

# OPEN POSSIBILITIES.

**Sustainability in Data  
Centers power and  
cooling.**



NOVEMBER 9-10, 2021

**Sameer  
Sayed**

Global Data Center  
Lifecycle Mgmt.

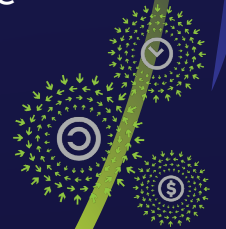


# The Sustainability in Data Centers power and cooling.

Committing to sustainability and  
market-based solutions to overcome  
environmental challenges.

**Cosimo  
Pecchioli**

Data Center  
Cooling Solutions



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SUSTAINABILITY

# Why Sustainability?



We believe there is a need for a **paradigm shift**, from MY company and MY Data Center to **“we belong to an ecosystem”**.

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- 01 | Data Centers are increasingly seen as resource drains.
- 02 | The presence (size and number) of Data Centers will only increase.
- 03 | Data Centers are often regarded as liabilities in the ecosystem. It is an opportune time to integrate sustainability in the power/cooling road map.

# How Will We Get There?



SUSTAINABILITY

## Alfa Laval sustainability priorities

- Carbon neutral value chain by 2030
- Continuously improved energy efficiency
- 100% water recirculation at water scarce site areas

## Facebook sustainability priorities

- Push efficiency first
- Impact outside the Data Center
- Eliminate waste



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# Facebook Sustainability & Circularity

## Opportunities in Data Center Power and Cooling



SUSTAINABILITY



### PUSH EFFICIENCY FIRST

PUE ~ 1.7

WUE ~ 0.3

Sustainable materials,  
packaging, logistics.

Optimize/Extend  
Equipment Lifecycle  
(varies 10 to 40 years)



### IMPACT OUTSIDE THE DATA CENTER

Identify opportunity to  
reuse Energy  
(eg. ODN heat recapture)

Supplier GHG  
Reductions

100% Renewable Energy



### ELIMINATE WASTE

Use Less Components

Design for Circularity

Explore Circular Business  
Models with Suppliers

Recycle/ Reuse in  
Power/Cooling

Continue Landfill  
Diversion target of 75%+

**Data Center  
Design**

**Responsible  
Supply Chain**

**Data Center  
Operations**

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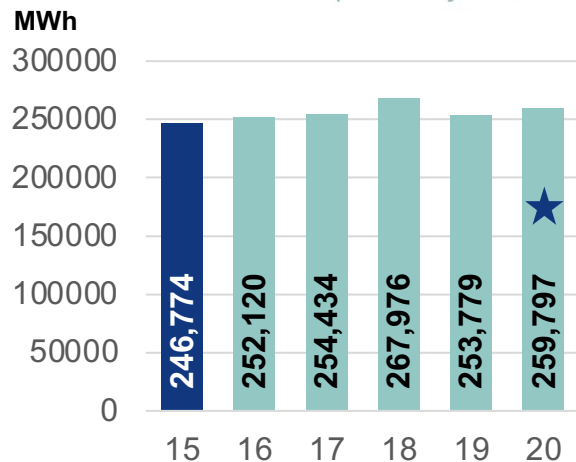
# Alfa Laval Contributing to Progress

## 2015 – 2020 Targets and Achievements

[Alfa Laval - Sustainability Reports](#)



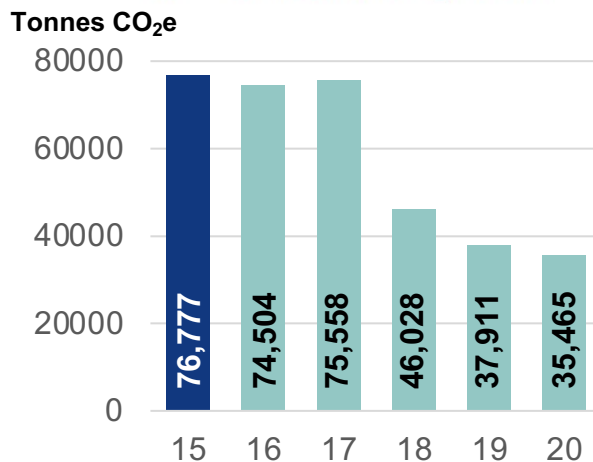
Reduce energy  
consumption by 10%



= New factory running in  
parallel with old factory



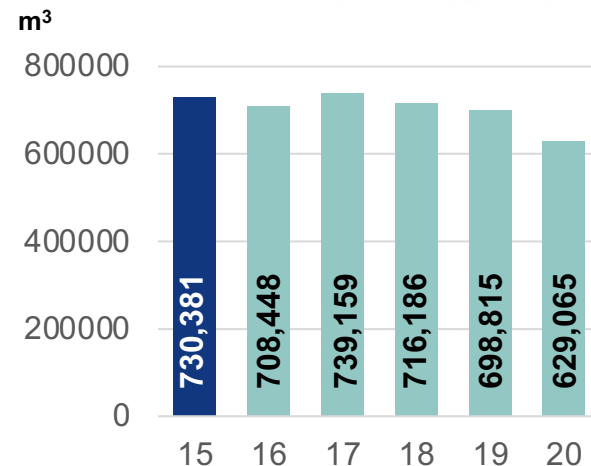
Reduce carbon  
emissions by 15%



54% Decrease



Reduce water  
consumption by 10%



14% Decrease

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# Call to Action

**The future of Data Centers is now!**

*You are formally invited to the 2022 panel discussions with industry experts being hosted by **OCP**.*

## Panel Discussion Topics

1

### Standards

The minimum standards amongst companies...what makes a Data Center sustainable?

2

### Coordination

The environmental and financial impact of improving sustainability in power and cooling system components.

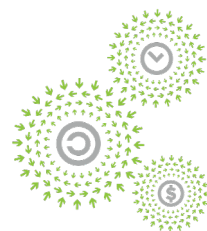
3

### Integration

Balancing the business goals with regional sustainability priorities/profiles.

**Must Insert OCP Landing Page to register**

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# Open Discussion.



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