

Q&A Record Preparing Developers, EAPs and CAs for Green Hydrogen development

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Preparing Developers, EAPs and CAs for Green Hydrogen development

Question Details

1 In terms of developing these strategies for development of the Green Hydrogen Economy: how much focus is given / work being done in terms of true cradle-to-grave considerations? Where are the materials used to manufacture solar panels and wind turbines mined? What are the environmental and economic implications of importing these components of green energy (and green hydrogen) to SA? Do we as SA have the technology and capacity to deal with these components at end of Life (recycle them, landfill them?). It seems that everyone is getting very excited about a Green Hydrogen Economy, without fully understanding the implications of where the elements come from, and where they will go. As humans, we created a problem for ourselves and the world when everyone got excited about Coal (and nuclear energy), how do we prevent this excitement about Ptx from causing problems we can't foresee? Anonymous Attendee

Under the GIZ H2SA programme, soem Life Cycle Assessment work has been undertaken specifically for green ammonia (cradle to gate and gradle to grave) . See here:

https://greenhydrogensummit.org.za/wp-content/uploads/2025/02/GH_-LCA-Green-Ammonia_4Feb_draft1.pdf

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Indeed, because green hydrogen consists of several large-scale industrial subcomponents, cradle to grave issues, and cumulative impacts require careful consideration! 4/9/2025 10:31 4/9/2025 10:41 Luanita Snyman-van der Walt lvdwalt1@csir.co.za

2 In terms of Human Capital resources, do we have the number of EAPs to run with this brilliant very important future of energy? Anonymous Attendee At the scales of the South African and global ambitions, EAPs and authorities will need to be capacitated and equipped to deal with the industry timely! 4/9/2025 10:56 4/9/2025 11:01 Luanita Snyman-van der Walt lvdwalt1@csir.co.za