



ELHYTE



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OUR VISION :

Act today for a better tomorrow.

In the face of the **climate emergency** and the need to **reduce emissions**, it is essential to act **quickly** and **effectively**.

ELHYTE, an expert in energy transition, specializes in the decarbonization of construction machinery through two complementary solutions :

- **Retrofit** to convert used thermal machinery into fully electric equipment
- Manufacturing of **new electric machines**

ELECTRIC RETROFIT

RETROFIT OF A HITACHI ZX225 EXCAVATOR INTO A FULLY ELECTRIC ELHYTE ELH225.

BEFORE

AFTER



NEW MACHINES

In addition to our retrofit activities, we market **new ELHYTE machines**, specifically designed for electric power, to offer products that are both **innovative** and **high-performing**.

Thanks to our position as a **manufacturer** and the **longevity** of some of our key components, such as **motors** and especially **batteries**, it is now possible to **reuse** these components across **multiple machine life cycles**. This significantly reduces the **carbon footprint** of our machines and, more importantly, their **acquisition costs**.

This disruptive approach is part of a **circular economy framework**, combining **sustainability, innovation, and performance**, while maintaining **profitability** and supporting the **French industry**.



MINI EXCAVATOR 2.5T ELH25.1

ELHYTE BATTERIES

To address the **limited autonomy** of electric machines and the challenges of **recharging** on construction sites, which require access to the electrical grid or the installation of additional infrastructure, we have designed and patented **interchangeable battery systems**.

These innovative solutions redefine the use of electric machinery on construction sites, combining **sustainability, performance, ease of use, and profitability**.



MOBILITY PACK



THE BENEFITS



UNLIMITED AUTONOMY

With **two batteries**, work **continuously** : one charges while the other is in use.



RECHARGEABLE ANYWHERE

Easily transportable, they can be recharged anywhere.



SIMPLIFICATION OF USE

Compatible with both **retrofitted** and **new machines**, only one battery is needed.



PRODUCTIVITY

Continuous operation with **quick battery swaps**, without interruption for recharging.



SUSTAINABILITY & PROFITABILITY

The batteries are **reusable** for **multiple machine lifespans** (2 to 3).

CHOOSING ELECTRIFICATION



ENVIRONMENT

- **0 emissions** during use
- **0 emissions** from manufacturing a new machine through retrofit
- **Positive carbon footprint** of batteries (reuse)



PRODUCTIVITY

- **Extended working hours** in urban areas (low noise levels)
- **Less frequent maintenance** = reduced downtime
- **Improved performance** : electric motor efficiency > 90%



PROFITABILITY

- **Reduced energy costs** (1/3)
- **Lower maintenance costs**
- **Postponement** of new machine replacements
- **Reuse** of electrification kits
- Access to **new markets** and **ecological benefits**
- Eligibility for **ecological grants, subsidies, and funding**



COMFORT

- **Reduced noise and vibration**
- **No smoke or fuel odors**
- **Optimized driving and instant torque**



RELIABILITY

- **Less vibration and heat dissipation** on components
- **Durability** of electrical components (electric motor ≈ 20,000 hours)