



Enhancing environmental sustainability

Aarhus University Hospital achieved substantial waste reduction and energy consumption through a certification program

Aarhus University Hospital



Aarhus, Denmark



Department of Clinical Biochemistry

- 24-7 Lab (Chemistry, Coagulation, Hematology)
- 270 different tests
- Analyzers: Chemistry (Atellica CH analyzer), Immunochemistry (Atellica IM analyzer, cobas e602), Coagulation (CS5100), Hematology (XR9000) and Allergy (Immunocap 250)
- Most analyzers are connected to the Inpeco FlexLab track



Challenges

Clinical laboratories have a substantial environmental footprint, creating a challenge to translate strategy and commitments to greener healthcare into measurable, practice-level sustainability improvements.



Risks

Sustainability changes may disrupt validated lab processes, potentially affecting sample quality, compliance, and continuity of patient monitoring if not rigorously standardized and verified.

16,000

samples per day

4,000

samples per hour

9M

tests per year

11

sections



Solution: My Green Lab Certification

The three pillars of the program:

- **Engagement Survey** helped identify existing and emerging sustainable practices.
- **Assessment Tool** determines a large portion of your certification score and acts as a project management tool.
- **Impact Estimator** provides measurable resource impact and cost savings for the laboratory.

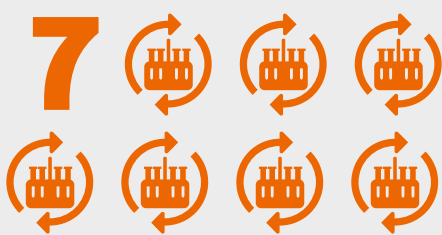


my green lab.
Certification

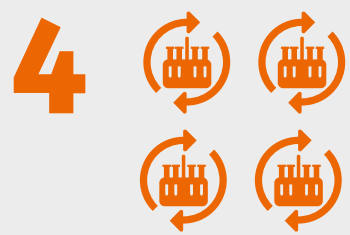


Outcomes of My Green Lab Certification

#1 Optimize centrifuge utilization



Off-peak hours (7 p.m. – 7 a.m.)
Weekends (12:30 a.m. – 7 a.m.)



No impact on flow or TAT



Savings: **3,600 kWh/year**

#2 Increase ultra low temperature freezers from -80 to -70°C



20-30% reduction in energy consumption
Savings: **1,000 kWh/year** saved per freezer

#3 Reduce waste (waste containers)



Reuse of used containers with matching threads
No need to import them from China by plane



In 2025, the laboratory has achieved a gold rating in the My Green Lab Certification program, widely recognized as the global benchmark for sustainability best practices in life sciences laboratories.

"After our laboratory became My Green Lab certified, the work did not stop. We continue to drive sustainable improvements, most recently by optimizing and reducing the usage of centrifuges to better match capacity with actual workflow during off-peak hours. This is a concrete example of intelligent sustainability, where efficient operations and reduced resource consumption go hand in hand."



Kate Juul Strandgaard
Head Biomedical Laboratory Scientist

The statements by Siemens Healthineers' customers described herein are based on results that were achieved in the customer's unique setting. Because there is no "typical" hospital or laboratory and many variables exist (e.g., hospital size, sample mix, case mix, level of IT and/or automation adoption) there can be no guarantee that other customers will achieve the same results.

Product availability varies by country and is subject to varying regulatory requirements. Their future availability cannot be guaranteed. Please contact your local representative for availability.

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