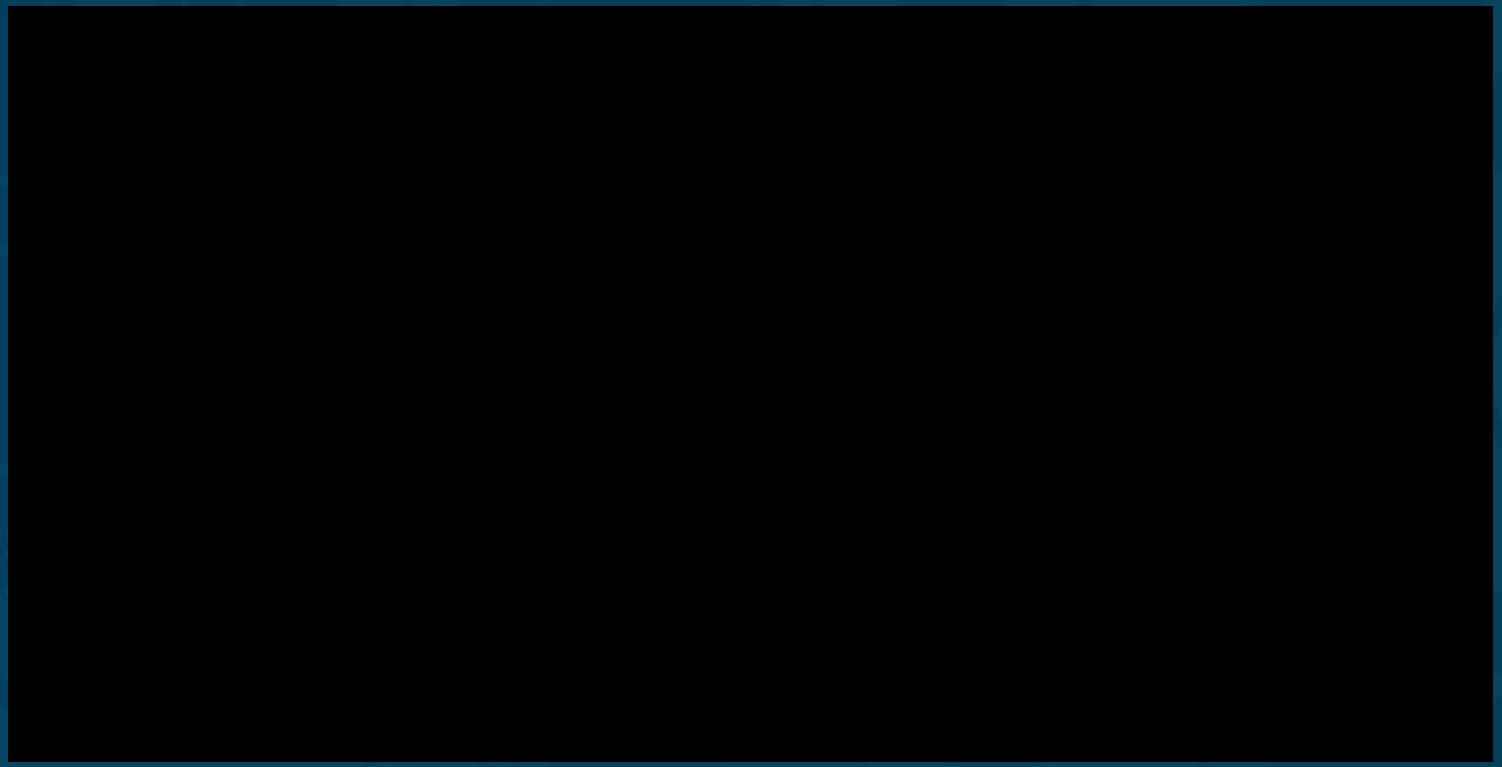

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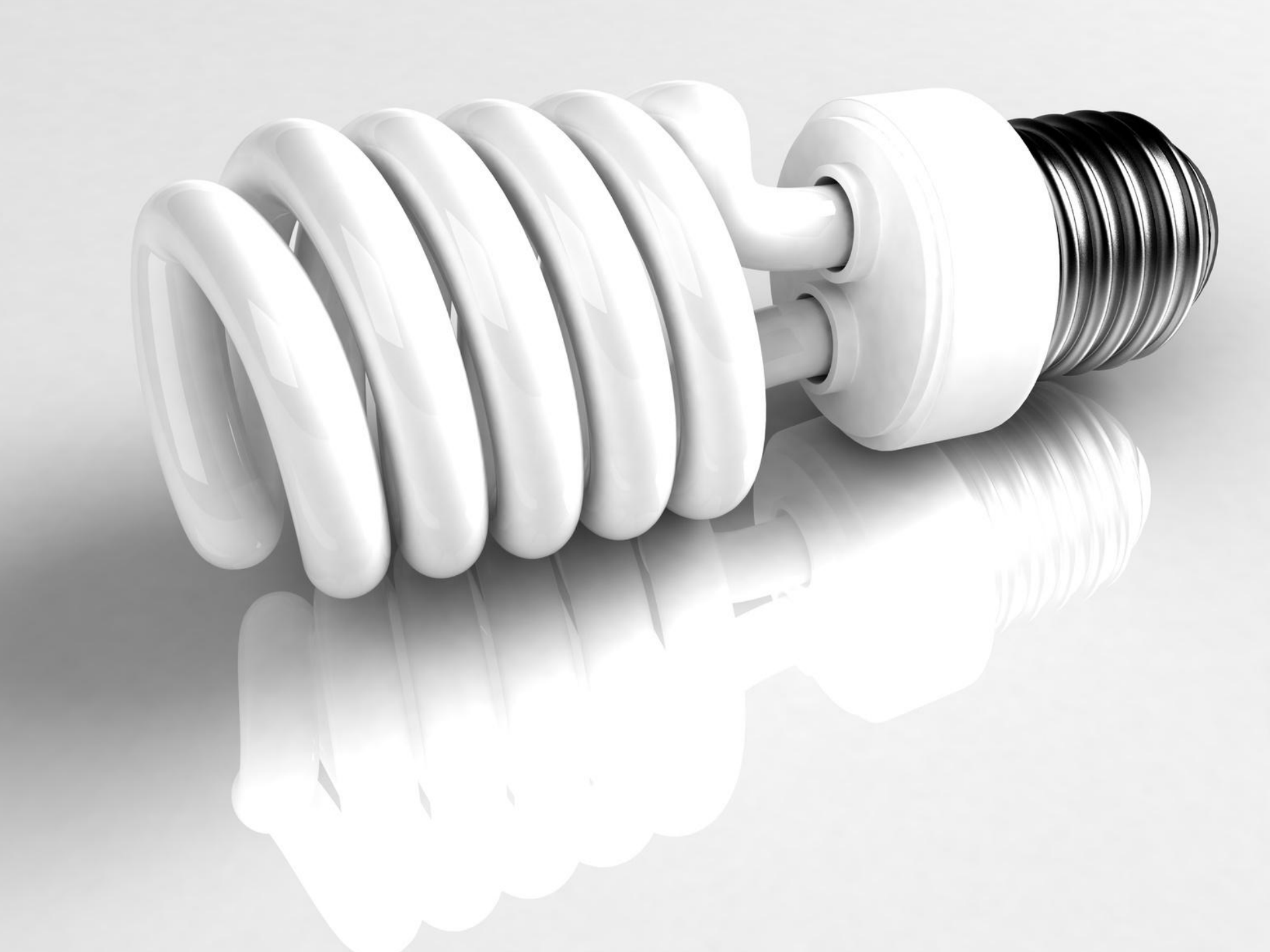
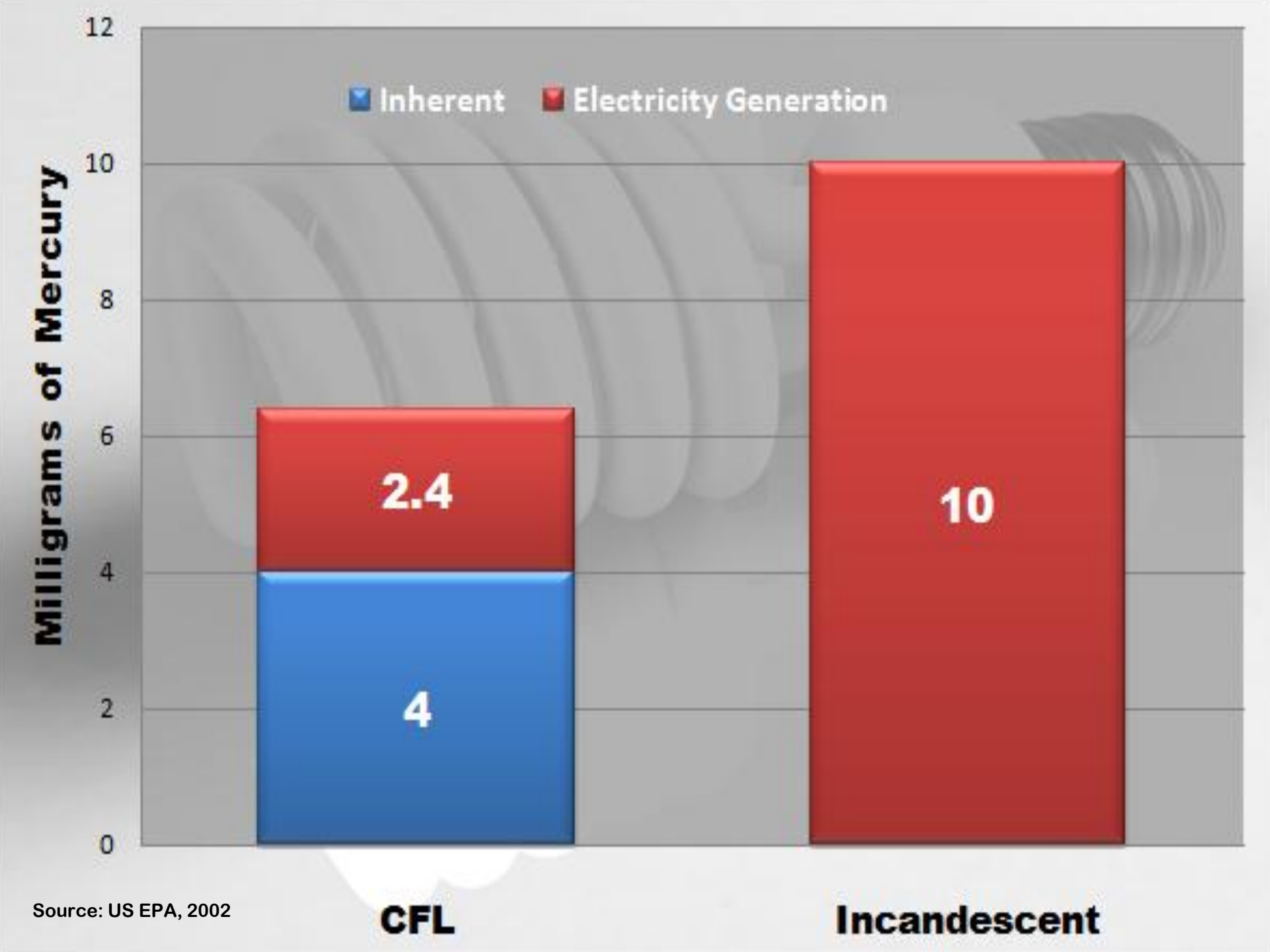
+ product development
+ process development
+ effective packaging
+ efficient manufacturing
+ sensory evaluation
+ analytical chemistry
+ winemaking
+ fermentation





Source: US EPA, 2002

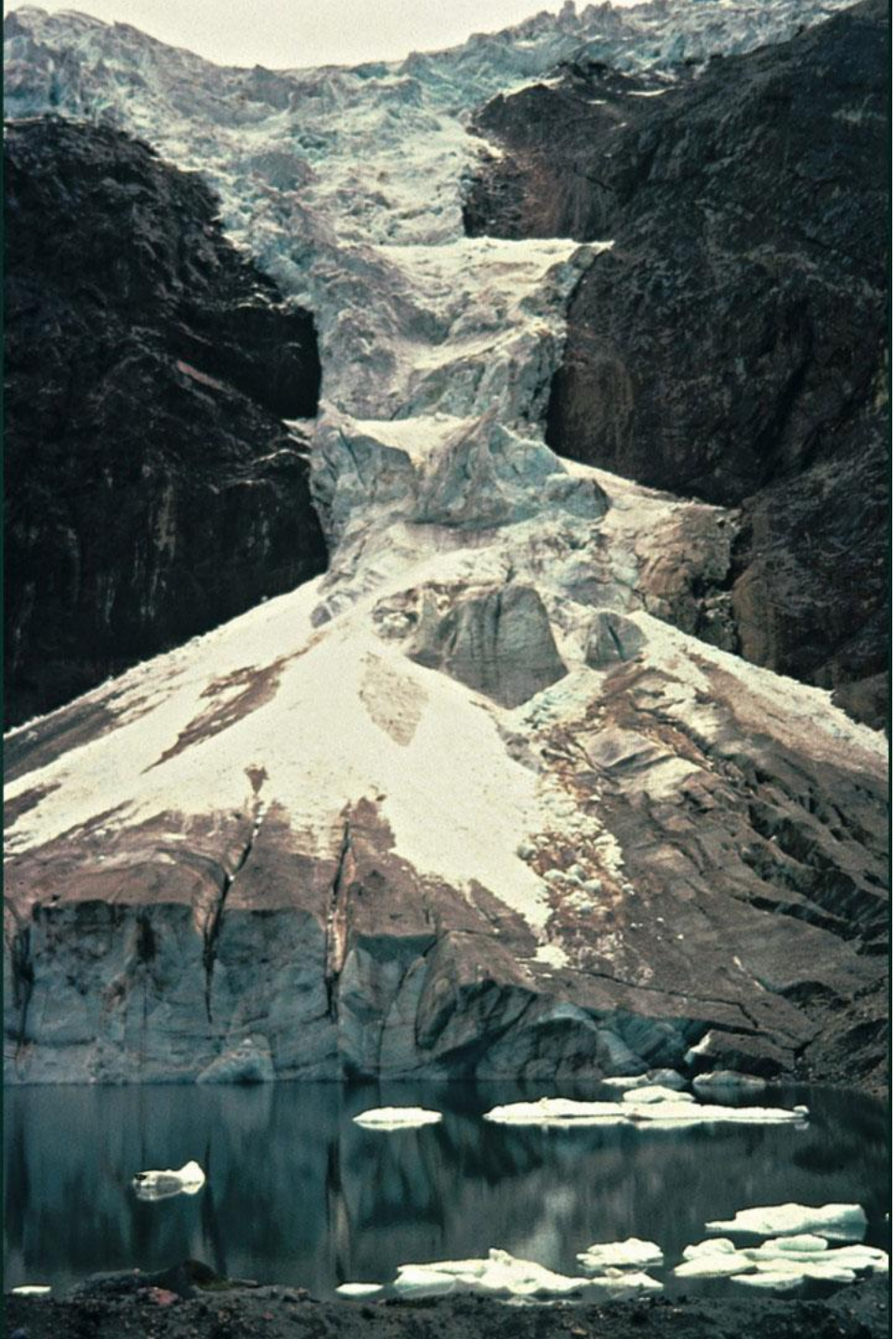
Glacier National Park

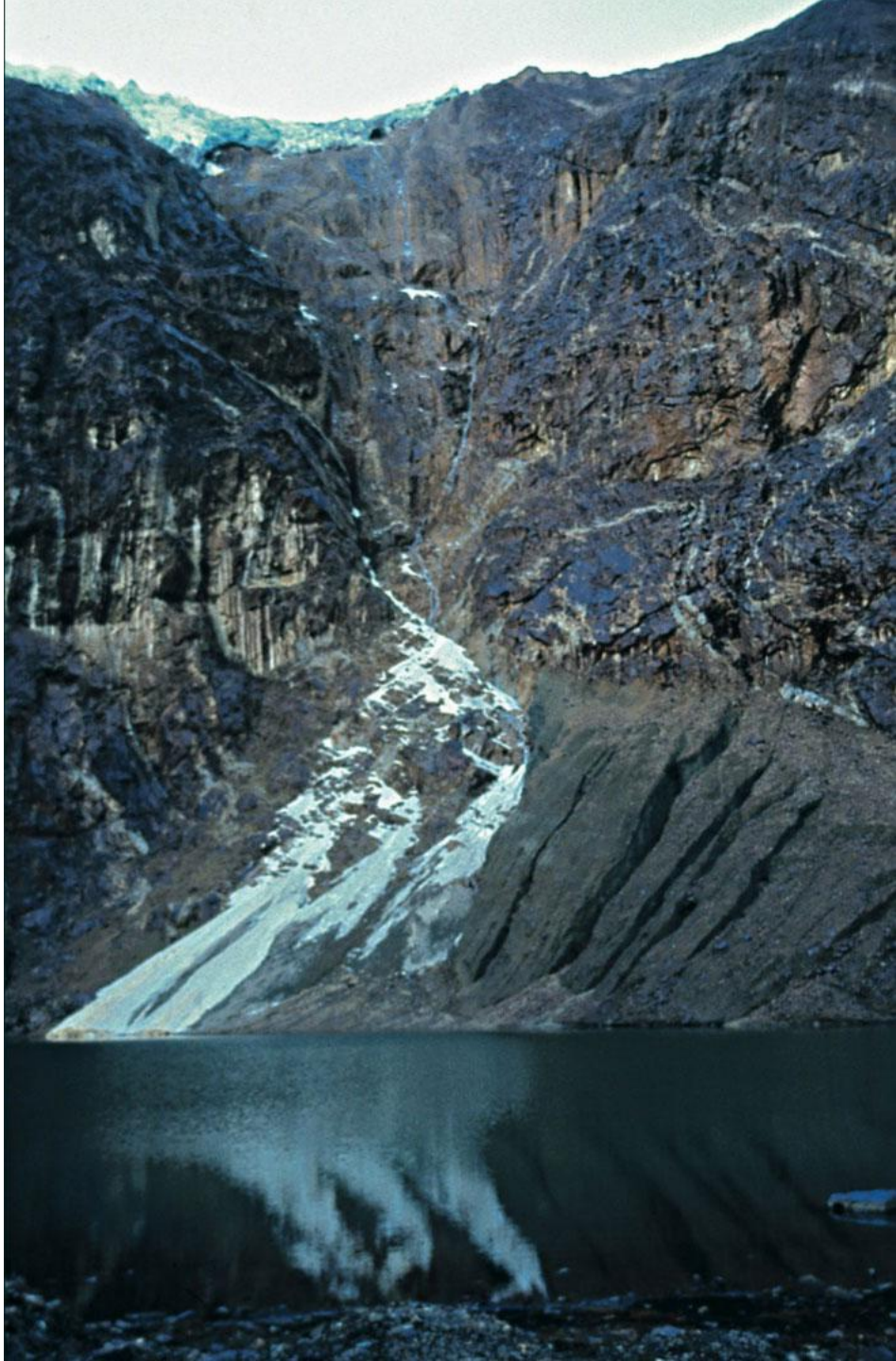
Boulder Glacier

1932

1988

Photos: George Grant, Glacier National Archive; Jerry DeSanto, National Park Service





New Orleans
Lake Borgne
Mississippi River Gulf Outlet
Waterway
Intracoastal
La. Nature & Science Ctr.
47
RD
510
2
241
242
CHEF
240B
244

"He says there's no scientific basis for global warming."

Positive proof of global warming.
18th Century
1900
1950
1970
1980
1990
2006

Garnaut
CLIMATE CHANGE
REVIEW

MEDIA RELEASE

Friday 5 September 2008

GARNAUT: START ON A 550PPM TRAJECTORY, AIM FOR 450PPM OR LOWER

Australia should put its strongest possible efforts into securing a global agreement to limit emissions to no more than 550 parts per million $CO_{2\text{-}e}$ and encourage the world onto a lower emissions path as soon as feasible, according to Professor Ross Garnaut's *Targets and Trajectories* report released today.

Launching the report at the National Press Club today, Professor Garnaut said that a global objective of 450ppm or lower would suit Australian interests better than a 550ppm goal.

"However, the Review has reluctantly concluded that international agreement on a global goal of 450ppm is not immediately feasible, given that emissions are currently around 455 ppm $CO_{2\text{-}e}$ and rising rapidly due to fast global economic growth," said Professor Garnaut.

Global Warming It's Not Easy!

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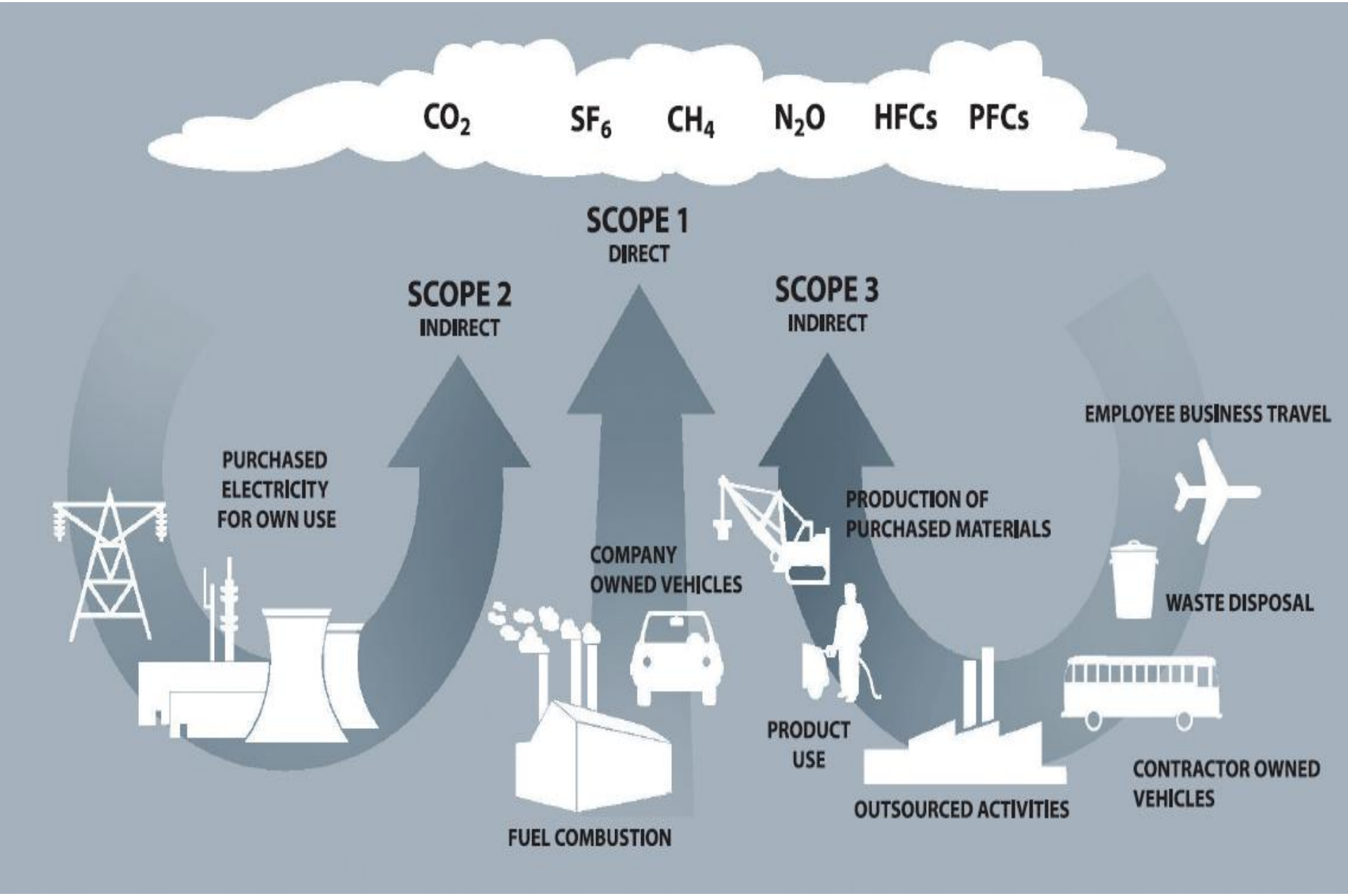
CO_2 SF_6 CH_4 N_2O HFCs PFCs
SCOPE 1
DIRECT
SCOPE 2
INDIRECT
SCOPE 3
INDIRECT
PURCHASED ELECTRICITY FOR OWN USE
COMPANY OWNED VEHICLES
FUEL COMBUSTION
PRODUCTION OF PURCHASED MATERIALS
PRODUCT USE
OUTSOURCED ACTIVITIES
EMPLOYEE BUSINESS TRAVEL
WASTE DISPOSAL
CONTRACTOR OWNED VEHICLES

$Q_{CO2e} = E_f x Q_{source}$

think climate. think change.

BEER OF THE EARTH
PURE TASMANIAN LAGER
CASCADE
GREEN
PRESERVATIVE FREE
LOW CARB
100% CARBON OFFSET

working with
the Carbon Trust
75g
CO2

"...It will enable us to label our products so that customers can compare their carbon footprint as easily as they can currently compare their price or their nutritional profile." Sir Terry Leahy CEO Tesco

http://www.guardian.co.uk/environment/2008/aug/20/carbonfootprints.carbonemissions

French retailer in green labelling initiative

By Jane Byrne

16-Jun-2008 - **French retailer, Casino, has launched a carbon labelling initiative on a selection of its private label products.**

The labelling scheme, according to Casino, uses a colour code denoting the amount of carbon dioxide emitted in the manufacturer of a product's packaging, the amount of packaging to be recycled, and the amount of CO2 emitted in transporting the product in terms of truck kilometres.

The supermarket chain said the scheme was driven by its policy of enabling its customers to make an informed choice when purchasing goods.

KEYWORDS

- Packaging Materials

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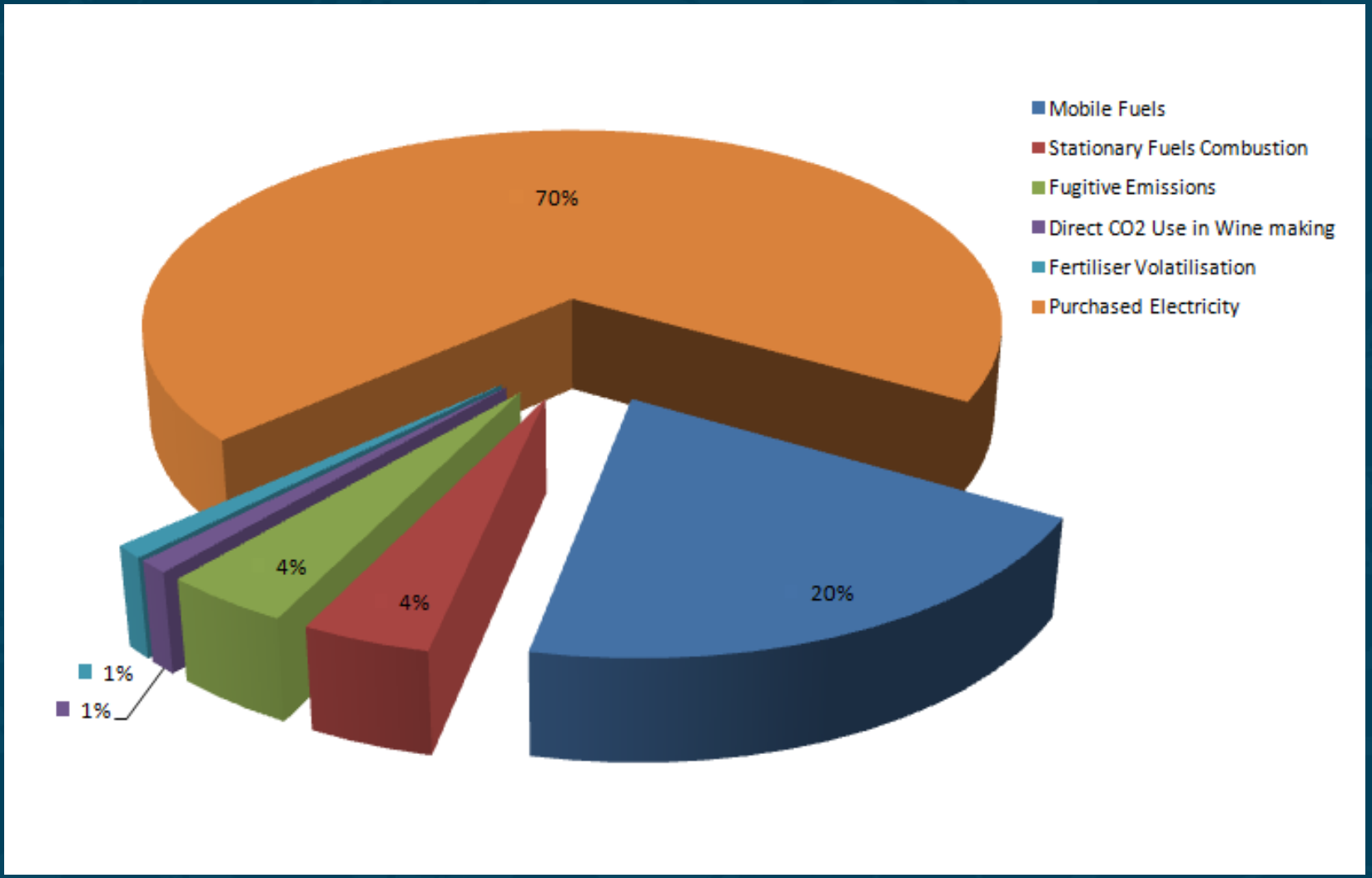
Wine Production Emissions



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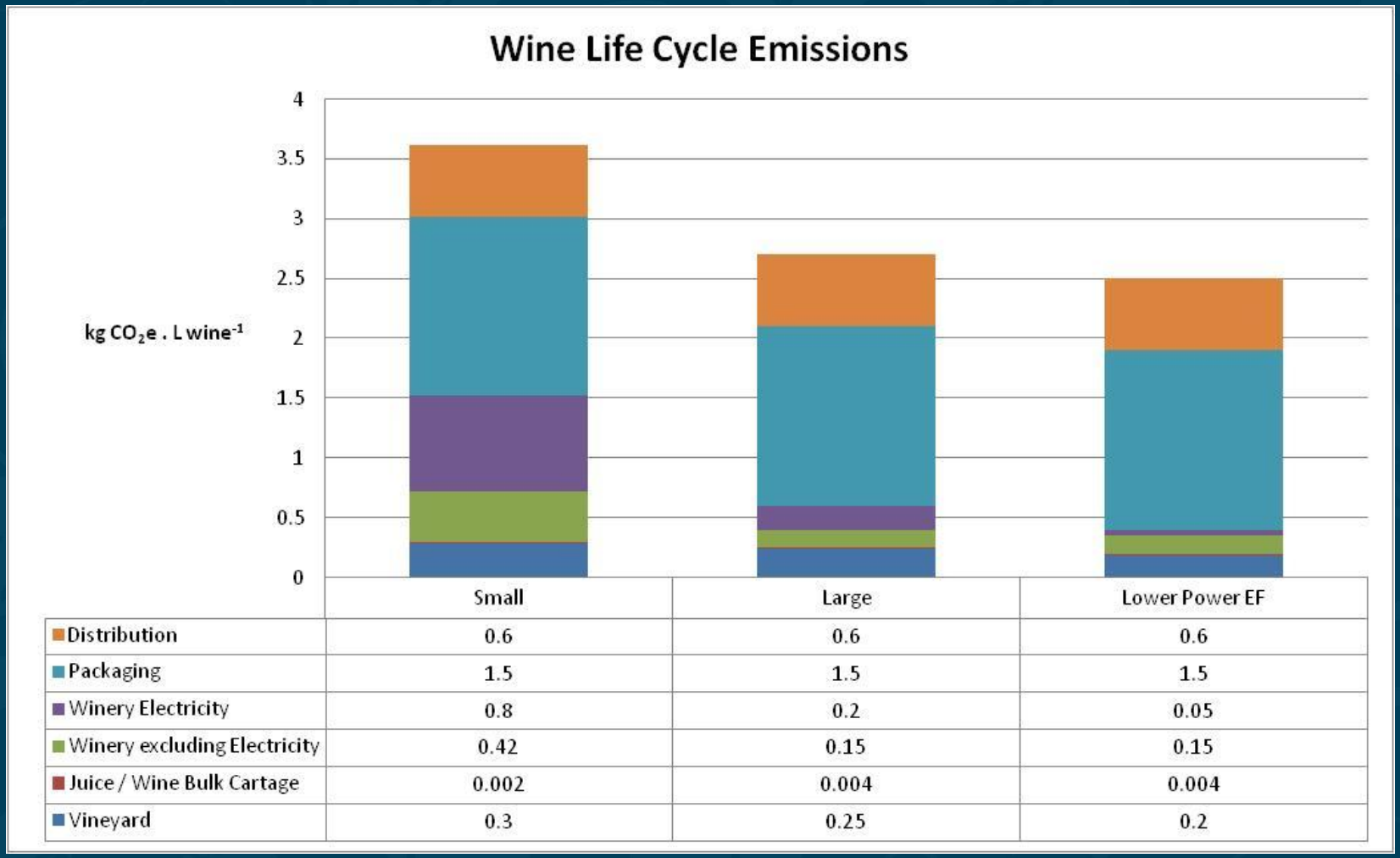
Life Cycle Emissions



	Small	Large	Lower Power EF
Distribution	0.6	0.6	0.6
Packaging	1.5	1.5	1.5
Winery Electricity	0.8	0.2	0.05
Winery excluding Electricity	0.42	0.15	0.15
Juice / Wine Bulk Cartage	0.002	0.004	0.004
Vineyard	0.3	0.25	0.2

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Managing Carbon

Environmentalist?
Climate Change sceptic?
Carbon will impact your business!

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