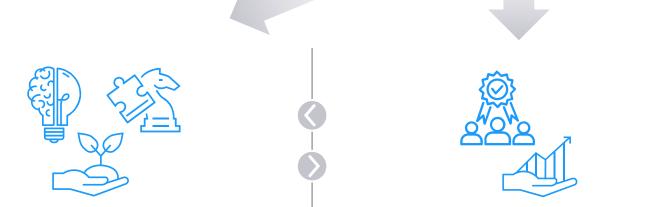
## **HYDROCIM**: Hydrogen Carbon Intensity measurement tool

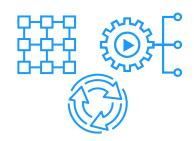


HYDROgen Carbon Intensity Measurement Tool



Emission databases
Emission factors for various
considerations (2024 onwards)





**STANDARDS** 

Definitions for green and low carbon hydrogen/derivatives

Our proprietary tools would allow us to quickly estimate the carbon intensity of green ammonia even at the concept stage

## We will be mapping emissions across the value chain for lifecycle assessment (LCA) as per the RFNBO regulations as set out in Article 28(5) RED

**ILLUSTRATIVE** 

$$E = e_i + e_p + e_{td} + e_u - e_{ccs}$$

	Value Chain GHG Emissions Mapping						
	1. Input materials	2. Plant Operations	3. Transportation & Distribution (etd)			4. Emissions from Combustion	Total Emissions across
	(ei)	(ер)				in End Use (eu)	Value Chain (E)
Activity	Consumables	Electricity for Production + Storage at Plant	3.1 Plant to Destination Port (xx Port)	3.2 Shipping (Paradeep to xx Port)	3.3 Storage at xx Port	Emissions while using ammonia as fuel	(1)+(2)+(3)+(4)
Emissions in KgCO2e/Kg ammonia for each segment	xx	xx	xx	xx	xx	xx	хх
Emissions in gCO2e/MJ of ammonia for each segment	xx	xx	xx	xx	xx	xx	хх
	xx	xx		xxx		xx	xx

