



# "Monetize your Waste Heat."

- *We need it to fuel our Thermal Batteries*
- *To produce less than prevailing rate electricity*
- *To offset carbon and protect waterways*

**We utilize your capturable waste heat through guaranteed cheaper electricity, green-tech credits & incentives, and standby emergency power. All of this is fueled by the heat you pay to mitigate.**

**Reduce those process costs as well.**

TESS Energy Solutions

Novacab

Thermal Banc Engineering Partner



## PLAN A

### Sell your Waste Heat

- *Provide much-needed fuel our Thermal Batteries to create clean energy*
- *Eliminate or greatly reduce your waste heat mitigation costs*
- *Enjoy a discounted and fixed cost for your electricity*

“PLAN A” is designed to avoid a CapEx cost for the battery, using a Power Purchase Agreement. All you pay for is the audit to determine how many BTU's are available to convert to green energy. This small one-time fee will be applied to your account and go towards your first green electricity purchase.



## PLAN B

### Purchase the Battery and enjoy FREE electricity!

- *Enjoy 100% of the Financial Benefit*
- *See an Average of 1 to 3 year ROI*
- *Carbon Credits, Incentives, and more!*

These Thermal Batteries bring in decades of return after the ROI. “Plan B” may be selected to own 100% of the benefits of FREE green energy. You receive every penny of the tax incentives and credits, and depreciation allowances as well as ALL of the electricity your waste heat produces. A nominal audit fee goes toward the purchase price of the battery.



**TESS Energy Solutions**

**Novacab**

**Thermal Banc**



# Monetize your Waste Heat - Its FREE to do!

Thanks to the Novacab Battery, Waste Heat, Cast-Off Heat, and Rejected Heat are now Valuable Fuel Sources. Take the CapEx with a typical 1-3 ROI or lease a Novacab Battery to enjoy reduced or zero waste heat mitigation costs and FREE or discounted energy costs!



## 01 Waste Heat Utilization

Thermal Banc partners capture waste heat to generate affordable electricity, reduce carbon, and participate in the circular economy.



## 02 Discounted Electricity

Use your Waste Heat to power the Novacab Batteries and offer the electricity produced at prices well below your prevailing rates for decades to come.



## 03 Thermal-Battery Technology

Your Thermal Banc Battery efficiently converts captured heat to electricity. The 1MW units we manufacture are the size of a shipping container.

They can produce 4-16+/- MWh of power daily. Can be cycled twice or run continuously based on needs and capacity.



## 04 Environmental Benefits

Utilizing Waste Heat reduces carbon and promotes sustainability. Incentives and credits are yours. These audited valuations, credits, and incentives go on \*ThermX (a secure blockchain) where these new thermal assets can be bought, sold, and traded.

\*ThermX Blockchain expected to be released in Q-2 2025



## 05 Partnership Opportunities

Join us in monetizing Waste Heat while benefiting from a guaranteed lower rate on electricity produced, financial incentives, and carbon credits.

All of this is made possible at minimal upfront cost to you through the new thermal fuel value of your capturable Waste Heat.



# Circle of Opportunity in Waste Heat Capture

03

## COST EFFICIENCY

Electricity supplied to you is always at rates lower than market prices. You will lock in those discounted prices for the 20- to 40-year life of the battery. Or we will sell it to the grid and share in the profit.

01

## WASTE HEAT ACQUISITION

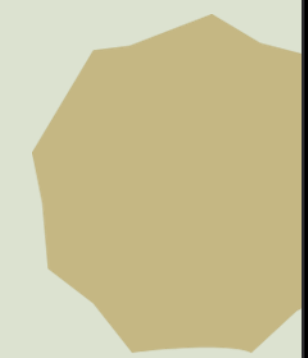
Sell your Waste Heat from boilers, chillers, cooling towers, and more. We capture it in our Novacab Batteries and convert it to electricity, making it available to you. Save money mitigating waste heat and enjoy discounted electric rates or FREE clean energy if you purchase the battery outright.

02

## ELECTRICITY GENERATION

Our 1-MW Novacab Battery converts Waste Heat into affordable electricity. Each battery can produce 4 to 16+/- MWhs of power daily.

Unlock Thermal Fuel with TESS Energy Solutions, the Novacab Thermal Battery, and Thermal Banc  
"The Partners"



## Here are the Simple Steps

"Please, sell us your waste heat so we can store it, redirect it for reuse, or convert it to electricity..."

### 3 STEPS

Complete a survey to determine your Waste Heat value and potential.

*Fill out a Preliminary Thermal Assessment to determine what audit (physical or virtual) is best for your organization.*

01

Get a detailed assessment, highlighting the value of your waste heat, including potential carbon credits, financing options, and incentives.

*Receive the report*

02

Select either a "Physical Audit" with one of our engineers helping find every available BTU or a "Virtual Audit" for small facilities.

*Choose an audit that suits you.*

03

**Step One: Select the AUDIT best for your organization and let the person who sent you this deck know today.**

TESS Energy Solutions

Novacab

Thermal Banc



# Case Study: Cooling Tower Transformation

Unlocking Industrial Savings with TESS Energy Solutions, Novacab, and Thermal Banc

## Significant Cost and Environmental Impact Reduction

We can reduce cooling tower operational costs by over 75%, creating substantial savings. Piping going to the cooling tower is routed to the battery. A large part of the heat is captured and converted to electricity.

## Utilization of Waste Heat

Cooling towers represent capturable waste heat that can be repurposed or converted to electricity. However, there are many additional capturable heat streams within most operations.

## Electricity Generation Opportunity

We purchase your waste heat by providing discounted electricity rates over decades, providing a cost-effective energy solution before incentives.

We may even deploy the **\*TESS ES Parabolic System\*** to supply solar thermal fuel to the Novacab Battery.

*\*The Novacab Battery can also be charged by parabolic solar collectors.*



# Manager's Perspective on Savings

Unlocking Thermal Assets with TESS Energy Solutions, Novacab, and Thermal Banc



## Waste Heat Utilization

Sell us your waste heat, a valuable new resource for energy production. The same heat you pay money to dispose of is now an important new fuel source.



## Significant Cost Reduction

Reduce heat processing costs significantly, maximize operational efficiency, reduce cost for produced electricity, earn carbon credits, earn incentives, audit valuations, and blockchain protected assets.



## Cooling Towers as Emergency Systems

Cooling towers remain operational but with reduced costs in proportion to the number of Novacab Batteries that can be utilized. Saving over 75% on Cooling Tower operational costs is not unexpected.



## Operational Efficiency

By utilizing waste heat, operational expenses for handling it can be greatly reduced. Utilizing the waste heat furthers your company's circular economy.



## Environmental Benefits

Contribute to sustainability by reducing waste heat emissions, offsetting carbon, and protecting return-water sources.

TESS Energy Solutions

Novacab

Thermal Banc

# Understanding Novacab Battery Performance

Unlocking Thermal Assets with TESS Energy Solutions, Novacab, and Thermal Banc

## 1-MW Thermal Battery

### Significant Capacity

Each Novacab Battery has a capacity of 1 MW, requires little to no maintenance and sees only a 15% degradation over its lifetime.

4-6 MWh (single)  
8-12 MWh (double)

### Daily Energy Production

Can produce between 4-6 MWh in a single cycle and 8-12 MWh in a double cycle, or 16+/- MWh when run continuously, optimizing energy output.

40 years (single)  
20 years (double)

### Lifespan

The battery's lifespan is 40-years for a single cycle, ensuring long-term reliability and performance.

75,000+ MWh

### Lifetime Energy Production

The Novacab Battery can produce more than 75,000 MWhs of energy, maximizing efficiency and your circular economy.

63.75 million  
pounds of CO<sub>2</sub>

### Carbon Offset

Each battery offsets approximately 63.75 million pounds (29,000+ tons) of CO<sub>2</sub>, contributing to environmental sustainability.



# Environmental Impact

Reducing CO2 Emissions and Protecting Ecosystems  
with the Novacab Battery



## CARBON OFFSET ACHIEVED

Each Novacab Battery can offset 63.75 million pounds of CO2 emissions in its lifetime.

## SCALE IMPACT

Scaling to 1 million batteries can lead to a staggering offset of 64 trillion pounds of CO2.

## MAJOR ENVIRONMENTAL BENEFITS

Utilizing waste heat leads to reduced greenhouse gases and improved water quality.

## ECOSYSTEM PROTECTION

The technology helps protect aquatic ecosystems by minimizing thermal pollution.

# Innovative Business Model and Partnerships

Monetizing Waste Heat through Strategic Collaborations

That's how we offer such advanced green technology, sustainability, and cheaper electricity at minimal up-front expense to you.

01

## Thermal Banc

Sell Waste Heat to Thermal Banc, leveraging advanced technologies and blockchain registry to record audited thermal source valuations.

02

## ThermX Blockchain Integration

Audited thermal valuations and credits are assets that can be bought, sold, or traded on the \*ThermX Thermal Exchange.

\*Q-2 2025

03

## TESS Energy Solutions Operational Management

TESS oversees engineering, legal, and accounting tasks. They serve as a lead manufacturer and distributor of the Novacab Battery.

04

## The Novacab Battery

At the center of this business model is the Novacab Thermal Battery, whose technology helps drive L'Oréal, an IBM server center, the Montreal Stock Exchange, and YOUR BUSINESS next!

05

## Want to sell your waste heat?

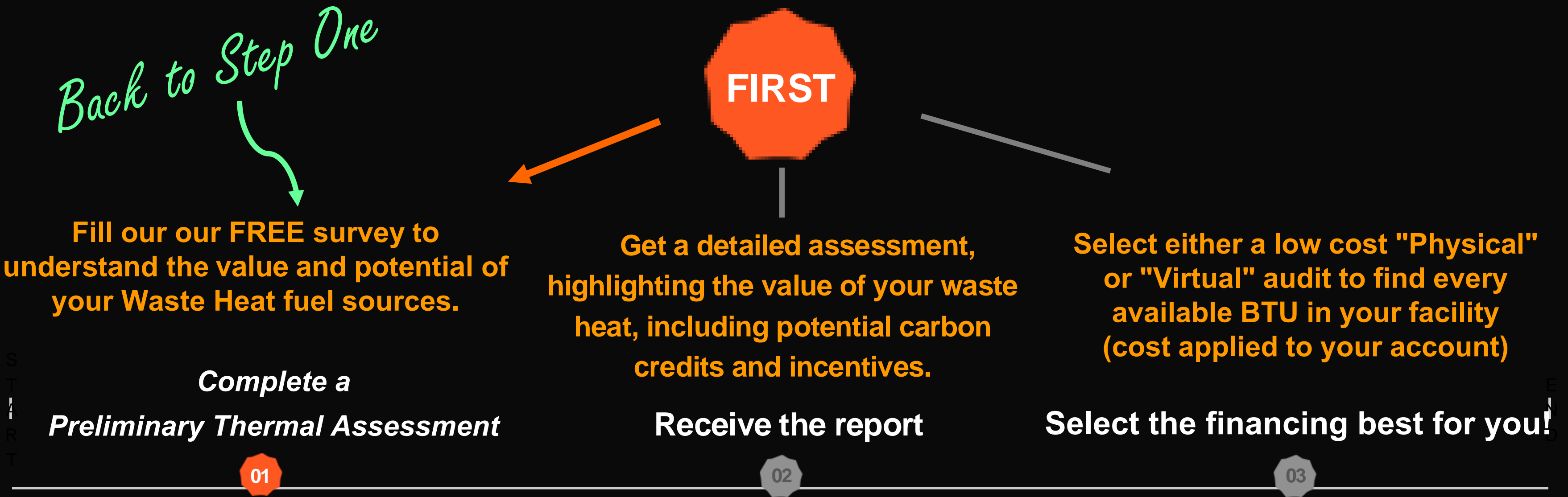
That's the way we can offer you such advanced, important, and significant green technology, sustainability, and cheaper electricity. FREE if you buy the battery outright!





# Here are the Simple Steps

"We want to buy your waste heat, store it, redirect it for reuse, or convert it to electricity...  
...through Effective Waste Heat Capture and Conversion."



**Step One: Select the audit best for your organization and let the person who sent you this deck know today.**