  

**ACTION PLAN**

**For Reducing Enterprise-Level GHG Emissions at least 8% by 2030**

This document is the **template** to be used by all signatories of the “Business4Climate” Initiative, for reporting their Action Plans to reduce their GHG emissions at least 8% by 2030 compared to 2017. It contains a list of possible emission abatement measures that can be implemented by enterprises in order to fulfil their 2030 voluntary commitment by signing the Business4Climate declaration.  
  
***Please note that the actual Action Plans will be submitted by signatories at a later stage (two years after the signature of the Business4Climate Voluntary Committment.***

This action plan is submitted by [please insert the name of company]

…………………………………………………………………………………………………

Date of submission:

Date of approval:

With the submission of this report I consent the Action Plan of the Company to go online on the Business4Climate web site.

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# **Section 1: Executive summary**

Please describe here the main activities of your company, when sign the B4C initiative, main goals and strategies regarding GHG emissions reduction

Key examples of mitigation strategies from the Climate Action Plan are:

**Energy Savings & Supply**

* Reduce the energy consumption of existing buildings
* Promote generation of renewable energy
* Adopt energy efficiency and green building standards, EMAS etc
* Employees awareness measures/capacity building
* +++

**Processes**

* Replace machinery or equipment (burners, motors, transformers etc.) with modern more efficient one
* Invest in cogeneration
* +++

**Transportation**

* Replace current vehicles with lower emission vehicles
* Support alternative fuel options
* Increase efficiency of fleet
* Employees awareness measures for eco-driving
* +++

**Waste**

* Promotion of reduction, recycling, management & treatment
* Employees awareness measures

# **Section 2: Formulating the action plan**

Is it reasonable? Meaning, if your goal states in 13 years you will achieve an 8% reduction in greenhouse gas emissions, what is the likelihood that will happen? Evaluate not only the percentage reduction, but the deadline for achieving it.

What is the timeframe for achieving the goal? Give enough time to realize the benefits of initiatives taken to reduce greenhouse gas emissions.

Please insert here the emissions for 2017 and try to estimate (project) your emissions by 2030 in a Table format

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | + | + | 2030 |
| Emissions  Tons CO2 eq/yr |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

# **Section 3: Description of measures**

## I. Low-Cost Measures

**I.1. Reduction in Energy Consumption of Buildings**

Examples:

* Roof insulation
* Wall insulation
* Pilotis insulation
* Replacement of heating and cooling systems with highly efficient heat pumps
* Replacement of windows
* Replacement of lightbulbs with highly efficient ones
* Replacement of electric appliances with highly efficient ones
* Installation of solar thermal water heaters
* Employees awareness campaigns

Required information (depending on measure):

* Total area to be refurbished
* Number of windows, appliances, light bulbs etc. to be replaced
* Total hours of operation (of lighting, cooling system etc.) per year
* Year of implementing the measure
* Calculated GHG savings

**I.2. Reduction in Energy Consumption of Processes/Machinery**

Examples:

* Replacement of burners with highly efficient ones (using the same fuel or an alternative low-carbon fuel)
* Installation of solar thermal water heaters for process heat

Required information (depending on measure):

* Number of machinery units to be replaced
* Total hours of operation of machinery per year
* Specifications of existing and new equipment / machinery (e.g. thermal efficiency of burners)
* Year of implementing the measure
* Calculated GHG savings

**I.3. Reduction in Energy Consumption of Motor Vehicles**

Examples:

* Regular technical inspection and maintenance of the firm’s motor vehicle fleet
* Eco-driving lessons to the firm’s drivers
* Employee awareness campaigns

Required information (depending on measure):

* Number of vehicles to be properly maintained by type (e.g. small cars, medium-sized cars, mini buses, trucks up to 3.5 tonnes gross weight etc.)
* Total kilometres travelled by each vehicle per vehicle type and year
* Expected savings in fuel consumption due to eco-driving lessons
* Year of implementing the measure
* Calculated GHG savings

**I.4. Measures Related to Waste Management**

Examples:

* Increased recycling of solid waste
* Composting of solid waste
* Employee awareness campaigns

Required information (depending on measure):

* Amount of waste to be recycled / composted
* Number of customers / visitors served by company
* Year of implementing the measure
* Calculated GHG savings

**I.5. Reduction in the Use of Fluorinated Gases**

Examples:

* Replacement of cooling / air conditioning equipment

Required information (depending on measure):

* Number of cooling / air conditioning units to be replaced
* Total hours of operation of units per year
* Specifications of existing and new equipment (e.g. type of gas used, installation year of existing units etc.)
* Year of implementing the measure
* Calculated GHG savings

## II. Medium-Cost Measures

**II.1. Reduction in Energy Consumption of Buildings**

Examples:

* Installation of solar photovoltaic systems for electricity production

Required information (depending on measure):

* Area (or capacity) of solar PVs to be installed
* Electricity production of PVs per installed kW per year
* Year of implementing the measure
* Calculated GHG savings

**II.2. Reduction in Energy Consumption of Processes/Machinery**

Examples:

* Replacement of electric motors with highly efficient ones
* Replacement of electric inverters with highly efficient ones

Required information (depending on measure):

* Number of machinery units to be replaced
* Total hours of operation of machinery per year
* Specifications of existing and new equipment / machinery (e.g. efficiency class of electric motors etc.)
* Year of implementing the measure
* Calculated GHG savings

**II.3. Reduction in Energy Consumption of Motor Vehicles**

Examples:

* Replacement of existing fleet of the firm’s cars/buses/trucks with very efficient ones (using the same fuel or a low-carbon fuel or electricity)

Required information (depending on measure):

* Number of vehicles to be replaced by type (e.g. small cars, medium-sized cars, mini buses, trucks up to 3.5 tonnes gross weight etc.)
* Total kilometres travelled by each vehicle per vehicle type and year
* Energy-related specifications of existing and new vehicles (e.g. fuel consumption in litres per 100 kilometres)
* Year of implementing the measure
* Calculated GHG savings

**II.4. Measures Related to Waste Management**

Examples:

* Zero Waste plan

Required information (depending on measure):

* Persentage of food waste separated, and other material
* Year of implementing the measure
* Calculated GHG savings

**II.5. Reduction in the Use of Fluorinated Gases**

Examples:

* Replacement of cooling / air conditioning equipment

Required information (depending on measure):

* Number of cooling / air conditioning units to be replaced
* Total hours of operation of units per year
* Specifications of existing and new equipment (e.g. type of gas used, installation year of existing units etc.)
* Year of implementing the measure
* Calculated GHG savings

## III. High-Cost Measures

**III.1. Reduction in Energy Consumption of Buildings**

Examples:

* Geothermal systems for space and water heating

Required information (depending on measure):

* Heat to be produced by the new system per year
* Year of implementing the measure
* Calculated GHG savings

**III.2. Reduction in Energy Consumption of Processes/Machinery**

Examples:

* Cogeneration of heat and electricity

Required information (depending on measure):

* Heat and electricity to be produced by the new system per year
* Year of implementing the measure
* Calculated GHG savings

**III.3. Reduction in Energy Consumption of Motor Vehicles**

Examples:

* Eco-driving lessons to personnel
* Optimisation of roots
* GPS system
* +++

Required information (depending on measure):

* Specifications of new vehicles or software installed
* Year of implementing the measure
* Calculated GHG savings

**III.4. Measures Related to Waste Management**

Examples:

* Use of anaerobic digestion for solid waste

Required information (depending on measure):

* Amount of waste per year to be directed to anaerobic digesters
* Year of implementing the measure
* Calculated GHG savings

**III.5. Reduction in the Use of Fluorinated Gases**

Examples:

* Replacement of expensive cooling / air conditioning equipment

Required information (depending on measure):

* Number of cooling / air conditioning units to be replaced
* Total hours of operation of units per year
* Specifications of existing and new equipment (e.g. type of gas used, installation year of existing units etc.)
* Year of implementing the measure
* Calculated GHG savings

# **Section 4: Conclusions**

Please give at this section the conclusions of the action plan.