



EUROPEAN FEDERATION OF CLINICAL CHEMISTRY  
AND LABORATORY MEDICINE

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EFLM  
EUROPEAN FEDERATION OF CLINICAL CHEMISTRY  
AND LABORATORY MEDICINE



Green Labs

## EFLM TASK-FORCE

### GREEN and SUSTAINABLE LABS

Meeting with the NS Presidents/ National  
Society Representatives/GSL Experts

2 August 2023

Chair: Tomris Ozben



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**Assessment of the laboratories for EFLM Green  
lab Certificate**

A large orange circle is positioned on the left side of the slide, partially overlapping the white background.

# SUSTAINABILITY IN LABORATORY MEDICINE: GREEN LABS

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Sustainability is important in a rapidly changing healthcare environment.

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Sustainability measures in the healthcare sector are needed to reduce its negative impacts on the environment and economy.

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**Laboratory medicine** should contribute to a **sustainable healthcare system** ensuring that **resources** are used efficiently from **ecological, social, and economical perspectives, while providing high-quality services to patients and physicians.**

**EFLM TASK-FORCE  
GREEN and SUSTAINABLE  
LABS**

Chair: Tomris Ozben

**aimed  
to implement  
sustainable  
practices  
in medical  
laboratories**



**EFLM and its Member Societies will lead the laboratory medicine community for the shift to carbon neutrality in line with the European Green Deal (EGD) Investment Plan, which is aimed at making Europe the world's first climate-neutral continent**

# Completed activities of the EFLM Task Force “Green and Sustainable Labs”

**(2022)**



Manual



Checklist



Videos



Workshops



Exams



Surveys



Assessments

- 1. The official establishment** of the EFLM Task Force Green Labs was announced on November 19, 2021 to the
  - EFLM National societies,
  - EFLM and IFCC newsletters,
  - EFLM mailing list of 10000 contacts and announcement via socials.
- 2. EFLM National Societies** were invited to name an officer acting as NS Representative for the Task Force-Green Labs. The new initiative of EFLM “Green Labs” has been appreciated by the EFLM National Societies and they appointed **49 National Society Representatives** in addition to the **Task Force-Green Labs core members**. <https://eflm.eu/site/page/a/1732>
- 3.** The European Commission (EC) entitled “**European Green Deal (EGD)**” was informed about the establishment of the EFLM Task Force-Green Labs. EC Commissioner EGD Executive Vice President and his cabinet are following our activities closely. They expressed congratulations for the establishment of the EFLM TF-Green Labs. We are in close contact with the EGD Commission in our further progresses.
- 4. MedTech Europe** was informed at the same time. They were interested with the EFLM initiative and appointed their Senior Manager on “Environment & Sustainability” to the EFLM TF-Green Labs as a TF member.
- 5.** A session was dedicated at the **EFLM Strategic Conference**. <http://www.eflm-strategic-conference.eu/>
- 6. Guidelines, Checklists, PowerPoints, video recordings** on main topics: Energy, Waste, Water, and Chemicals were **completed**. **A logo was prepared, and ISBN code was received for the guidelines.**
- 7.** They were shared with the 49 delegates appointed by the national Societies in EUROPE.

# Ongoing Actions for the EFLM Task Force “Green and Sustainable Labs” (2023)



Manual

8. Preparation of a software for assessing the applications of laboratories. **Completed**



Checklist

9. Assessment of National Society Representatives to become Green Lab Experts. **Completed**



Videos

10. Launch a call to receive “Green and Sustainable Lab Certificate” applications from Laboratories. **Completed**



Workshops

11. Meetings with the National Societies (Presidents, National Representatives, members). **Completed**

12. Guidelines are translated into French and German. **Completed**



Exams

13. Italian and Spanish translations are **ongoing**.

14. Evaluation/assessment of the applications. **Ongoing**



Surveys

15. EFLM Green and Sustainable Lab Certificates to be given to the laboratories fulfilling the EFLM Green Lab requirements. **Ongoing**



Assessments

16. Organize a in-presence/on-line Workshop for the whole EFLM Community. **Being planned and under preparation**

**From:** sante-med-dev@ec.europa.eu <sante-med-dev@ec.europa.eu>  
**Sent:** Wednesday, June 28, 2023 2:36 PM  
**To:** Tomris Ozben <ozben@akdeniz.edu.tr>  
**Cc:** sante-med-dev@ec.europa.eu  
**Subject:** RE: EFLM Task Force- Green and Sustainable Labs -Ares(2023)3951947

Dear Prof. Dr Tomris Ozben,

On behalf of Commissioner Kyriakides, I thank you for your email sent on 3 June, in which you inform us about the call for applications of EFLM member society laboratories to receive the EFLM developed “Green and Sustainable Lab Certificate”.

We commend the effort and commitment of EFLM to ensure that medical laboratories across Europe have environment-friendly practices. We see the work of the EFLM taskforce – “Green and sustainable labs” as contributing to the green transition of the EU in line with the European Green Deal, whilst safeguarding the high quality of laboratory services, to the benefit of patients.

We look forward to receiving further updates on this very interesting initiative.

Kind regards,

Flora Giorgio  
Acting Head of Unit



**European Commission**  
**Directorate-General for Health and Food Safety (DG SANTE)**  
Unit D3 - Medical devices

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Health and Food Safety: <https://ec.europa.eu/info/departments/health-and-food-safety>  
EU Public Health - Medical Devices - Sector: [https://ec.europa.eu/health/md\\_sector/overview](https://ec.europa.eu/health/md_sector/overview)  
**Register here for the 24<sup>th</sup> IMDRF session!**



**IMDRF**  
International Medical Device  
Regulators Forum

**EU2023**  
EUROPEAN UNION  
*Chair*





EUROPEAN FEDERATION OF CLINICAL CHEMISTRY  
AND LABORATORY MEDICINE

# EFLM GUIDELINES FOR GREEN AND SUSTAINABLE MEDICAL LABORATORIES

To help EFLM National Societies  
in the transition to Green Lab!



Version Française Avril 2023 (LABAC)

**Guide EFLM pour des  
LABORATOIRES de BIOLOGIE MEDICALE (LBM) ECO-RESPONSABLES  
ET DEVELOPPEMENT DURABLE**



Traduit de l'anglais par Irving Bouilloux, Jean-Pierre Bouilloux, Jean-Marc Giannoli, Hélène Muller et Bernard Gouget pour Labac.

Avec l'aimable autorisation de la Professeure Tomris Ozben, Présidente de l'EFLM et Chair EFLM TF-Green labs

Le présent document est une traduction fournie à titre informatif et pédagogique . Elle n'engage aucunement la responsabilité de l'EFLM. En cas d'ambiguïté et/ou de divergences d'interprétation dans la version française des modalités pratiques recommandées de l'EFLM, les utilisateurs devront se référer à la version originale en anglais, qui prévaut toujours car elle représente la seule version contraignante.



**EFLM is proud to announce the launch of the**  
**EFLM CERTIFICATION FOR**  
**GREEN AND SUSTAINABLE LABORATORIES**  
aimed to implement sustainable practices in medical laboratories

**BECOME A**

*Green Lab*



<https://greenlabs.eflm.eu/>

Clinical laboratories worldwide interested in receiving EFLM Green Lab Certification are welcome to apply!

EFLM is proud to announce the launch of the  
**EFLM CERTIFICATION FOR GREEN AND  
SUSTAINABLE LABORATORIES**  
aimed to implement sustainable practices  
in medical laboratories

The EFLM certification for  
Green & Sustainable Laboratories



In line with the European Green Deal, the EFLM Executive Board has established in November 2021 the EFLM Task Force "Green and Sustainable Labs" with the aim that EFLM should lead the way in implementing sustainable practices in clinical and medical laboratories in Europe.

The goal is to transform 15 000 Clinical Laboratories in 49 EFLM member societies in Pan-Europe into a safe and sustainable spaces by decreasing their deleterious environmental impact and implementing efficient everyday actions in laboratories, and taking steps to minimize energy, water, and hazardous chemical use, as well as waste generation without compromising the quality of healthcare.

**WE ARE NOW READY TO RECEIVE APPLICATIONS  
FROM MEDICAL LABORATORIES**  
[Click here to know more and to apply](#)



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The goal is to transform 15.000 Clinical Laboratories in 49 EFLM member societies in Pan-Europe into a safe and sustainable spaces by decreasing their deleterious environmental impact and implementing efficient everyday actions in laboratories, and taking steps to minimize energy, water, and hazardous chemical use, as well as waste generation without compromising the quality of healthcare.

Good collaboration among the European Union healthcare systems and a common vision for future actions would help to achieve such goals and environment-friendly laboratories.



# EFLM Green Lab Certificate

## Benefits and value

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Ensure a healthy, safe and efficient laboratory environment.

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Reduce resources consumption such as energy, water, hazardous chemicals, and waste.

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Align clinical labs with sustainability goals and strategy.

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Attract qualified personnel providing them to work in a Green Lab.

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Helps hospital and laboratories to achieve their sustainability goals.

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Laboratory Managers join the community of Green Lab Leaders.

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# EFLM Green Lab Software Laboratory's Assessment

<https://greenlabs.eflm.eu/>

The miniwebsite and the software has been developed by TerAs in cooperation with the EFLM Office on the basis of the TF-GSL's instructions.

The miniwebsite is composed of the following sections:

- **Home**: giving a brief background on the aim of the TF-GSL
- **Who we are**: showing the list of TF-GSL Core Members and National Representatives/Experts
- **Resources**: listing the documents and PPT presentations developed by the TF-GSL Core Members
- **Certification**: with information about the procedure to apply and with a sub-section with the list of certified laboratories
- **Reserved Area**: the gate for institutions where they can apply for their laboratories

# How to apply for the Certificate

<https://greenlabs.eflm.eu/>

Laboratories are invited to apply for the EFLM certificate “Green & Sustainable Laboratories”.

This possibility is open to any public or private laboratory of the following disciplines: Clinical Chemistry, Hematology, Microbiology, Transfusion Services, Immunology, Pathology and Cytology.

Those interested to apply should identify a contact person inside their own institution who will be responsible for entering the replies for all the laboratories to certify.

The application consists in a check-list to fill in which is composed of 4 main sections: Chemicals, Energy, Waste and Water. [Click here to see the content of the check-list.](#)

# How to apply for the Certificate

<https://greenlabs.eflm.eu/>

Once entering the replies, the application will be submitted to the EFLM TF-GSL for final endorsement. Applications will be considered successfully if obtaining at least the 75% of points for each section.

If the application is successfully, an e-mail will be sent to the contact person inviting to proceed with the payment. While, if the application is not successfully, the laboratory will have the opportunity to apply again but after 3 months during which the laboratory is invited to improve the internal process adhering to the TF-GSL guidelines.

# How to apply for the Certificate

<https://greenlabs.eflm.eu/>

Where it is noted that a false declaration is made intentionally during the application process, the Institution will be excluded from the certification for an unlimited period of time. EFLM has the right to cancel the certification (if issued) without refund.

During the application process, as a proof of evidence, four clear photos of the laboratory (one for each section of the checklist) must be uploaded. These photos should illustrate that the laboratory complies to at least one of the related checklist items for each section where it was answered “Always OR already completed”. The photos should also clearly indicate that they are from the laboratory environment.



Possible occasional audits will be organized by the EFLM Task Force “Green & Sustainable Laboratories” to check that submitted information corresponds to the real situation of the certified laboratory.

# Certification Fees

<https://greenlabs.eflm.eu/>

The below fees are intended for each laboratory belonging to the same institution.

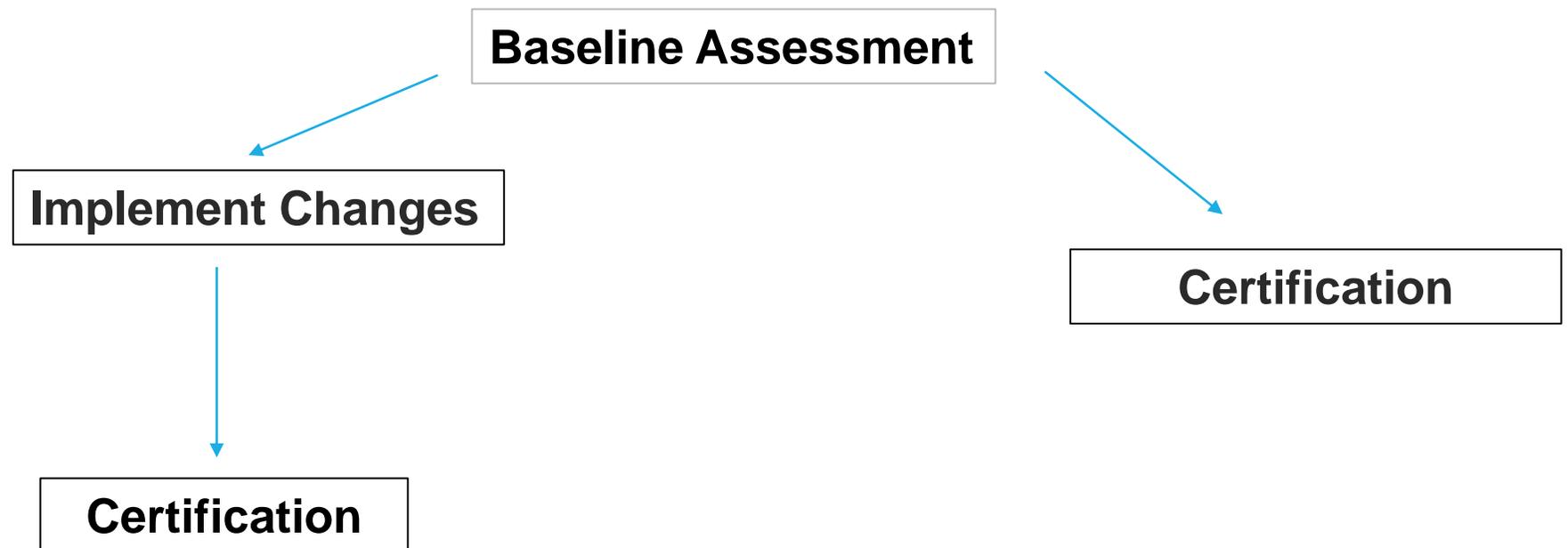
1 lab	2-10 labs	> 10 labs
500,00 €	400,00 €	300,00 €

The validity of the certificate is 2 years from the date of issuing.

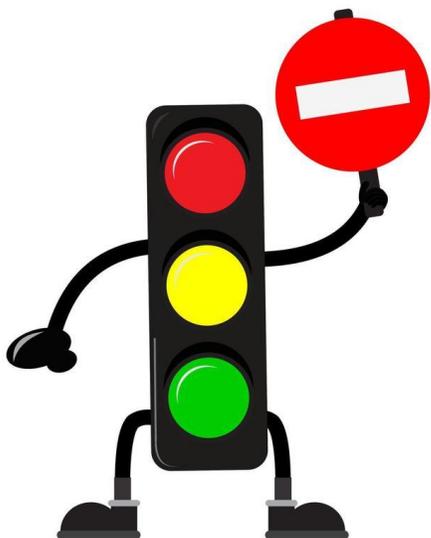
# The Certification Process

Green Laboratory Certification program is designed allowing laboratories to improve the conditions of the laboratories through a continuous improvement process.

In the beginning a survey using the checklist will be performed assessing the conditions of the laboratory as indicated in the figure.



# EFLM GREEN LAB CERTIFICATE



**RED:** Below 50% of Green Lab criteria implemented

**YELLOW:** 50-75% Green Lab criteria implemented

**GREEN:** 75% or more of Green Lab criteria implemented



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This is the certificate which is released to those laboratories obtaining more than 75% of scores for each section of the checklist.

The certificate is valid for two years from the date of issuing.