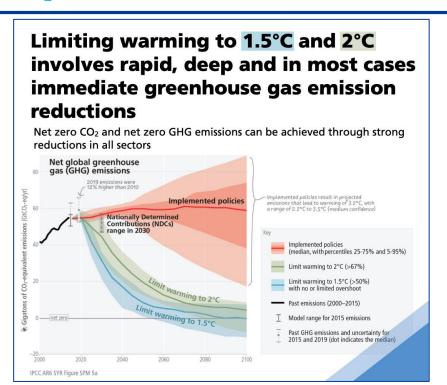






## Climate change is the most urgent challenge facing humanity CO<sub>2</sub> budget for 1.5°C will be used up in less than 3 years









ClimatePartner customers along the tourism value chain

A selection of customers in tourism















### Trends, regulations & standards

Sustainability is omnipresent and will remain essential

#### **Booking.com Studiy**

 76% of German travelers consider sustainable travel important (...)

#### First legal provisions

- The Green Star South Tyrol: In future, businesses that provide their guests with sustainable accommodation and care will be able to display a green star in addition to the classic star rating
- CSRD Corporate Sustainability Reporting Directive: Large companies must report on sustainability on a mandatory basis

#### **International Standards**

- GSTC Global Sustainable Tourism Council
- HCMI Hotel Carbon Measurement Initiative













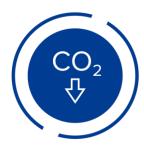
## A holistic climate action strategy consists of 5 steps



Measure carbon footprints



Set reduction targets



Implement reductions



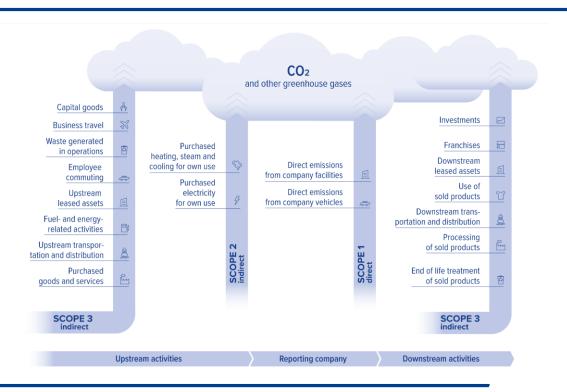
Finance climate projects



Communicate transparently

# The basis of every carbon footprint is the data on the generation of greenhouse gas emissions

Operational system limits by scopes



#### Scope 1

Self-regulated emissions (direct)

#### Scope 2

Purchased energy (indirect)

#### Scope 3

Upstream and downstream emissions (indirect)



#### **Consumption data**



#### **Emission factors**

- Quantification of relevant activities
- Example: Consumption of 100 liters of diesel



- Quantify greenhouse gas emissions per unit of activity
- Example diesel fuel: 2,64 kg CO<sub>2</sub>e / I



#### **Emissions in CO<sub>2</sub>e**

Example diesel fuel: 264 kg CO<sub>2</sub>e

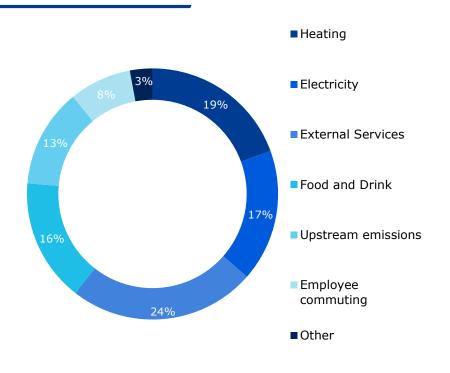
Calculation of emissions based on consumption data and emission factors



## Corporate Carbon Footprint (CCF)

Example for a 4\*S hotel (100 rooms, 1.000 m<sup>2</sup> wellness hotel)

	Heating	<b>[t]</b> 158,86	<b>[%]</b> 29,1
Scope 1	Vehicle fleet	28,1	5,1
	Cooling agents	1,15	0,2
Same 2	Sub-total	181,11	34,4
	Electricity	112,29	20,4
Scope 2	Sub-total	112,29	20,4
	Food and Drink	89,80	16,4
Scope 3	External dry cleaning	19,21	3,5
	Upstream emissions (electricity, heat, fuels)	68,62	12,5
	Employee commuting	42,73	7,8
	Water	7,51	1,4
	Waste	19,08	3,5
	Office paper/Printed products	5,877	1,1
	Sub-total	252,82	45,2
Total		546,22	100,0 %





## The Corporate Carbon Footprint enables the recognition of reduction and avoidance measures

Reduction potentials of a 4\*S hotel

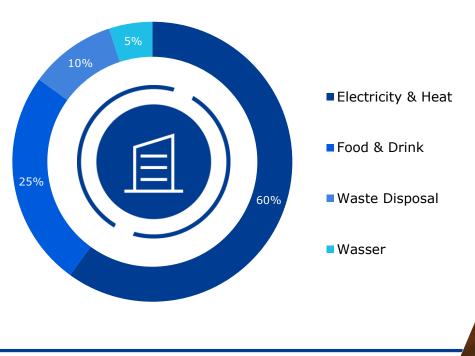
		[t]	[%]
Scope 1	Heating	158,86	29,1
	Vehicle fleet	28,1	5,1
	Cooling agents	1,15	0,2
	Sub-total	181,11	34,4
	Electricity	112,29	20,4
Scope 2	Sub-total	112,29	20,4
	Food and Drink	89,80	16,4
	External dry cleaning	19,21	3,5
	Upstream emissions (electricity, heat, fuels)	68,62	12,5
	Employee commuting	42,73	7,8
Scope 3	Water	7,51	1,4
	Waste	19,08	3,5
	Office paper/Printed products	5,877	1,1
	Sub-total	252,82	45,2
Total		546,22	100,0 %

- Optimisation of the heat supply, insulation
- Intelligent heating control (room/floor)
- Energy audit, heat recovery
- Conversion to green electricity
- Increased vegetarian, vegan plates
- Seasonal, regional products
- Reduction of animal products
- Check cooperation with service providers
- Choose shorter transport routes
- Offer job ticket/bike leasing for employees
- Reduction of food waste



## Carbon Footprint of a hotel stay

Overnight stay 4\*S hotel







Scopes	balance sheet	Footprint reduction potential	Info
Scope 1	Scope 1	Scope 1	Scope 1
Heat	20%	ca. 15%	Switch to sustainable energy sources - emissions here not "0" as with green electricity, but significantly lower
Scope 2	Scope 2	Scope 2	Scope 2
Electricity Scope 3	20-40% Scope 3	20 - 40% Scope 3	If the hotel has green electricity, there are no emissions in Scope 2 Scope 3
Gastronomy	15-40%	5-10%	Offer more vegetarian and vegan dishes, use seasonal products.
Dry cleaning	5-25%	1-10%	Reduction potential is often dependent on external service providers; reducing the amount of laundry always has a positive impact on the CO2 balance.
Employee approach	8-14%	5%	Good opportunities, e.g. by promoting tickets for public transport or organizing shuttle buses.
Water	1-8%	1%	Reduction potential through water-saving systems - depending on the facilities and services offered by the establishment (e.g. spa, wellness area).
Logistics	1-5%	1-5%	Promote climate-neutral delivery. Many service providers already offer this.
approach Water	8-14%	5% 1%	reducing the amount of laundry always has a positive impact or CO2 balance.  Good opportunities, e.g. by promoting tickets for public transporganizing shuttle buses.  Reduction potential through water-saving systems - depending facilities and services offered by the establishment (e.g. spa, warea).  Promote climate-neutral delivery. Many service providers already

<u>Important</u>: Depending on how you set the system boundaries (i.e. what you include in the balance), the percentage distribution can vary, as this always relates to the total footprint.



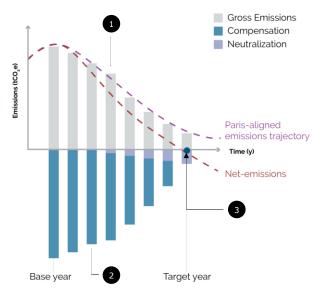
## Carbon Footprint & reduction actions

Example prioritization of reduction measures in Scope 1+2

	Measures	CO <sub>2</sub> reduction	Cost efficiency	Easy to implement?	Priority
	Optimization of work processes				1
Optimize	Modernized devices/equipment				2
Energy consumption	Heat recovery from exhaust air				2
	Insulation of buildings				3
	Own renewable energies (PV system, etc.)				2
<b>Switch</b> to options with	Green energy tariff				1
lower emissions	Combined heat and power (CHP)				3
CITISSIONS	Switch to e-mobility				2
Engage	Sensitise employees				1



# A comprehensive climate action strategy consists of measuring, reducing, and contributing



- 1 Reduce continuously
- Contribute to finance climate projects worldwide
- 3 Achieve **Net Zero in the future**



Companies must scale up investment and go beyond their science-based targets by channeling additional climate finance towards mitigation activities outside of their value chains now to contribute towards reaching societal net-zero.



Finance, technology and international cooperation are critical **enablers for accelerated climate action**. If climate goals are to be achieved, both adaptation and mitigation **financing would need to increase many-fold**.



Source: sciencebasedtargets.org

### **Bio Natur Resort Retter**

Living sustainability in hotel operations







- Heat generation with wood chips
- 100% green electricity
- Heat through optimized energy concept



Saving 3 million liters of drinking water per year by flushing toilets with rainwater



Conversion of vehicle fleet to e-cars

10 free echarging stations





#### Naturhotel Chesa Valisa

#### Organic and sustainability for generations



- The Chesa Valisa was one of the first organic hotels in Europe
- Credo: "Making the world a better place with our actions"
- 100% organic cuisine: regionality, seasonality and quality
- Cooperation with local farmers and certified organic producers
- Carbon neutral since 2007: offsetting of residual CO<sub>2</sub> emissions and use of renewable energy
- · Own spring water from the hotel's own spring
- Ecological construction: Wood from regional forests, natural materials for the extension and energy efficiency
- Continuous improvement of sustainability standards and promotion of a conscious lifestyle - not only in the hotel, but also among employees and guests













