







implementation.

Action Checklist for Municipalities and Public Transport Providers: **E-Buses**

How to electrify urban transport? BSR electric has developed five Action Checklists for E-Bikes, E-Buses, E-Ferries, E-Scooters and E-Vans & E-Logistics – to give a brief overview of important aspects to bear in mind for decision–making.

Tendering processes favor **Transport System City Development &** emission free vehicles (green Planning Set a timeline for the stepprocurement as the default by-step transition to a 100% option) or grant bonuses for Develop a long term vision for climate friendly solutions. the transport system. emission-free bus fleet (e-buses, fuel cell buses) Search actively and apply for Provide sufficient areas to the with intermediate goals every the various funding transport companies for the couple of years and consider programs, both on EU and on construction of new EU timelines. local level. infrastructure (chargers, depots, workshops). Make sure you have the right Engage in dialogue with the expertise and sufficient public transport companies Consider e-bus specific capacity to drive forward the before defining goals: requirements, limitations Commonly assess the transition to emission-free and new possibilities in city technology available and find planning. transport (capacity the best solution. development). Take the time to prepare a **Public Awareness** Create incentives for citizens comprehensive technical to change to public transport Promote the change: How description of the transport (e.g. creation of a 365€ ticket does e-mobility improve system. This facilitates the for a year) in collaboration quality of life for the citizens? communication and planning with public transport Quantify the benefits. Highwith the transport companies providers. and Original Equipment light positive side effects on health, reduction of pollution Manufacturers (OEMs). Ensure a good collaand noise, well-Build networks with other boration and exchange being fighting climate cities in order to bundle and between transport planning change, increasing public align procurement and thus transport to achieve less from the municipality and improve the negotiation congestion and more livable from Public Transport position towards OEMs. cities. Providers. Pay close attention to the Perform broad campaigning **Procurement** planning of timelines as for the positive aspects of the delivery times for electric sustainable mobility Foster sustainable urban vehicles, infrastructure and transition and what the transport systems.: Lobby for IT systems can be longer than municipality is doing. Make financial incentives to be conventional procurement public transport more introduced on a national level. processes. Start the planning attractive & enjoyable. process early enough! Have the bravery to be a pioneer of new technologies, but consider sufficient time for troubleshooting and

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Strategic Partnerships & Networks

- Partner & Network with business, organizations and academia to facilitate the transition to e-mobility (e.g. CIVITAS partner cities).
- Build networks with other municipalities and transport providers: Look out for knowledge on success and best practice, join forces for procurement of buses, infrastructure and IT-systems.
- Engage energy companies to ensure availability of electric power.

For Public Transport Providers

- Consider e-bus specific boundaries when planning routes and lines (maximum range, charging infrastructure & strategies).
- Ensure procurement of electricity from sustainable sources for the public transport.

- Implement penalties in the contracts with manufacturers to prevent delays and quality problems, but consider a good balance between penalties and incentives in for a good and successful cooperation.
- Implement data usage requirements in the tendering process: Ensure that all relevant operational bus data is available to the transport provider to enable data analysis and monitoring.
- Pay special attention on the planning of electric infrastructure: Start early with contacting and involving the grid operator and other new stakeholders for the gridand charging infrastructure.
- Check the infrastructural preconditions: Presence of electrical supply lines, voltage level, amperage and electric power for charging. Get detailed technical information for the grid capacity and the process for permissions for grid connection and charging infrastructure.
- Decide a strategy for charging infrastructure and tender. Who is going to build and own the charging infrastructure, - the transport provider, the infrastructure operator, the grid owner or a separate company with charging infrastructure competence and according business model? If a separate company is chosen as owner for the charging infrastructure, it is important with comprehensive, wellthought-out legal agreements for the operation.
- Driving efficiency has a significant impact on range and charging needs of the e-buses. Tools and processes for supporting the driver to maintain an optimum driving mode will optimize the energy consumption and reduce operational costs.

BSR electric project partners:





























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