

# Sustainable Medicines Manufacturing - meeting sustainability goals without compromising product quality or safety



**David Gruber**

*Senior Director of Bioprocess Services*

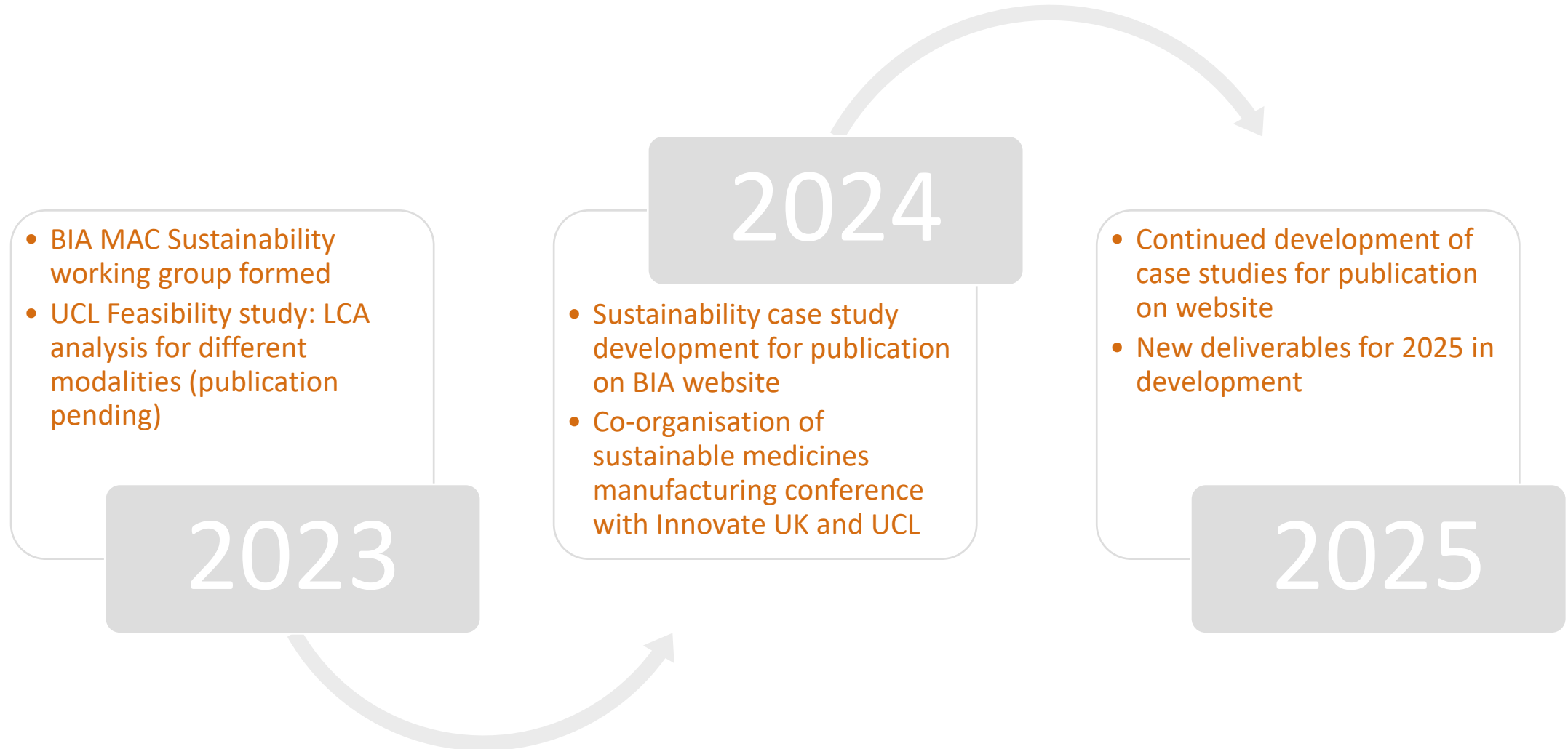
**Ipsen Biopharm**

**#bioProcessUK**

# Sustainable Manufacturing Session Intro

David Gruber

# MAC Sustainability Working Group





# Achievements to Date

Future Targeted Healthcare Manufacturing Hub  
[www.ucl.ac.uk/biochemeng/hub](http://www.ucl.ac.uk/biochemeng/hub)

28 November 2023 BIA MAC meeting

## Generating Sustainability Benchmark Indicators for Key Biotherapeutics UCL-BIA User Feasibility Study

UCL Researcher: Agnes Aparte  
UCL Supervisors: Suzy Farid (FTHM Hub Co-Director) & Brenda Parker with Catarina Neves, Chris Stamatis, Annabel Lyle  
BIA MAC Sponsors: David Gruber (Ipsen), Kit Erlebach (Fujifilm), Netty England (BIA), with reps from Ipsen, Fujifilm, Oxford Biomedica, Cytiva, Orchard Tx



### Key Recommendations

- Recommended Sector Priorities for PMI reduction:
  - To reduce PMI, focus on water reduction through e.g. process intensification (e.g. continuous).
- Recommended Sector Priorities for PCF reduction:
  - To reduce PCF, focus on renewable energy sources, HVAC design, consumables fabrication.



**Achieving Sustainable  
Medicines:**  
Driving research and  
innovation for future medicines  
manufacturing



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Sustainable Medicines Manufacturing

AstraZeneca: Smart metering product

30 November 2024

## Sustainability in action: How bioprocessing is pioneering sustainable practices

### Sustainable Medicines Manufacturing

#### Meeting sustainability goals without compromising product quality or safety

As the world becomes increasingly focused on environmental responsibility, the bioprocessing industry is transforming its approach to reduce its environmental footprint without compromising quality or safety.

Today's medicine manufacturing involves a wide array of complex, resource-intensive processes: from chemical

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<https://www.bioindustry.org>

