PRESENTATION TO MEETING OF ELECTRIC VEHICLE PROMOTION CONFERENCE ON TOPIC RELEVANCE OF CLEAN ENERGY ELECTRIC TRANSPORTATION IN COSMOPOLITAN KATHMANDU

PRESENTED BY
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CHAIRMAN, EVMIAN





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- 1. Corporate Details of EVMIAN
- 2. Historical Overview Of EV Development in Nepal
- 3. Problems Faced By the EV Sector
- 4. Support For EVs Around The World
- 5. Advantages Of EVs
- 6. Problem Mitigation

DETAILS OF INCORPORATION OF EVMIAN

Name in Nepali

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g]kfn -Oleldofg_

Name in English

Electric Vehicle Manufacturers & Importers' Association – Nepal (EVMIAN)

Registration in CDO Office, Kathmandu

: Reg No. 1273

Date: 2069/3/6

Registration in District

: Reg No. 1333/ 068/69

Development Committee Date: 2069/2/12

Objectives Of Association

- 1. To operate as a non-profit making non-governmental, public-benefitting, social organization.
- 2. To operate as an organization unifying all manufacturers and importers of electric transport vehicles in Nepal,
- 3. to represent all such institutions and to strive for rights of such institutions; to promote the qualitative aspects of services rendered by these institutions; to spearhead industrial development, protection, promotion, research and development of these institutions; and to deal with and seek assistance of government and non-governmental institutions capable of assisting in policy formulation and implementation of activities related to their institution.

INITIAL MEMBERS OF ASSOCIATION

- 1. Nepal Electric Vehicle Industry (P) Ltd.
- 2. Nevi Tradelink (P) Ltd.
- 3. Shree Eco Visionary (P) Ltd.
- 4. Clean Energy Nepal (P) Ltd.
- 5. Clean Energy Products International (P) Ltd.

Initial Executive Committee of Association

- 1. Mr. Bijaya Man Sherchan Chairman
- 2. Mr. Ashok Raj Pandey- Vice Chairman
- 3. Mr. Umesh Raj Shrestha- General Secretary
- 4. Mr. Shyam K.C, Treasurer
- 5. Mr. Bharat Poudel, Secretary
- 6. Pramod Bhandary, Member

CLEAN ENERGY TRANSPORT SECTOR TO BE EMBRACED BY EVMIAN

- 1. Electric Cycles & Scooters
- 2. Electric Rickshaws
- 3. Safa Tempos
- 4. Other 3 Wheeler Electric Vehicles
- 5. 4-Wheel Cars, Jeeps, Vans, Buses
- 6. Electric Ropeways, Cable cars
- 7. Hybrid Vehicles
- 8. Electric trolley buses, trams and trains

EFFORTS MADE BY EVMIAN SINCE INCORPORATION

- 1. Lobbying (together with Nepal Arthik Sarokar Kendra) with GoN agencies for the formulation and imlementation of the Batabaran Maitri Tatha Yatayat Niti 2071.
- 2. Functioning as active promoter of EVAN

HISTORICAL OVERVIEW OF EV DEVELOPMENT IN NEPAL

Goods Ropeway

1. 1960

43 km long bicable good ropeway with 22.5 ton/hr capacity operated between Kathmandu and Hetauda. Closed down after development of Prithivi Highway and poor management of National Transport Corporation (NTC).



2. 1977

Completion of Tripureshwor – Suryavinayak Trolley Bus with Chinese Grant of Rs. 40 millions. Initially 22 trolley buses with addition of 10 more buses in 1997. Ferried up to 20,000 pax per day. Closed down in December 2001 due to poor management by GON of the system.



3. 1993

Development of Safa Tempo. Proto types taken over by NEVI. Proliferation of system leading to 700 tempos 30 charging

station.



4. 1998

First cable car developed in Mankamana by private investor. But further development hampered due to lack of positive GoN policy on cable cars.





5. 2008

GoN provides tax incentive for 4 wheeler EV's. As a result today around 700 EV cars operational

Marketed by Agni Inc / Mahindra





4 Pax - E2

2 Pax - REVA

Marketed by NEVI Tradelink









14 Pax - Safa 2







EV's IN OPERATION

1. MAHINDRA EV – Total 413

• . Reva 1 114

• . E2O 170

• . E2O Plus 114

• . E-VERITO 13

• . E-Supro 2

2. KIA EV – Total 150

• . Soul 80

NIRO BOOKING
 70

EV's IN OPERATION

- 3. HYUNDAI EV Total 83
- . IONIQUE 8
- . KONA 75
- 4. SHRANGIA GROUP EV Total 1
- Peugeot Partner Tepee-MUV
- 5. BYD EV Total 45
- . E6 -40
- BUS K6 5

EV's IN OPERATION

- 6. SUNDAR YATAYAT 2
- BAK EV (Bus) 2
- 7. TOYOTA EV 12
- BYVIN -1 2

OTHER EVS IN OPERATION

1. E-Ricksaws in operation – 35000

2.Two Wheeler Evs

- 5000

3. 3 Wheeler Evs (Safa Tempo)- 710

PROBLEMS FACED BY EV SECTOR IN NEPAL

SUMMARY OF PREVIOUS EXPERIENCES

- 1. Trolley bus system closed due to mismanagement after government takeover;
- 2. SAFA Tempo Industry fully developed with 4 manufacturers, 31 charging stations and over 700 Safa Tempos in Operation but faces a deadend;
- 3. 4 wheeler EV's have found entry into Nepal, but face many operational problems. 5 Chinese electric buses imported for operation in Lumbini are in a stage of inoperation in Kathmandu.
- 4. GON has declared a plan to operate 300 electric buses within Kathmandu municipality but the work is not progressing.

RECENT ACHIEVEMENTS IN PROMOTING EV SECTOR

- 1. Customs duty for Evs revised to 50%
- 2. Excise duty waived
- 3. Annual Vehicle Registration charges waived
- 4. Road Maintenance Tax reduced to 50% for Evs
- 5. Special electricity tariff for EV charging stations of Rs 5.30 per unit of electricity
- 6. Nepal Rastra Bank has directed local banks to stop providing loans for purchase of POL operated vehicles. This follows the decisions of both India and China to eliminate operation of POL vehicles after 2030



CLEAN TRANSPORT POLICY - 2071

- 1. Recently approved and promulgated by GON
- 2. Steering Committee includes representative of EV manufactures
- 3. Excellent opportunities for EVMIAN to actively engage in the development of this sector

PROBLEMS AND MITIGATIONS

MAJOR PROBLEMS FACED BY SAFA TEMPOS

- Operational sustainability initially affected by electrical load shedding but this problem no longer exists;
- Lack of dedicated routes to Safa Tempos & other EVs
- Safa Tempos operating in mixed vehicle route find it difficult to compete with the bigger mini buses owned by the dominating transport unions;
- Frequent and hap-hazard changes in government decisions regarding tax incentives to the EV sector create difficulties in the sector. As an example battery import was completely stopped during 2008 as GoN revoked the customs incentives in batteries. The decision was corrected only after tough lobbying by EVAN;

PROBLEMS AND MITIGATIONS

OTHER PROBLEMS FACED BY EV SECTOR

- Batteries imported are allegedly of substandard quality and often fail to meet the standard life cycle targets;
- Exodus of trained drivers and technicians to foreign countries due to poor condition of transport sector in Nepal;
- Lack of an apex umbrella body that will champion and advocate for the causes of the EV sector;
- Lack of an institution to undertake research and development in the EV sector;
- Lack of an institution for training of EV sector manpower such as drivers, mechanics, electricians;
- Lack of centralized maintenance centre;
- Lack of battery bank.

PROBLEMS OF CABLECARS/ROPEWAYS

- 1. No Policy regarding tax incentives
- 2. No Incentives for Loans for construction of Cable Car Systems
- 3. No Incentives for electricity rates by NEA
- 4. No Support of GON for land acquisition

PROBLEMS FACED BY HYBRIDS

1. Cost of hybrids very high due to high custom and other taxes

PROBLEMS IOF 4 WHEELERS

- 1. Four wheeler EVs do not enjoy the same tax benefits as 3 wheeler Evs
- 2. No government policy regarding manufacture of 4 wheeler Evs in Nepal
- 3. 4 Wheelers 14 seater coaches not being provided commercial operation permit

PROBLEMS OF BYCYCLES/SCOOTER

- No differentialtion between electric bicycles & scooters. Differentiated only as with pedal and without pedal
- 2. Registration process of electric scooters cumbersome

ADVANTAGES OF EV's

ADVANTAGES OF ELECTRIC TRANSPORT

- i. Low Operation and Maintenance Cost;
- ii. Positive Environmental Impact;
 - for every litre of fossil fuel replaced. EV's will prevent 3 10 gm of PM10 from being emitting,
 - reduction in polluting gases,
 - reduction of green house gases.
- iii. Each EV can reduce consumption of 2190 lit of fossil
- for per year:
 - reduction of economic burden of imported POL,
 - reduction of health risk,
 - increase of productivity of population.

ADVANTAGESNCE OF ELECTRIC TRANSPORT

Cost of Operation / Maintenance:

A: Petrol Vehicle

Petrol Cost for small car
Lubricant
Maintenance
Tyre Replacement
Total per Km
Rs. 12.00 /Km
Rs. 0.40 /Km
Rs. 0.70 /Km
Rs. 0.30 /Km
Rs. 13.40

B: Electric Vehicle

Battery Replacement : Rs. 3.50 /km

• 18 kWh @ Rs. 7 /- per unit : Rs. 0.80 /km

Maintenance : Rs. 0.30

Tyre Replacement : Rs. 0.30

Total per Km : Rs. 4.90

PROBLEM MITGATION MEASURES

PROBLEM MITIGATION MEASURES

Formulation Of Transport Policy Favoring CEVs

- Preference to be accorded to CEvs in municipal transport, transport to and within world heritage and tourist destinations and to airports
- Preference to operation of trolley buses and electric trains wherever suitable;
- Preference to ropeway transportation in hill areas
- Promoting use of cablecars for operation in tourist destinations.
- Preference to electric taxis in municipal area

Provision Of Incentives To Clean Energy Vehicles

- Waive VAT and Excise Duty charges on import of all categories of Clean Energy Vehicles (CEV)
- Implementation of customs duty @ 5% on CEVs designated for public transport and customs duty of 10% for CEVs for private use (2,3 and 4 wheeler CEVs)
- Waiver of VAT and Excise duty on all CEV components and batteries with customs duty application of only 1%
- Waiver of parking fees for CEVs all together
- Low / Subsidized electricity tariff to be applicable for charging stations for charging CEVs during off-peak hours
- Assitance to be accorded for land acquisition for CEV related projects such as ropeways, cable cars, electric trains and trolley buses.

Provision Of Financial Incentives To CEV Projects

- Environmental fund collected by GoN as per Environmental Protection Act 2013 Clause 13 to be made available for EV sector development and for funding CEV related projects
- Low interest loans to be made available to CEV entrepreneurs from GoN or Banks for implementation of ropeways, cable cars, battery recycling plants in the private sector.
- Assistance to be accorded for land acquisition for CEV related projects such as ropeways, cable cars, electric trains and trolley buses.

Battery Management System

- Regular monitoring of battery quality imported into Nepal
- Creation of battery bank to ensure price stability
- Monitoring of battery waste disposal
- Promotion of establishment of battery recycling plant in Nepal

Establishment Of CEV Promotion Center

An Clean Energy Transport Promotion Center should be created with assistance from the GoN Environmental fund to undertake the following activities to promote EV development:

- implement R&D in EV sector;
- b. training of manpower for sector;
- setting up of battery bank;
- d. monitoring of battery waste disposal;
 e. setting up of EV maintenance centre;
- undertake advocacy of EV sector;

UNITED KINGDOM

- 100% depreciation in 1 year
- Free parking and charging in key areas
- EV exclusive Zones
- No Congestion charge

IRELAND

Exemption of VAT

JAPAN

- Subsidy of US \$ 2600 on each EV
- ¥ 20 million project for Lithium Iron Battery develop
- ¥ 210 million of R & D
- Subsidy up to 50% of incremental cost

Norway & Sweden

- No import duty on EV
- Subsidised electricity cost
- Euro 1000 incentive to EV customer
- Evs allowed to drive in bus lane
- No congestion charge
- Free parking in governmental parking area
- No annual fee
- subsidy in insurance premium

FRANCE

- Subsidy of EV 2000 for EV
- Reduced load tax
- 100 % depreciation in first year
- 20% public transport to be electric
- Free parking
- No tax on electricity for EV

- Subsidy of US \$ 4000 per EV
- 10 % vehicles to be EV's in California
- Preferential parking area
- Subsidy in charging infrastructure
- Incentives for power supply
 Italy
- Subsidy of Ev 1800 per EV
- Free parking for EV
- No road tax for EV
- 50% of governmental vehicle- EV's

India

- Sales tax and road tax exemption in several states
- Subsidy of Rs.75,000 to governmental agencies for EV purchase





KSUTP VISION

- 1. Encourage people to travel by public transport or on foot;
- Discourage private motorized vehicles from entering the central area of Kathmandu;
- 3. Improve movement (of all modes, including pedestrians) within the central area;
- 4. Improve air quality and reduce carbon emissions;
- 5. Improve transport equity



Implementation of an improved transport system in Kathmandu with ADB – US \$ 20 millions GRF Grant - \$ 2.8 millions, GoN \$ 7.9 millions

- Promotion of public transport;
- Traffic management;
- Pedestrianization;
- Better air quality.



Draft Final Report: Kathmandu Sustainable Urban Transport Project

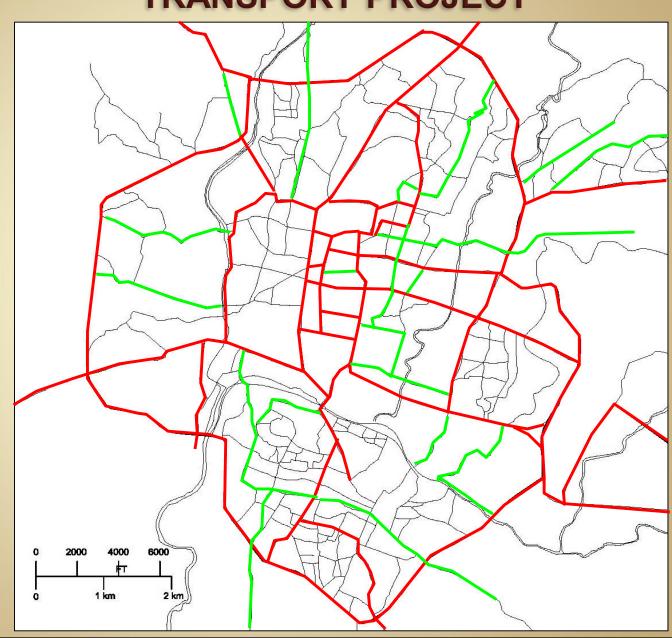
COMPONENT A: PROMOTION OF PUBLIC TRANSPORT

Sub-components:-

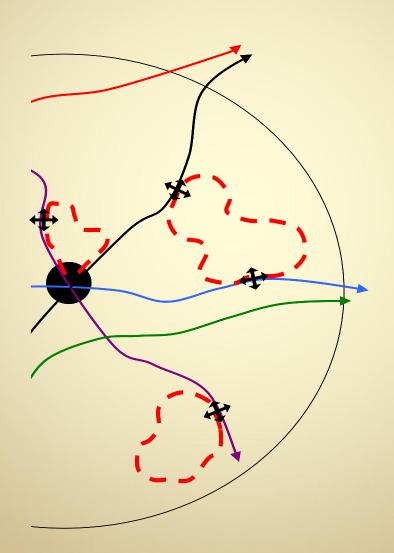
- 1. Redefine routes into Primary, Secondary and Tertiary
- 2. Assign appropriate vehicles to routes
- 3. Big buses and trolley buses on primary routes
- 4. Mini buses on secondary routes
- 5. Safa and 4 wheeled electric buses on tertiary routes
- 6. Express and premium services
- 7. Franchise routes to providers (Associations of operators)



Primary and Secondary Routes

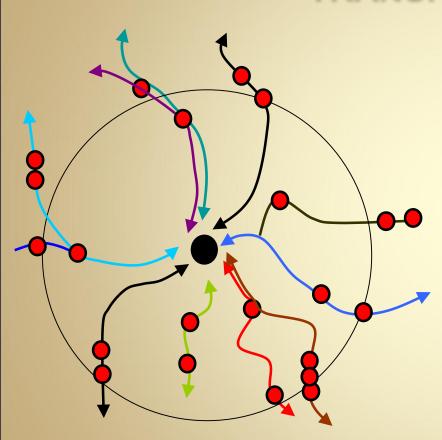




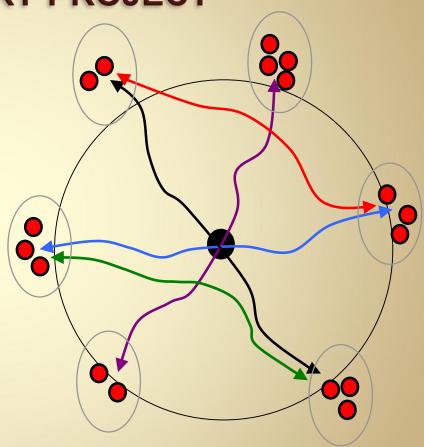








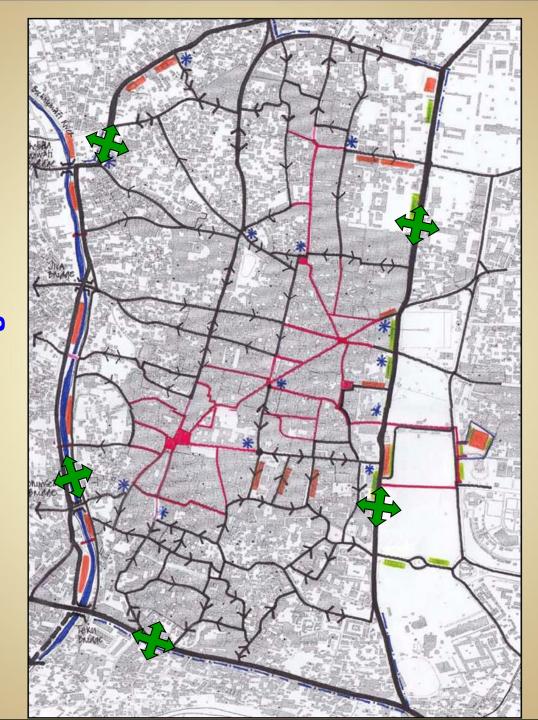




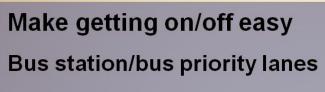
Traffic Pattern After Rationalization

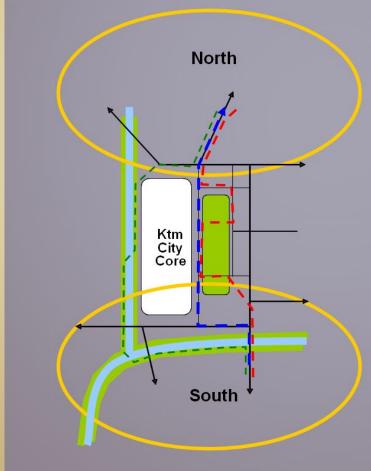


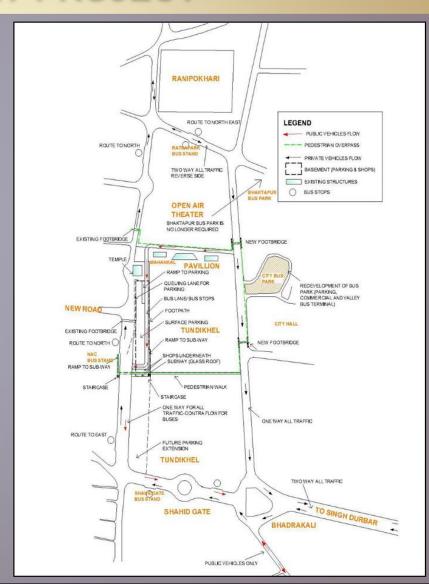
Planning of Routes and Interchange





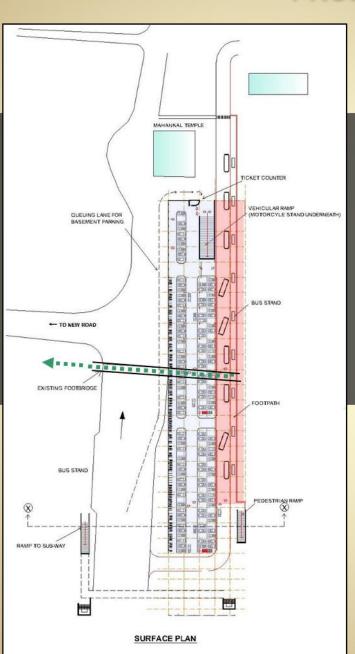


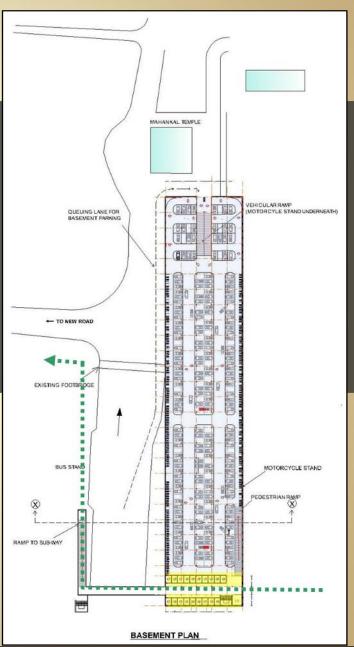




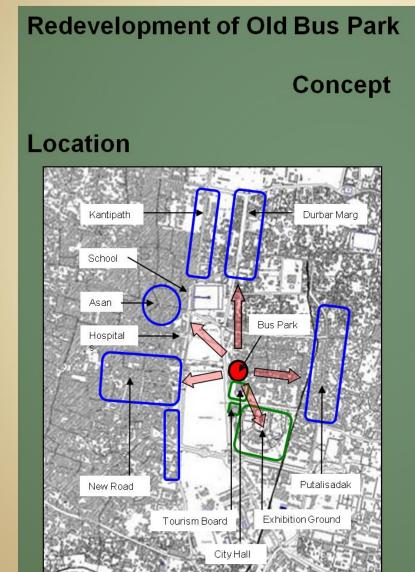


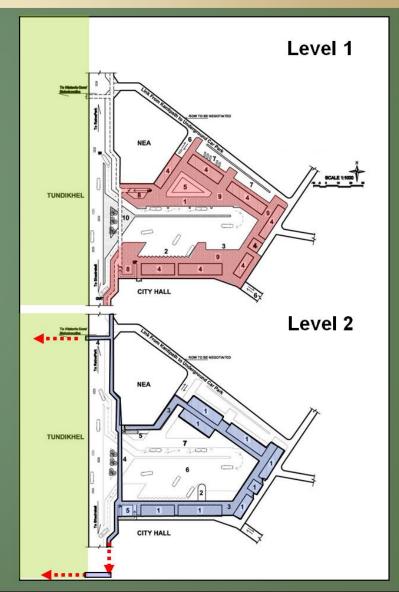
Bus
Station
and
Parking
West
Side of
Tundikhel







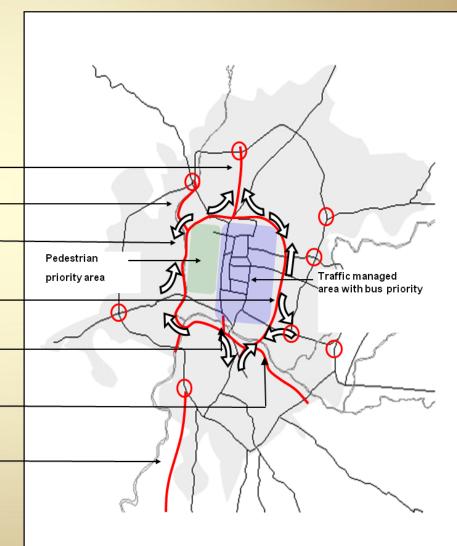






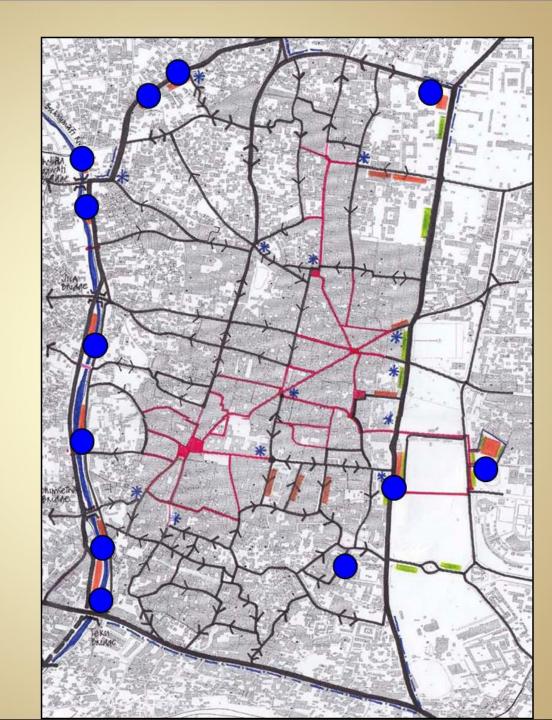
Alternative Routes for thorough Traffic







Residential Parking





Possible Route for Operating of Modern Trolley Bus System:

- Maharajgunj to Lagankhel
- Tinkune to Kalanki
- Tripureshwor to Bauddha
- Ring Road



INVESTMENT BY KMC WITH PPP:

- 1. Bus station and car park on west side of Tundikhel;
- Redevelopment of old bus park as bus terminal commercial centre and city hall;
- Car park and commercial development in social welfare council compound.



COMPONENT C: PEDESTRIANISATION

Sub-Components:-

- 1. Pedestrianisation of the Historic Core
- 2. Pedestrian improvements within the Central Area
- 3. Improvements to pedestrian links
- 4. Movement of vulnerable people
- 5. Awareness building



Limit private motorised vehicles entering the central area

Options:-

- 1. Central area tax :-
 - tax to use on specified roads
 - levied with annual registration tax
 - not applicable to PT and service vehicles
 - increase tax over time
- 2. Parking controls:-
 - no more on-street parking
 - increase the hourly charge



Air Quality Sub-Components:-

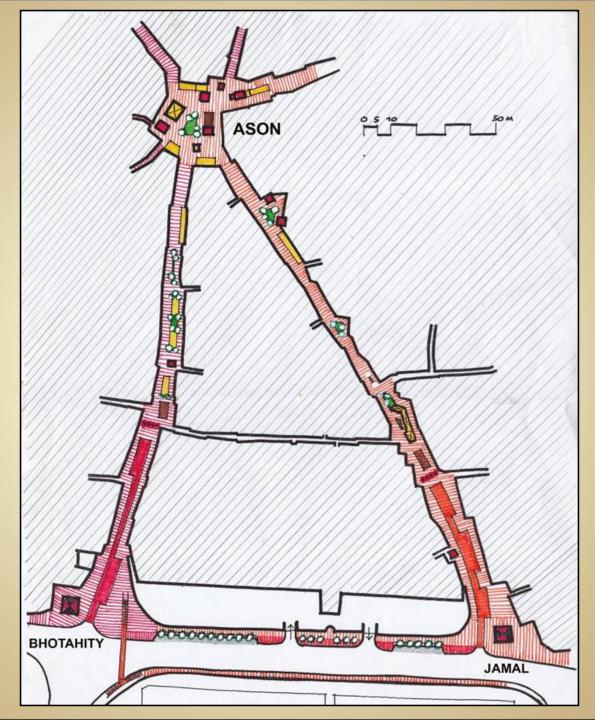
- Reduce the number of vehicles
- Reduce the emission per vehicle

How?

- Improve public transport
- Strict application of emission tests
- Strict application of mechanical tests
- Better quality fuel (Euro III)
- Better quality vehicles (Euro III)
- Re-start and extend trolley bus
- Encourage zero emission vehicles



Primary Pedestrians Routes





Primary Routes

- P1: Ring Road
- P2: NarayangopalChowk Panipokhari Lainchaur - Royal Palace Museum – Bhadrakali -Singh Durbar – Maitighar – Thapathali –Jawalakhel - Satdobato
- P3: Kalanki Kalimati Tripureshwar Thapathali
 Maitighar New Baneshwor Koteshwor
- P4: Balaju Lainchaur Jamal Hattisar -Kamalpokhari – Gaushala – Chabahil – Bouddha – Jorpati Return via Maiti Devi - Dilli Bazaar – Bag Bazaar.



Secondary Routes

- S1: ChappalKarkhana Bishalnagar BhatBahateni Royal Palace Museum - Old Bus Park
- S2: Khusibu (Sorhakhutte) Lainchaur North of Royal Palace Museum - Police Head Quarter – Naxal – Kalopool – Siphal – Chabahil – Bouddha
- S3: New Bus Park (Gongabu) Samakhusi Lainchaur Old Bus Park – Dilli Bazaar – Old Baneshwor - Airport
- S4: Sangkhamul New Baneshwar Old Baneshwar Gaushala



Tertiary Route

- T1: Bagdole Sanepa Teku Paropakar SawaBhagwati Khusibu (Sorhakhutte)
- T2: Balaju Bus Park Banasthali Swayambhu Chhauni Kalimati – Balkhu
- T3: Balkhu Sanepa Jhamsikhel Pulchwok Managal Bazar – Gwarko
- T4: Balkhu-Bagmati river corridor-Sankhamul-Balkumari
- T5: BishalnagarChowk-Baluwatar (RB) Lazimpat Raniban-SamakhusiChowk
- T6: Kalimati BishnumatiLink road-Balaju bridge NewBus park at Gongabu
- T7: Tilganga Singamangal-Shantinagar gate at Min Bhawan
- T8: Dhobikhola (Gopi Krishna hall) Dhaulagiri Chowk along river bank



PROLIFERATION OF ELECTRIC RICKSHAWS



PROLIFERATION OF ELECTRIC RICKSHAWS

- 1. Rickshaws of 2,4,6 passenger capacity
- 2. Motor capacities 500-600 w, 800-1000 w, 1000 w and above for 2,4,6 passenger capacity
- 3. Currently in operation 3415 Nos.

Market Potential - 8385 Nos.

Potential of Replacing pedal Rickshaw- 40370 Nos.

Potential of Replacing Vikram Tempo- 2500 Nos.

CONVERSION OF LPG VEHICLES INTO ELECTRIC VEHICLES

 EFFORTS ONGOING FOR CONVERSION OF PERMIT FOR CONVERTING FOLLOWING:

3 Wheeler LPG- 1500

4 Wheeler LPG- 378

Total - 1878



FORMULATION OF ENVIRONMENT FRIENDLY TRANSPORT POLICY 2071



वातावरणमैत्री सवारी तथा यातायात नीति, २०७१

१) पुष्ठमुमि :

जलविद्युतको तुष्टिकोण के तमाल सहत्वपूर्ण देशको रूपमा विश्वभर चितिन्छ, । जहाँ हिताल, पहाड हुँदै तर्भ इत्या बिर्मिक्त ६,000 भन्दा वहीं नदी नामाहरू बाट ४३,000 भेषाबाट भन्दा वहीं विद्युत काञ्चलाक रूपमा उत्पादन गर्ग राक्रिके सम्भावना रहेको अनुसान गरिएको छ । यसी वृद्धाहुँदै भी पर्योख साथामा जलविद्युत र विद्युतीय सवारी साथनको विकास र विद्युत हुन सकेको छेन । जब विध्वत र विद्युतीय सवारी साथनको विकास अर्थमा यसले साध्यको आर्थिक, साम्राज्ञका छेन । जब विध्वत र विद्युतीय सवारी साथनको विकास अर्थमा यसले साष्ट्रको आर्थिक, साम्राज्ञका सम्भावना देखिन्छ । तर खोनल इन्छनमा सेपाल पर्रसभार भैरहेको विद्युतीय अर्थमा स्थावन देखिन्छ । तर खोनल इन्छनमा सेपाल पर्रसभार भैरहेको विद्युत्त अवस्था ए विस्तुत अवस्थामा स्थावन स्थावन इन्छन्य हो निर्माण कार्यिक साम्राज्ञ साम्राज्ञका कार्याक साम्राज्ञका सम्भावन सेपाल स्थावन साम्राज्ञका साम्राज्ञका साम्राज्ञका साम्राज्ञका वृद्धिकरण र दिन प्रति दिन प्रति दिन प्रतायालको साधनको बुद्धिके स्था खिनल इन्छनको साम्राज्ञका साम्राज्ञका विकास स्थावको साम्राज्ञका विकास स्थावको साम्राज्ञका सा

खोग इत्थनको विश्वपद्मापी अध्यो इपनोग र आकासिदै गएको मूल्य (थ यसको सिनितताको कारणले गई। नेपालको फूल निर्मातनाइ प्राप्त गर्ने वैदेशिक मुद्रा प्रसम्बद्धी रकम वर्षिन वसको तथा। खर्च गर्या पित तथाले अवस्था थि. भी सक्केशित गसको विकल्पको लागि थि. १८ विश्वतीय सवारीको विकासमा शिख जोड दिनु पर्ने आवश्यकता रूहेको छ। विगतमा दूसी शत र ६०० वटा मन्दा वटी सफा टेम्पो संचालनमा लगाइको भएता पित प्रसको ग्रही रूपमा व्यवस्थानम हम सक्केको कारणले दूसी बस वन्द हुन पुर्यो सने सफा टेम्पो लगायत अन्य विश्वतीय सवारो एका प्राप्त कि स्थानको सहस्रमुकी निर्मा प्राप्त कि सक्केको सहस्रमुकी निर्मा प्राप्त कि प्राप्त कि सक्केको सहस्रमुकी निर्मा प्राप्त कि सक्केको ।

विगतमा खनिज इस्थेनबाट संचालन हुत सवारी साधनलाई वातावरणमैंथी संघार तथा रहतायातका समझावों रुनमा रुपालका भा पार्थ निर्जा क्षेत्रकों प्रचारताई समझातुक्ल प्रोत्साहन तथा पार्थ मिकता पुन्याजन उसका सुन्याजन व्याप्त स्थापत (क्षेत्र प्रश्रह की पार्व पार्थ सामाण्य का हुन्य सुन्य सुन्य पार्व नैक्षकरणीय उजीवाट सब्बालित हुने वातावरणमैंथी सवारी तथा बाताधीत नीति लगाचत कानूनी पक्षकों कमी रहिन् वातावरणमैंथी तथा विद्युतीय याताधीतको व्याप्त स्थापत अन्य देशसे केकिएमक उजीकी भिक्तामा जोड दिई प्रचूर मात्रामा वातावरण मैंथी विद्युतीय स्थापत अन्य देशसे वैकिएमक उजीकी भिक्तामा जोड दिई प्रचूर मात्रामा वातावरण मैंथी विद्युतीय स्थापी तथा यात्रामा वातावरण स्थापत अन्य देशसे विकित्यक उजीकी भिक्तामा जोड दिई प्रचूर मात्रामा वातावरण मेंथी विद्युतीय स्थापी उजीकरणीय उजीकर पराण्य उपलब्धताको सम्भावना रहेकीन प्राथमकताका साथ यसको विकासमा स्थापत व्यापत्य सम्भावना रहेकीन प्राथमकताका साथ यसको विकासमा स्थापता सम्भावना सम्भावना साथ समझ स्थापता स्थापता सम्भावना सम्भावना रहेकीन प्राथमकताका साथ स्थापता स्थापता सम्भावना सम्भावना सम्भावना साथ समझ स्थापता स्थापता सम्भावना सम्भावना सम्भावना सम्भावना सम्भावना सम्भावना साथ समझ स्थापता सम्भावना सम्भाव

यातायात क्षेत्रम प्रयोग हुने खित्व इत्यनबाट हुने मुद्रा बहिंगमन, बैदैक्कि निर्मरता, वानावरण प्रदुगण, विश्वमा भएकी अलबाय परिवर्तनको सन्दर्भमा, विश्व उण्णिकरण, हरित ग्यांसहरु तथा हिन्सिक क्षणां तत्वत्य तत्वको उत्संगर गर्ने विषयहरू नस्त कार्यमा प्रतायात क्षेत्रवाट बात वरणां हिन्सिकर करा कार्यमा प्रतायात क्षेत्रवाट बात वरणां उत्यन्त हुने नकाशतमक अवस्त अगरहरूलाई न्यूनिकरण गर्दे हरित विकास गर्न्पान अवस्व स्थानको समुचित । स्वदेशी सीज र प्रविधिको प्रयोगधाट देशका उपलब्ध हुने उत्यादनका साध्य र सोतको समुचित व्यवस्थापन तथा उपयोग्धार सरक्षण एवं प्रबंद्धन गर्दै नीजि, सार्वजिक, सार्भ्वारी, सरकारी, सरकारी र स्वदेशी तथा पिदेशी लगानीलाई पित्यालन गरी व्यवस्थित रूपना औरसीयकरणां प्रकिशालाई त्रिव बनाई आवश्यक पूर्वाधारको निर्माण तथा विकास गरी सरका शहर कार्यक्रमान्तई प्रभावकारी कार्यान्वयन एवं व्यवस्थित गर्दै उत्पादन तथा विकास गरी सरकार हि मरी व्यवस्थित सम्बद्ध स्थानको सम्बद्ध हास्ति वास्ति सम्बद्ध स्थानको लागि



FORMATION OF COMMITTEE

FOR IDENTIFICATION OF ROUTES IN KATHMANDU, BHAKTAPUR & LALITPUR FOR ALLOCATION TO ENVIRONMENT FRIENDLY VEHICLE & SUBMISSION OF REPORT



नेपाल सरकार, भौतिक पूर्वाधार तथा यातायात मन्त्रालयको मिति २०७१/१०/१३ र २०७९/१२/११ को निर्णयानुसार बाताबेरणमैत्री सवारी साधनहरूलाई रुट पिनका लागि काठमाण्डी, भक्तपुर तथा ललितपुरका बाटीहरको अध्ययन गर्न गठित रह अध्ययन समितिको प्रतियेवन

२०७२

प्रतिवेदन प्रस्त्तकर्काः



FORMATION OF EVMIAN EMBRACING ALL TYPES OF CLEAN ENERGY TRANSPORTATION



नेपाल सरकार भृह*्ष* स्वन्त्रस्य,

निकार भिन्ने 📈 🗦 🦫 🖰 बता मिति ०००६,5 ८.३ बर्ता नं. १२०० 矣 矣

्सा दक्ष सरी यो प्रस्तक पन

धुमाण-पुत्र

श्री अध्यक्षज्युं,

चित्रकृतिक प्रतिवेदाहात विद्योश विद्योश विश्वासाम् स्थानिक संस्था । संस्था पर्वा ऐन २०३४ वर्षः । , इक्स (४) वयोजिस मिलि २०६

विद्वस्की हरू।

स्थानीम अधिकारीको सही

द्राष्ट्रक्यः- वो प्रभाणपत्र हरेक आर्थिक वर्ष भित्र नवीकर्णः गर्नु एर्ने छ ।

7. CONCLUDING REMARKS

- Implement the KSUTP project in Kathmandu without delay.
- Reinstate Kathmandu-Bhaktapur Trolley Bus System
- 3. Implement trolley bus systems
 - a) Around Ring Road
 - b) Ring Road to Budanilkantha, Kalanki, Thankot & Godavari & Boudha
- Implement electric transport along the outer ring road

CONCLUDING REMARKS

- 5 Hike environmental tax on POL transport
- 6. Hike import duties, registration & & parking charges on POL based transport vehicles.
- Implement the Clean Energy Transport Policy 2071 without delay.
- 8. Provide Custom incentives for import of all types of electric vehicles and spares.
- 9. Create the EV PC immediately.
- 10. Permit conversion of LPG/ POL Vehicles into Evs.

THANK YOU