



# Green Energy and Health Zones for Sustainable Hospitals

Reporter

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## Project Overview



# Core Mission and Goals

## Promoting Natural Energy and Health

The project integrates wind and solar turbines with health zones in hospitals to reduce energy costs, generate green power, and introduce natural products. Targets Horizon Europe 2025-2050 for soil, water, and living labs.

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## Hospital Integration Benefits

Enables indebted hospitals to join, providing energy independence, natural herb promotion, and certified research products. Enhances patient care via franchise health zones.

## Key Themes

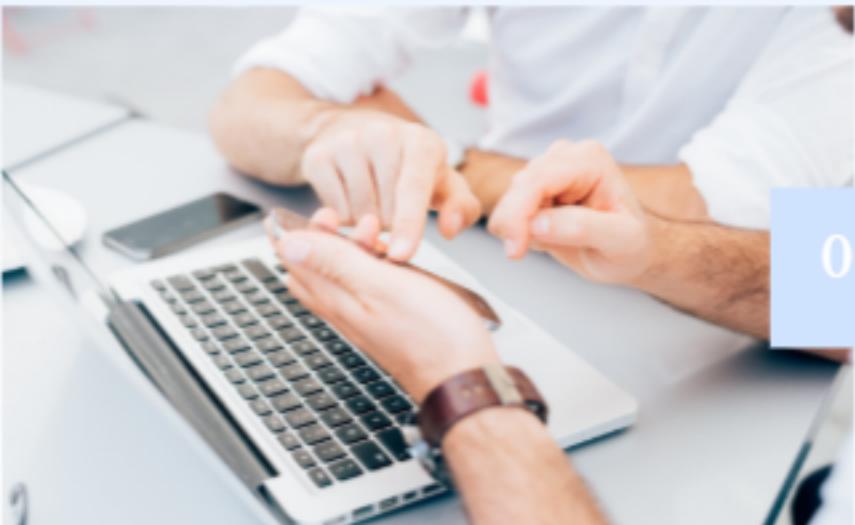
Focuses on small natural energy herbs, floating platforms for oxygenation, and closed-loop tech for disasters or warming events.

02

## Wind Turbine Technology



# Vivien-Pro Turbine Specifications



## Power Output and Applications

Vivien-Pro 3.5-5.0 kWh wind turbine powers homes, farms, hydraulic pumps, WiMax receivers, and relays. Nominal operation: 2,500 hours/year at 30% capacity, yielding 8.75 MWh annually.

## Energy for Daily Needs

Supports one house (7.3 MWh/year average) with home battery storage. No grid connection required, ideal for off-grid use.



# Efficiency Enhancements



## BIOMAX FMS Advantages

BIOMAX FMS Sp. z o.o. enables reliable power for critical loads, reducing reliance on fossil fuels.



## Solar Panel Synergy

Best efficiency combines turbines with solar panels, boosting output, cutting carbon footprint, and storing energy in basements instead of generators.



# 03

## Research Team Competences



# Systems Research Institute Expertise



## Local Energy Grids

Polish Academy of Sciences team optimizes local grids for buildings/estates with prosumers. Covers illumination, electric energy, health care; includes models for design and control.

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## Multicriteria Optimization

High competence in balancing cost, safety, reliability, and well-being across health care, logistics, and more.

02

# Advanced Technologies



01

## Business Process Modeling

Specialized in health care, especially hospitals, for efficient operations.

02

## IoT Implementations

Versatile experience in IoT systems using semantic technologies for practical deployments.



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## Health Zone Concept



# Strefa Zdrowia Design

## Patient Comfort Improvements

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Divided by common ailments; offers waiting area enhancements, prevention education, self-care knowledge, better work atmosphere, consultant access.

## Targeted Activities

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Mineralized water for conditions, interactive games/exercises, mini rehab (back/foot massage, chairs), books, heart-healthy herbs.

# Target Groups

## Primary Audiences

School children/parents, elderly, uniformed services, professionals (e.g., miners), active/sports groups.

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## Specialized Offerings

Consultations on movement/diet, natural products, personalized diets, mineral waters, promotional items.

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## Franchise Model



# Support for Franchisees



## Branding and Equipment

Provides uniforms, IDs, signage, software, marketing materials (flyers, cards), full health zone setup: tables, thematic walls, interactive boards.



## Ongoing Assistance

Location selection, recruitment, pricing /marketing policy, graphic designs, promotions (quarterly/seasonal), website/Facebook/SMS updates, warranty service.

# Project Vitality Initiative

## Natural Product Promotion

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"Maintain Vitality of Mind and Body": Introduces country-specific herbs to Soil project, doctor awareness for minor ailments, franchise-tested products.

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## Product Portfolio



# Sales Categories by Health Focus

## Heart and Digestion

Heart: Sunflower seeds, pineapple; Digestion: Linden, tomato, pumpkin, kiwi.

## Stress and Skin

Stress: Chamomile, carrot, 90% cocoa, walnuts, apple; Skin: Ginseng, celery/beet drinks, pecans, plum.

## Beverage and Snack Offerings

Mineral waters, teas/herbs, juices, vegetable/fruit drinks, dark chocolate (70-90% cocoa), nuts/seeds, dried fruits.

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## Investment and Implementation



# Phase 1: Preparation

## Surface Readiness

Franchise prep for mounting: 0 PLN/m<sup>2</sup>.  
Use existing spaces; technical  
requirements customized.



## Phase 2: Construction

Building project/audit for roof size:  
Includes 10cm floor, ramps, 16cm  
walls, cabling/lighting, certified foil.  
Monitors stands provided.

# Cost Breakdown (85m<sup>2</sup>)

## Core Elements

Floor print, wall prints/furniture, desks/chairs/shelves: Estimated totals in PLN (details per option 1/2).



## Equipment

Info-kiosks (6), massage chairs/foot massagers, water/chocolate dispensers, juicers, kettles, books/programs.

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## Opportunities and Contact



# Horizon Europe Alignment



Link: <https://www.b2match.com/e/eu-missions-brokerage-harmonmissions/my/opportunities>. Competences match missions in energy, health, grids.

## Get Involved



Contact: +48 739 007 009, kp@vivien.com.pl. Explore franchise for sustainable health-energy integration.

A close-up of a laptop keyboard in the lower-left corner, with a blurred city skyline featuring a prominent dome and several skyscrapers in the background, suggesting a professional or news-related setting.

**Thank you for  
listening.**

Reporter