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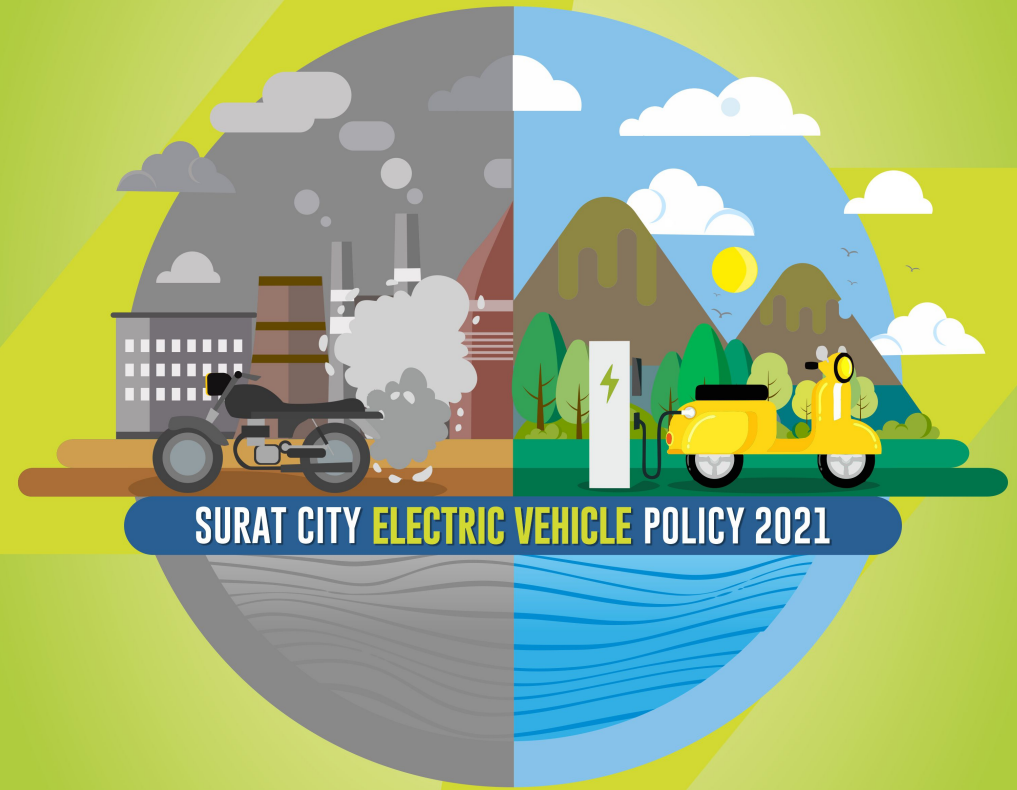
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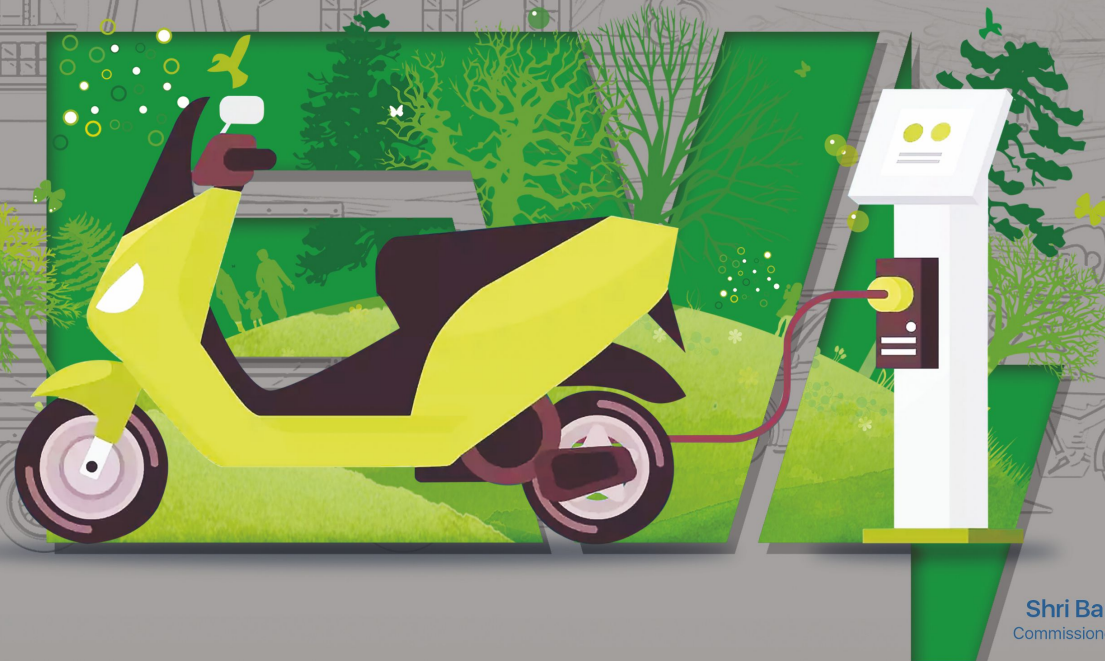


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**Smt. Hemaliben Boghawala**  
Mayor, Surat Municipal Corporation



**Shri Banchhanidhi Pani, IAS**  
Commissioner, Surat Municipal Corporation

Adoption of Electric Vehicles (EVs) for road transport contributes to a wide range of goals. These include better air quality, reduced noise pollution, enhanced energy security and in combination with a low carbon power generation mix - reduced greenhouse emissions.

The twentieth century was fuelled by the development and diffusion of Internal Combustion Engines, primarily on account of accessibility of vehicles and affordability of fuel.

The shift to clean transport has become necessary due to rapid depletion of fossil fuel and increase in fuel cost, vehicle population and environmental pollution.

Govt. led by visionary Prime Minister Shri Narendra Modi has a vision for converting all vehicles in India to electric vehicles by 2030. To shoulder the vision of Hon'ble Prime Minister Shri, Gujarat Government has declared "State Electric Vehicle Policy - 2021" with a vision to deploy 2 Lac electric vehicles by 2025.

Surat has embarked on a mission to take pre-emptive adaptation measures to mitigate the impacts of processes associated with climate change and variability at city level. As part of early adoption of E-mobility in Surat City, Surat Municipal Corporation has prepared dedicated "Surat Electric Vehicle Policy - 2021" to shoulder the National and state objectives of Electric mobility and became the first EV city in the country.

India is the 4<sup>th</sup> largest vehicle market in the world and The transport sector accounts for 18% of total energy consumption in India. Government of India has set up an ambitious targets and enacted conducive policies to ensure that electric vehicles replace fossil fuel-based vehicles as the primary mode of transport.

Taking a proactive step towards achieving these targets, central government had announced the Phase II of the Faster Adoption and Manufacturing of Hybrid and Electric vehicles (FAME) scheme, with an outlay of Rs. 10,000 Crore. The scheme aims to provide an impetus to the adoption of electric and hybrid vehicles by offering an upfront incentive on the purchase of electric vehicles and establishing necessary charging infrastructure.

Gujarat has the highest adoption of battery operated two wheelers in the country and to take fast step in adoption of electric vehicles, Gujarat Government had announced "Gujarat State Electric Vehicle Policy - 2021".

Surat always play a lead role in the promotion of green energy as well as electric mobility in Surat City and therefore, Surat Municipal Corporation has developed dedicated "Surat City Electric Vehicle Policy - 2021" with aims :-

01. To facilitate adoption of at least 20 % EVs in the target set in State EV Policy
02. To promote creation of public and private EV Charging Infrastructure in the city
03. To mandate adoption of EVs in the Surat Municipal Corporation, Surat Smart City Development Limited, URDCL, Surat Sitilink, Dream City etc in a phased manner
04. To adopt the renewable sources of energy into EV Charging Infrastructure
05. To create the awareness among the citizens for adopting EV by organizing Capacity building programs, seminars, exhibitions etc
06. To protect the environment by improving City Air Quality Index
07. To give multiplier effect on the economy including employment

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# ABBREVIATIONS AND DEFINITIONS

<b>AIC</b>	Atal Incubation Centre
<b>CEA</b>	Central Electricity Authority
<b>CREDAI</b>	Confederation of Real Estate Developers Association of India
<b>DISCOMs</b>	Electricity Distribution Licensee
<b>DGVCL</b>	Dakshin Gujarat Vij Company Ltd
<b>DHI</b>	Department of Heavy Industry, Ministry of Heavy Industry & Public Enterprises, Government of India
<b>EEC</b>	Energy Efficiency Cell of Surat Municipal Corporation
<b>EV</b>	"EV" means Electric Vehicle; including plugin vehicle with rechargeable battery, 100% overhead fed electric traction vehicle as well as inductive charging vehicle;
<b>FAME II</b>	Faster Adoption and Manufacturing of Hybrid and Electrical Vehicles in India Scheme notified by the DHI along with its amendments thereafter
<b>FPPA</b>	Fuel and Power Purchase Cost Adjustment
<b>GERC</b>	Gujarat Electricity Regulatory Commission
<b>GoG</b>	Government of Gujarat
<b>Goi</b>	Government of India
<b>ICE</b>	Internal Combustion Engine
<b>KWh</b>	Kilo Watt Hour
<b>MOU</b>	Memorandum of Understanding
<b>NBC</b>	The National Building Code of India (NBC), a comprehensive building Code, is a national instrument providing guidelines for regulating the building construction activities across the country.
<b>NEMMP</b>	National Electric Mobility Mission Plan notified by the Department of Heavy Industries, Ministry of Heavy Industry & Public Enterprises, Government of India along with its amendments thereafter
<b>NOC</b>	National Electric Mobility Mission Plan notified by the Department of Heavy Industries, Ministry of Heavy Industry & Public Enterprises, Government of India along with its amendments thereafter
<b>PCS</b>	Public Electric Vehicle Charging Station
<b>Policy</b>	Surat City Electric Vehicle Policy - 2021
<b>PPP</b>	Public Private Partnership
<b>RTO</b>	Regional Transport Office
<b>SDG</b>	Sustainable Development Goals (SDG) framework of the United Nations on Climate Action
<b>SMC</b>	Surat Municipal Corporation
<b>State</b>	State of Gujarat
<b>URDCL</b>	Urban Ring Development Corporation Limited
<b>2 W</b>	Two Wheelers
<b>3 W</b>	Three Wheelers
<b>4 W</b>	Four Wheelers

## MANDATE :

### I. Ministry of Power, Gol's Action plan on Charging Infrastructure for Surat :

Ministry of Power, Gol has decided to first prioritize saturating the nine cities namely Delhi, Ahmedabad, Surat, Mumbai, Pune, Bengaluru, Chennai, Hyderabad & Kolkata, and connected corridors stated in its Guidelines and Standards for EV PCI with adequate Public EV charging Infrastructure. It is important to mention that the proposed nine cities are expected to see high EV adoption by the year 2030.

In this context, Bureau of Energy Efficiency (BEE), Govt of India have prepared action plan for development of Public EV Charging infrastructure for all 9 cities. Surat's action plan provides a step-by-step approach for estimating vehicle sales under different scenarios as mentioned below:

Vehicle Category	2015	2026			2030		
	BAU / Moderate / Aggressive	BAU	Moderate	Aggressive	BAU	Moderate	Aggressive
2 W	0%	2.50%	20%	40%	5%	40%	80%
3 W	0%	2.50%	20%	40%	5%	40%	80%
4 W Comm.	0%	2.50%	15%	35%	5%	30%	70%
4 W Private	0%	0.50%	5%	15%	1%	10%	30%

Table no - 1 : Growth of new EV Sales under different scenarios in Surat

Further, action plan also provides support in assessing EV charging demand and making projections for requirement of public EV charging stations till year 2030 in the city of Surat. As per the data publicly available, projected growth of public EV charging station till year 2030 is as follows:

EVSE Unit Type	BAU Scenario		Moderate Scenario		Aggressive Scenario	
	No. of charger	Total Cost (INR in Crores)	No. of charger	Total Cost (INR in Crores)	No. of charger	Total Cost (INR in Crores)
DC-001 (15KW)	167	3.00	1142	20.55	2,283	41.09
CCA-II (50KW)	12	0.87	73	5.29	209	15.12
CHAdeMO (50KW)	12	0.92	73	5.62	209	16.07
Total	191	4.80	1288	31.50	2,701	72.30

Table no - 2 : EVSE requirement and cost estimate under different scenarios by 2030

### Way forward proposed by Bureau of Energy Efficiency (BEE) in Action plan for Surat :-

Prioritize installation of public EV charging stations on fuel retail outlets, municipal parking, metro parking and other locations such as Railway station, airport, shopping complexes, hospitals, educational institutions, and government buildings.

Energy and Petrochemical Department may undertake detailed discussions with land owning agencies such as fuel retail outlets, municipal corporations, DISCOMs etc. for providing space for setting up public EV charging stations and dedicated space for EV charging.

Location assessment will lead to identification of most feasible locations for setting up different type of public EV charging stations (slow/fast) for different vehicle segments.

Public awareness and creation of EV accelerator cell will provide a push to deployment of public charging infrastructure in the city of Surat.

State Government needs to play an active role in facilitating availability of land for installation of development of public EV charging infrastructure.

### II. United Nations High Level Dialogue on Energy (HLDE):

High level dialogue on Energy in 2021 was the first global gathering on energy under the auspices of the General assembly since the UN conference on New and Energy held in Nairobi in 1981. It presented historic opportunity to provide transformation action in the first years of the SDG decade of action and support the implementation of the Paris agreement.

In Jan-2021, India was selected as a Global champion for Energy Transition. India's commitments worth USD – 34 billion are nearly half of the total UN Member State's commitments of USD – 73.4 billion including the USA (USD – 25 billion) and the UK (USD – 11 billion).

The ministry of New and Renewable Energy (MNRE), Gol as India's nodal agency for HLDE had selected Surat to join MNRE in theme of Energy transition as part of HLDE. Surat City had submitted following energy compacts under theme of Energy Transition related to Electric Mobility :-

1. Ensure that 20 percent of all new vehicle registrations by 2030 are electric vehicles and bring about a material improvement in Surat City's environment by lowering emissions from transport sector.
2. Convert 741 existing EURO IV City buses into Electric buses by 2025 and add 1000 electric buses in public transport by 2030

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## 01. PREAMBLE

The gradual shift to EVs is essential towards an energy secure future and a clean environment. It will also contribute towards the Sustainable Development Goals (SDG) framework of the United Nations on Climate Action.

The burden of Internal Combustion Engine (ICE) vehicles is huge for the country. There is a need to reduce dependency on a fossil-fuel based economy. Adoption of Electric Vehicles ('EVs') for road transport contributes to a wide range of goals which includes better air quality, reduced engine based noise pollution, enhanced energy security and in combination with a low carbon power generation mix, reduced greenhouse gas emissions.

### National Electric Mobility Mission Plan 2020 :

To enable this paradigm shift in road transport, Government of India formulated a roadmap-National Electric Mobility Mission Plan 2020. As a part of the plan, FAME (Faster Adoption and Manufacturing of Hybrid and Electrical Vehicles in India) pilot scheme was launched in 2015 with an objective to promote new technologies, promotion and adoption followed by launch of FAME-II in 2019 with much bigger budget to enable demand and infrastructure creation to support transformation of mobility. Additionally, the Phased Manufacturing Program has been launched to promote indigenous manufacturing of EVs & EV components and provide a thrust to EV manufacturing in India.

### Gujarat State Electrical Vehicle Policy 2021 :

Gujarat has the highest adoption of battery operated two wheelers in the country, which makes it an ideal proposition for industries to invest in EVs. This policy is being implemented for 4 years effective from 01/07/2021. First 2 Lac Electric Vehicle Owners (1,10,000 - 2 Wheelers, 70,000- 3 Wheelers and 20,000- 4 Wheelers) will be benefited under this scheme.

### Surat City Electrical Vehicle Policy 2021 :

As part of Smart City Program and Solar City Program, Surat City aims to be the "First EV smart City" in the country by early adoption of EVs in the State of Gujarat by providing adequate impetus and support for adoption of Battery EVs and setting up of related charging infrastructures. Keeping in mind, Surat Municipal Corporation has framed "Surat City Electric Vehicle Policy 2021".

## 02. VISION

To envisage Surat as leading EV Smart City in Country.

## 03. OBJECTIVES

Surat City Electric Vehicle Policy 2021 will shoulder the aims and targets of Gujarat State EV Policy 2021 by keeping following objectives in mind:

- I. To facilitate adoption of at least 20 % EVs in the target set in State EV Policy
- II. To promote creation of public and private EV Charging Infrastructure in the city
- III. To mandate adoption of EVs in the Surat Municipal Corporation, Surat Smart City Development Limited, URDCL, Surat Sitalink, Dream City etc in a phased manner
- IV. To adopt the renewable sources of energy into EV Charging Infrastructure
- V. To create the awareness among the citizens for adopting EV by organizing Capacity building programs, seminars, exhibitions etc
- VI. To protect the environment by improving City Air Quality Index
- VII. To give multiplier effect on the economy including employment

## 04. POLICY PERIOD

This Policy shall be valid from 1<sup>st</sup> Jan 2022 to 30<sup>th</sup> June 2025.

## 05. POLICY STATEMENT

Under this policy, SMC will take appropriate actions in followings areas:

- I. Development of Public/Private EV Charging Station infrastructure
- II. Promoting Adoption of Electrical Vehicles
- III. Adoption of Electric Vehicles in SMC
- IV. Database of Public and Private EV Charging Station
- V. Start up and Innovation in EV Sector
- VI. Information, Education and Communication (IEC) activities to create awareness

### I. Development of Public Charging Station :

#### A. Infrastructure Support :

Availability of charging stations is a prerequisite and key driver for adoption of EVs. SMC will initially develop 200 Nos. of public electric vehicle charging station (PCS) in city during the operating period of this policy and may gradually increase depending upon the requirements in future.

SMC will make available PCS in all possible multilevel parking / Zone offices / Pay and Parks/ Science centre / Aquarium / Smimer Hospital / Sarthana Zoo / Heritage fort / Health centres as well as all appropriate public places in phased manner for citizens.

URDCL shall make available PCS on upcoming route of outer ring road.

To further facilitate in the setting up of EV charging stations, the SMC will encourage investments in setting up both slow and fast charging networks in public places through active participation of public and private players.

To boost EVs charging station ecosystem, SMC will undertake appropriate steps including identification of SMC's land and encouraging private investments at key locations.

SMC will motivate through creating awareness for Hotels, shopping malls, Cinema halls and other public gathering places to develop the EV Charging stations for their customers / citizens.

SMC will sign MOU with DGVCL and Torrent Power Ltd - DISCOMs to provide priority electricity connections to EV Charging station.

SMC will sign MOU with RTO to ease out the EV registration process and to get real time data of EVs.

SMC will make collaboration with CREDAI, Surat to motivate through IEC activities for creating awareness to the builders for inclusion of EV Charging Station in their upcoming / existing building projects.

It is anticipated that most private EV users will use home and workplace charging points and would access public charging points for non-daily routes and therefore, appropriate amendments may be undertaken in building bye-laws to ensure EV Charging infrastructure availability in both residential and non-residential buildings in Surat City.

Diamond offices / workplaces, textile companies, corporate offices, educational complexes etc will be motivated through creating awareness to establish EV charging infrastructure in their respective existing premises.

Educational institutions & hospitals will be motivated through creating awareness to switch of their Buses/ Derivatives / Passenger vehicles fleet to Electric Vehicles during operating period of this policy. SMC will develop the EV Charging infrastructure through PPP mode at educational institutions & hospitals.

Existing Residential apartments will be motivated through Information Education Communication (IEC) activities to provide special dedicated plugs / Charging Station facilities inside the campus facilitating adoption of EVs by their flat holders.

SMC will make standard operating procedure for issuance of fire and safety NOC, if required as per National Building Code (NBC) and Central Electricity Authority of India (CEA) for developing EV Charging station.

SMC will prepare e-waste/ battery waste disposal guidelines and procedures.

## B. Incentives :

To make Surat - first EV Smart City in country, SMC is targeting to install 500 nos. of Public / Private EV Charging Stations / Points during the operating period of policy. Therefore, SMC will provide following supports to make the public charging stations /points viable.

### a) Installation of PCS through Public Private Partnership :

With a view to promote creation of Public / Private EV charging infrastructure SMC may grant user rights of 150 nos. of suitable space under SMC's premises (i.e. community

halls, pay & parks, health centers etc) for setting up PCS to any individual / companies / government authorized agencies / government undertaking etc.

Under this support, SMC shall provide land parcels for setting up PCS to government /public entities on revenue sharing basis at a fix rate of Rs. 1 / KWh ( used for charging) from the PCS developer and to private entities on bidding basis with floor price of Rs. 1 /KWh. (As per Ministry of Power, Govt's revised guidelines dtd 14th January 2022 on charging infrastructure for Electric vehicles (EV)).

The space for which the user rights to be granted, shall be strictly use for the purpose of PCS only and any kind of ancillary uses may be permitted only after the prior approval of SMC and as per the rate, terms & conditions set by SMC.

### b) Rebate in Environment Improvement Charge :

SMC will reimburse 100 % Environment Improvement Charge to all Private EV Charging station developers for first 3 years. The detailed procedure to avail this benefit shall be announced in subsequent guidelines.

The Incentive for charging stations will be given to those developers, individuals or entities over and above the benefits / subsidies /Incentives received from either Central or State Government.

All EV charging stations shall adhere to the charging guidelines and standards defined by the Ministry of Power circular dated 01.10.2019, and any amendments thereafter.

Energy Efficiency Cell would play a role of Nodal Department and responsible for providing detailed guidelines for the same to simplify the approval, renewal and inspection process to be completed in a time bound manner.

## II. Promoting Adoption of Electric Vehicles :

### A. Promote EVs mobility in City :

As on March-2022, Total 6699 nos. of EVs have registered in Surat City, the details are as given in below table - 1.

Type of EVs	No of EVs
2 W	6173
3 W	146
4 W	331
Buses and others	49
<b>Total Nos of EVs</b>	<b>6699</b>

Table no - 3 : EVs registered in Surat City as on March - 2022

To promote adoptability of EV in public / private transport, the following measures will be taken in line with the announcements of Central as well as State Government.

Surat City aims to be first EV Smart city in country and therefore, SMC is targeting to facilitate adoption of at least 20 % EVs in the targets set in State EV Policy during the operating period of this policy. The Segments wise target in EVs is given in below table - 2.

Type of EVs	No of EVs presently in Surat City	State's target in State EV Policy Period	SMC's target in City EV Policy Period
2 W	6173	1,10,000	20,000
3 W	146	70,000	15,000
4 W	331	20,000	5,000
Buses and others	49	-	300
<b>Total Nos of EVs</b>	<b>6699</b>	<b>2,00,000</b>	<b>40,300</b>

Table no - 4 : Summary of EVs targeted in Policy

The Policy shall be applicable to all classes of electric vehicles that have taken subsidy under the Government of India's FAME II scheme dated 8th March 2019, F. No1(1)/2019-AEI and Gujarat State EV Policy - 2021 any amendments thereafter.

#### B. Incentives:

To achieve large scale adoption of Electrical Vehicles in the Surat City and to maximize reduction of vehicular pollution, the policy focuses attention on incentivizing the purchase and use of EVs particularly in the segment of 2W, 3W and 4W.

##### a) Vehicle Tax Exemption Benefit :

Incentive of 100 % exemption in vehicle tax for all electric vehicles registered in Surat city for first year from the date of inception of this policy.

Incentive of 75 % exemption in vehicle tax for all electric vehicles registered in Surat city during second year of this policy.

Incentive of 50 % exemption in vehicle tax for all electric vehicles registered in Surat city during third year of this policy.

Incentive of 25 % exemption in vehicle tax for all electric vehicles registered in Surat city from fourth year onwards till operative period of this policy.

##### b) Rebate in Environment Improvement Charge :

SMC will reimburse 100 % Environment Improvement Charge to all EV owners for first 3 years.

The detailed procedure to avail the incentive shall be announced in subsequent guidelines.

#### c) Parking Slots in SMC's Pay & Parks locations :

To support the EV ecosystem, EV owners will be provided parking at no cost to SMC's Pay & Parks locations for three years from the date of inception of this policy.

### III. Adoption of Electric Vehicles in SMC

#### A. City Public Transport :

Surat Sitilink Ltd - A wholly owned subsidiary company of SMC in collaboration with BRTS / Traffic cell aims to adopt EVs mobility in public transport. Surat Sitilink Ltd has planned to adopt EVs mobility in phased manner as mentioned in below:

Cumulative Target No of E-Bus in the policy period (nos.)	Year Wise Targets
75	2021
150	2022
250	2023
300	2024

Table - 5 : Summary of EVs in Public Transport

#### B. Official Vehicles :

SMC aims to adopt Electric Vehicles in phased manner.

#### C. SMC's Employee Vehicles :

SMC's employee credit society will make collaboration with EV manufacturers / dealers for adopting 2 Wheelers & 4 Wheelers EVs for appropriate benefits to SMC's employees.

#### D. E- Pink Auto:

UCD Department of SMC will make collaboration with EV manufacturer / dealers for adopting EV auto rickshaw under "Pink auto project" of SMC.

SMC shall provide additional cash benefit of Rs 5,000 per auto through Direct Benefit Transfer (DBT) mode upto December, 2023. The detailed procedure to avail this benefit will be announced in subsequent guidelines.

#### E. EVs in Door-To-Door Garbage Collecting Vehicles :

SMC aims to adopt Electric Vehicle in Door-to-Door Garbage Collecting Vehicles in phased manner.

#### IV. Database of Public and Private EV Charging Station

To make the use of public charging easier, information on available charging facilities and digital payment modes need to be provided in an integrated interface. Network integration and management policies help in achieving this by mandating standard operating, data-sharing and communication protocols to be followed by EV Charging Station Operators / Owners.

An open, publicly owned database will be developed and maintained by Energy Efficiency Cell of SMC offering historical and real time information on public charging infrastructure i.e., kWh, session length, vehicle type if available, number of events, location (latitude, longitude) of the charger, number of chargers at site, site classification, payment amount, pay structure (by hour, or by kWh, or by session), as well as payment rate.

All Private Charging Operators shall have to provide data to this public data base. The database can be used free of charge by in-vehicle navigations systems and charging apps and maps.

#### V. Start up and Innovation in sector of EVs:

SMC will encourage start-ups in the EV sector and will offer incubation services to them in the form of office space, common facilities and mentoring support.

As a part of the Smart Cities Mission, SMC (Surat Municipal Corporation) and SSCDL (Surat Smart City Development Limited) has setup an institution to promote culture of Innovation, Start-up Incubation, Trade Facilitation & Skill Development.

AIC Surati-lab will play a role of Nodal agency for creating Start up and Innovation in sector of EVs.

#### VI. Information, Education and Communication (IEC) activities to create awareness :

As EVs become more competitive against conventional ICE vehicles on aspects such as cost and performance, one of the biggest hurdles to their mainstreaming is the lack of consumer awareness about EV technology.

SMC will plan to take up following activities to create awareness among the citizens about the EVs:

To organize City level stakeholder workshops for creating awareness about the EVs,

Mass Promotion through national / regional newspapers, social media (Facebook, Twitter), FM radio, public hoardings will be done,

Development Informative website and mobile app,

Other appropriate activities / programs.

### 06. SCOPE AND ELIGIBILITY

To get real time data of EVs in Surat City, Public and Private Charging Stations /Points etc., EV owner / Private Charging Station Owner have to compulsory do registration on SMC's registration desk /portal.

Benefits mentioned under this policy only be made available to the New registered EV owner / Private Charging Station /Point Owner. The detailed guidelines will be announced in subsequently.

### 07. CONVERGENCE

The provisions of this Policy shall be in line with the following central / state schemes / policies:

- a) The National Electric Mobility Mission Plan (NEMMP)-2020
- b) Faster Adoption and Manufacturing of Hybrid and Electrical Vehicles in India (FAME) Schemes are promoted by the Department of Heavy Industries, Government of India.
- c) Gujarat State Electric Vehicle Policy - 2021

### 08. EXISTING TARIFF SCHEDULE FOR EV CHARGING

- a) The state government is providing benefit of 100 % exemption in Electricity duty of EV Charging Station in Gujarat State Electric Vehicle Policy – 2021.
- b) GERC has directed DISCOMs to allow charging of EVs from the existing connection of a consumer at the existing tariff, except from agriculture connection.
- c) GERC has developed a special tariff for EV Charging. Presently, basic rate of electricity is Rs 4 / KWh for HT Consumers and Rs 4.1 / KWh for LT Consumers. Applicable FPPA rates will be charged over and above the basic electricity unit charge.

### 09. NODAL COMMITTEE / DEPARTMENT

- a) Electric Vehicle Policy Managing Committee will be formed in SMC. This committee will perform following actions:
  - I. Undertake Mid-term review & modification in this policy as and when the need arises in view of any technological breakthrough or to remove any difficulties or inconsistency.
  - II. To take decisions related to selection / allocation of SMC's locations for development of PCS through PPP.

The General Board, Surat Municipal Corporation empowers the Municipal Commissioner to decide the members of this committee.
- b) Electric Vehicle Policy Implementing and Interpretation Committee will be formed in SMC. If there is any confusion / dispute about the meaning, intent or purpose of any provision of this policy, the interpretation given by this committee shall be final and binding to all concerned. The General Board, Surat Municipal Corporation empowers the Municipal Commissioner to decide the members of this committee.
- c) Energy Efficiency Cell will be the Nodal Department in SMC and will be responsible for followings:
  - I. To prepare EV plan and EV charging infrastructure plan for the city.
  - II. Planning and Implementation of the policy.
  - III. Developing charging infrastructure in city
  - IV. Information, Education and Communication (IEC) activities for creating awareness

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