



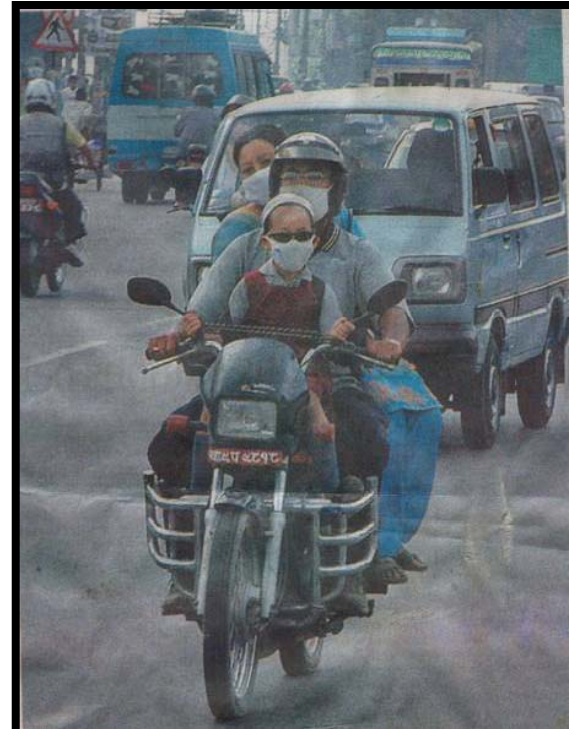
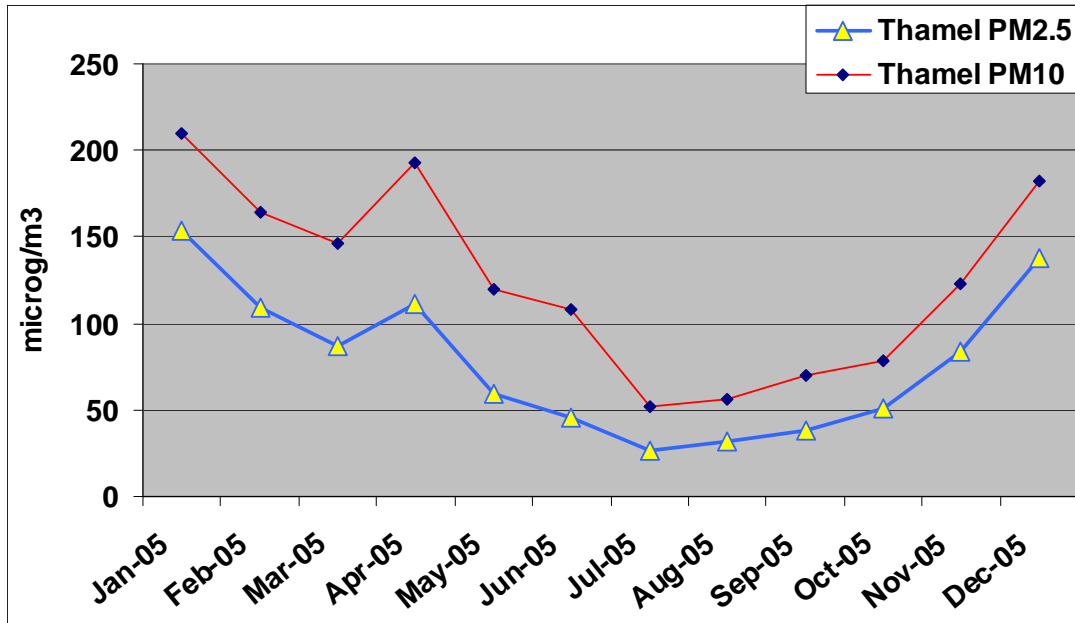
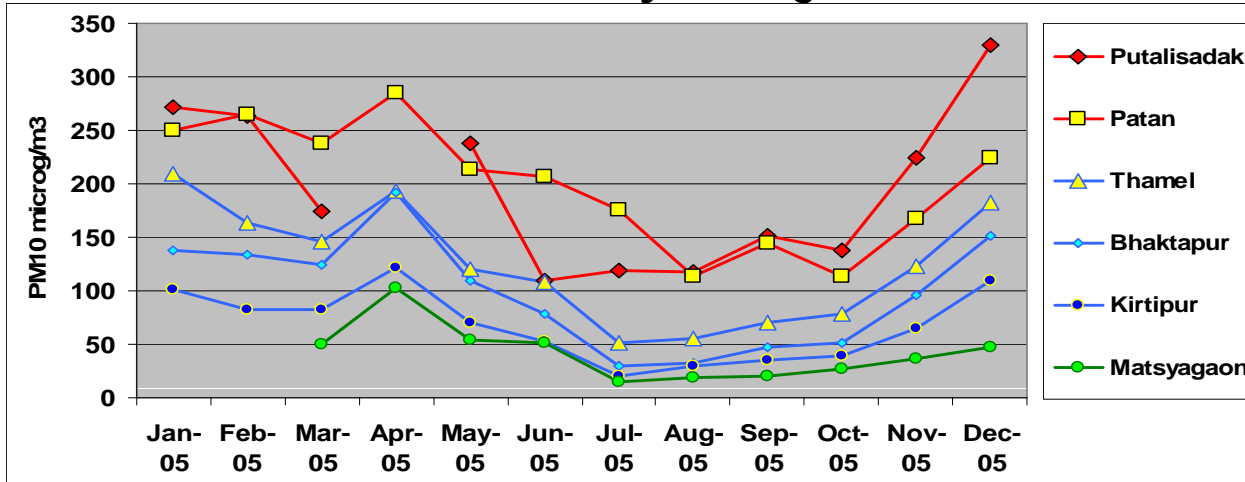
Story of Electric Vehicles in Nepal



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Monthly averages for PM₁₀



source: MOEST database

Are EVs appropriate for Nepal?

- ◆ EVs use **off peak** hydropower, reduce petroleum imports
- ◆ **Air pollution** in Kathmandu is alarming
- ◆ Cities in Nepal are uniquely **appropriate for EVs**
- ◆ Ropeways can be **cost effective alternative** to building roads



Background on EVs in Nepal

- ◆ Electric Rope Way 1960s
- ◆ Trolley Bus since 1975
- ◆ Economic Blockade in 1990
- ◆ 1993 USAID funded initiative...2002
- ◆ 1996- First Safa Tempo-Clean Vehicles



- About 650 EVs
- 11 passengers/vehicle
- 72 volt system, DC motor



Safa Tempo

Trolley Bus⁴



Features

- 70 km on single charge
- On-Board charger
- Speed 60 km/hr
- 5-8 seating capacity
- Regenerative Brakes
- 40-60% fuel cost savings

Conversion



- 80 km on single charge
- 9 units per charge
- Good Speed
- Regenerative braking





KEVA & Shree Eco Visionary Develop EV for Tourism Industry



Three Wheeler

- 70 km on single charge
- On-Board charger
- AC drive technology
- 5-6 seating capacity
- Regenerative Brakes
- Technology Improvement
- Business Diversification



Two Wheelers

- 30-40 km on single charge
- Available in Nepal





Challenges to the EV industry

- ◆ Technology and Cost
 - Battery, aesthetics
- ◆ Nepal governments incoherent policies
- ◆ Load Shedding and impacts of EV
- ◆ A strong auto import lobby against EV
- ◆ A strong transport cartel



Vision

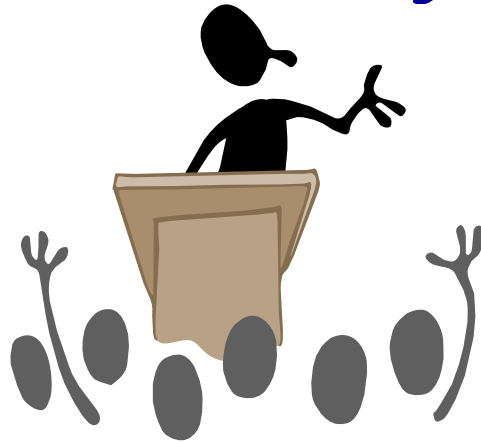


NEPAL

A Clean Energy Country!



Thank you



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