

## **BAE Systems Power and Propulsion Solutions: Response to the Draft London Plan**

We are pleased to respond to the Mayor's Draft London Plan. We welcome the Plan's recognition of air quality and emissions in construction as a growing concern for London, and the desire to work together with industry to make much-needed improvements. In responding, we want to highlight the important role BAE Systems' hybrid technology can play in improving air quality by helping London make the transition to a low emission city in a sustainable and cost-effective way.

### **Our commitment to London**

We power approximately 700 double deck buses in London, making a significant contribution to improving air quality and we are committed to the further roll out of new hybrid buses. Hybrid technology has been proven to significantly reduce CO2 emissions with the latest low emission buses demonstrating greater than 30% reductions against like-for-like standard buses.

We are supporting TfL's plan to deliver the ULEZ by supplying world leading hybrid and electric driveline technology to UK based bus manufacturers.

We are continuing to invest in hybrid technology, leading to new products that cost less to buy and run and produce fewer emissions. The same technology that powers hybrid buses is now being applied to water borne transport with the same benefits. In our recent submissions to the Mayor's Transport and Environment Strategies consultations we called for City Hall to implement new policies that encourage the take up of this technology by river users on the Thames.

### **Improving air quality and minimising emissions (Policy SI1 / Policy SI2)**

Generators for construction are a huge contributor to emissions from Non-Road Mobile Machinery (NRMM) and there is already a plan for a NRMM Low Emission Zone. **Hybrid generators are becoming commercially available and these should be considered as part of the NRMM LEZ.**

We are working with our partners to bring our specialist hybrid technology and our experience adapting our solutions to the development sector. **The Mayor, the GLA and London councils should seek to encourage developers - whether through policy or informally - to make use of hybrid generators in order to lower emissions from stationary power on development sites.**

### **Energy infrastructure (Policy SI3)**

While the goal of increasing the use of electric vehicles in London is right, our streetscapes are not yet equipped with the required infrastructure to service them. The widespread uptake of electric vehicles will place new and increasing demand on London's energy infrastructure. Boroughs and providers need support in the long-term to deliver on the Plan's objectives in this area.

In the meantime, hybrid technology can offer significant emissions reduction without the need for additional energy infrastructure and so should be championed. **Hybrid buses, trucks and other vehicles should be considered as part of the mix of technologies going forward to deliver on our commitments to improve air quality.**

### **Water transport and protecting our waterways (Policy SI15 / Policy SI17)**

We are supportive of proposals to increase the use the Thames for development related freight traffic. However, this policy risks simply shifting emissions from road transport to the river.

BAE Systems  
Electronic Systems  
Marconi Way  
Rochester  
Kent  
ME1 2XX

T +44 (0) 1634 3445  
[www.baesystems.com](http://www.baesystems.com)



**To mitigate this, emission reduction technologies should be considered, including stricter engine standards for the river and hybridisation. Furthermore, this should be looked at in conjunction with the Port of London's new Air Quality Plan.**

The technology exists to support such changes today. We would welcome the opportunity to work with the Mayor and his team to make this a reality.