

Table 4-4: Deployment: Route Planning – Challenges and Best Practice Solutions.

Challenges	Best Practice Solutions
<ul style="list-style-type: none"> • FCBs may have permitting issues for travelling through tunnels • FCBs often have much of their FC components on the roof and are therefore taller. This can be an issue for constrained height areas (e.g. bridges, overhanging branches) • FC Buses that run on longer routes, or hilly routes have sometimes been found to have issues with the battery running empty due to inappropriate software settings for re-charging the battery from the fuel cell 	<ul style="list-style-type: none"> • While this should not be a problem in the future, undertaking a route inspection to determine any safety or operational hazards that may arise can be helpful. In some cases, this has been mandated by permitting authorities • In the case of a private road, tunnel or ferry, the owner may apply individual requirements • It is recommended that all routes are examined and tested • The JIVE projects have tested FCBs on a wide range of routes including inner city; cross boundary routes (inner city – residential – semi-rural). They have also tested buses on a wide range of topographical settings from hilly medium runs to flat long run to long run with many stops. Generally, few problems have been encountered • In some cases, the charging regime needed adjusting to allow for faster, longer runs or for hilly routes