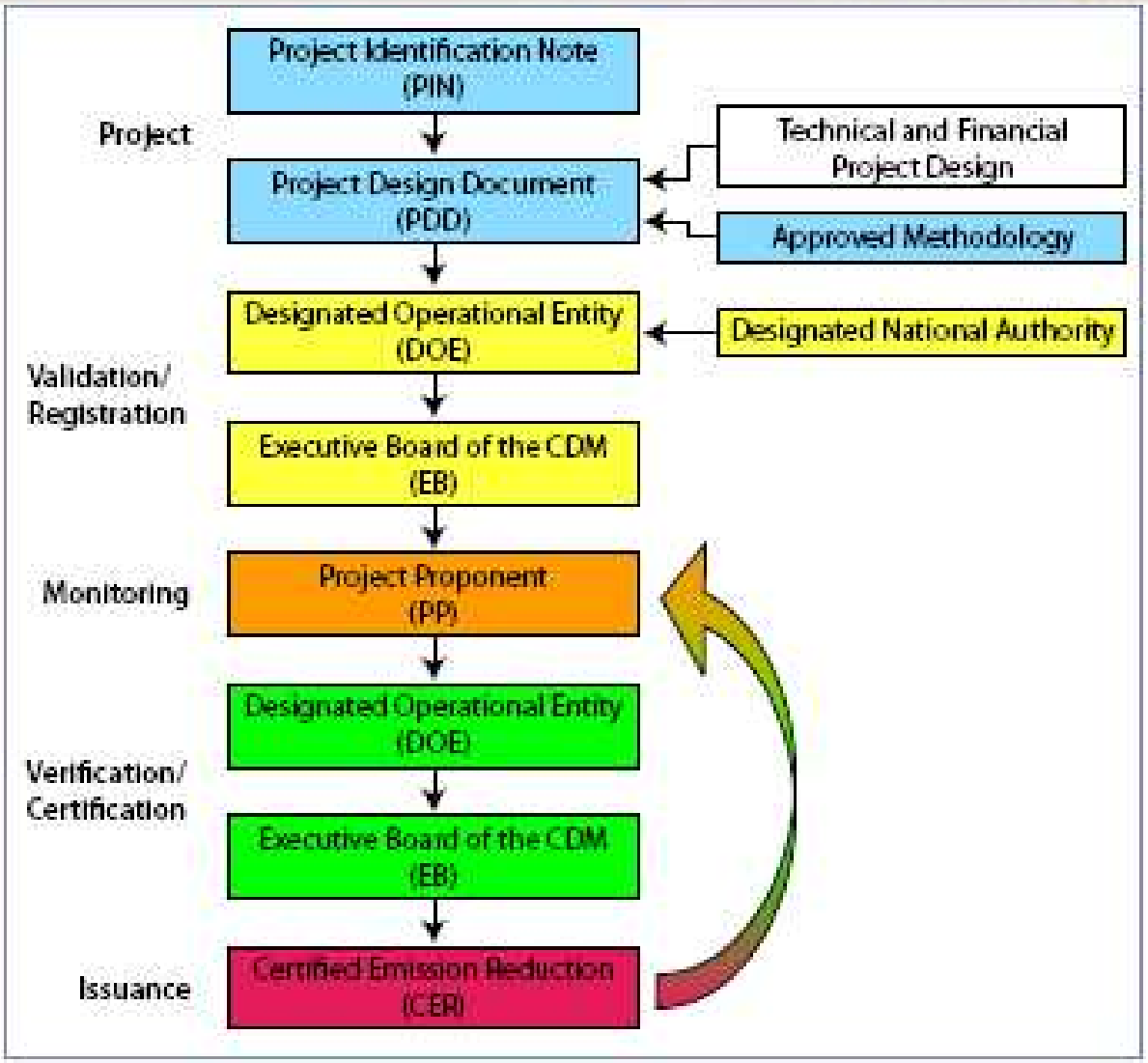
CDM projects by Type (December 4th)



- 7 transport projects out of 2783 (total) in the pipeline
- CER: 594 out of 418183

Source: http://cdmpipeline.org/cdm-projects-type.htm#2

Clean Development Mechanism: CDM



Clean Development Mechanism: CDM

- **Example criteria in order to gain funding**
  - ***Leakage**:* An example in the transport sector is where increased investment is put into transport infrastructure, which could lead to reductions in the level of congestion, increases in vehicle speeds, and then reduced emissions.
  - Investment could also lead to the generation of additional trips and a shift to private vehicle use as a result of reduced journey times.
  - The latter effect is called leakage and has to be taken into account.
  - ***Baseline:*** The baseline for CDM projects must be calculated.
  - The baseline refers to the scenario representing the greenhouse gas emissions that would occur in the absence of the proposed project activity. In doing so, the possible alternatives to the project should be identified and discussed.

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Clean Development Mechanism: CDM

Fuel Switch	Efficiency Improvement	Modal Shift
Switching fossil fuels from petro-diesel to biodiesel in transport sector (NM0069, NM0108)	Emission reductions by low-greenhouse gas emitting vehicles (AMS-III C) (Small Scale)	Change from road to sea transport (NM0128)
Transportation bio-fuel production with life-cycle assessment (LCA) (NM0109, NM0185)	TransMilenio – urban mass transportation system (NM0052, NM0105) *Including modal shift elements*	Change from road to pipeline transport (SSC58) (small Scale)
Khon Kaen fuel ethanol project (NM0082, NM0185)	BRT project Mexico (NM0158) *Including modal shift elements*	Cosipar Transport Modal Shift Project (NM0201)
Palm methyl ester biodiesel fuel production for transport using LCA (NM0142)	Behaviour-orientated demand-side EE program (SSC41) (Small Scale)	
LPG retail outlets for cars (NM0083)		
Biolux Benji Biodiesel Project (NM0180)		

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Concrete Examples

- BRT TransMilenio (registered), Colombia, CO_2 reduction aprox. 200,000tCO_2/yr
- Metro Delhi, India, CO_2 reduction aprox. 100,000tCO_2/yr
- Improvement of occupation rate of buses through usage of RFID, Manila, CO_2 reduction aprox. 50,000tCO_2/yr
- Transit oriented development in Nanchang, China, CO_2 reduction aprox. 20,000tCO_2/yr
- GHG efficient bus fleet in Bangalore, India, CO_2 reduction aprox. 20,000tCO_2/yr
- Tunnel project, Colombia, CO_2 reduction aprox. 40,000tCO_2/yr
- Road to rail freight, Colombia, CO_2 reduction aprox. 40,000tCO_2/yr

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Potential CDM Transport Projects

- Bus Rapid Transit Systems (BRTs)
- Rail based mass transport
- GHG efficient fleets
- Technology and/or fuel-switch
- Increased load factors/occupation rates
- Transit oriented development (TOD)
- Mode switch freight or passenger
- Infrastructure projects
- Policy assistance projects
- Behavioral change
- Biofuel production and usage (not exclusive transport)

Perspectives 2008

- New methodologies in 2008: Rail based passenger transport, freight mode switch, infrastructure, TOD
- New projects registered in 2008: basically BRTs due to methodological problems
- More transport projects in the VER market

Barriers to CDM and Transport

- Transport has specific characteristics different from other project types e.g. atomized structure of emission sources not under full control of a project: the MethPanel of the UNFCCC does not recognize these differences and reasonable approaches to monitoring thus preventing carbon emission reduction projects in transport
- Options for the future:
  - UNFCCC recognizes differences of transport and gets in touch with the real world thus enabling CDM transport projects
  - Potential projects go to the VER market
  - Developing countries should press for a more realistic (NOT LENIENT but REALISTIC) approach of CDM

Sourcebook Sustainable Urban Transport

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