

Sustainable Defence Support Sub-Working Group

Sustainable Defence Support Implications Paper - Task Mandate

Version Control

Version Number	Description	Date	Comments
0.1	Initial WiP	9 April 20	Not endorsed for comment and approval
0.2	Updated with Comments	17 April 20	For endorsement by co-chairs
1.0	For issue	17 April 20	For issue will be agreed at start up meeting

Governance

Under governance of the SDSpSWG

- Co-chairs:
 - MOD: Capt D Exworthy (RN)
 - Industry: Tony Dawe
- Task Group Lead: Juan Gomez-Prado
- TD Info Support: Steve Green

Aspiration

In June 2019 the Government announced new legislation to realise a Net Zero 2050 (NZ50) target. This means that decarbonisation should take place and any emissions will have to be balanced by schemes to offset an equivalent amount of GHG (Green House Gases) from the atmosphere.

The aim of this task is to produce a joint MOD and Industry White Paper outlining a roadmap for transformation across Defence Support Network related operations to achieve the Net Zero targets. This should consider the full spectrum of operations and identify a roadmap of activity that will move Defence towards more sustainable activities, greater self-sustaining Force Elements and resilient low carbon systems. Realisation of this will require Defence Support to influence and act across the entire capability and operational lifecycle.

Outcome

Developing sustainable solutions for Defence is a complex messy problem involving many cross DLoD stakeholders and systems.

The aim of this task is to analyse the complex system of systems in order to explore the boundaries, identify touch points and recommend how to exploit Defence Support levers in optimising the Support Network to realise a carbon neutral MOD. The paper will consider not only what Defence Support can do but identify the potential Logistic and Engineering Support implications as Capability Acquisition reacts to the challenge.

The paper will provide an evidence-based call to action for Defence Support improvements to transition towards carbon neutral support solutions and maintain its outputs as the MOD aligns with the Government NZ50 target.

The paper will inform the Sustainable Defence Support (SDSp) Sub Working Group (SWG) to develop the MOD and Defence Support network to capture, share and exploit existing carbon-free options and realise financial and environmental benefits. The white paper will:

- Provide an evidence base covering the current and emergent technologies for manufacturing and use of sustainment, circular economy and sustainable solutions, required standards and the associated deployment roadmap
- Also consider other elements that would allow self-sustaining operation of UK and remote bases
- Identify a programme of work that will inform policy/regulation decisions that will be required within the MOD for adoption of non-carbon-based solutions
- Identify potential Government programmes that could provide funding for deployment of this initiative
- Consider the required R&D funding for a pilot programme that will build the evidence base of the potential impact on MOD operation

Development Roadmap

The white paper shall present a development roadmap which will lay out current Industry activities and present what opportunities the MOD should pursue between now and 2050 to meet Net Zero and sustainability targets. This could include but is not limited to changes in the current support and fuel policy, the time scales, cost analysis and ROI information so that the functional owner for Defence Support can establish Guidance and Direction across the Support Network.

White paper

The joint paper shall build up the evidence pack to support the MOD case for moving to a self-sustaining non-carbon-based support operations. It should improve understanding and identify where and how Defence could capitalise on existing infrastructure to adopt, adapt, develop, implement and exploit existing “green” technologies for the decarbonisation of its operation.

The joint MOD and Team Defence Info badged white paper will describe:

1. The vision statement and challenge facing the MOD to support zero net emission target and self-sustained operations
2. The main emitters in the network, identify those that are Def Sp owned and the support implications of change
3. The ways in which Support can influence wider Defence and where it needs to focus its own efforts
4. The ways in which Defence could adopt low carbon solutions both in the firm base and on deployed operations
5. And assess the required changes to Defence policy and standards
6. Potential for experimentation and demonstration through prototype warfare / ‘Living Laboratories’, e.g. Salisbury Plain Estate
7. How the MoD should measure the current benchmark and achieved future emissions and other criteria
8. The potential impacts (pains/gains, benefits/risk)
9. Funding options: Industry, MoD and OGD (such as Department for Business, Energy and Industrial Strategy (BEIS), etc)
10. The ranked (PCT) opportunities
11. A call to action with recommended way forward – development roadmap

Task Group

MOD and Team Defence Information will reach out to members and colleagues to encourage participation. A joint task group will be formed with indicative contributing members to include:

- Army
- Navy
- RAF
- Dstl
- DE&S, including DLE? (LDOC?)
- Defence Fuels
- Defence Infrastructure Organisation?

- Abbot Risk Consulting
- Air tanker
- Akselos
- AMEY
- ATKINS
- Babcock
- BAES
- BMT
- Energy KTN
- INTERSERVE
- JACOBS
- JLR
- Kellogg Brown & Root
- K&N
- LEIDOS
- Marshalls
- PA
- SERCO
- Rolls Royce
- Toyota
- QQ
- William Advanced Engineering
- Worldfuels

Task Duration

10 - 12 weeks (to be issued July 2020)

Communication

1. The outcomes will be presented at the next SDSp SWG
2. The white paper will be available for download from the TDInfo website
3. The white paper will be distributed by the SDSp SWG Co-chairs to a selected MOD and Industry target group

Activities

1. Mobilise – establish team, set up work environment, agree task scope
2. Conduct discovery - across MOD and Industry, need to look outside of defence suggested key sectors, automotive, oil and gas, infrastructure, space (data gather)

3. Assess the Currently state of play – cross sector analysis to baseline maturity of solutions, emerging practices, technologies and standards
4. Consider the options – opportunities, risks, exploitation of current activities, gap analysis, pros and cons
5. Map out the plan - identify recommended set of actions and put into a ROM costed plan including anticipated RoI
6. Write the report - populate strawman as task progresses this stage is about finalising
7. Peer review – by contributors
8. Communicate and distribute

Ways of Working

- All information will be publicly available
- Content will be created collaborative
- Content is to be peer reviewed and agreed
- A Kahootz share has been created to enable collaboration across the MOD and Industry boundaries
- Regular touch point skype calls will be scheduled to assess progress and direct the work

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