



MILLFIELD TECHNOLOGY

Local power from flowing water

Millfield Flow Converter

Modular river and tidal energy infrastructure. Deployable in days, scalable everywhere water flows.

Local Stable Clean Predictable



Project 11733014
Millfield flow converter
Model 1 Condition 1
Run 69 73.7s
19-06-2019 12:37:16
1.056m/s

www.MillfieldFlowConverter.com

WHY NOW

Those who build resilience early gain strategic freedom.

“*The decisions we fail to make today will define the decades ahead.*”

HSH Prince Albert II of Monaco



-  Electrification is accelerating
-  Energy security is a strategic priority
-  Infrastructure is struggling to keep pace
-  Capital belongs where deployment can happen now

The energy is already flowing. Millfield turns it into predictable, nature-friendly local power - now, where it is needed most.

THE CHALLENGE

Yesterday's infrastructure was not built for tomorrow's electrification.



CO2-emitting production



Disruptive hydropower



Weather-dependent supply



Centralised, grid-dependent

The world needs predictable local energy infrastructure - now.

- ✓ Energy injection into constrained grids
- ✓ Stable delivery for industry, batteries and critical infrastructure
- ✓ Energy security and resilience through local generation
- ✓ Deployable without waiting for major grid expansion

THE RESOURCE

One of the world's largest renewable resources already flows where power is needed.



Predictable



Continuously renewed



Close to demand



Accessible from shore

Why wait for energy offshore when it already passes the places where it is needed?

THE TECHNOLOGY

A modular platform that turns flowing water into local power.



Works with the flow

Energy generated through continuous interaction with moving water - no damming, no river modification.



Deployed in days

Land-based infrastructure that goes in fast, instead of the years of civil works hydropower usually needs.



Modular and horizontal

Scale by adding units along the flow, not by building ever larger single installations.



Predictable output

Rivers and tidal currents follow known patterns, so production can be planned and relied upon.

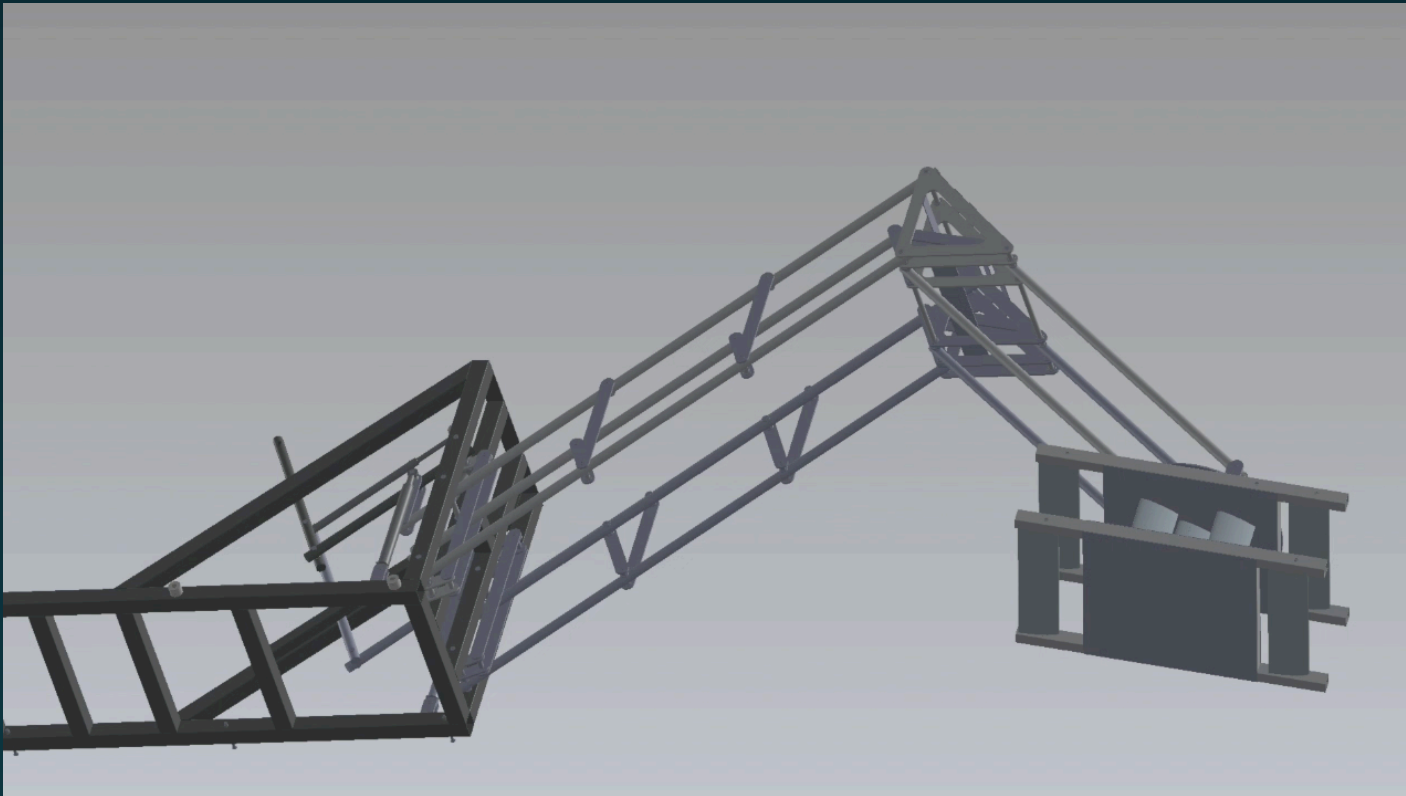


*Single modular unit shown.
Units add along the flow for capacity.*

Traditional hydropower scales vertically. **Millfield scales horizontally.**

SEE IT IN ACTION

Millfield Flow Converter in action.



 Millfield Flow Converter

[Click to watch how the system captures energy from flowing water.](#)

VALIDATION AND TRACTION

Independently validated across technology, environment and regulation.



Technology

DTU and Force Technology delivered engineering studies, simulations and prototype testing - plus two published MATLAB tools for energy absorption in flowing water.



Environment

The Danish Angling Association and Society for Nature Conservation found no expected barrier to fish migration or significant environmental impact.



Regulation

Norddjurs Municipality permitted testing in the Grenaa River, assessing no significant deterioration of water flow or environmental condition.



Industry

An EUDP pilot application united Energy Cluster Denmark, Crossbridge Energy, Everfuel, Associated Danish Ports and the Triangle Energy Alliance.



TRL 7 achieved.

Next milestone: full-scale pilot deployment, independent third-party verification and commercial readiness.

From validated technology to real-life operation

Pilote Project:
Hvide Sande Harbour



1. FULL-SCALE OPERATION

Demonstrate the complete MFC system in a real marine environment under varying flow and operating conditions.



2. PERFORMANCE

Measure energy capture, mechanical loads, efficiency, control behaviour and continuous operating performance.



3. RELIABILITY

Validate durability, hydraulics, generator, control systems, maintenance requirements and operational availability.



4. INDEPENDENT VALIDATION

Third-party verification of performance and documented results for customers, investors, authorities and future project financing.

Successful validation provides the evidence base for first commercial installations, certification and international market deployment.

NEAR-TERM OPPORTUNITY

Pilot site secured at Hvide Sande Harbour



Pilot project approved for deployment in Hvide Sande Harbour

WHY BECOME A PILOT PARTNER



First-mover positioning

Early access to locally generated renewable energy and a leading role in an emerging category.



A showcase site

Visibility with industry leaders, investors, authorities and media at a reference installation.



Preferential commercial terms

Priority access to future deployments, with flexible ownership, leasing and off take models.

Pilot projects create the reference installations that define future deployment.

NEXT 12 MONTHS — PLAN AND EXPECTATIONS

From prototype to commercial proof

Deploy and validate the first 100 kW MFC in Hvide Sande, start electricity production and use real-life performance data to accelerate deployment of the first 500 kW MFC.

1

Q4 2026

BUILD & PREPARE

Complete first MFC prototype

Secure IP and patent renewals

Finalise PTO, hydraulics, generator and controls

Prepare Hvide Sande installation

Define measurement and validation programme

MILESTONE

100 kW target MFC ready for deployment.

2

Q1 2027

DEPLOY

Install first MFC in Hvide Sande

Commission complete mechanical and electrical system

Measure water velocity, loads, kW and kWh

Optimise wing speed, pitch, PTO and generator load

MILESTONE

First MFC producing measurable electricity from real-life water flow.

3

Q2 2027

PROVE & OPTIMISE

Continuous operating tests

Performance mapping at different flow velocities

Reliability and service testing

Compare measured performance with calculations

Establish real production curve

MILESTONE

Documented Proof of Concept and operating data.

4

Q3 2027

VALIDATE & SCALE

Independent third-party validation

Document performance and availability

Establish service and installation procedures

Engineering basis for larger systems

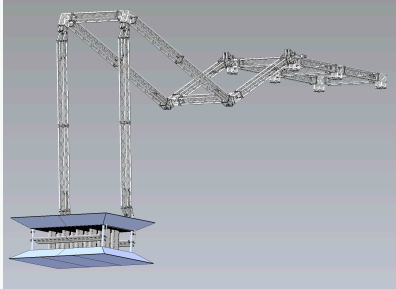
Prepare first commercial installations

MILESTONE

Independent validation supporting commercial scale-up.

LOCAL ENERGY.
REAL IMPACT.

Millfield Flow Converter



EXPECTED ENERGY PRODUCTION – 100 kW MFC (EXAMPLES)				
Average electrical output	Per hour	Per day (24 h)	Per month (30 days)	Per year (8,760 h)
25 kW	25 kWh	600 kWh	18 MWh	219 MWh
50 kW	50 kWh	1,200 kWh	36 MWh	438 MWh
75 kW	75 kWh	1,800 kWh	54 MWh	657 MWh
100 kW (target)	100 kWh	2,400 kWh	72 MWh	876 MWh

Actual production will depend on local water flow conditions, availability and operational optimisation. The Hvide Sande pilot will establish the real production curve and energy yield.

THE SCALING TARGET

100 kW PILOT

Real-life data + validation

↓

500 kW COMMERCIAL MFC

Up to 12 MWh/day
(theoretical at 500 kW)

Up to 4.38 GWh/year

KEY EXPECTATIONS AFTER 12 MONTHS

✓

First 100 kW MFC in operation in Hvide Sande

✓

Verified performance data from real-life conditions

✓

Independent third-party validation

✓

500 kW commercial MFC deployment underway

✓

Prepared for deployment of additional units (target: 4–6 MFC)

✓

Commercial dialogue with harbour and other potential customers

APPLICATIONS

Wherever flowing water meets electricity demand.



Ports

Maritime and shore power



Aquaculture

Pumping, cooling, oxygenation



Communities

Local, resilient supply



Data centres

Always-on baseload demand



Industry

Energy-intensive operations



Charging

EV and equipment charging



Hydrogen and Power-to-X

Green molecules from water



Microgrids and resilience

Backup and energy security

WHERE WE PLAY

Strong demand drivers, with a clear beachhead to enter.

WHAT IS DRIVING DEMAND



Electrification is accelerating

New electricity demand is outpacing the infrastructure that can be deployed to meet it.



Energy security is strategic

Local, resilient generation is now a board-level and national priority.



The cost of waiting is rising

Grid expansion takes years. Demand will not wait for it.

WHERE WE START - THE BEACHHEAD



Industry and manufacturing

High energy costs, clear value



Ports and maritime

Dense demand, need for resilience



Aquaculture and water treatment

Continuous, predictable load



Batteries, charging and microgrids

Local generation, fast payback

Beachhead today to local grids and Power-to-X to global rivers and tidal currents at scale

USE CASE

Constant minimum power for Aquaculture.



A Aquaculture needs guaranteed power for feeding.



100% security for 2 MW

The Aquaculture uses about 14 GWh a year, but needs a guaranteed 2 MW during feeding.



Saves around EUR 188 per MWh

Self-production at roughly EUR 12 per MWh against a grid price near EUR 200 - about EUR 2,6 Mio saved a year.



Surplus becomes income

Around 3,52 GWh of surplus can be sold to the grid or shared in a local neighbour microgrid.

Additional CO₂ certificate revenues may apply. (Potential: ~ EUR 1,5 Mio/Y)

Always-on local power. Solar and wind only deliver when it is sunny or windy - Millfield delivers on demand.

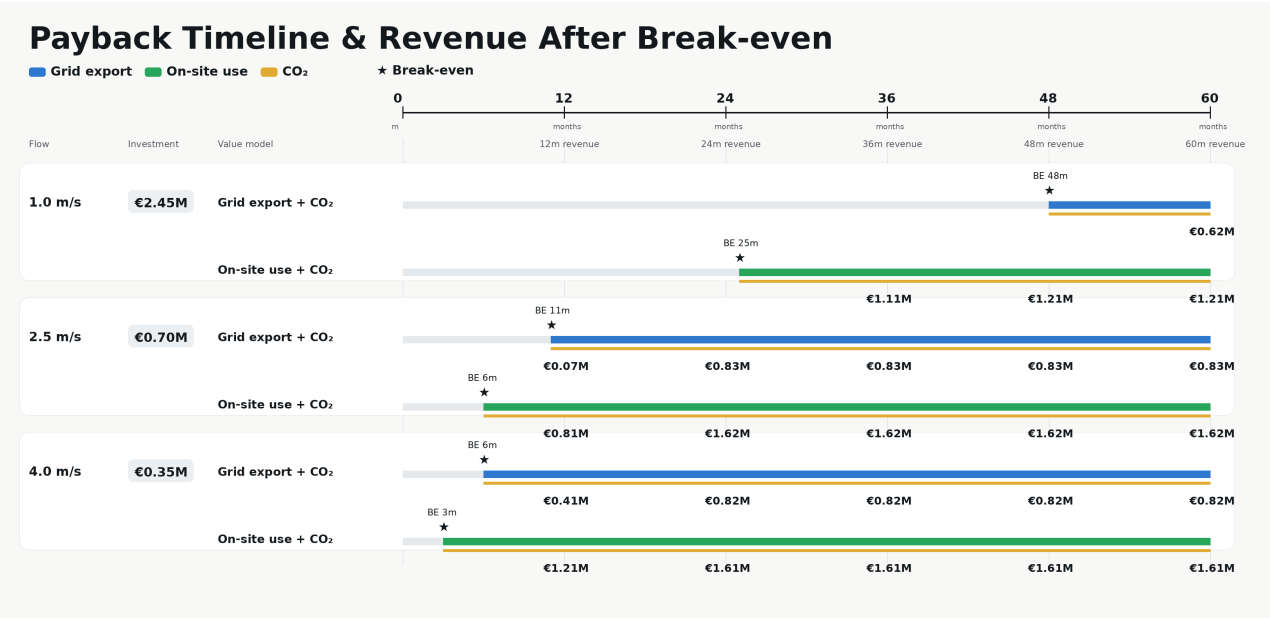
MARKET OPPORTUNITY

A vast energy market, replacing itself in real time.

78%

of today's energy sources must be replaced with sustainable solutions.

The global energy market runs into the trillions of euros. Demand for clean, deployable generation is growing fast - and capturing only a fraction supports a strong revenue trajectory.



ILLUSTRATIVE REVENUE RAMP - FIRST FIVE YEARS (EUR M)

Figures are illustrative management projections, shown to indicate scale and trajectory.

THE BUSINESS CASE

Compelling unit economics at 0.5 MW.



ANNUAL VALUE TO THE OWNER			
	Price per MWh	Potential CO ₂ certificate income	Total potential annual value
Grid Sale value	€70/MWh	EUR 285k	EUR 530k
Own consumption value	€200/MWh	EUR 285k	EUR 986k

Illustrative reference case at 0.5 MW (Germany), based on 80% operating availability. Figures exclude installation and service, and assume potential CO₂ certificate income. Selling balanced electricity may raise revenue further.

BUSINESS MODEL

Asset-light technology company. Partner-led deployment.

REVENUE STREAMS



Electricity sales

Power generated from Millfield-owned MFC units



System sales

Sale of Millfield Flow Converter units



Service agreements

Annual service and monitoring contracts



Energy partnerships

Production partnerships and SPV structures



Licensing and distribution

Distributor and licensing agreements

GO-TO-MARKET



Local distributors and strategic partners drive market entry



Local manufacturing and installation partners build and deploy



Millfield focuses on product, IP, certification and training



Scalable, partner-led international market expansion

Customers buy energy security. Millfield provides the infrastructure to produce it locally.

TEAM

Builders with deployment, manufacturing and infrastructure pedigree.



Michael Millfield Mølhede

Founder, Inventor and CEO

Inventor and patent holder. Architected the core hydrodynamics, deployment logic and modular infrastructure philosophy.



Kristoffer Nilas Tarp

Strategy, Governance and IR

Head of Investor Relations at Impact Fund Denmark. Brings positioning, stakeholder alignment and sustainable-infrastructure strategy.



Per Rieland

Electrical Systems and Controls

Electrical engineer focused on operational integration, control architecture and infrastructure reliability.



Kristoffer Lund

Industrial Deployment

COO at Globaq Solutions and former CEO of Billund Aquaculture. Deep industrial-scale deployment and execution experience.



Allan Erlandsen

Product and Manufacturing

Senior product and manufacturing leadership from KK Wind Solutions, Grundfos and Bang and Olufsen.



Henrik Norsk Hoffmann

Legal and Ownership Models

Strategic lawyer advising on scalable ownership structures, SPV models and long-term infrastructure frameworks.

THE OPPORTUNITY

Get in early on proven, scalable river-energy infrastructure.



Get in early

A first-mover platform entering its commercial phase, with founder-held IP and ground-floor terms.



Highly scalable

Modular and partner-led. Millfield owns product, IP and certification while partners manufacture and deploy.



Enormous market

Rivers and tidal currents are one of the largest renewable resources, flowing right where power is needed.



Real advantages

Predictable output, deployment in days not years, and land-based servicing instead of offshore complexity.

The ask: EUR 2.0M in two phases

EUR 0.5M proves the technology
EUR 1.5M scales the business.

THE INVESTMENT

EUR 2.0M, structured in two phases.

Phase 1 - EUR 0.5M

Phase 2 - EUR 1.5M



EUR 0.5M 12 Months

PHASE 1 - COMMERCIAL READINESS & FIRST REVENUES

- Patent maintenance and IP protection
- Manufacturing of MVP reference installation
- Pilot project installation and real-life validation
- Performance verification and documentation
- Sale of MVP reference installation or electricity produced
- Manufacture and test first 0.5 MW MFC
- Sale of first 0.5 MW MFC or electricity produced
- Hiring of CCO and launch of commercial activities



EUR 1.5M

PHASE 2 - COMMERCIAL MARKET ENTRY

- International IP and market protection
- Expansion of the core team
- Production readiness and first deployments
- Distributor network and strategic partners
- Sales, Leasing, and SPV structures
- Business development & New Products

The first EUR 0.5M delivers a commercial reference installation, first revenues and market readiness.

The next EUR 1.5M scales deployment, sales and international expansion.

Funding the Next Phase

From protected IP to real-life validation and commercial deployment



BECOME A FOUNDING PILOT PARTNER

Build something that matters. Take a leading position.

That matters.

Millfield is building a new way to deliver predictable renewable electricity — providing security of supply, predictable energy costs and the confidence to plan for the future.

**YOU BRING WHAT YOU DO BEST.
TOGETHER, WE BUILD WHAT COMES NEXT.**

MATERIALS

Structures · aluminium · components · equipment

ENGINEERING

Design · calculations · certification · specialist hours

MANUFACTURING

Fabrication · machining · assembly · installation

PEOPLE & FACILITIES

Technical staff · workshop · office · testing · storage

PROJECT FUNDING

Pilot deployment · testing · independent validation

COMMUNICATION

Joint content · live data · customer visits · events · media

WHY JOIN AT THE BEGINNING

01

BE PART OF THE FIRST

Help create the reference — and have a documented role in the story from day one.

02

SHOW YOUR IMPACT — LIVE ON SCREEN

Use live operation, energy data and joint communication to show what your contribution is making possible.

03

GROW WITH WHAT FOLLOWS

Gain know-how, visibility and a natural position in future supply, deployment and investment dialogue.

BE REMEMBERED AS PART OF THE FIRST.

The first reference will have a story. Be part of it.

~~MILLFIELD-REINVENTED HYDROPOWER~~
WE REINVENTED HYDROPOWER



The gold is already flowing.

Let's talk business.

Seeking:

- Strategic pilot partners
- Distribution partners
- EUR 0.5M Phase 1 investors



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Michael Millfield Mølhedé
Founder, Inventor and CEO