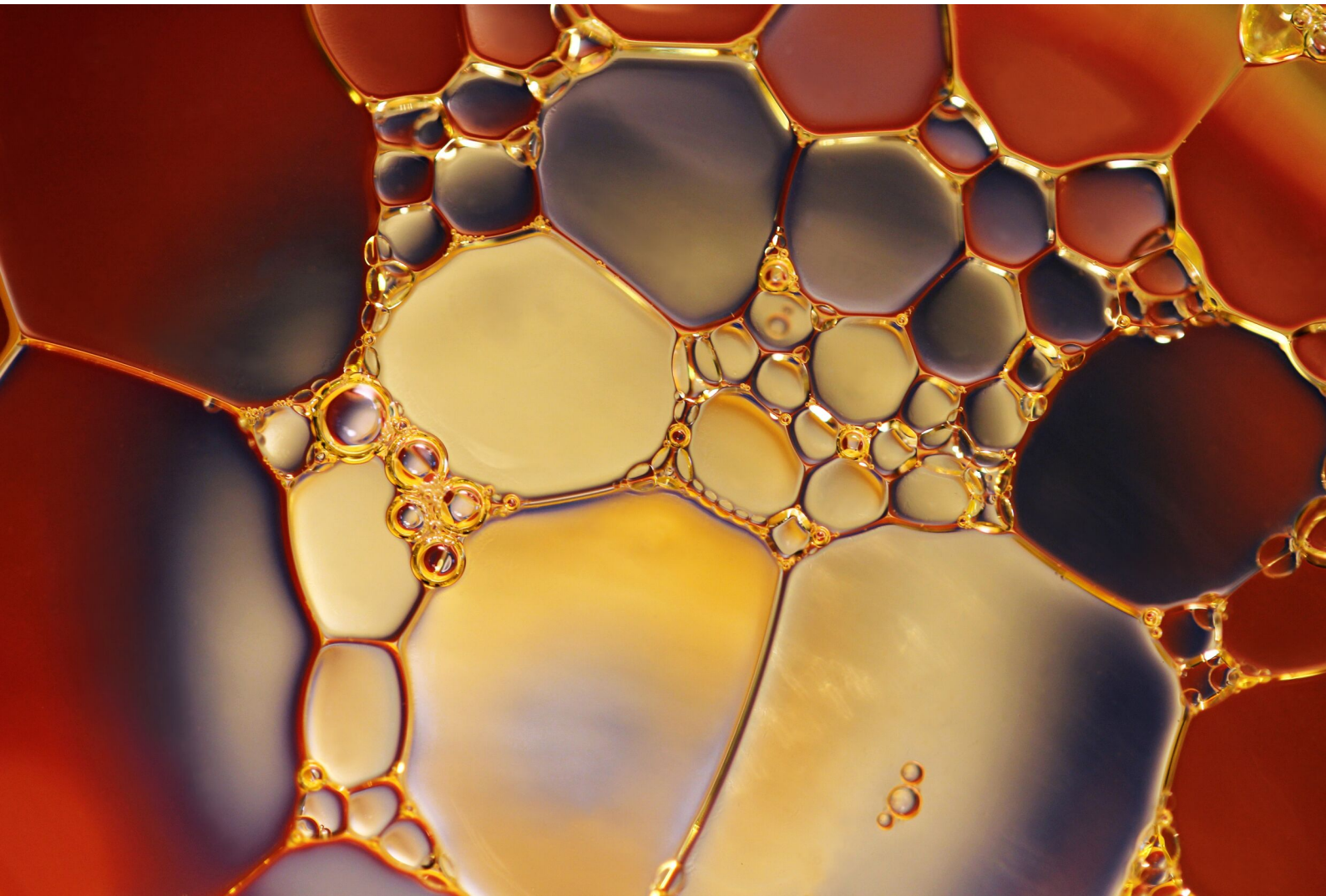


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CONCRETE GREEN SOLUTION

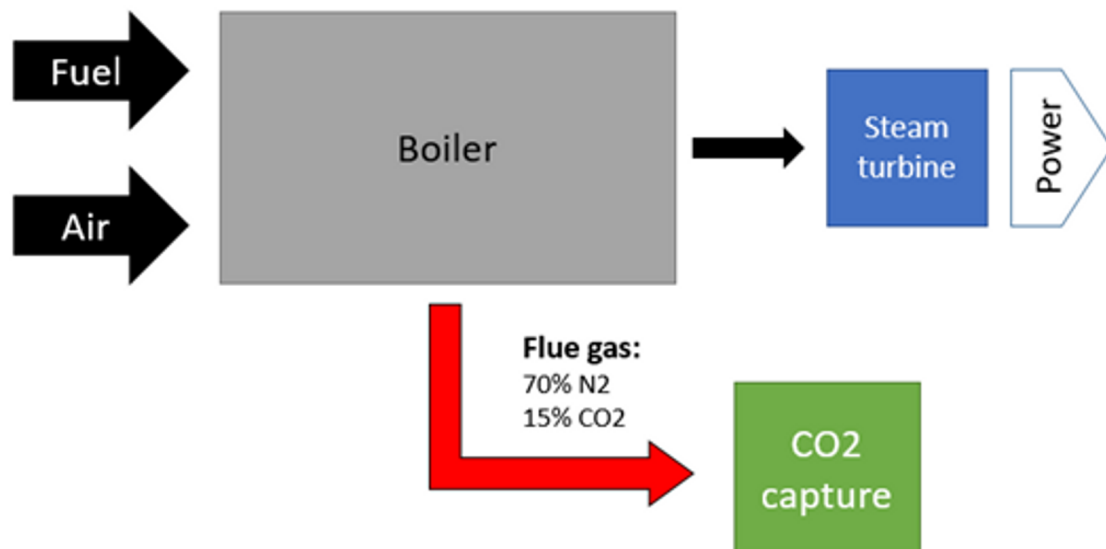


KINGSWOOD, 2747, NSW, AUSTRALIA

FROM THE BYPRODUCTS OF POST-COMBUSTION CO₂ CAPTURE TECHNOLOGY

*Facilitating the properties of concrete made with
recycled aggregate...*

This new type of concrete chemical admixture is made by activating CO₂ gas during a reaction leading to the production of this additive. Laboratory results are satisfactory for commercialization step...



Typical post combustion capture process in power plants

As the name indicates, the post combustion methods are facilitating the process of CO₂ capture from the flue gas after the fuel had been burned for energy generation purposes. The amine treatment of the flue gas is a widely acceptable method in the post combustion capturing method. MEA commercial absorption process constitutes of the removal of the CO₂ from the flue gas in an absorber. MEA reacts with CO₂ in the gas stream to form MEA carbamate. The CO₂-rich MEA solution is then sent to a stripper where it is reheated in order to release the CO₂. The CO₂-free MEA is recycled afterward.

**CO₂
CONCRETE
ADMIXTURE**

CONCRETE GREEN SOLUTION



5% addition of this admixture by the mass of cement leads to a concrete made with recycled aggregate with recorded 36 MPa compressive strength in 7 days.

Next step in commercialization:

In order to scale up the production capacity of this product, a newly designed reactor is needed with a production capacity of 50 L/day. Our initial design is similar to the following:



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