

# ***Upgrading the Chilean Tire Retreading Industry***

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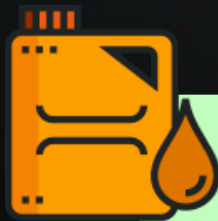
Results

# General Background

## E.R.P law framework for Waste Management, Extended Responsibility of the Producer and Promotion of Recycling – E.R.P Law

Type of recovery, through the establishment of extended producer responsibility and other waste management instruments, in order to protect the health of people and the environment.

### Priority Products:



Oils and Lubricants.



Electronic and Electrical devices



Batteries



Packaging



Tires



Batteries

# Projects developed with A.R.N.E.C.

## Clean Production Agreement



This is a voluntary commitment between the state and private companies. In the case of A.R.N.E.C, the commitment seeks to standardize the retreading process and promoted the reatreaded tire.

## Technological Diffusion Program



This program seeks to position the retread tire as a sustainable alternative for the transport industry. Delivering new knowledge, technologies and innovation practices companies that participate in this program.



# BENEFITS

Promote the standardization of the retreading industry in Chile through compliance with the voluntary **Norm of retreading NCh3374**.

**Increase competitiveness** in the retreading sector.

The possibility of obtaining the **Blue Stamp** of the clean production agreement, which represents quality and productive efficiency..

**Capacity Building for Associates** in clean production, sustainability and carbon footprint.

**Obtaining productive and economic data** from the retreading sector in Chile in order to generate global data.

The beneficiary companies will have at their disposal the knowledge of the existing technology to facilitate the standardization of the industry.

Introduce the retreading process to the different actors of the industry in order to break down certain myths about the **quality of the product and position it as a sustainable alternative**.

# SUSTREND-ARNEC

With the support of



Standardization of equipment and procedures (INN Norm)

Technological Diffusion.

Quality Management and Traceability in the retreading process



Management of greenhouse gas emissions

Diffusion of the retreading process

Decrease waste generation in the retreading process

# RESULTS

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Updating in the **Internal Traceability Systems** (Basis to implement ISO 9001).

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Implementation of Process Protocols based on **NCh 3374**.

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**Diffusion of existing technology** to increase the efficiency of the retreading process.

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**Retread Blue Stamp** Evaluation that indicates compliance with **NCh 3374**.

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**Capacity Building in Innovation and Clean Production.**

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**NAMAs** (Nationally Appropriate Mitigation Actions)

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Generation of Economic, Environmental and Social Indicators.

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**Tire as one of the first priority products** to be considered in implementing the E.R.P Law.

# Technology Diffusion Program

## Workshop on Alternatives in Technology Transfer



### ◆ New technologies

implemented in stages of building fullfilling and extruder.

- Benefits:

- **Costs and waste reduction.**
- **Increase in Job security**



# First International Congress of the Tire and Retreading in Chile 2017





# Inclusion In NAMAS ( Nationally Appropriate Mitigation Actions)

- The **Bases of the methodology** were developed by Sustrend.
- NAMAs aims to evaluate the impacts of the Clean Production Agreement on the retreading industry in Chile.
- The Development of the methodology resulted in the **first Clean Production Agreement that declares the effect on the reduction of greenhouse gases, associating it with the life cycle of the product.**



# DEG PROJECT





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# Thanks for your time!!!

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