biopharm

Sustainability Metrics

BioSolve Process 9

Add-In Module

Combining an updated version of our **Process Mass Intensity report** with a new **Environmental report** that calculates your operating energy load and operating carbon footprint.

Process Mass Intensity

Energy Load

Carbon Footprint

Calculate Your **Process Mass Intensity**

Process Mass Intensity (PMI) provides a standard method for collecting mass data on the amount of water, raw material, and consumables used to produce 1 kg of API or product.

Water Usage
Determine the total amount of process water or WFI used upstream and downstream.

Raw Materials
Calculate the aggregate of raw materials used in your process including media, reagents, salts.

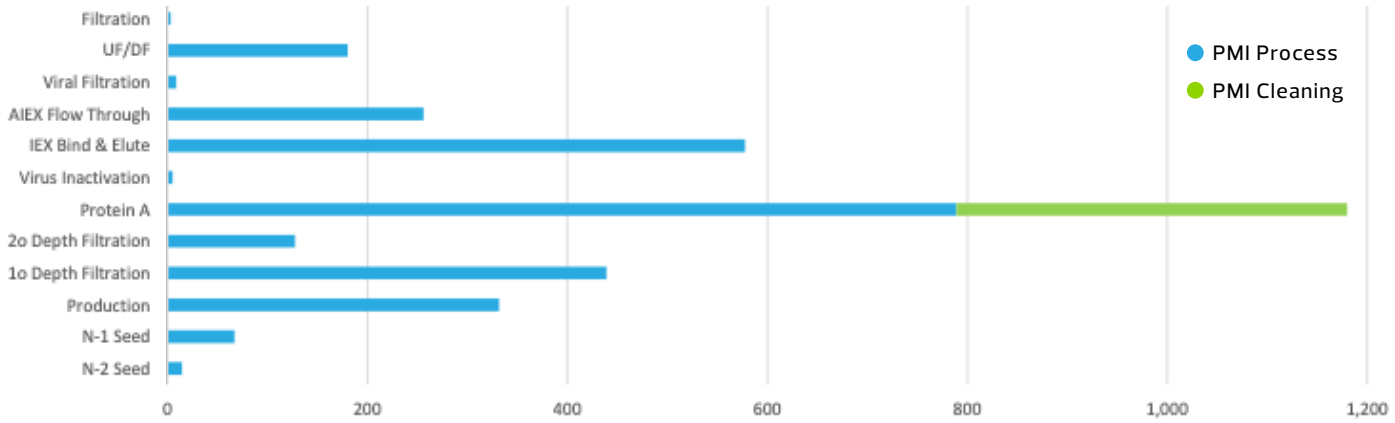
Consumables
Calculate the mass of consumables used in the process including resins, filters, and tubing.

NEW Packaging
Calculate the mass of packaging consumed from your process inputs.

NEW Cleaning Materials
Now including the mass of cleaning solutions used in the process.

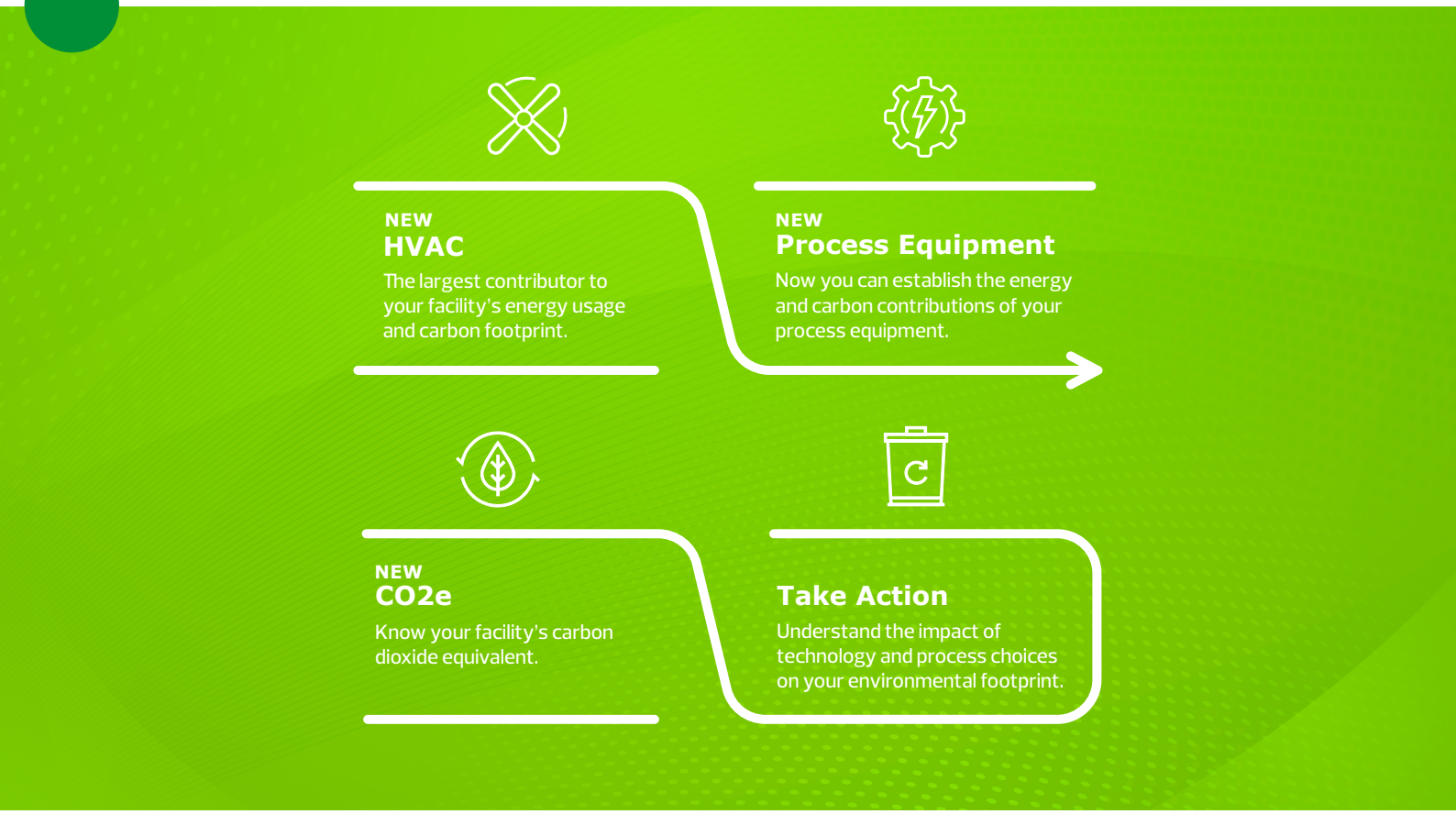
Take Action
Make informed decisions to reduce your PMI.

Evaluate Your **PMI Breakdown** by Unit Operation



Calculate Your **Facility Operating Energy Load & Operating Carbon Footprint**

Further your company's sustainability goals. Determine your facility's energy consumption and carbon footprint from your process operations based on intelligent geographic-based modelling.



What **Industry Experts** are Saying

"We need to continue studying and understanding the environmental sustainability implications of biopharmaceutical manufacturing, and then make sure we are communicating well both across the industry as well as to key stakeholders (including the public)"

Co-Founder & Director: **Aspire Sustainability**

Availability of our Suite of **Environmental Calculation Tools**

Item	Sub-Item	BioSolve Process 8	BioSolve Process 9	Sustainability Metrics
PMI Calculations	Water Usage	•	•	
	Raw Materials	•	•	
	Consumables	•	•	
	Packaging		•	
	Cleaning Materials		•	
Energy Load Calculations	HVAC			•
	Process Equipment			•
Geographical Setting	Choose from 13 pre-populated global areas			•
	Additional configuration free for further 3 areas			•
CO2 Calculations	CO2e			•

* Sustainability Metrics are only available as an add-in for BioSolve Process 9

Our Support

Purchase single-user or enterprise licenses

Access our customer support systems 24/7

Access Knowledge Base through our User Portal and BioSolve Central

Request custom training from our experts

BioSolve Process

BioSolve Process is the industry's leading process simulation software that helps drive your operational productivity prior to implementation through cost and sustainability modeling.

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