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Module III –

Energy efficiency and responsible use of resources



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Module III. Efficiency power and use resource manager

3.1. Management effectiveness energy

- Implementing solutions to reduce energy consumption in stores
- Use of renewable energy sources

3.2 . Conservation of water and other natural resources

- Reduction water consumption in retail operations
- Use responsible for others resources natural , such as wood and minerals

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3.1. Management effectiveness energy



Implementing solutions to reduce energy consumption in stores

Management effectiveness energy in retail involves the adoption of solutions and technologies that reduces energy consumption in stores.
This may include:
1) installation of energy - efficient LED lighting systems ,
2) use air conditioners and heating efficient ,
3) implementation energy management systems for monitoring and optimizing energy consumption
4) promotion of energy saving practices among employees and customers .

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Implementation of solutions for reduction energy consumption in stores

Reduction energy consumption in stores can be made through a series of measures specific and efficient :



- ✓ *Installation of LED lighting systems*
- ✓ *Use of air conditioners and heatingsystems*
- ✓ *Implementation of energy management systems*
- ✓ *Promotion of Energy Saving Practices*

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Usage of renewable energy sources

Responsible retail can help protect the environment by using renewable energy sources, such as **solar** and **wind power** , to power their stores and facilities. This can include installing solar panels on building roofs, using wind turbines to generate power and purchasing green energy from certified suppliers.





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Usage of renewable energy sources

Sustainable retail can signifficantly contribute to protecting the environment by adopting renewable energy sources that reduce the dependence of fossil fuels and greenhouse gas emissions, such as :



- Installation of solar panels on roofs that can generate a significant amount of renewable energy
- Installation / Use of turbines wind in areas where wind speed is big enough
- Green energy procurement by retailers from certified suppliers

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Example : Effective implementation OF energy in Green

FICTIONAL SHOP"Green" has successfully implemented a series of measures to reduce energy consumption and use of renewable energy sources. These initiatives not only that they reduced operational costs , but they also have strengthen repute the store as a pioneer in sustainability:



- **all Lamps traditional products from the Green Shop were replaced with LEDs energy efficient . This measure led to a 60 % reduction in energy consumption for lighting.**
- **SHOP Green installed air conditioners and heating with A+++ classification , as well as programmable THERMOSTATS . These automatically adjusts the temperature in depending on operating hours and the presence people in shop , reducing energy consumption in periods of inactivity;**

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- an energy management system monitors consume in real time and automatically adjusts lighting and climate For example , lights in storage areas automatically turn off when they are not in use . detect movements , and climate is REGULATED to maintain a temperature optimal with minimal consumption ;
- Green store has installed solar panels on the roof, generating a significant part of the necessary of its energy. Energy produced by the solar panels cover approximately 30% of the store 's total consumption , reducing thus energy bill and CO2 emissions ;
- To complete power produced by the panels solar , the Green store purchases the rest of the energy required from an energy certificated green supplier. This ensures that entire store energy consumption comes from renewable sources.



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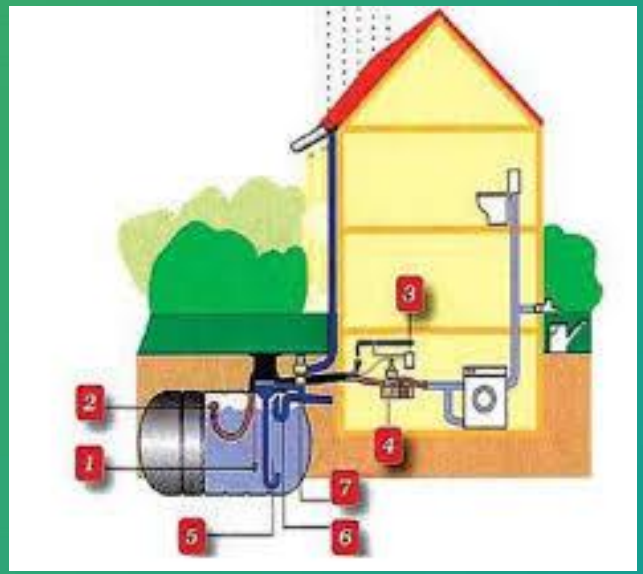
*Initiatives of **Green store** efficiency implementation energy , demonstrates that are achievable and bring BENEFITS significantly for all the parties involved.*

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3.2. Conserving water and other natural resources

Reducing water usage in retail requires the implementation of various practices and technologies to minimize consumption in commercial activities. This may include installing water recycling systems for reuse in different processes, using water-efficient facilities, and promoting water-saving practices among employees and customers.



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Reducing water consumption in retail operations

Reducing water consumption in retail is essential for protecting this valuable resource and lowering operational costs.

There are many ways retailers can reduce water usage, including:

- ➤ Installing water recycling systems
- ➤ Using efficient and health-conscious facilities
- ➤ Promoting water-saving practices



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Responsible use of other natural resources, such as wood and minerals

Beyond water conservation, responsible retail focuses on the sustainable use and management of other natural resources, including wood and minerals.
This includes sourcing products and materials from certified sustainable suppliers, such as wood from responsibly managed forests and minerals extracted following environmentally and socially responsible practices.



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Responsible Use of Other Natural Resources

In addition to water conservation, retailers must take responsibility for managing other natural resources, such as wood and minerals.

This involves sourcing sustainable and certified materials, adopting conservation practices, and promoting reuse.

- **Purchasing wood from sustainable sources**
- **Using minerals from responsible suppliers**
- **Encouraging reuse and recycling**



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Water Conservation Practices and Sustainable Resource Management at EcoRetail

The fictional store **EcoRetail** has successfully implemented various measures to reduce water consumption and responsibly manage natural resources. These initiatives have helped protect the environment while strengthening the store's reputation as a sustainability leader.

Key sustainability initiatives at EcoRetail:

✓ **Water Recycling System** – EcoRetail installed a system that treats and reuses water for irrigating green spaces around the store.
✓ **Water-Efficient Fixtures** – Toilets and faucets were upgraded to water-efficient models, including dual-flush toilets and sensor-activated faucets. These changes reduced water consumption by **40%**, proving that modern technology can significantly enhance resource conservation.
✓ **Employee & Customer Awareness** – Training sessions were held for employees on water conservation, and educational materials were distributed to customers. These efforts raised awareness, encouraged responsible behavior, and promoted actions like reporting leaks and reducing water waste.
✓ **Sustainable Wood Sourcing** – All wood used for store construction and furnishings comes from **FSC-certified, sustainably managed forests**, ensuring responsible harvesting that protects ecosystems and supports local communities.
✓ **Ethical Mineral Sourcing** – EcoRetail collaborates with suppliers that adhere to international environmental and human rights standards. This ensures that mineral resources are extracted and processed responsibly, minimizing environmental impact and safeguarding workers' rights.

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Implementation of these water conservation practices and others resources naturally brings multiple benefits :

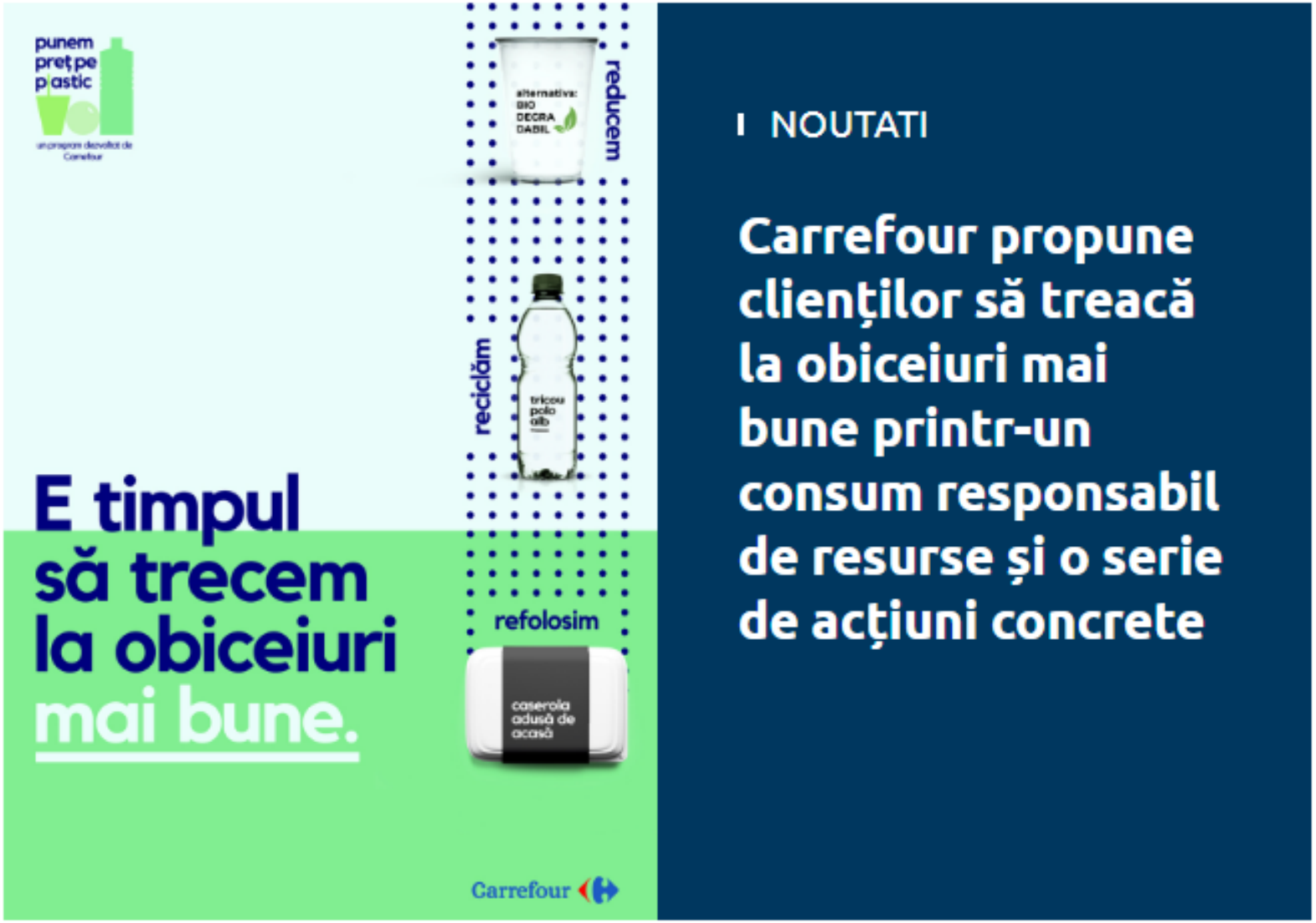
Reducing water consumption and responsibly managing natural resources contribute to **ecosystem protection** and help preserve valuable resources for **future generations**.

Efficient water consumption technology and responsible resource management can significantly reduce operational costs while promoting sustainability.

EcoRetail initiatives demonstrate the store's commitment to sustainability, thus attracting a segment of responsible customers, thus gaining a positive reputation;

Efficient management of water and natural resources ensures the long-term sustainability of retail operations, contributing to a more sustainable and responsible future.

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https://carrefour.ro/corporate/stiri-presa/noutati/carrefour-propune-clientilor-sa-treaca-la-obiceiuri-mai-bune-printr-un-consum-responsabil-de-resurse-si-o- series-of-concrete-actions

Here are some examples from Romania retailer – Carrefour:

Clienții sunt invitați să pună alături de Carrefour bazele unui viitor mai verde și mai curat prin acțiuni concrete, responsabile, constante și sunt încurajați să treacă la obiceiuri mai bune cu ajutorul inițiativelor care pun preț pe sănătate, natură și familie, precum:

Plata cu PET – o inițiativă în premieră prin care consumatorii au fost invitați să plătească cu plastic pentru fructe și legume provenite de la producători locali. În perioada iulie 2019 - noiembrie 2020, **peste 370.000 de PET-uri au fost colectate prin campania Plata cu PET în 14 hipermarketuri din țară, oferind la schimb 92 de tone de fructe și legume românești**. Clienții pot urmări pagina oficială de Facebook Carrefour România pentru a afla mai multe detalii despre următoarea perioadă de desfășurare a campaniei.

Roli Poli – Un concept unic de stație de colectare selectivă pentru copii unde aceștia primesc informații educative despre consumul responsabil de resurse și colectarea selectivă a deșeurilor. În prezent, **3 stații Roli Poli sunt amplasate în hipermarketurile din Corbeanca, Târgu Mureș și Târgoviște**. De asemenea, Carrefour va amplasa în fiecare hipermarket pe care îl va deschide în viitor stația Roli Poli. Clienții pot urmări pagina oficială de Facebook Carrefour pentru a afla mai multe detalii despre următoarele stații Roli-Poli.

Duminica Verde – O campanie educațională online desfășurată pe pagina oficială de Facebook a Carrefour, din octombrie 2019 și până în prezent, unde clienții primesc sfaturi despre cum pot trece la obiceiuri mai bune, la cumpărături și acasă, și cum pot acționa concret pentru a proteja mediul înconjurător. Clienții pot urmări seria de postări în fiecare zi de duminică, pe pagina oficială de Facebook a Carrefour.

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Campaniile care se află în derulare și la care se pot alătura clienții pe o perioadă nedeterminată sunt:

Colectarea uleiului folosit – În toate hipermarketurile Carrefour din țară clienții au posibilitatea de a aduce uleiul alimentar uzat, pentru a fi colectat responsabil. Pentru încurajarea acestui bun obicei, Carrefour a implementat o mecanică de recompensare prin care, pentru fiecare 3 litri de ulei uzat, oferă la schimb un 1 litru de ulei proaspăt, iar pentru 5 litri de ulei uzat, fiecare client primește 2 litri de ulei proaspăt. **În perioada noiembrie 2019 - noiembrie 2020 peste 160.000 de litri de ulei alimentar uzat au fost colectați în hipermarketurile Carrefour și prin Bringo, oferind la schimb peste 55.000 litri de ulei proaspăt. Cei 160.000 de litri de ulei uzat colectați au salvat peste 160 de milioane de litri de apă**. Din decembrie, anul trecut, programul s-a extins în 10 magazine Supeco și 11 magazine Carrefour Market din țară. Mai multe detalii despre mecanismul de colectare, aici.

Vino cu Caserola ta de acasă – o oportunitate de a reduce plasticul de unică folosință, Carrefour este singurul retailer care permite și încurajează clienții să achiziționeze produse în propriile caserole din zona Gastronomie și raioanele de: brânzeturi – măsline – mezeluri; măcelărie; pește; brutărie - cofetărie-patiserie; Mai multe despre această inițiativă și mecanismul de aplicare puteți afla accesând articolul dedicat.

Introducerea pungilor biodegradabile la raioanele fructe-legume, măcelărie, pește, mezeluri, produse congelate vrac și mâncare pentru animale vrac, **reducând astfel un consum de aproape 6 milioane de pungi de plastic pe lună**. Pungile prietenoase cu natura sunt 100% biodegradabile, din materiale vegetale, compostabile acasă sau industrial.

Introducerea săculeților reutilizabili - clienții au posibilitatea de a alege săculeții reutilizabili pentru a transporta fructe proaspete, legume sau pâine, fără a produce alte deșeuri din plastic.Săculeții sunt certificați, realizați din bumbac 100% ORGANIC, de origine controlată.

Programul CCR Rebat - un program prin care au fost colectate până în prezent peste 10.000 de tone de baterii uzate, fiind oferite la schimb peste 69 de milioane de baterii noi. Pentru fiecare 6 baterii uzate sau 6 acumulatori vechi aduși la urnele speciale amplasate la recepție clienți în hipermarket-urile Carrefour, clienții sunt recompensați cu o baterie nouă.

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danke 謝謝 ngiyabonga teşekkür ederim спасибо dank je gracias tapadh leat thank you bedankt hvala mauruuru dziękuję mochchakkeram go raibh maith agat obrigado sukriya kop khun krap arigatô takk dakujem grazie terima kasih мерси ευχαριστώ 감사합니다 merci



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