

PROBLEM/ISSUE ADDRESSED

- Industrial companies often neglect energy availability and costs variables when they schedule their production
- It is necessary to optimize the processes – produce more using less energy
- reducing overall costs and contributing to a greener economy

SOLUTION

Green APS aims at bringing an AI-supported Energy Management Systems integrated to an Advanced Planning and Scheduling (APS) solution to the market, thus reducing energy consumption and carbon footprint of manufacturing companies, by analyzing energy offer, demand and consumption variables.




WHY IT IS IMPORTANT FOR SOCIETY

Manufacturing processes consume more natural resources than ecologically bearable, motivating environmental policies to emphasize efficient consumption of energy. Here a substantial part of energy consumption can be reduced through optimized production plans, since industrial companies schedule their production considering many variables, but often neglect those related to energy availability and costs. In Conclusion, GreenAPS will support energy-intensive industries to reduce energy consumption and improve the use of renewable energy sources, thus reducing their carbon footprint.

“ Thanks to EIT we were able to further develop this technology, testing its performance in industrial sectors that are relevant for the reduction of energy consumption and consequent carbon footprint ”



MAIN RESULTS & INSIGHTS

-  Integrates the company's energy management systems and production scheduling
-  Incorporates an AI-supported optimization model for green operations planning and scheduling based on (renewable) energy availability and costs
-  Reduce energy consumption for energy-intensive manufacturing processes and other processes that rely on high quantity, quality products with low margins.



JEAN DUMONT

Manager of Innovation Projects at ESI Group

MAIN PRODUCT

AMPLI project

AIM: Accelerating the digitalisation of plastic manufacturing industries through new technologies



xxx-group.com



xxx-group.com



xxx-group.com