



ELIPTIC BARCELONA USER FORUM

ELIPTIC User Forum Survey Barcelona

Scaling up electric buses – From demonstration to entire fleet

Welcome to the ELIPTIC User Forum survey in preparation for the Barcelona meeting on 7-8 November 2017. Please note, completion of this survey is a required part of your participation in the User Forum and take the time you need to complete it carefully. It creates an excellent opportunity to learn from each other's experience and knowledge.

Please complete the survey by **27 October 2017** so that we have time to process the results before we meet.

Survey rules:

- The survey results will be presented in Barcelona during the User Forum meeting.
- Results of the survey will be aggregated; individual data will be kept confidential.
- Each member of the ELIPTIC User Forum is to complete the survey, irrespective of their participation to the Barcelona meeting.
- If you have more than one representative of your organisation attending the User Forum, please combine efforts and submit only ONE survey per organisation.

For further information, please contact Yannick Bousse, yannick.bousse@uitp.org



General

1. Name of your organisation.

Open text box

Scaling up electric buses – From demonstration to entire fleet

1. What public transport fleets are operated in your city? Please provide the number of vehicles per type of fleet.
 - Diesel buses <12m
 - Diesel buses 12m
 - Diesel buses 18m
 - Battery electric buses <12m
 - Battery electric buses 12m
 - Battery electric buses 18m
 - Hybrid buses <12m
 - Hybrid buses 12m
 - Hybrid buses 18m
 - Trolleybuses 12m
 - Trolleybuses 18m
 - Trolley-hybrid buses 12m
 - Trolley-hybrid buses 18m
 - Fuel cell buses <12m
 - Fuel cell buses 12m
 - Fuel cell buses 18m
 - Trams/light rail
 - Metro
 - Regional and suburban railway

Other, please specify

Open text box

2. How does your country or city define of a clean bus, and is the auxiliary power consumption included in the definition?

Open text box

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3. What is the structure of bus transport delivery in your city?

Tick box

Bus route concessions are granted route-wise	
Concession grant covers multiple routes of the city	
Concession grant covers all bus routes of the city	

Other, please specify

Open text box

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4. What is the operational structure of the bus network of your city?

Tick box

Vehicles are operated on one single route (dedicated to specific route)	
Vehicles are operated on many or all routes	

Other, please specify

Open text box

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5. Is there a strategy for the further roll-out of electric buses in your city?

Tick box

Yes	
No	
Currently working on it	

Please specify

Open text box

6. Are there a defined goal in this strategy?

Tick box

Yes	
No	
Currently working on it	

Please specify

Open text box

7. Have you defined stages of the roll-out in this strategy?

Tick box

Yes	
No	
Currently working on it	

Please specify

Open text box

8. To what extend does the strategy monetise the below operational expenses?

Tick box. If possible, one selection possible per column.

	<i>not assessed / investigated, yet</i>	<i>quantified for the change-over of a certain part (e.g. a few bus routes)</i>	<i>quantified for the changeover of the entire bus network / fleet</i>	<i>I don't know</i>
Potentially required additional vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potentially required additional driver time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potentially required additional deadhead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Required charging / refilling infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. Does a financing concept exist for implementation of the strategy?

Tick box

Yes	
No	
Currently working on it	

Please specify

Open text box

10. Is the financing already in place?

Yes	
No	

Please specify

Open text box

11. Who will own, and who will operate the following parts of the system?

Tick box matrix with multiple answers possible.

	Vehicle ownership	Vehicle operation	Charging infrastructure ownership	Charging infrastructure operation
City authority				
PTA				
PTO				
Utility company / electricity network operator				
Other (private) company				
Other (please specify)				

12. Is funding from the EU, national government, or regional government included in the strategy?

Tick box

EU	
National government	
Regional government	

Other, please specify

Open text box

13. What major barriers to the strategy/ to upscaling electric buses in your city do you currently see or anticipate for the future?

Please specify

Open text box

14. Which stakeholders are involved in upscaling electric buses?

Tick box

City administration / transport authority	
Operator of electric infrastructure	
Electricity network operator	
Electricity supplier	
Maintenance provider	
Funding donators	

Other, please specify

Open text box

15. Do you have a procurement concept for a large electric bus fleet?

Separate procurement from different manufacturers for electric buses, charging infrastructure and maintenance – high flexibility/ low risk of lock in	
Single contract with manufacturers for electric buses, charging infrastructure and maintenance – low flexibility/ high risk of lock in	

16. Rank the priority of the following criteria, 1) flexibility and 2) lower risk of lock in when procuring electric buses, from one to ten. One being very low priority and ten being very high priority.

Flexibility

Ranking from 1 to 10

Lower risk of lock in

Ranking from 1 to 10

17. What in your experience are the auxiliaries' related barriers for upscaling an ebus fleet?

Tick box

Political	
Technical	
Financial	

We have no significant barriers	
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Other, please specify

Open text box

18. Do you have existing policies in your city that determine how your auxiliaries are powered?

Tick box

Yes	
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No	
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If yes to Q18, follow up question:

What electric auxiliaries are you allowed in your city?

Additional fossil fuel HVAC (not zero emissions) allowed	
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Additional bio fuel HVAC (not zero emissions) allowed	
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Full-electric HVAC mandatory	
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Other, please specify

Open text box

If no to Q18, follow up question:

Why not?

Auxiliary power for HVAC not needed	
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Policy not necessary	
Policy being developed	

19. Are zero emission buses including electric auxiliaries a deal breaker to scale up ebus fleets in your city?

Tick box

Yes	
No	



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20. Any further comments not yet covered?

Open text box



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THANK YOU FOR COMPLETING THE SURVEY

We look forward to meeting you in Barcelona and to discussing the results. For further information, please contact Yannick Bousse, yannick.bousse@uitp.org