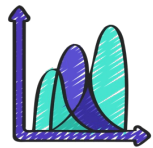


From scenarios to Plan | Assess hazard, understand vulnerabilities and exposure, implement adaptation measures



1. Climate Hazard assessment

Climate scenarios to assess **expected changes** in physical phenomena



2. Vulnerability to physical phenomena

Quantifying **potential damages** on assets and **business interruptions** function of intensity and probability of phenomena



3. Economic impact

Assessing the expected **economic impact** of climate change considering Hazard and Vulnerability of climate change



4. Adaptation Plan

Define Adaptation measures to be implemented, through Cost-Benefit analyses both for **Event Management (Response)** and **Resiliency measures**



Keywords

Data and tools
Probability and intensity
Geo-resolution
Models and Scenarios

Link functions
Weakness Damages
Business interruptions
Technologies
Asset@risk

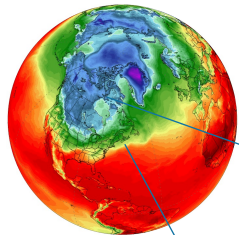
Economic **exposure**
Cost-Benefit analysis
Overall **risk assessment**

Adaptation options
CAPEX and OPEX
Response actions
Resiliency by design
Opportunities

Hazard Assessment | Climate scenario development and data on relevant phenomena

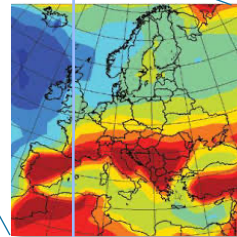


As Enel we perform climate change analyses from global...



ipcc

... to local scales



... focusing on the climate phenomena that affect the Company

Acute phenomena



Heatwaves



Heavy precipitation



Wildfire risk



Floods



Wind storms



Tropical cyclons



Heavy snow



Cold spells



Hailstorms

Chronic phenomena



Power demand



Production of the renewable fleet (wind, hydro and solar)



Thermo-electric production* (sea level rise and increase of the sea temperature)

ICTP The Abdus Salam International Centre for Theoretical Physics

WCRP World Climate Research Programme

CLIMATE SCALE

We work with Enel Business Lines to quantify vulnerability and exposure in order to define Adaptation Plans



1. Climate Hazard assessment

2. Vulnerability to physical phenomena

3. Economic impact

4. Adaptation Plan

Probabilistic link between scenarios and Vulnerability to inform deterministic choices among feasible Adaptation options

Quantifying **potential damages** on assets and **business interruptions** function of intensity and probability of phenomena

Assessing the expected **economic impact** of climate change considering Hazard and Vulnerability of climate change

Define Adaptation measures to be implemented, through Cost-Benefit analyses both for **Event Management (Response)** and **Resiliency measures**



Keywords

Data and tools
Probability and intensity
Geo-resolution
Models and Scenarios

Link functions
Weakness Damages
Business interruptions
Technologies
Asset@risk

Economic **exposure**
Cost-Benefit analysis
Overall **risk assessment**

Adaptation options
CAPEX and OPEX
Response actions
Resiliency by design
Opportunities