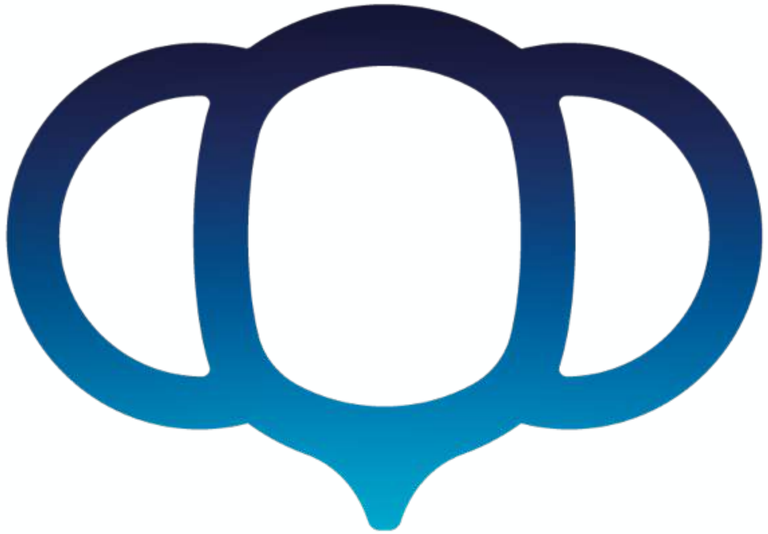


skytree®


CHRIS MADDE


ACHU 02680 6
ACHU 02680 6
MAX. GROSS 36.000 kg
79.366 lb
TARE WEIGHT 8.600 kg
18.690 lb
VOLUME 19.650 L
CO2
CO2
TIR
22
2187
ASCO CARBON DIOXIDE LTD


CHRIS MADDE


“Turning CO2, the world’s biggest waste-stream,
into a profitable and sustainable resource.”
skytree®

Capture

Concentrate

Release

CO_2 Air Capture and Re-Use

- Sustainable
- Location independence
- Supplier & Time independence
- Clean CO_2 & air-mix
- Automation, Lifetime & Safety
- Utilisation of waste heat & existing infrastructure
- Cost savings

Aquaria

Water Treatment

Beverage Carbonisation

CO2 Conversion

PERSONAL

INDUSTRIAL

CO_2 re-use

Plug & play convenience

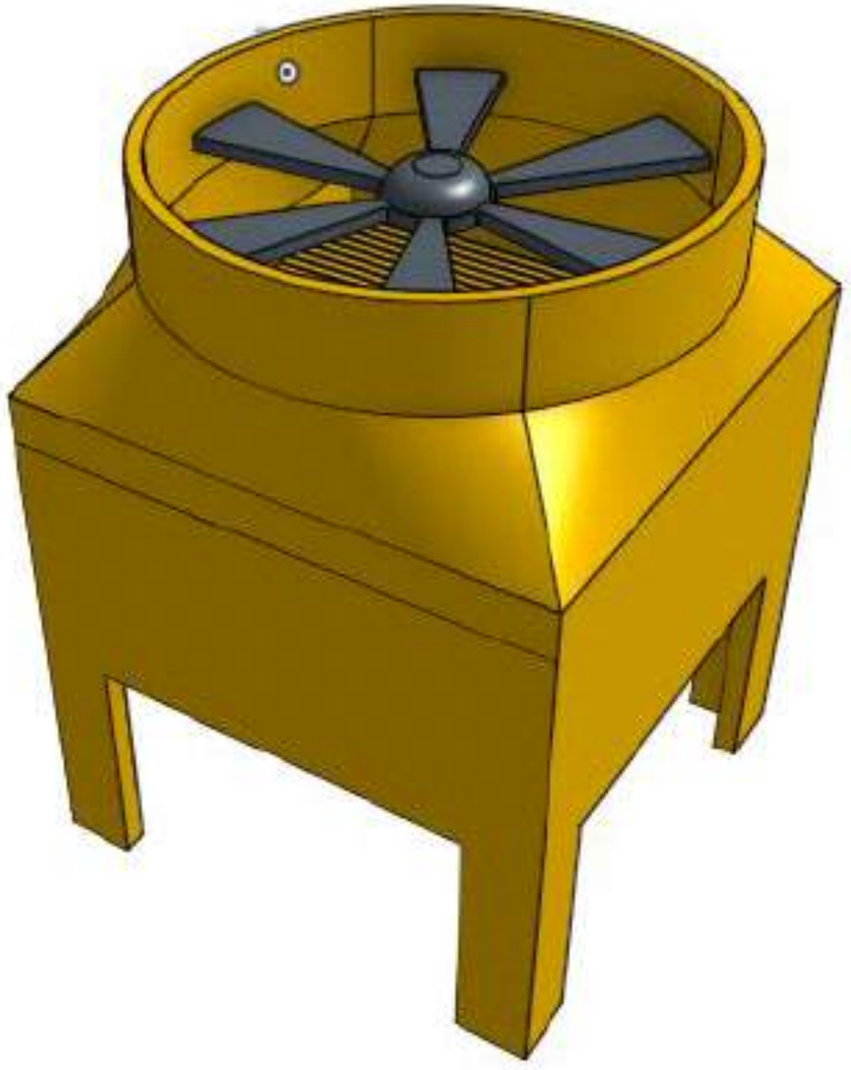
Supplier & Location independence

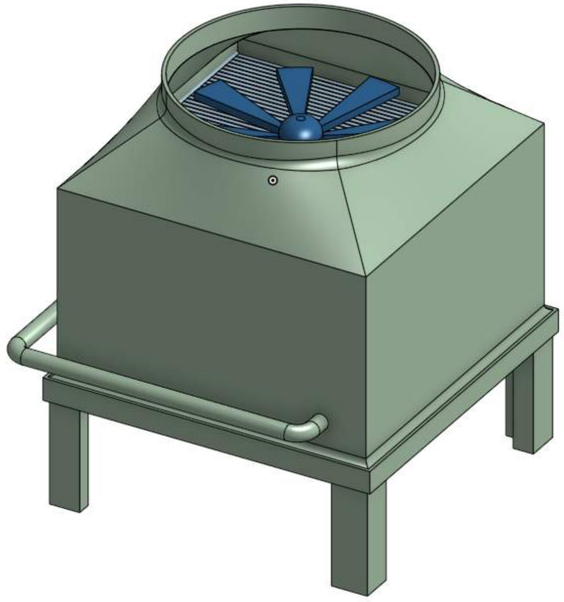
Cost savings

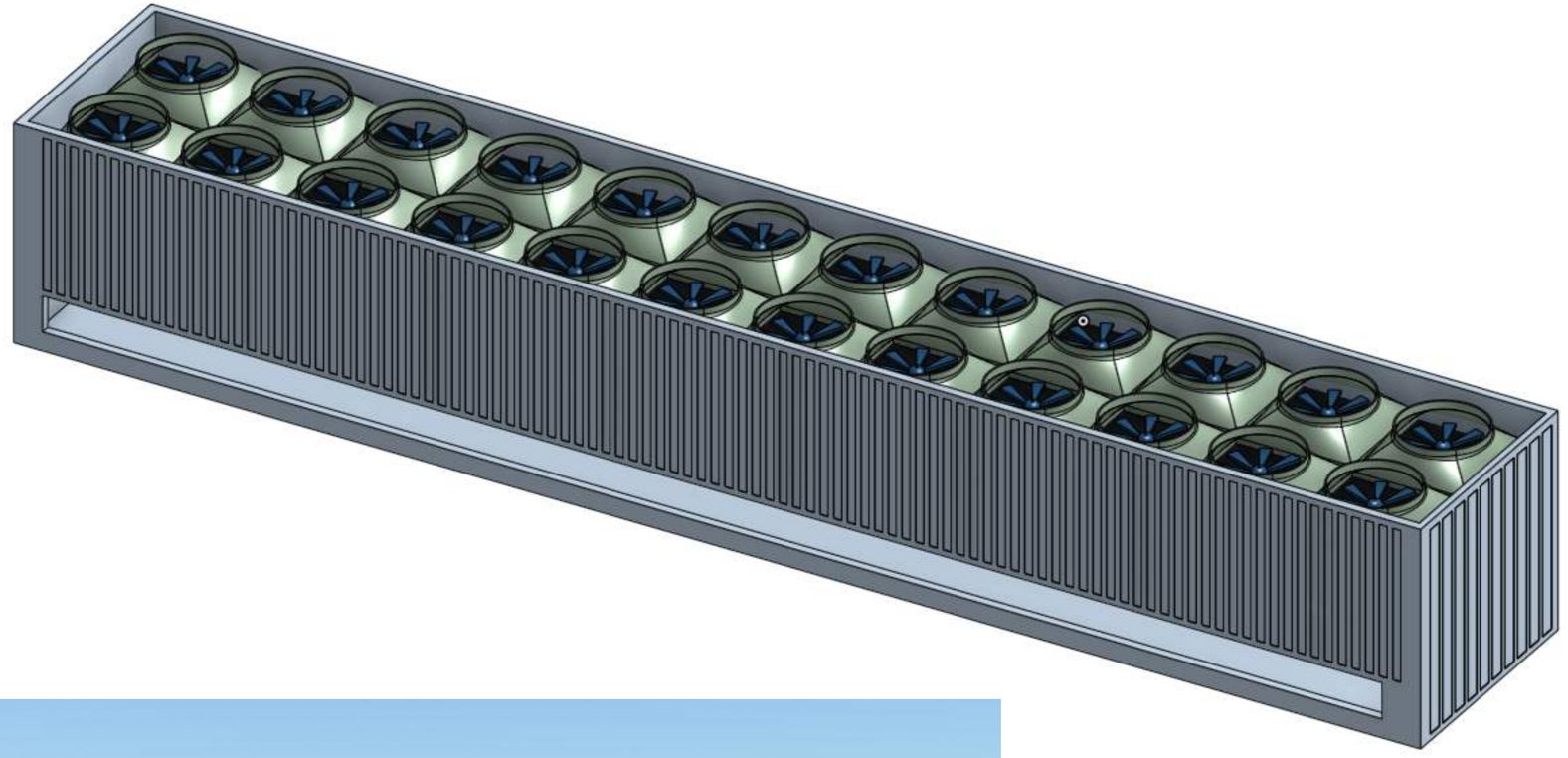
Module Performance:

System integrated into geothermal well water supply

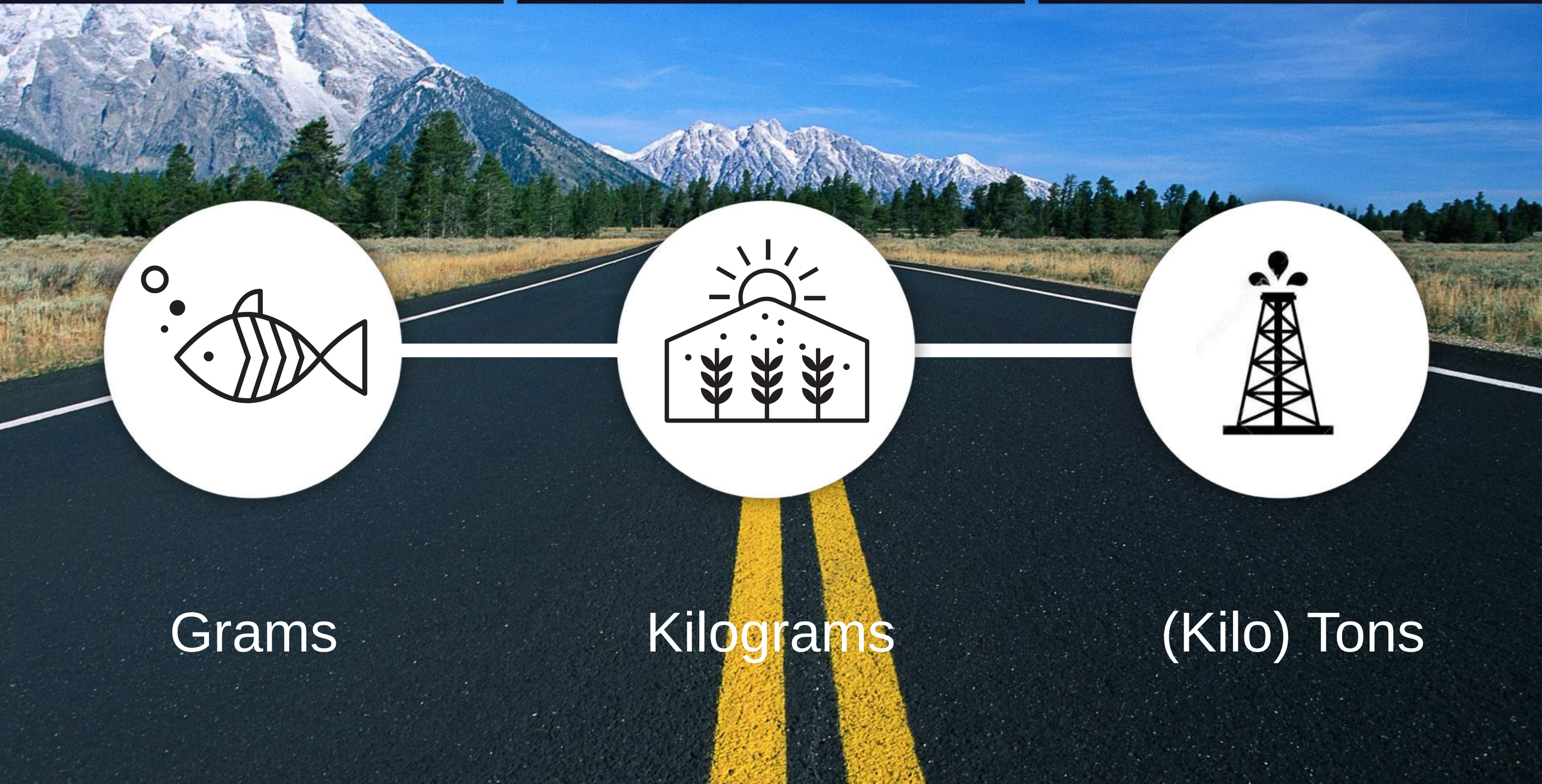
Sorbent Bed Size	1m x 1m x 0.5m	
Volume of Sorbent	330	L
Air Processing	1.3	m^3/s
Desorption Cycle Energy	12.1	kWh
Max Desorption Power	9.3	kW
Cycle Time	8	hours
CO_2 per Cycle	7.3	kg
Modules For 70 kg/ha/hr	2600	







Small	Medium	Large



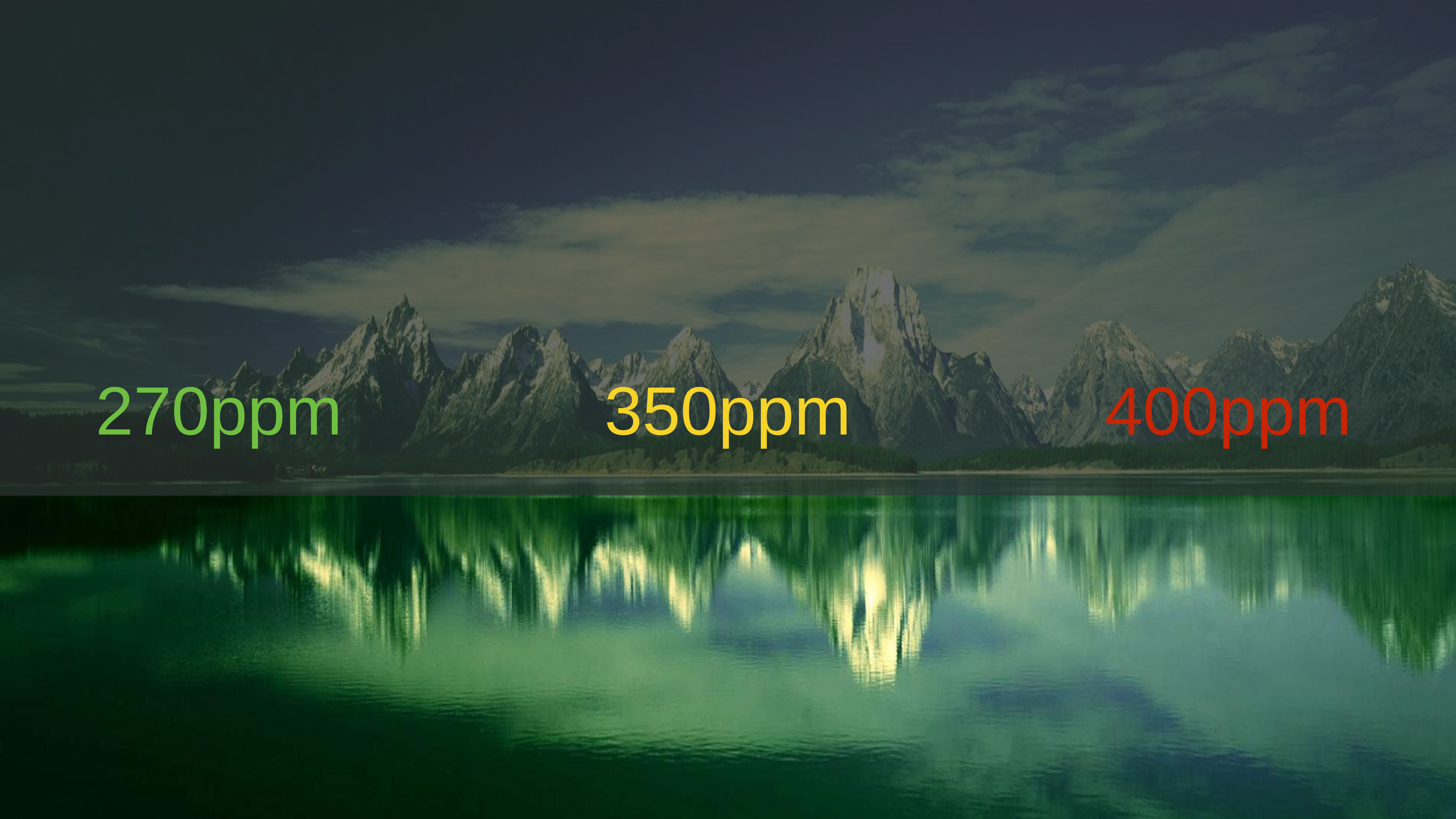
Grams

Kilograms

(Kilo) Tons

REUSE

REDUCE


270ppm
350ppm
400ppm


“The good news is, we have everything we need now to respond to the challenge of global warming. We have all the technologies we need, more are being developed.... But we should not wait, we cannot wait, we must not wait.”
- Al Gore

”THERE IS NO PLANET B.”

- Virgin Earth Challenge

skytree®

www.skytree.eu

STINGRAY

“Introducing the world’s first commercially available CO_2 capturing device.”

EHEIM

CO_2 Facts:

- Current CO_2 amount in the atmosphere: 3.000 billion tons
- Additional CO_2 emissions per year: + 34 billion tons
- CO_2 emissions per person in the Netherlands per year: 10.000 kilograms

- CO_2 Demand: 50-350 million tons (current), 5.000 million (potential)

- CO_2 on-take of a tree: 21,7 kg per year
- Trees on earth: 3.000 billion


skytree®
skytree.eu
AIR PURIFICATION

Small Applications

- Personal Aquaria $177.600.000 (3-5%)
- Home Beverage Carbonation $600.000.000 (20-50%)
- Kitchen Greenhouses $33.750.000 (5-8%)
- Air Conditioners $97.700.000.000 (8-10%)

Medium Applications

- pH Balancer for pools and ships $960.000.000 (2-4%)
- Smart Greenhouses $1.200.000.000 (12-14%)

Large Applications

- Liquid CO_2 (commodity) $650.000.000 (3-5%)
- Bio-Plastics $15.900.000.000 (10-15%)
- CO_2 in chemical sector $35.000.000.000 (3-5%)
- CO_2 in Fuel sector

Direct Air Capture industry overview

	INFINITREE	GLOBAL THERMOSTAT	CARBON ENGINEERING	CLIMEWORKS	SKYTREE
Founded	2004	2006	2009	2009	2010
Based	New York	San Francisco	Calgary	Zurich	Amsterdam
Commercial Status	Working on pilots	Pilot Oct 2010 Commercial demo 2013	Pilot 2013-15 Commercial plant by 2017	Demonstrator Commercial plant 2015	First company with a commercial product on the market (2016)
Funded by	Comer Foundation ARCH Ventures	Edgar Bronfman	Bill Gates Murray Edwards	Zurich Kantonalbank Venture Kick de Vigier Stiftung Climate-KIC	Startupbootcamp ESA Incubator Climate-KIC
Technology	Quaternary amine wafer/ membrane	Ceramic amine coating	Chemical (NaOH)	Primary amine wafers	Primary amine beads
Affiliations	Columbia University	Columbia University SRI International	University of Calgary	ETH Zurich	European Space Agency