

Энергия из ОТХОДОВ – ПЛЮСЫ И МИНУСЫ

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EU – Central Asia Cooperation on
Water – Environment – Climate Change



This project is implemented by the consortium led by Stantec, with ELLE (Estonian, Latvian & Lithuanian Environment), ACTED, and Kommunal kredit Public Consulting as the consortium partners.

Проблема = мусор



Линейная экономика



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...линейная экономика:



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...и еще линейная экономика:



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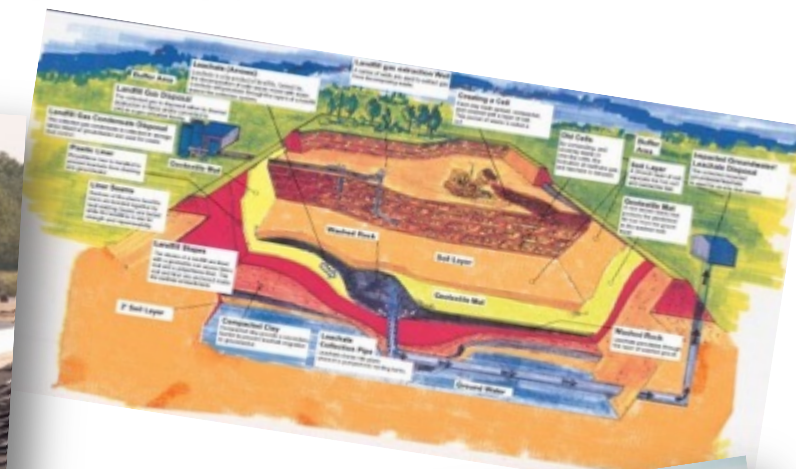
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...и это тоже линейная экономика:



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Линейная экономика



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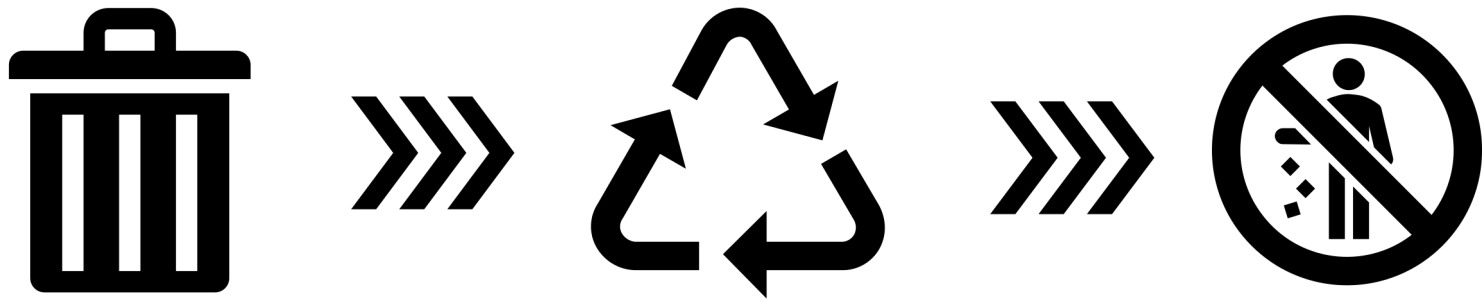


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А нам нужна другая система...



Экономика замкнутого цикла



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Экономика замкнутого цикла

Search for

IKEA протестирует аренду мебели на 30 рынках в течение 2020 года

IKEA will test furniture leasing in 30 markets during 2020

Search for categories

Home > IKEA > Sell your furniture

Sell your furniture

Decide which piece of IKEA furniture you no longer need, and we'll buy it back from you.

Find out how to do it.

.V. and its controlled entities), will test leasing, acquire, care for and pass on IKEA products in a response to consumer research exploring ways that contribute to a circular

Продай свою мебель



What you can sell



What you cannot sell



Conditions

- <https://www.ikea.com/es/en/campaigns/sell-your-furniture-pub70f47900>
- <https://www.ikea.com/us/en/this-is-ikea/newsroom/ikea-will-test-furniture-leasing-in-30-markets-during-2020-pub1ae9e5e1>

Потребуй право отремонтировать свой смартфон

Demand the Right to Repair your smartphone

Target: European Commission



<http://repair.eu/smartphones/?fbclid=IwAR0XGpdxelRBQzqVbQyIwYv4N5pKcyddFoQ2z1IHgmW43F4QvIqhmT-VJ64>

Экономика замкнутого цикла



Великобритания запускает первый онлайн-сервис для продуктов в многоразовой упаковке

UK launches first online service for groceries in reusable packing

Loop will offer 150 products from major brands in refillable containers, with more to follow



to offer a modernised version of the 'milkman from yesteryear', is launching in co, which will encourage its online customers to try out the scheme.

online shopping service that delivers food, drink and ntials from leading brands in reusable packaging is to launch aiming to kickstart moves to reduce single use plastic that lt of the Covid-19 pandemic.



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Иерархия методов управления отходами («пирамида»)



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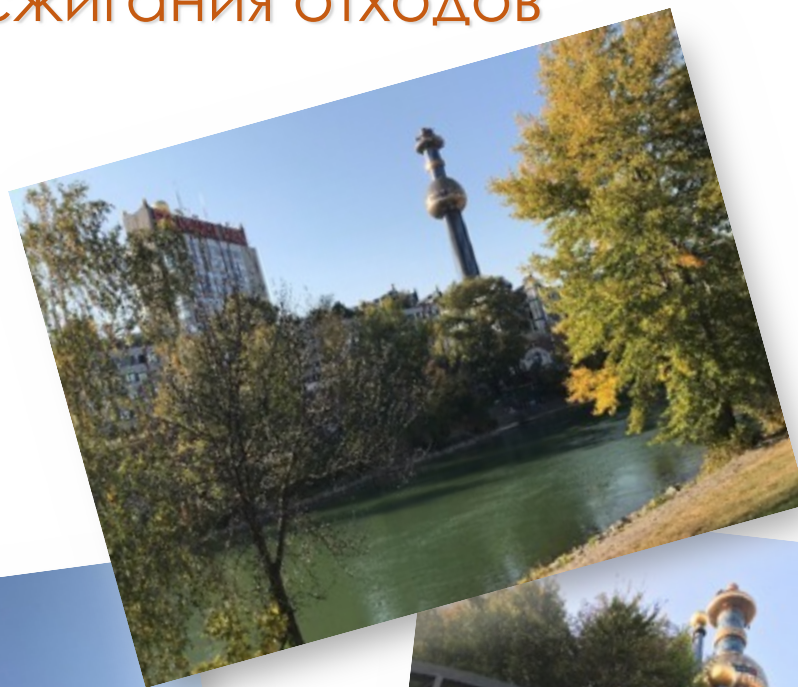


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Экологические аспекты сжигания отходов



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Энергия из отходов – за и против



- Лучше, чем сжигание первичных энергоресурсов
- Уменьшение захоронения отходов
- Уничтожение загрязняющих медицинских отходов и другого опасного для жизни мусора
- Уменьшение выбросов
- Предотвращение запаха и шума
- Занимает меньше места



- Невозобновляемый источник энергии
- Уничтожение ресурсов
- Демотивация перехода в экономике замкнутого цикла
- Это подпитывает нерегулируемую торговлю отходами
- Ведет к выбросам

Энергия из отходов – за и против

cewep Confederation of European Waste-to-Energy Plants

Конфедерация европейских заводов по переработке отходов в энергию

ABOUT CEMEP - WHAT IS WASTE-TO-ENERGY - NEWS - POLICY - FACTS - EVENTS -



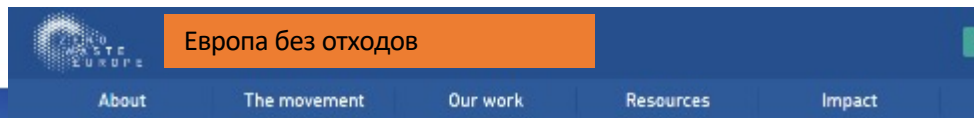
Мифы и реальность о сжигании отходов

Myths and The Reality About Incineration

General discussions about incineration of wastes are accompanied often by certain dissonant information about pros and cons. In real development of incineration are limited due to the fact of very strict requirements within the approval process and a following approval of modern incineration plants. Risk factors that could harm human environment are eliminated or definitely strictly controlled. The sub waste incineration can be recognized in all circumstances in the world. Nevertheless, there still exist many myths about incineration.

Incinerators cause pollution and raise risk to health and contamination of surrounding land.

Incinerators are the largest producers of dioxins. It is the dioxins contained in the gases from the chimneys that attract most concern because they are suspected of causing cancer.



ЕС ясно: сжиганию отходов в энергию не место в повестке дня устойчивого развития

The EU is clear: Waste-To-Energy incineration has no place in the sustainability agenda

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Written by
KASSANDRA MAKAYOU

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Энергия из отходов – за и против

- Большие мусоросжигательные заводы: уходят в прошлое

- Биогаз – отопление, топливо
- Биогаз – биохимическая переработка
- Синтетический газ
- Ферментация и дистилляция
- Анаэробное разложение
- Топливо из органических отходов, которые иначе нельзя утилизировать (RDF – топливо, полученное из отходов)



Энергия из отходов – за и против

Таксономия ЕС:

- Хозяйственная деятельность, наносящая значительный вред экологическим целям, представлена в статье 17 Постановления о таксономии.
- Особо указывается, что деятельность, которая «**приводит к значительному увеличению образования, сжигания или удаления отходов, за исключением сжигания перерабатываемых опасных отходов**», наносит ущерб цели перехода к экономике замкнутого цикла.

Например, European Investment Bank

- Хозяйственная деятельность, наносящая значительный вред экологическим целям, представлена в статье 17 Постановления о таксономии.
- ЕИБ заявляет, что структура финансирования мер по борьбе с изменением климата и экологической устойчивости направлена на согласование с принципом «не причинять значительного вреда», который был определен в Регламенте таксономии ЕС. **В связи с этим сжигание отходов исключено из его финансового обеспечения.**

Если нужна дополнительная информация, ...

- ...смотрите здесь: <https://wecoop.eu/ru/regional-knowledge-centre/eu-policies-regulations/>. Экономика замкнутого цикла и отходы – политика и нормативные акты Европейского Союза
- и здесь: <https://wecoop.eu/wp-content/uploads/2020/04/Circular-Economy-brochure-RU.pdf>. Брошюра об экономике замкнутого цикла
- посмотрите фильм: <https://youtu.be/angWde9teuU> и почитайте здесь: <https://www.getlini.lv/ru>. Пример успешной рекультивации старой свалки
- про Бишкек: <http://ekois.net/otsenka-vozdjeistviya-bishkekskogo-poligona-tverdyh-bytovyh-othodov-na-okruzhayushchuyu-sredu/>
- про переработку биогаза – последние новости: <https://meduza.io/feature/2021/11/27/amerikanskije-uchenyje-rasschitali-kak-vygodno-prevraschat-gaz-so-svalok-v-korm-dlya-lososya-zaodno-eto-pomozhet-borotsya-s-izmenenijem-klimata>
- сжигание отходов в Вене: <https://positionen.wienenergie.at/en/projects/>
- <https://www.fcc-group.eu/en/fcc-cee-group/waste-to-resource-new-/waste-treatment/energy-from-waste/what-are-the-advantages-and-disadvantages-of-incineration-process-.html>
- <https://zerowasteurope.eu/2021/05/wte-incineration-no-place-sustainability-agenda/>
- <https://www.cewep.eu/>
- <https://www.ikea.com/us/en/newsroom/corporate-news/ikea-will-test-furniture-leasing-in-30-markets-during-2020-pub1d2281d7>
- <https://repair.eu/smartphones/>
- <https://www.theguardian.com/business/2020/jul/15/uk-launches-first-online-service-for-groceries-in-reusable-packing>

В презентации использованы иллюстрации из следующих источников:

- <https://en.wikipedia.org/>
- <https://www.letsrecycle.com/>
- Modern Disposal Services (<https://www.moderncorporation.com/>)
- Petts, J and Edulgee, G. Environmental Impact Assessment for Waste Treatment and Disposal Facilities. p 229. John Wiley and Sons, Chichester. 1994)
- <http://agreenerpathenv180.blogspot.com/2011/09/frank-r-bowerman-landfill-irvine-ca.html>
- Karaşan, Ali & Ilbahar, Esra & Kahraman, Cengiz. (2019). A novel pythagorean fuzzy AHP and its application to landfill site selection problem. Soft Computing. 23. 10953–10968
- AKI Press
- Thai News Net
- RECYCLING Magazine
- <https://www.pinterest.com/>
- Фото Владимира Ушакова
- Фото проекта WECOOP
- Фото автора
- Technicus.com
- <https://www.scidev.net/global/news/countries-face-emissions-cocktail-from-waste-burning/>
- <https://www.getlini.lv/lv/siltumn%C4%ABca>
- <https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.cewep.eu%2Ftwence%2F&psig=AOvVaw2d1eLa20J8V9gA9C4tKVm-&ust=1649149629795000&source=images&cd=vfe&ved=OCAwQjhxqFwoTCODX9qSH-vYCFQAAAAAdAAAAABAD>
- BBC
- <https://thedairyalliance.com/blog/a-brief-history-of-home-milk-delivery/>
- <https://ru.wikipedia.org/wiki/%D0%A1%D1%82%D0%B5%D0%BA%D0%BB%D0%BE%D1%82%D0%B0%D1%80%D0%B0>
- <https://oadam.livejournal.com/331488.html>

Спасибо!

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