

The Critical Role of Energy Efficiency in a Fast Changing World

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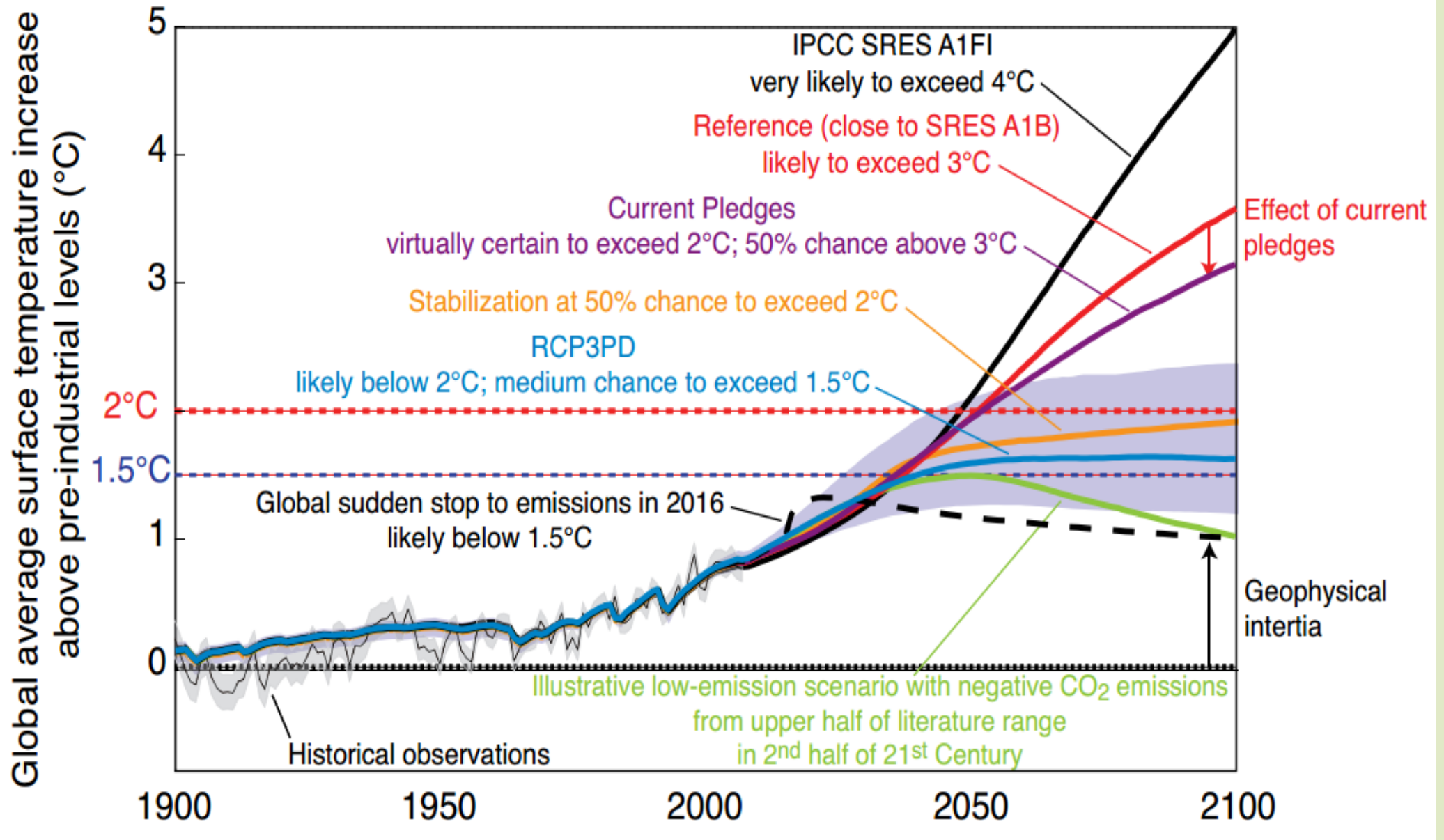
**VIENNA ENERGY
TRANSITION FORUM**



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Climate Change in a single photo!!





“A half of degree of warming makes a world of difference”

UN IPCC report from their mtg of 8/10/2018 in Korea:

1. More heat waves for tens of millions of people,
2. Far greater species loss,
3. Increased water scarcity in some of the world's most unstable regions,
4. A ten-fold increase in Arctic ice-free summers,
5. A total wipe-out of the world's coral reefs!

The Paris Agreement and the Sustainable Development Goals are the foundations for global efforts to address climate change.

The purpose of the 2019 Climate Summit is to challenge states, regions, cities, companies, investors and citizens to step up action in six areas:



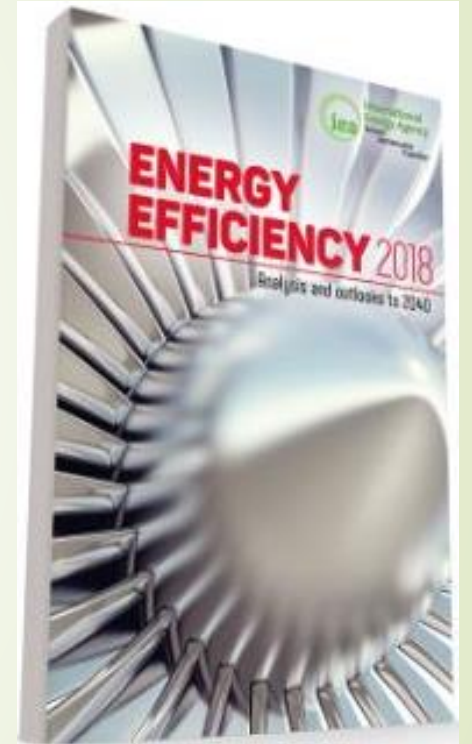
IEA's "Energy Efficiency 2018"

"**Energy Efficiency 2018**" outlines a global strategy focused on what governments can do to capture the economic, social and environmental benefits of enhanced energy efficiency.

IEA's global analysis of energy efficiency has identified the key actions that can deliver the most positive impact.

This includes improving the efficiency of buildings and industry.

It also highlights the importance of areas such as aviation and shipping, where energy efficiency is becoming increasingly important.



EU Energy Efficiency Policy – Main facts

In 2007, EU sets, for its M-S, strict targets for battling CO₂ emissions by 2020.

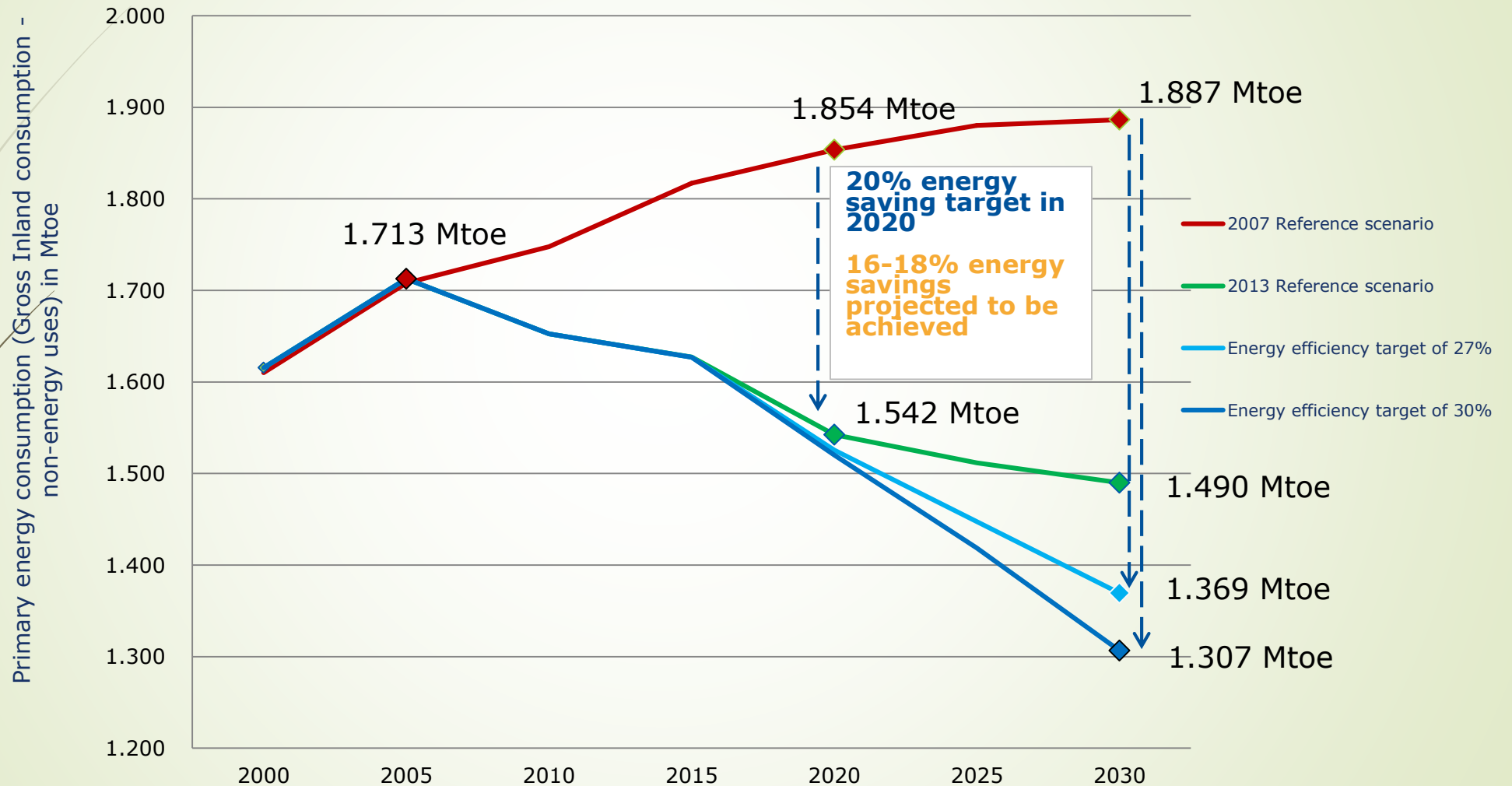
20% less CO₂ emissions compared to 1990 - 20% electricity by RES and 20% energy savings for 2020 i.e. from **1854 Mtoe** to 1542 Mtoe.

In October 2014, EU leaders agreed, inter alia, to a specific domestic GHG reduction target of at least **40%** by 2030 relative to 1990 emissions.

This objective is the contribution of the European Union to the new agreement on climate change.

These EE targets were, then renewed and the new ambitious target, for 2030, is to **1307** Mtoe.

2020 and 2030 energy savings targets



EU Energy Efficiency Policy

Energy Efficiency Directive

› National Energy Efficiency Action Plans and Annual Reports

EU country plans showing how they intend to meet their energy efficiency targets.

› Buildings under the EED

EU countries' national building renovation strategies and measures for improving energy efficiency in public buildings.

› Obligation schemes and alternative measures

Energy efficiency obligation schemes or alternative measures to reduce energy consumption by final consumers.



Overview

The 2012 Energy Efficiency Directive establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020. Under the Directive, all EU countries are required to use energy more efficiently at all stages of the energy chain, from production to final consumption.

On 30 November 2016 the Commission proposed an update to the Energy Efficiency Directive, including a new 30% energy efficiency target for 2030, and measures to update the Directive to make sure the new target is met.

LATEST

Clean energy for EU islands to be discussed in Lanzarote
19 October 2018

Clean energy: EU supports floating wind farm in Portugal with €60 million loan
19 October 2018

State aid: Commission approves support to two highly efficient cogeneration plants in Germany
25 September 2018

Commissioner Arias Cañete at Global Wind Summit in Hamburg
24 September 2018

New lightbulb rules will enable household energy savings and help reduce greenhouse gas emissions
31 August 2018




Energy Efficiency: a hidden treasure

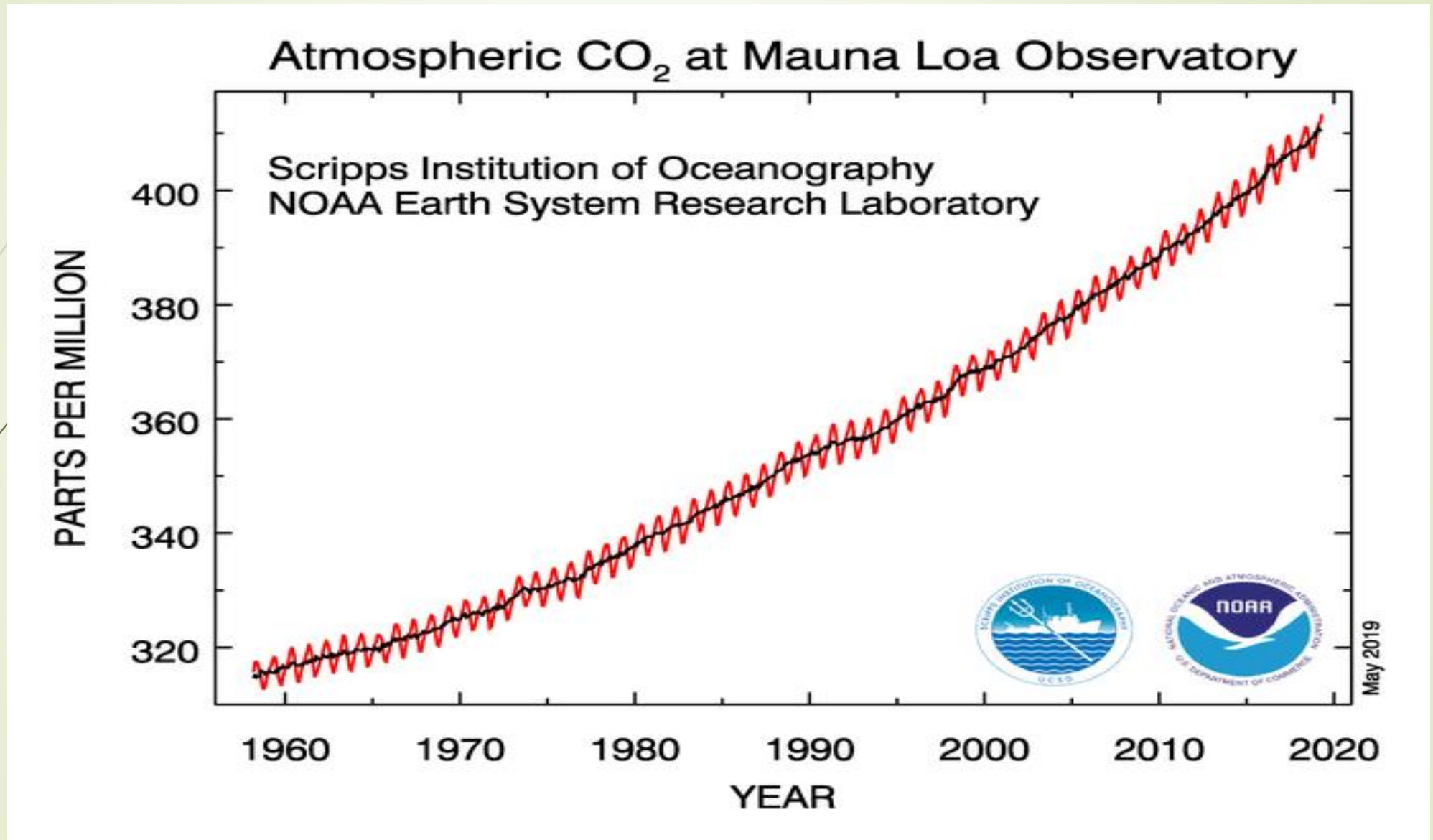
- ▶ Energy Efficiency is far from fulfilling its capabilities. Globally, two-thirds of the economic potential are still unexploited.
- ▶ Energy Efficiency projects, apart from their technological dimension, have an economic dimension that requires brave handling by governments.
- ▶ Good energy efficiency projects can result in significant energy savings with short amortization periods, which turn these projects into interesting investment opportunities.



Energy Efficiency: a hidden treasure

- One of the barriers of implementing energy efficiency projects is the incapability of the financial markets, mainly systemic banking system, to provide adequate funding.
 - Energy Efficiency is an important factor in improving the competitiveness by creating high-quality jobs.
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But, despite the actions, CO₂ still increasing....



Thank you for your attention!!

