

# Commitment to better energy

Partnering with REstore (now part of Centrica Business Solutions) enabled Total to maximise their flexible power while minimising their operational risks.



## Challenges

Total Petrochemicals' Feluy site is Total's largest European polymer plant producing over 1.2 million tonnes of plastics annually. In their "Commitment to Better Energy", Total Feluy sought to help prevent power blackouts in Belgium. As one of southern Belgium's top five electricity consumers, Total was already determined to play a proactive role in this. In practice, when Elia announces activation of its Strategic Reserve Programme, Total Feluy accepts to reduce consumption to a set level within six and a half hours. The company was also conscious of increasing electricity tariffs and looking for ways to reduce its power bill. Within the polymer plant, the pelletizing process, involving several large extruders, proved to have some flexibility. The extruders could be curtailed for a couple of hours, but only if stock levels within buffer silos were not reduced below a certain level – a very challenging task.

## The solution

Together with the Total team, Centrica Business Solutions performed a flexibility analysis of the extruder units in order to assess their flexibility potential. The extruders differed in terms of size and the availability of each individual extruder proved inadequate. However, through aggregation of each flexible load within its large portfolio, Centrica Business Solutions managed to dramatically increase the flexible power at the Feluy site. Due to Centrica Business Solution's experience and its professional approach Total is not exposed to any unavailability penalties due to their participation in demand response programmes via the wider portfolio.



Tonnes of plastics produced annually



Total is the world's 4th largest oil and gas company



Operations in 130 countries



"We would recommend Centrica Business Solutions without hesitation, due to their professionalism in both implementation and execution."

Spokesperson, Total

Operational risk is minimised due to the automatic protection of Total's set industrial boundary conditions. All implementation costs were borne by Centrica Business Solutions, which made Total's participation both no-cost and no-risk.

## The results

Demand Response facilitates the further development of renewable energy. It lowers industry's carbon footprint. It helps to curb global climate change.