



Climeworks' CDR snapshot

Louis Uzor, Climate Policy Manager
28.06.2022 Bergen



Why direct air capture?

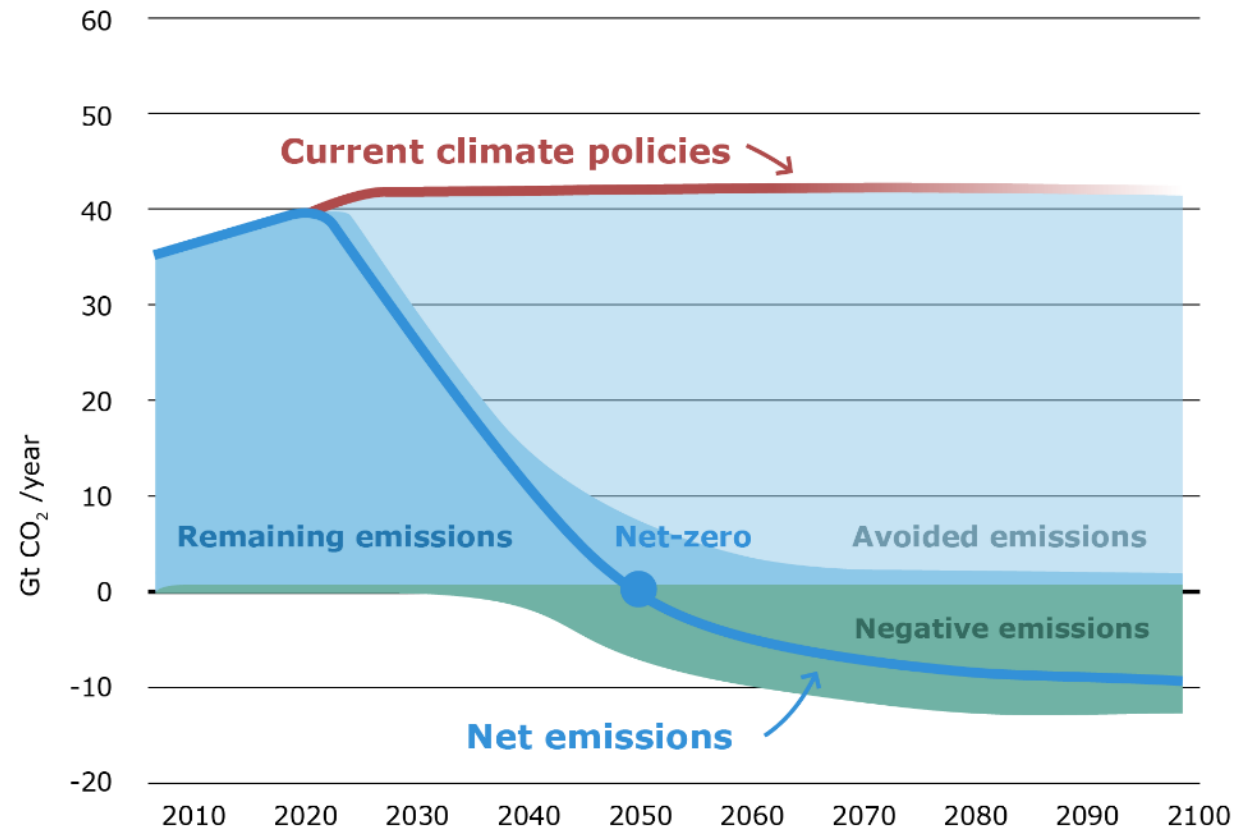


How to keep global warming below 1.5°C

Defossilize

Neutralize **unavoidable emissions**

Realize **negative emissions**



Reduce as much as possible
Conventional mitigation technologies



Remove unavoidable emissions
Carbon removal solutions





200+
Climeworks
largest team of experts in the world

\$ 810 million
Equity funding

> 100'000
hours operational experience

< 10%
life cycle emissions
renewable energy powered

Public

Our solution



A vital technology

We develop, build and operate direct air capture machines that remove CO₂ from the air.

To remove atmospheric CO₂

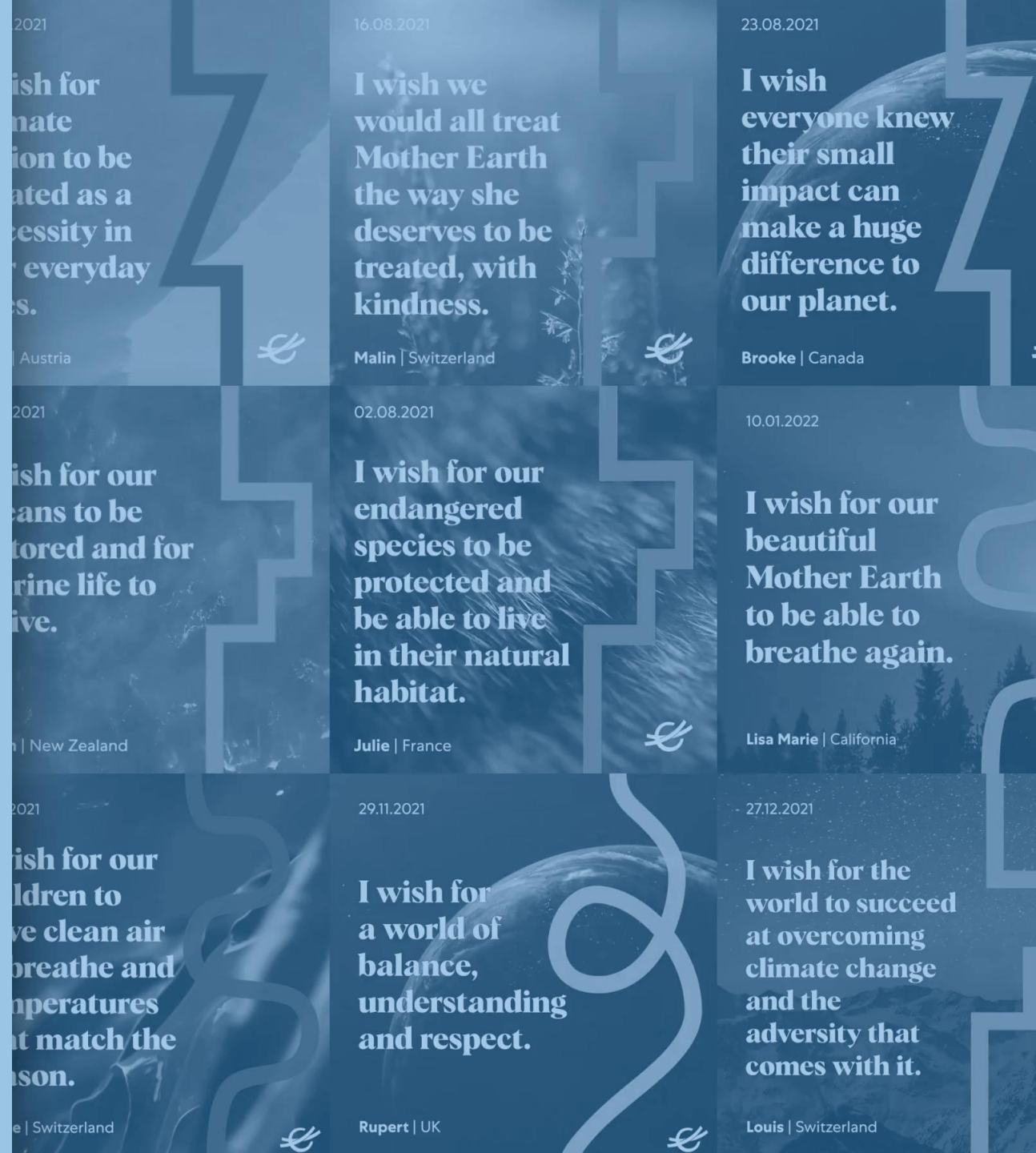
We return the air-captured CO₂ to earth by partnering with storage service providers or upcycling into climate friendly products.

And ready to scale

We have an acceleration plan to increase our capacity to megaton scale by 2030.

We are on a mission

Empowering humanity to remove carbon dioxide from the air



2021

16.08.2021

23.08.2021

I wish for
nate
ion to be
ated as a
ecessity in
everyday
es.

I wish we
would all treat
Mother Earth
the way she
deserves to be
treated, with
kindness.

I wish
everyone knew
their small
impact can
make a huge
difference to
our planet.

Austria

Malin | Switzerland

Brooke | Canada

2021

02.08.2021

10.01.2022

I wish for our
eans to be
tored and for
rine life to
ive.

I wish for our
endangered
species to be
protected and
be able to live
in their natural
habitat.

I wish for our
beautiful
Mother Earth
to be able to
breathe again.

| New Zealand

Julie | France

Lisa Marie | California

2021

29.11.2021

27.12.2021

I wish for our
ldren to
ve clean air
breathe and
nperatures
t match the
son.

I wish for
a world of
balance,
understanding
and respect.

I wish for the
world to succeed
at overcoming
climate change
and the
adversity that
comes with it.

| Switzerland

Rupert | UK

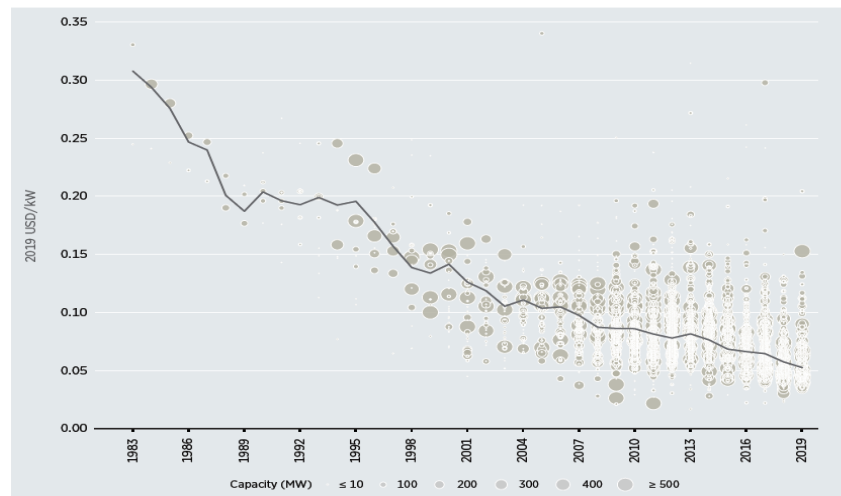
Louis | Switzerland

Facilitate DAC to be the new wind / PV industry



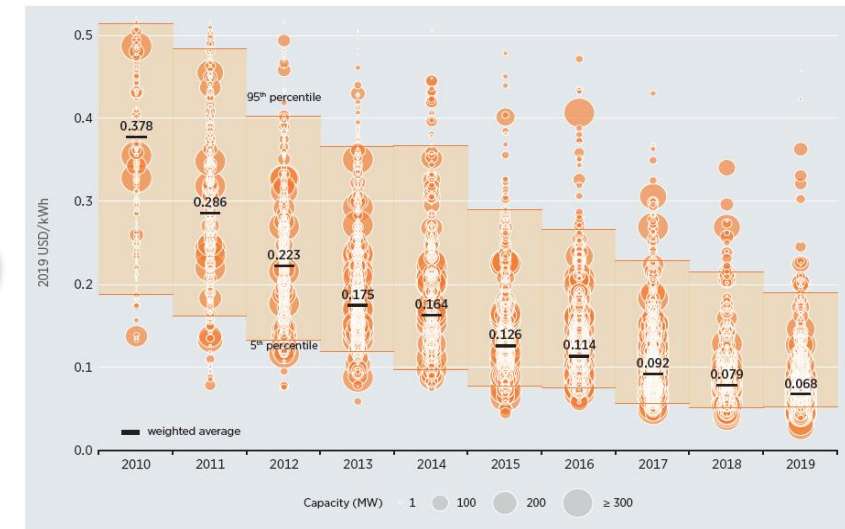
When deployment of industrial technologies is accelerated, significant cost reductions can be achieved

Figure 2.8 LCOE of onshore wind projects and global weighted average, 1983-2019



Source: IRENA Renewable Cost Database.

Figure 3.6 Global utility-scale solar PV project levelised cost of electricity and range, 2010-2019



Source: IRENA Renewable Cost Database.

Climeworks' pioneering customers have the power to **unlock the next scale-up step**, thereby **driving demand** and **reducing costs!**

Climeworks plans continuous capacity increase




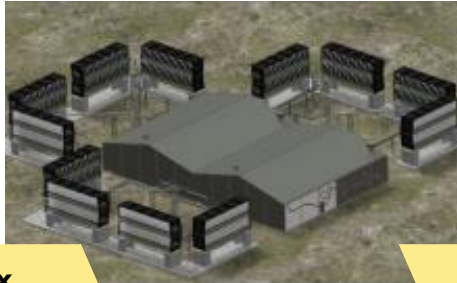
 **Iceland**
Hellisheiði



Orca - 4'000 tons
per year

10x
scale-up

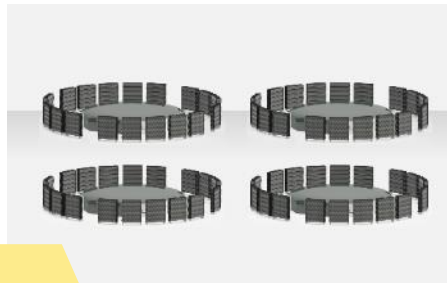
 **Global**



~ 40'000 tons
per year

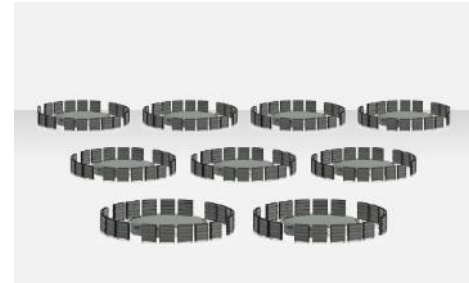
10x
scale-up

 **Global**



> 400'000 tons
per year

 **Global**



Multi-mega ton range

2021

Enable scale-up

2024

Volume production

2027

Global roll-out

2030

Global roll-out



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8050 Zurich









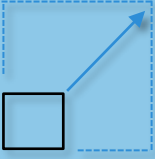
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Assessment criteria for carbon removal solutions

	Storage permanence	Sustainability impacts	Measurability reliability	Scalability potential
 Forests and Soil	 1-100 y	 Food security risk  Water intensive	+	 low
 Direct air capture and storage (DAC+S)	 10'000+ y	 No substantial negative impacts but energy trade-off	+++	 high

The most permanent carbon removal solution: direct air capture and mineralization



Energy supply, direct air capture and storage with Climeworks' Orca

