# DRAFT: Workshop on Smart Cities: The Future of Electric Vehicles in India

**March 23, 2020**  
*ITC Grand Chola Hotel*  
*Chennai, Tamil Nadu, India*

## Day 1:

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<tr>
<td>8:30 – 9:30 am</td>
<td>Registration</td>
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| 9:30 – 9:35 am | **Opening Remarks**  
  - Mehnaz Ansari, Country Representative, South Asia, U.S. Trade and Development Agency (USTDA)  
  - Vikram Kapur, Chairman and Managing Director, TANGEDCO |
| 9:35 – 9:40 am | **Welcoming Remarks**  
  - Neelima Jain, Deputy Director and Senior Fellow, Centre for Strategic and International Studies (CSIS) |
| 9:40 – 9:45 am | **Welcoming Remarks**  
  - Dan Sieger, Undersecretary of Environment for Massachusetts |
| 9:45 am - 10:10 am | **Pre-session: State Profiles and EV Policies**  
  *Description:* Provide a brief profile of the transportation sector in Massachusetts and Tamil Nadu and ongoing electrification policy development.  
  *Key Massachusetts Officials:*  
  - Dan Sieger, Massachusetts Undersecretary of Environment  
  - Will Lauwers, Director of Emerging Technology at Massachusetts Department of Energy Resources (DOER)  
  *Key Tamil Nadu Officials:*  
  - Vikram Kapur, Chairman and Managing Director, TANGEDCO |
| 10:10 am – 11:00 am | **Session 1: Integrating and minimizing the total cost of EV load growth**  
  *Description:* This session will discuss policy strategies for managing EV load growth under the unique infrastructure constraints and economic challenges in both states.  
  *Discussion questions:*  
  - To what extent can states plan for EV load growth?  
  - Is it feasible to treat EVs as energy assets? What market rules would need to exist?  
  - What IT infrastructure would be necessary to enable these transactions? |
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<td>11:00am – 11:20am</td>
<td>Tea Break</td>
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| 11:20am – 12:10pm | **Session 2: State role in EV adoption**  
*Description:* This session will discuss policy strategies for increasing EV adoption across sectors.  
*Discussion Questions:*  
- How do MA and Tamil Nadu private vehicle fleets differ, and are the adoption challenges similar?  
- What levers of policy can the state use (building codes, congestion fees) to incentivize EVs?  
- How can standardization help boost interoperability in the emerging EV market?  

Key Massachusetts Officials:  
Christine Kirby, Regional Planner for MA Department of Environmental Protections  

Key Tamil Nadu Officials:  
C. Samayamoorthy, Transport Commissioner for Tamil Nadu  

| 12:10pm – 1:00pm | **Session 3: Business’ role in EV adoption**  
*Description:* This session will focus on harnessing the private sector and synchronizing public and private efforts towards reaching E-mobility goals.  
*Discussion Questions:*  
- How can private companies help achieve Tamil Nadu’s EV goals, while also bolstering local industry?  
- What kind of policies do industries seek before making investments in the EV space? Is there a role for Public-Private-Partnership on these policies?  
- What are the best business models to be learned from outside Tamil Nadu, and how can they be adapted to work best there?  

ANSI:  
BIS:  
CII:
### Key US Officials:
- Galen Nelson, Clean Energy Technology Development and Commercialization Acceleration Professional, Massachusetts Clean Energy Center (MassCEC)
- Rachel Ackerman, Senior Manager, Massachusetts Clean Energy Center (MassCEC)

### Key Tamil Nadu Officials:
- TBD Official, Confederation of Indian Industry (CII)

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<td>1:00pm - 2:00pm</td>
<td>Lunch</td>
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| 2:00pm – 2:50pm | **Session 4: Job Growth and EV Economic Impacts**  
*Description:* This session will explore how each state should leverage its economic strengths to capture growth opportunities from EV adoption.  
*Discussion Questions:*  
- What are the direct job implications of EV manufacturing in Tamil Nadu?  
- What kind of policies can Tamil Nadu and Massachusetts adopt to accomplish Green House Gas (GHG) reduction goals while relevant industries benefit from vehicle electrification? |
| 2:50pm – 3:40pm | **Session 5: Standards and their Role in EV Policy**  
*Description:* This session will discuss the importance of standardization to the EV space, with introductory remarks from USTDA or CII. ANSI and the Bureau of Indian Standards (BIS) will also feature prominently.  
*Discussion Question:*  
- How does standardization help boost interoperability in the emerging EV market?  
- How can the state government and industry cooperate to make standardization as effective as possible? What role can BIS and ANSI play in this relationship? |

### Key Speakers:
- TBD Official
- BIS
- ANSI
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<th>Session 5: The Role of a State-to-State Partnership</th>
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| 3:40 – 4:30 | **Description:** This final session will explore how Tamil Nadu and Massachusetts can collaborate through their proposed partnership to achieve their high-level transportation electrification policy goals.  
**Discussion Question:**  
- How can EVs serve as a part of the greater Tamil Nadu-Massachusetts energy partnership?  

**Key Massachusetts officials:**  
Christine Kirby, Regional Planner for MA Department of Environmental Protections  
Dan Sieger, Massachusetts Undersecretary of Environment  

**Key Tamil Nadu Officials:**  
Dheeraj Kumar, I.A.S., Principal Secretary to Government, Energy Department  
Alternate: Vikram Kapur  

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| 4:30 – 4:45 | - Neelima Jain, Deputy Director and Senior Fellow at the Center for Strategic and International Studies (CSIS)  
- Vikram Kapur, Chairman and Managing Director, TANGEDCO  
- Mehnaz Ansari, Country Representative, South Asia, U.S. Trade and Development Agency (USTDA)  
- BIS/CII/ANSI |

On March 24, a one-day site visit to an EV charging station (CMRL Nandanam Station), an E-bus charging station (MTC Depot, Pallavan Sallai), and an EV facility (Asokleyland) is planned as part of one of the workshop series. This event is by invitation only. Further details are being solidified.