



# Sustainability reporting and Climate Change Case studies

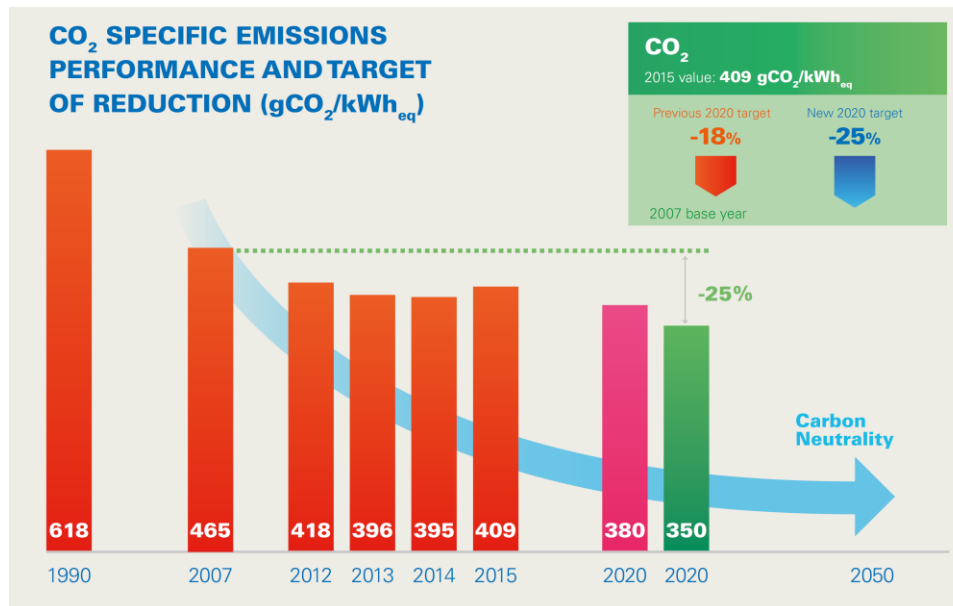
Berlin – 5<sup>th</sup> May 2017

# Reporting on climate change

## Case study - Enel



“ **2015**: Coinciding with the Paris Climate Change Conference (COP21), Enel’s new commitments to reduce its CO<sub>2</sub> emissions to 2020 and the route to **carbon neutrality in 2050** are **certified as “science based targets”** (i.e. in line with the request of the scientific community) by a working group consisting of the Carbon Disclosure Project, UN-Global Compact, WWF, and the World Resource Institute. Enel is one of the first 12 companies in the world to obtain such recognition



# Reporting on climate change

## Case study - Enel



### BRAZIL

Thermoelectric production



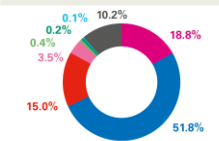
THE NUMBERS

POWER PLANTS  
**1**

NET POWER  
**314** MW

TYPE OF PLANT	Power plants
With back-up gas turbines	0
With gas turbines in combined cycle	1
<b>Total</b>	<b>1</b>

Consumables  
TOTAL: 330 t



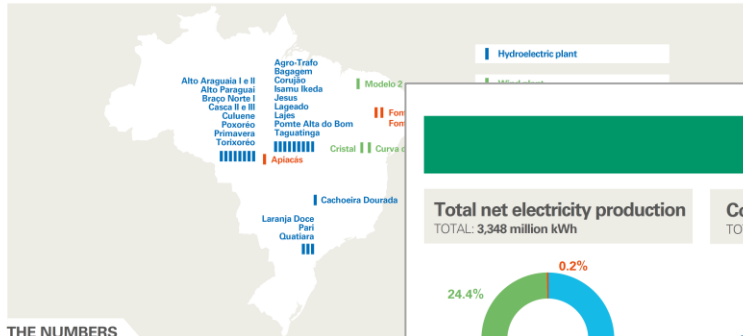
Fuel consumption  
TOTAL: 418,000 t (of oil equiv.)



- Caustic soda
- Sulfuric acid and hydrochloric acid
- Sodium hypochlorite
- Ferrous sulfate
- Polyelectrolyte
- Hydrazine
- Ammonia
- Other

### BRAZIL

Production from renewables



THE NUMBERS

POWER PLANTS  
**38**

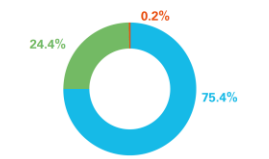
NET POWER  
**1,168** MW

TYPE OF PLANT	Power plants
HYDRO	
Run-of-the-river	11
Basin/reservoir	10
<b>Total</b>	<b>21</b>
WIND	
	14
PHOTOVOLTAIC	
	3
<b>Total</b>	<b>38</b>

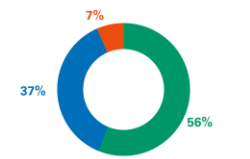
### BRAZIL

Production from renewables

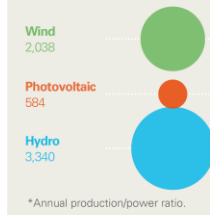
Total net electricity production  
TOTAL: 3,348 million kWh



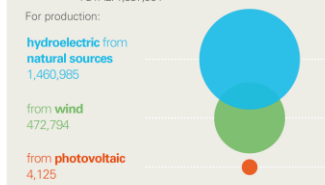
Consumables  
TOTAL: 60 t



Equivalent annual hours of use\*  
TOTAL: 5,962



Emissions of CO<sub>2</sub> avoided (t)  
TOTAL: 1,937,904



Special waste

	Non-hazardous waste (t)	Hazardous waste (t)
TOTAL PRODUCED	69	0
TOTAL TRANSFERRED FOR RECOVERY	0	0
PRODUCED	20	49
TRANSFERRED FOR RECOVERY	0	0

# Reporting on climate change

## Case study - Ambuja Cements



“ Renewable Energy projects enabled us to reduce about 59,559 tonnes of CO<sub>2</sub>

“ CO<sub>2</sub> levels in 2015 further reduced by 29.4% from 1990 as compared to 28.3% for 2014.

		GRI G4 Indicator	2013	2014	2015
<b>CO<sub>2</sub> Emissions</b>					
Total Scope 1 Direct emissions (Absolute gross: cement & onsite power generation)	tons of CO <sub>2</sub>	EN15	13476725	13997274	13585987
Total Scope 2 Indirect emissions	tons of CO <sub>2</sub>	EN16	634759	794347	888778
Indirect Emissions from Imported Electricity	tons of CO <sub>2</sub>	EN16	536782	707362	547813
Indirect emissions from inbound clinker	tons of CO <sub>2</sub>		97977	86985	340966
Total Scope 3 emissions	tons of CO <sub>2</sub>	EN4, EN17, EN30	Not estimated	167674.4	1528250
Number of Integrated Plants included in Scope-3 emissions			NA	1 of 5	5 of 5
CO <sub>2</sub> from Combustion of Biomass (kiln & non-kiln fuels including biomass content of mixed fuels)	tons of CO <sub>2</sub>		104466	85193	103860

# Reporting on climate change

## Case study - Statoil



“ Reflecting the ambitions set by the Paris climate agreement and the risks and opportunities associated with the long-term transition to a low carbon energy future, our climate roadmap defines three key strategic objectives and an action plan to 2030:

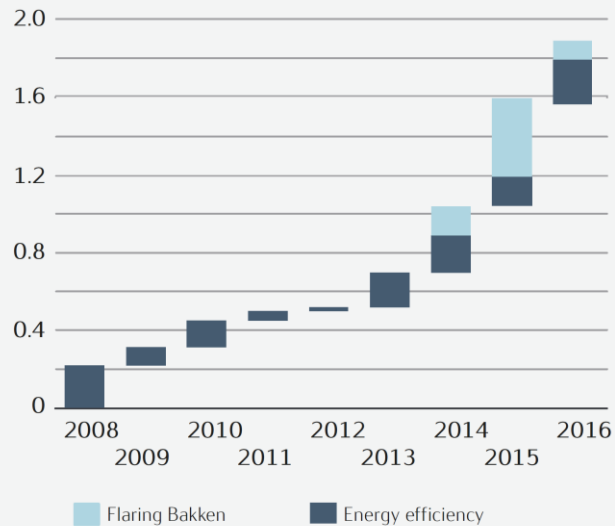
Build a high value and lower carbon oil and gas portfolio	Create a material industrial position in new energy solutions	Accountability and collaboration
<p>CO<sub>2</sub> emission reductions of <b>3 million</b> tonnes per year by 2030*</p> <p>Portfolio carbon intensity of 8 kg CO<sub>2</sub> per boe by 2030</p> <p>Methane emissions from the Norwegian gas value chain below <b>0.3 %</b></p> <p>Eliminate routine flaring by 2030</p> <p>* Compared to 2017</p>	<p>New energy solutions with potential to represent around <b>15-20 %</b> of capex by 2030</p> <p>Up to <b>25 %</b> of research funds to new energy solutions and energy efficiency by 2020</p> <p>Invest <b>USD 200 million</b> through our new energy ventures fund</p> <p>Partner in the <b>USD 1 billion</b> OGCI Climate Investments</p>	<p>Continued support for carbon pricing</p> <p>Minimum internal carbon price of <b>USD 50</b> per tonne CO<sub>2</sub></p> <p>Climate risk and performance embedded into strategy, incentives and decision-making</p> <p>Amplifying our climate actions through collaboration</p>

# Reporting on climate change

## Case study - Statoil



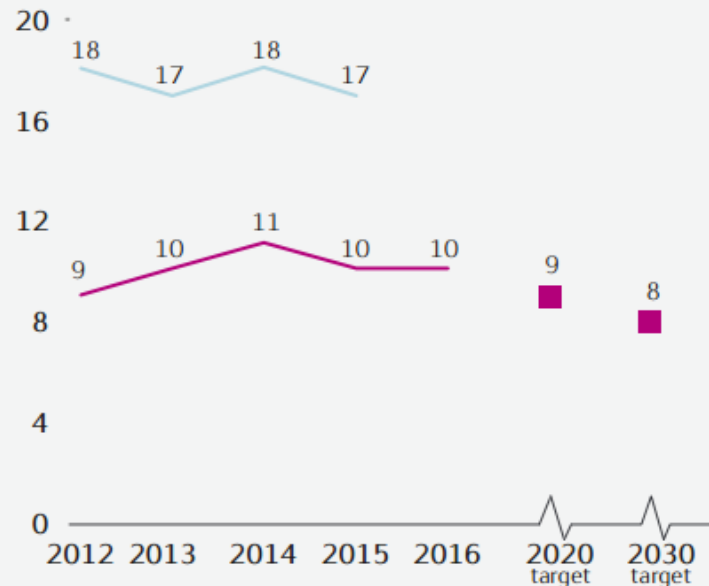
CO<sub>2</sub> emissions reductions\*  
(million tonnes)



\* Accumulated effect of CO<sub>2</sub> emissions reductions measures  
(tonnes CO<sub>2</sub> per year)

CO<sub>2</sub> intensity (upstream)

(kg CO<sub>2</sub> per boe)



# Thank you



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