

IEMA Webinar:

Considering Greenhouse Gas Emissions in EIA

25 08 2020 Rufus Howard (IEMA), Anne-Marie Warris (Ecoreflect) James Peet (WSP) and George Vergoulas (Arup)



George Vergoulas Sustainability Associate Principal Consultant Arup



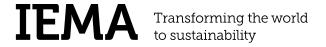
James Peet **WSP**



Dr Anne-Marie **Warris** Director Ecoreflect



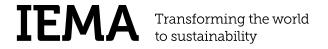
Dr Rufus Howard Impact Assessment Policy Lead **IEMA**



Webinar slides and recording

This webinar is being recorded. The recording and presentations will be made available for IEMA members on iema.net within 48 hours of the webinar.





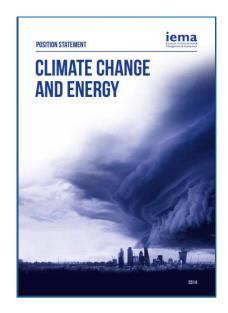
Q&A

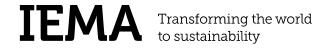
Send in your questions as we go through the session – we'll have plenty of time after the presentation.



IEMA's Position Statement - 2014

- 1. Climate Leadership & professional urgency
- Policy frameworks and strategic developments to support certainty and confidence
- 3. Recognition, integration and embedding Climate Change and Energy as central and mainstream business issues
- 4. Reporting, disclosure and increasing transparency on climate change and energy performance





THE GREENHOUSE GAS MANAGEMENT HIERARCHY

AVOID

- Within all major business decisions investigate options to eliminate GHG emissions
- Potential exists when organisations change, expand, rationalise or move business
- · May lead to new business model, alternative operation or new product/service

REDUCE

- Efficient use of energy, vehicles, staff (e.g. energy and fleet management)
- Increased resource efficiency per unit
- Reduced costs and lower total/net energy demand



- · Adopt renewables/low carbon technologies (on site or through vehicle fleet)
- Reduce carbon (GHG) intensity of energy use
- Through suppliers, purchase goods and services with lower embodied emissions

COMPENSATE

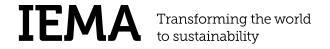
- Investigate 'green energy' tariffs and high quality carbon offsets
- Develop a strategy to compensate on residual or 'unavoidable' emissions
- Consider supporting community products (ie both carbon and CSR benefit)

2019 Emergency Declaration – rooted in science

- "IEMA and its members have been working to transform the world to sustainability....
- The 2018 report from the IPCC and 2019 report from IPBES show that the current rate of transition places us on a trajectory that has catastrophic implications for global society and the environment.
- Systemic change is required within a very short timeframe.
- IEMA therefore declares that there is a climate and environmental emergency and calls upon all organisations to respond with urgency and action."



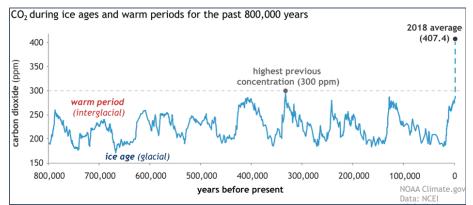
Why are GHG important?



Why are GHG emissions important?

"GHG emissions from all projects contribute to climate change – the largest inter-related cumulative environmental effect"

"The Consequences of a changing climate have the potential to lead to significant environmental effects on all EIA topics, e.g. land quality, biodiversity, water scarcity, air quality, etc."





Why are GHG emissions important?

Public awareness of climate issues and appetite for action has increased significantly over the last few years:

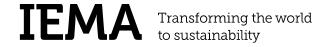
- Youth Climate Strikes
- Extinction Rebellion
- Significant media attention

The Committee on Climate Change (CCC) advised the UK government to revise its 2008 Climate Change Act resulting in the first major economy to set a 'net zero' emissions target.

There is a lot of work to be done. For example, the infrastructure sector accounts for approximately 50% of UK GHG emissions and there's £600b earmarked for further growth and development.

Directive 2014/52/EU was transposed into UK as the 2017 EIA regs

iema.net

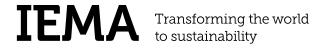


Why are GHG emissions important?

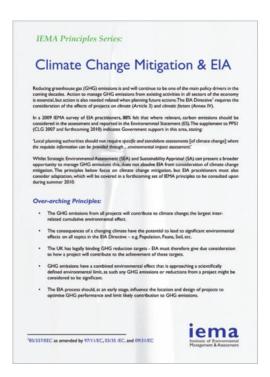


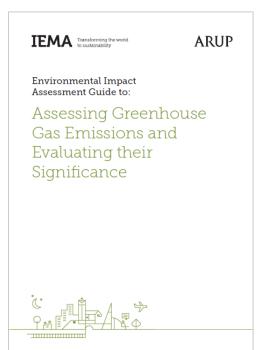


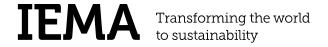
IEMA Guidance



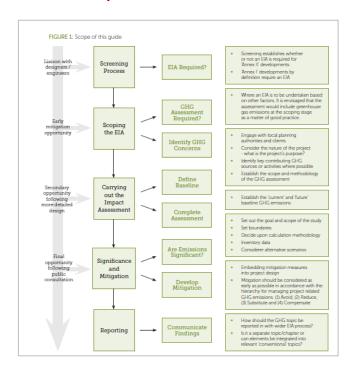
IEMA Guidance



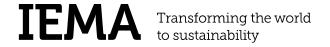




IEMA Guidance – the scope



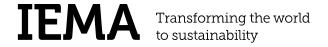
iema.net



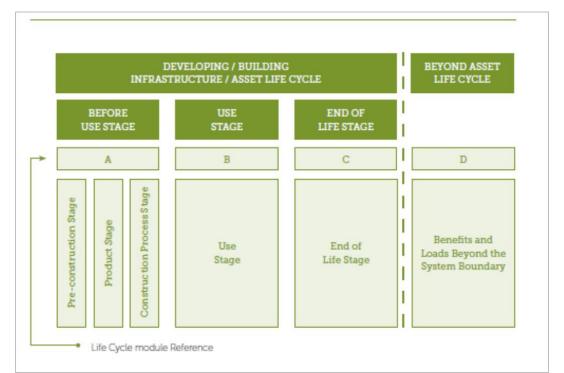
IEMA Guidance – key points

- A 'good practice' approach is advocated where GHG emissions are always considered and reported but at varying degrees of detail depending on the EIA project
- A focus on proportionate assessment is also important in avoiding undue burden

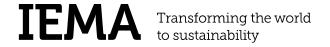
Mitigation ideally should be embedded throughout the project life



IEMA Guidance – LCA Approach



iema.net



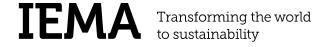
IEMA Guidance – significance

"GHG emissions have a combined environmental effect that is approaching a scientifically defined environmental limit, as such any GHG emissions or reductions from a project might be considered significant"





The Current Situation

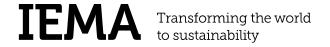


Current Situation

Progress has been made since 2017 resulting in a more consistent approach to GHG assessment for EIA because:

- Improved Guidance (IEMA etc)
- 2. Increased awareness of best practice GHG assessment methods by Developers, EIA practioners and specialists.
- Increased scrutiny of the climate change element of the planning process

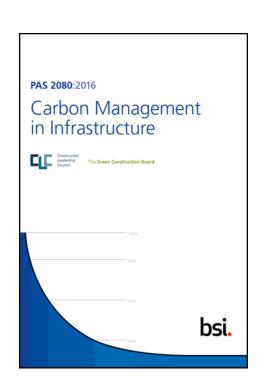


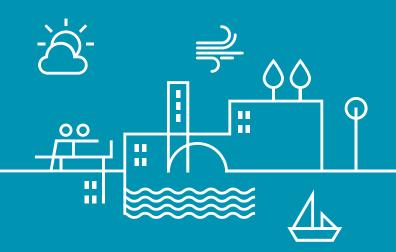


Current Situation

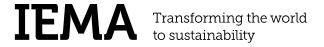
However there are some outstanding areas that could be improved:

- Is a GHG assessment always needed?
- Tailoring the GHG assessment to the project scale / impact
- Missed opportunities for mitigation is EIA the right 'vehicle'?
- Assigning significance is still mainly based on professional judgement
- There is no right answer when applying the net zero test
- Is EIA is not providing a clear steer on what a good project looks like
- Inconsistent application of guidance and methodologies





Q&A Session 20 mins with panel



Closing remarks

