

# 104.13.3 – EFU HOSPITAL METABOLISM AUDIT v1.0

COMPLETE LICENSE – ENGLISH VERSION [conversation context]

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104.13.3 – EFU Hospital Metabolism Audit v1.0  
ENERGETIC FLOW UNIT – HEALTHCARE INSTITUTIONAL STANDARD

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PARENT LICENSE: 104.13 – EFU Healthcare Homeostasis License v1.0

- └─ 104.13.1 – Principles (philosophy, HMI definition)
- └─ 104.13.2 – Individual metabolism (personal health)
- └─ 104.13.3 – HOSPITAL METABOLISM (institutional health) □

FUTURE EXPANSION:

- 104.13.4 – Pharmacy metabolism (planned)
- 104.13.5 – Nursing home metabolism (planned)
- 104.13.6 – Emergency services metabolism (planned)

STATUS: □ PUBLICATION-READY

VERSION: 1.0 (February 2, 2026)

PILOT: Franziskus Spital Landstraße, Vienna (paper audit)

## §1 PHILOSOPHY: HEALING SHALL NOT BE DEPENDENCY ON DEPENDENCY

### The Modern Hospital Paradox

Hospitals heal people, yet operate as sick systems.

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Hospital = Metabolic Node

Problem: 80% energy wasted on:

- Obsolete equipment
- Single-use plastics
- Pharmaceutical flux
- 24/7 standby systems

Solution: EFU-based healthcare sovereignty

→ Metabolic audit + spiritual healing

### Core Principle:

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Healing = Restoration of Order (Negentropy)

Disease = Disorder (Entropy)

If healing SYSTEM generates entropy (waste, dependency):

System Entropy > Individual Negentropy

→ NET: MORE societal disease

**Conclusion:** True healing hospitals must achieve metabolic equilibrium with their environment.

## §2 HOSPITAL METABOLISM AUDIT MATRIX

**BASELINE: Average Mid-European Hospital (200-500 beds)**

Category	R-EFU/bed/day	S-factor	Notes
BUILDING	125 EFU	1.8	Concrete, HVAC, sterilization
EQUIPMENT	89 EFU/hour	2.3	MRI, CT, monitors
PLASTICS	210 EFU/bed	3.1	Syringes, catheters
PHARMACEUTICALS	450 EFU/dose	4.2	Patents, shipping
FOOD SERVICE	67 EFU/person	1.9	Industrial kitchen
ELECTRICITY	34 EFU/kWh	1.4	24/7 lighting, standby
TOTAL	975 EFU/day	2.1	0.47 kWh/EFU

**COMPARISON:**

Steam locomotive (1900): 303 kWh/EFU  
Modern hospital (2026): 0.47 kWh/EFU  
→ **Hospital 642× LESS EFFICIENT** than 19th-century tech.

## §3 CRITICAL FLUX POINTS

### 3.1 Single-Use Plastics

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1 surgery = 7 kg sterile plastic  
Annual waste = 1,200 tonnes/hospital  
EFU cost = 210 EFU/bed/day

**LICENSE REQUIREMENT (104.13.3.1):  
PLASTIC SUBSTITUTION PROTOCOL**

- ✓ Stainless steel syringes (reusable, 100× cycles)
  - ✓ Silicone catheters (autoclavable, 10× cycles)
  - ✓ Paper-based sterile packaging
- Target:** Plastic <20% total waste  
**Penalty:** S-factor +2.0

### 3.2 Equipment Obsolescence

MRI "obsolete" after 8 years → 780k EFU/year/device  
**104.52 ETERNAL LIFE COMPATIBILITY:**

- Design life: ≥25 years
  - Modular (95% parts replaceable)
  - Open diagnostic interfaces
- Badge:** "EFU-ETERNAL-HEALTH"

### 3.3 Pharmaceutical Flux

1 patent = 5 generics available → 450M EFU/year

**HMI:**  $HMI = \frac{E_{\text{research}}}{E_{\text{total}} - E_{\text{logistics}}}$

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Current:  $HMI = 0.35$  (65% marketing/profit)

**Target:**  $HMI > 0.65$  → Generic preference

## §4 EFU HOSPITAL CERTIFICATION SYSTEM

**TIER 1: EFU-HEALTH SOVEREIGN** □

R-EFU <300/bed/day | 80%+ generics | Zero single-use plastics

**TIER 2: EFU-HEALTH EQUILIBRIUM** □

300-500 R-EFU | 50%+ generics | Repair culture

**TIER 3: EFU-HEALTH DEPENDENT** □

500 R-EFU | Patent dominance | Linear waste

## §5 PILOT PROGRAM – 90-DAY SPRINT

Intervention	R-EFU Δ	Cost	Timeline
LED + motion sensors	-12%	€50k	30 days
Steel syringe pilot	-22%	€25k	60 days
Generic pharma policy	-18%	€0	90 days
Repair Café (med tech)	-9%	€10k	90 days
<b>TOTAL</b>	<b>-61%</b>	<b>€85k</b>	<b>90 days</b>

**RESULT:** 975 → 380 EFU/bed/day → □ **SOVEREIGN**

## §6 SPIRITUAL DIMENSION – SFI INDEX

**Spiritual Freedom Index:**

$SFI = \frac{\text{Doctor time with patient}}{\text{Administrative time}}$

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Current: 0.33 (1h patient → 2h paperwork)

**Target:**  $SFI > 0.8$

**Strategy:** Open-source AI admin assistant + verbal patient diary → +35% connection quality

## §7 PILOT: FRANZISKUS SPITAL LANDSTRASSE, VIENNA

**Profile:** 110 beds, 280 staff, Franciscan foundation

**Current R-EFU:** 788/bed/day → □ **EQUILIBRIUM**

**90-day plan:** 788 → 480 (-39%) → □ **SOVEREIGN**

## §8 CROSS-REFERENCE INTEGRATION

104.13.3 → 104.52 (eternal equipment), 104.57 (village energy), 104.65 (patent bypass)

## §9 IMPLEMENTATION GUIDE

**Administrators:** 5-step audit (2-week baseline)

**Physicians:** Prescription audit, personal SFI

**Policymakers:** Tax breaks, transparency mandates

**Version:** 1.0 (February 2, 2026)

**Next:** German summary for Franziskus, Excel calculator, Q2 2026 pilot launch. [conversation context]