

Freedom of Information

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s22

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**From:** MediaTeam**Sent:** Tuesday, 25 January 2022 4:21 PM**To:** s22 [@industry.gov.au](mailto:@industry.gov.au); s22**Cc:** s22 [@industry.gov.au](mailto:@industry.gov.au); s22 [@industry.gov.au](mailto:@industry.gov.au); s22 [@industry.gov.au](mailto:@industry.gov.au); s22 [@industry.gov.au](mailto:@industry.gov.au); MediaTeam <[MediaTeam@industry.gov.au](mailto:MediaTeam@industry.gov.au)>; s22 [@industry.gov.au](mailto:@industry.gov.au); s22 [@industry.gov.au](mailto:@industry.gov.au); s22 [@coxinalldentsu.com.au](mailto:@coxinalldentsu.com.au)**Subject:** RE: Info source [SEC=OFFICIAL]

Thanks s22

I've sent the lines up to the MO and asked them to copy us into the response to the journalist, which we can share with s22

FYI, this is what I sent s22

s22

Hi s22

The hydrogen and HESC teams have provided the following information. Please note, the CoxInall PR man for HESC has now received the same query from the same journalist. So could you copy any response to us, and we'll make sure he sees what you send back.

The estimate on emissions saved is from the HESC project. The following lines explain how they came up with the estimate, based on IEA and CSIRO estimates and data in the National Hydrogen Strategy.

The estimation has been calculated as follows:

Most of the hydrogen produced today is via steam methane reforming (SMR) with no CCS. Data in Australia's National Hydrogen Strategy reports that this produces around 8.5 tonne[4] of CO<sub>2</sub> per tonne of hydrogen.

CSIRO data states that coal gasification with CCS produces around 0.71 tonne of CO<sub>2</sub> per tonne of hydrogen[5].

Therefore, the HESC Project could save 1.8 million tonnes of CO<sub>2</sub> per year. (8.5 minus 0.71 multiplied by 225,000).

Regards,

s22 .

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OFFICIAL

**From:** s22

**Sent:** Tuesday, 25 January 2022 4:09 PM

**To:** s22 @industry.gov.au>; s22 @industry.gov.au>

**Cc:** s22 @industry.gov.au>; s22 @industry.gov.au>;

s22 @industry.gov.au>; MediaTeam <MediaTeam@industry.gov.au>; s22

@industry.gov.au>; s22 @coxinalldentsu.com.au>

**Subject:** RE: Info source [SEC=OFFICIAL]

Hi s22

The same jurno has also reached out to s22 from the PR agency with similar questions.

Can you please copy him in the response once finalised so we are aligned.

FYI I have copied him in this email.

Regards,

s22

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OFFICIAL

**From:** s22 @coxinalldentsu.com.au]

**Sent:** Tuesday, 25 January 2022 3:08 PM

**To:** s22 @industry.gov.au>

**Cc:** s22 @khi.co.jp>

**Subject:** Info source

Hi s22 see below

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This estimation has been calculated as follows: Most of the hydrogen produced today is via steam methane reforming (SMR) with no CCS. Data in Australia's National Hydrogen Strategy reports that this produces around 8.5 tonne<sup>[4]</sup> of CO<sub>2</sub> per tonne of hydrogen. CSIRO data states that coal gasification with CCS produces around 0.71 tonne of CO<sub>2</sub> per tonne of hydrogen<sup>[5]</sup>. Therefore, the HESC Project could save 1.8 million tonnes of CO<sub>2</sub> per year ( $8.5 - .71 * 225,000$ ).

Most:

4 and 5: [http://www.hydrogenenergysupplychain.com/november-25th-2020-latrobe-valley-webinar-recording-and-qa/#\\_ftn4](http://www.hydrogenenergysupplychain.com/november-25th-2020-latrobe-valley-webinar-recording-and-qa/#_ftn4)

Most:

<https://www.iea.org/reports/the-future-of-hydrogen>