

SGA BUSINESS SCAN 2023

(analysis for implementing the principles of the Circular Economy)

1. General description of the activity

Company name HELIAR Sp. z o. o.

type of activity auxiliary services in construction

construction activity industry

business activity: washing and cleaning of buildings

2. Resource management

In a building facade washing and cleaning business that uses high-pressure, electrically powered machines, key materials and resources include both equipment and cleaning agents. Preparation for the implementation of the Circular Economy (Circular Economy) in such an enterprise requires special attention to energy efficiency, the selection of cleaning agents and waste management. Here are the key points:

Equipment and Machines:

High-pressure washers: Invest in energy-saving and durable washers, possibly powered by renewable energy sources (RES).

Power generators: Replacing gasoline power generators with more ecological variants, e.g. biofuel or renewable energy sources.

Cleaning Agents:

Eco-friendly cleaning products:

Preferring products that are biodegradable and less harmful to the environment.

Alternatives to chemicals: Use of sand, coconut shavings, steam as less invasive cleaning methods.

Energy Management:

Renewable energy sources:

Using electricity generated from renewable energy sources to power equipment.

Energy efficiency: Optimizing the energy consumption of equipment and vehicles.

Water Management:

Water recovery and recycling systems: Collecting and reusing water used for cleaning.

Minimizing water use: Using technologies that reduce the amount of water needed for effective cleaning.

Transport and logistics:

Effective transport: Use of vehicles powered by renewable energy sources or with low exhaust emissions.

Route optimization: Plan routes to minimize fuel consumption.

Education and Environmental Awareness:

Employee training: Educating staff on sustainable development practices and circular economy.

Communication with clients: Information about ecological benefits and working methods consistent with circular economy.

Waste Management:

Segregation and recycling of waste: Effective management of waste generated during work (e.g. packaging for cleaning agents).

Waste reduction:

Minimizing the amount of waste generated by appropriate selection of materials and work methods.

The implementation of circular economy in such a business not only contributes to environmental protection, but can also lead to lower operating costs and increased competitiveness of the company on the market.

3. Waste and disposal

In the small HELIAR business dealing with washing and cleaning of building facades, which uses high-pressure machines powered by electricity and various cleaning agents, the main types of waste are water waste, used chemicals, sandblasting waste, coconut shavings and waste related to the use of power generators. Here are some ways to reduce the amount of this waste and recycle it in the context of implementing the Circular Economy (Circular Economy):

Water waste:

Water purification and reuse: Using systems to recover and recycle water for reuse in the cleaning process.

Water Usage Optimization: Use technologies that reduce the amount of water needed for effective cleaning.

Chemicals:

Reducing the use of chemicals: Use greener cleaning methods, such as steam or sand, instead of chemicals whenever possible.

Proper storage and disposal: Ensuring the safe storage and disposal of used chemicals.

Sand Blasting Waste and Coconut Chips:

Upcycling and reuse: Seeking opportunities to reuse or recycle materials such as sand or coconut shavings.

Waste from generators:

Optimizing the use of aggregates:

Minimizing the use of gasoline-powered generators in favor of electricity from renewable energy sources.

Regular maintenance: Ensuring generators operate efficiently to reduce fuel consumption and emissions.

Waste Management:

Segregation and recycling: Effective separation and recycling of waste such as plastics, metals and paper.

Waste minimization: Applying practices that reduce the amount of waste generated.

Education and Environmental Awareness:

Training for employees:

Educating staff on green and waste management practices.

Promoting sustainable development practices: Supporting circular economy principles within the company and in communication with customers.

Implementing these practices in the facade washing and cleaning business not only contributes to reducing the company's ecological footprint, but can also help reduce operating costs and improve the brand's image as environmentally responsible.

What are the main types of waste produced by your company?

4. Life cycle of products and services

In a small HELIAR business specializing in washing and cleaning building facades, employing a dozen or so employees and using high-pressure machines powered by electricity, the offer of products and services may be quite diverse and specialized. Here are some examples of services that may be offered:

Facade Cleaning Services:

Water Pressure Washing:

Removing dirt, dust, moss and algae from the facade using a high-pressure water sprayer.
Gentle cleaning for more sensitive surfaces.

Sanding:

Effective cleaning of hard surfaces such as brick or concrete using a sand stream.
Removing stubborn dirt and paint.

Cleaning with Coconut Chips:

An ecological alternative to sandblasting, especially useful for cleaning more delicate surfaces.

Steam Cleaning:

The use of hot steam to remove grease, oil and other difficult-to-remove substances.
Effective in cleaning facades made of delicate materials.

Application of Chemicals:

Using both eco-friendly and conventional chemicals for deep cleaning.
Adapting the type of agents to the type of dirt and façade material.

Additional services:

Roof and Gutter Cleaning:

Removing dirt, leaves and other waste from roofs and gutters.

Washing Windows and Shopfronts:

Cleaning windows and large glass surfaces at heights.

Cleaning of Outdoor Surfaces:

Cleaning sidewalks, parking lots, terraces and other outdoor surfaces.

Sustainable development:

Using electricity from renewable energy sources and gasoline-powered generators depending on local needs and possibilities.

Such a business offers comprehensive services in the field of maintaining the cleanliness of facades, adapting its methods to various requirements and types of buildings. The use of modern technologies and sustainable work methods can also be an important element of promoting the company as modern and environmentally conscious.

In the small HELIAR business specializing in washing and cleaning building facades, applying the principles of the Circular Economy (Circular Economy) and extending the life cycle of products can be implemented through various strategies. Here are some ways to achieve this goal:

1. Effective Resource Management:

- **Water Saving**: Use of water-reducing devices, such as water-saving nozzles, and water recycling systems.
- **Use of Renewable Energy Sources**: Using electricity from renewable energy sources to power devices, where possible, and minimizing the use of gasoline-powered generators.

2. Selection of Sustainable Materials and Techniques:

- **Use of Eco-Friendly Cleaning Products**: Preferring cleaning products that are biodegradable and have a lower impact on the environment.
- **Use of Natural Materials**: Using natural cleaning substances, such as coconut shavings, instead of traditional sandblasting, where possible.

3. Equipment Maintenance and Repair:

- **Regular Servicing of Equipment**: Ensuring regular maintenance and repair of machines to extend their life and avoid premature replacement.
- **Investment in Durable Equipment**: Choosing high-quality, durable machinery that will last for a long time.

4. Education and Ecological Awareness:

- **Training for Employees**: Raising the ecological awareness of employees and training in the effective and ecological use of resources.
- **Customer Information**: Educating customers about the benefits of eco-friendly cleaning methods.

5. Recycling and Upcycling:

- **Waste Recycling Programs**: Effective waste management, including recycling of used cleaning materials and packaging.
- **Waste Upcycling**: Finding ways to reuse waste, such as turning used coconut shavings into compost.

6. Sustainable Transport:

- **Efficient Transport**: Using eco-friendly vehicles to transport equipment and employees, and optimizing routes to reduce exhaust emissions.

7. Innovation and Development:

- **New Technology Research**: Investing in the development of new, more sustainable cleaning technologies.

Implementing these practices at HELIAR can not only help reduce the company's carbon footprint, but also improve its image as a responsible and sustainable company, which may be attractive to environmentally conscious customers.

5. Supply chain and supplier selection

HELIAR offers services and intermediate products in a wide range of cleaning techniques and methods, adapted to various types of surfaces and customer needs. Here are HELIAR's main services and intermediate products:

In a small business specializing in washing and cleaning building facades, the services and intermediate products offered may include a wide range of cleaning techniques and methods, adapted to different types of surfaces and customer needs. Here are the main services and intermediate products that such a business can offer:

Intermediate Products:

1. **Cleaning Agents**:

- Providing specialized cleaning products tailored to specific needs and types of surfaces.
- Eco-friendly cleaning products for customers who prefer sustainable solutions.

2. **Equipment Rental**:

- Offering the rental of high-pressure washers and other cleaning equipment for customers who prefer to carry out the work themselves.

3. **Consultations and Advisory**:

- Offering advice on the best methods for cleaning and maintaining facades.
- Assistance in selecting appropriate cleaning techniques and agents.

4. **Additional Services**:

- Cleaning windows and other glass surfaces.
- Maintenance services such as painting and repairs after cleaning.

Each of these HELIAR services and intermediate products is tailored to the individual needs of the client, taking into account the type of facade, level of dirt and environmental requirements.

The use of various cleaning techniques allows for effective and safe removal of dirt, while maintaining the aesthetics and durability of the facade.

At HELIAR, there are several ways to reduce the environmental impact by appropriately selecting suppliers and changing the raw materials used. Here are some of them:

1. Choosing Eco-Friendly Cleaning Products:

- **Biodegradable Cleaning Agents**: Use of chemicals that are environmentally safe, biodegradable and have a low impact on the ecosystem.
- **Avoiding Harmful Chemicals**: Eliminating the use of substances harmful to the environment, such as phosphates, chlorine and ammonia.

2. Use of Sustainable Materials:

- **Coconut Shavings and Other Natural Substances**: Instead of traditional sandblasting, the use of natural materials that are less harmful to the environment.
- **Recycling and Reuse of Materials**: Wherever possible, use materials that can be recovered and reused.

3. Use of Renewable Energy Sources:

- **Renewable electricity**: Using energy from renewable sources such as wind, sun or water to power equipment.
- **Energy-Saving Equipment**: Investing in machines and equipment that are more energy efficient.

4. Responsible Selection of Suppliers:

- **Sustainable Suppliers**: Work with suppliers who also employ environmentally friendly practices, such as the use of alternative fuel vehicles for deliveries.

5. Minimizing Water Usage:

- **Efficient Washing Systems**: Using technologies that reduce water consumption, e.g. water recycling systems.
- **Washing Efficiency**: Using washing techniques that maximize efficiency while minimizing water consumption.

6. Logistics and Transport Optimization:

- **Efficient Route Planning**: Reducing exhaust emissions by optimizing routes and work schedules.
- **Use of Ecological Transport**: Preference for vehicles powered by electricity or hybrid energy.

The introduction of these practices at HELIAR will not only reduce the negative impact on the environment, but may also contribute to increasing the company's competitiveness by building the image of an environmentally responsible company.

6. Redesign and innovation

Introducing technological changes and improvements to reduce the amount of waste and extend the life cycle of products at HELIAR in accordance with the principles of the Circular Economy (Circular Economy) should cover several aspects of activity:

1. Use of Eco-Friendly Cleaning Products:

- **Biodegradable Detergents**: Selecting cleaning agents that are environmentally friendly and easily biodegradable, thus minimizing the impact on the ecosystem.
- **Reduce Chemicals**: Reducing the use of aggressive chemicals in favor of more natural and ecological solutions.

2. Recycling and Reusing Water:

- **Water Purification and Recycling Systems**: Implementation of systems allowing the reuse of water in washing processes, which reduces water consumption.

3. Energy-saving and Eco-friendly Devices:

- **Energy-Saving Machines**: Investment in modern, energy-saving high-pressure devices that consume less energy.

- **Use of renewable energy**: Using electricity from renewable energy sources to power equipment, instead of gasoline-powered generators.

4. Sustainable Transport:

- **Green Business Vehicles**: Using electric or hybrid vehicles to transport equipment and employees, which reduces exhaust emissions.

5. Effective Waste Management:

- **Waste Segregation and Recycling**: Introduction of waste segregation systems, including recycling of packaging and materials used in the cleaning process.

6. Minimization of Raw Material Consumption:

- **Material Usage Optimization**: Precise dosing of cleaning agents and other materials to minimize their consumption and reduce waste.

7. Education and Environmental Awareness:

- **Employee Training**: Educating employees about sustainable development practices and encouraging their application at work.

- **Customer Information**: Highlighting the ecological aspects of services in customer communications, which can increase customer environmental awareness and preferences.

Introducing these changes to HELIAR may contribute not only to reducing the negative impact on the environment, but also to increasing operational efficiency and improving the company's image as an environmentally conscious enterprise.