

Industrial Waste Heat Recovery & BlinkDrive Thermal Energy System

Concept by Mervyn Jagels, Developed with AI Assistance

Sections

1. Executive Summary

- Explain dual-purpose tech: Space propulsion & Earth-based energy recovery.
- Highlight steel factories' waste heat utilization.

2. System Overview

- **Flow:** Steel Plant → Heat Capture (Tungsten/Granite Core) → Stirling Engines → Grid.
- Show same design principles adapted from interstellar system.

Engineering Layout (Text Diagram)

```
[ Steel Plant Flare Stack ]
      ↓
[ Heat Capture Chamber ] -- [ Tungsten Rod Array ]
      ↓
[ Granite Block + Copper Mesh ]
      ↓
[ Copper Transfer Wheel ] -- [ Stirling Generators ]
      ↓
[ Power Grid ]
```

3.

4. Energy Recovery Math

- Typical flare stack emits **600–800°C gases** → estimate MJ/s.
- Show how **100 rods** and **17 Stirling engines** produce continuous MW output.

Include full step-by-step calculation:

$$Q = m \times c \times \Delta T$$

Convert thermal energy → electrical (30% efficiency)

Calculate MW per factory

Scale for 100 factories → National Grid contribution

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5. Economic & Environmental Impact

- Steel factory waste energy recovery → **Power for 10,000 homes per plant.**
- CO₂ emission reduction: quantify avoided fossil fuel burn.

6. Licensing

- **Creative Commons Zero (CC0)** → Open tech for global benefit.
- State: **"Original Concept by Mervyn Jagels, developed with AI assistance."**

7. Call to Action

- Invite **universities, corporations, and governments** to collaborate.