

CASE STUDY

How Hull Vane® transformed fuel savings and CO₂ reduction of MS Valais

Introduction: Driving Efficiency for a Sustainable Future

Fuel efficiency and sustainability are critical challenges in the maritime industry. MS *Valais*, a 31-meter passenger ferry operating in Switzerland's picturesque Lake Geneva region, faced rising operating costs and increasing environmental pressures.

Six years ago, Hull Vane® was installed on MS *Valais* to address these challenges. The results? Remarkable fuel savings, reduced emissions and enhanced passenger comfort. In this case study, we explore how Hull Vane® helped MS *Valais* achieve:

- **€288,000 in fuel cost savings**
- **1,000 tons of CO₂ reduction** - equivalent to planting over 40,000 trees!
- **15% less fuel consumption**



The Challenge: Fuel Costs and Environmental Impact

MS *Valais* transports passengers across Lake Geneva, an environmentally sensitive area where minimizing emissions is a high priority. Rising fuel costs and the need for eco-friendly solutions presented an opportunity to innovate and improve the ferry's efficiency.

To achieve these goals, the shipowner sought a solution that could:

1. Reduce fuel consumption and operating costs.
2. Lower the vessel's environmental footprint.
3. Enhance the overall passenger experience with smoother and more stable sailing.

The Hull Vane® Solution

Hull Vane® is a patented hydrodynamic device installed at the aft of the ship, designed to reduce resistance by redirecting water flow. For MS *Valais*, Hull Vane® was customized to optimize performance for its specific operating conditions, including:

- **Low to medium-speed operations** ideal for ferry services.
- **Frequent trips across the lake**, maximizing efficiency gains over time.

Since its installation, Hull Vane® has consistently delivered improved performance, providing measurable economic and environmental benefits.

The Results: A Six-Year Success Story

The installation of Hull Vane® on MS *Valais* has led to impressive results:

- **Fuel savings:** A 15% reduction in fuel consumption, saving a total of €288,000 over six years.
- **CO₂ reduction:** The ferry has avoided emitting 1,000 tons of CO₂, equivalent to planting 40,000 trees.
- **Improved passenger experience:** Reduced wave formation has resulted in a smoother, more comfortable ride for passengers.

The cost savings alone made Hull Vane® a highly profitable investment, with the added benefit of aligning the ferry's operations with Switzerland's strict environmental standards.

Customer Testimonial

"The Hull Vane® gives a significant reduction both our fuel costs and our environmental impact. It's a long-term solution that benefits our business and the beautiful region we serve."

Irwin Gafner, Technical Director CGN SA Lac Léman

Future-Proofing the Fleet with Hull Vane®

The success of MS Valais demonstrates how Hull Vane® can revolutionize passenger ferries, combining cost-effectiveness with sustainability. With its proven track record of reducing fuel consumption and CO₂ emissions, Hull Vane® is an essential investment for shipowners aiming to stay competitive while protecting the planet.

Watch the video on this application:

<https://youtu.be/52217FqoW4Q?si=TRDU68ls5n37bnSz>

