

09.03. 2021 Студенти, аспіранти і молоді викладачі НТУ «Дніпровська політехніка» успішно завершили навчання у Зимовій школі «Сталий розвиток в індустріальній сфері», що проводилася Бранденбурзьким технічним університетом Коттбус-Зенфтенберг - БТУ (Німеччина) за підтримки Німецької служби академічних обмінів - DAAD

DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

b-tu

Brandenburgische
Technische Universität
Cottbus - Senftenberg



**DNIPRO UNIVERSITY
of TECHNOLOGY
1899**

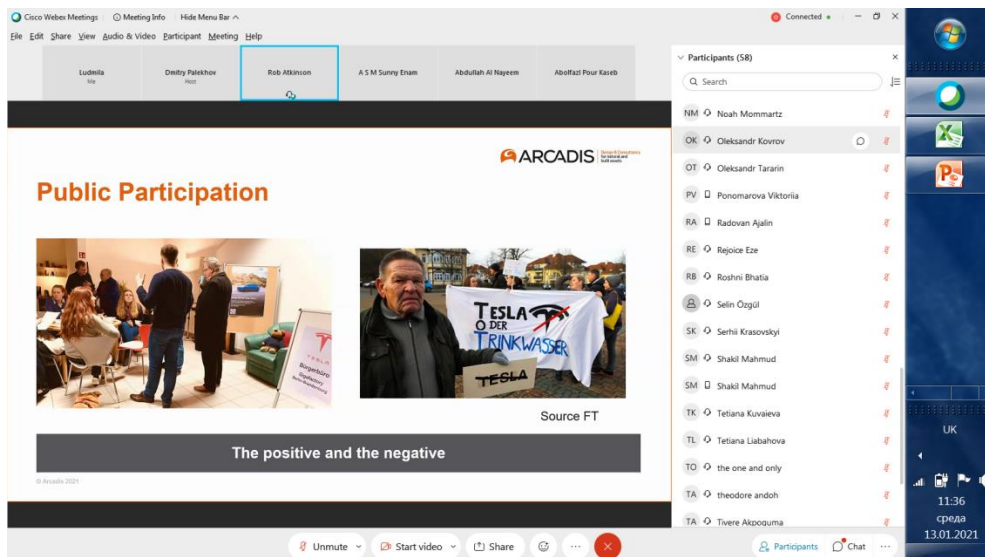
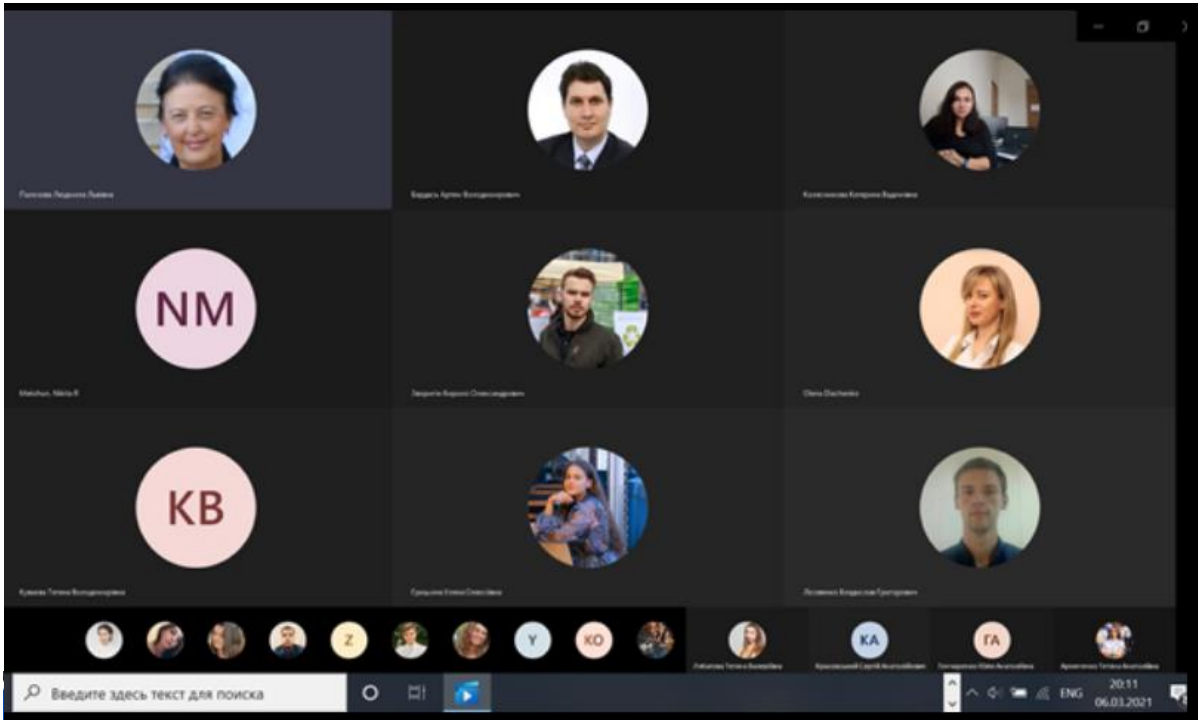
Кожного року НТУ «Дніпровська політехніка» приймає участь у Міжнародних навчальних семінарах с питань сталого розвитку, наприклад: «Екологічна оцінка проектного та стратегічного рівня» (2007 р.), «Стратегічна екологічна оцінка – потенціал для пом'якшення наслідків і адаптації до впливів клімату, що змінюється» (2009 р.), «Інтегроване екологічне планування і адаптація до умов клімату, що змінюється» (2010 р.), «Озеленення навчальних планів і програм – Інтеграція аспектів сталого розвитку в університетську освіту» (2015 р.), «Проблеми сталого розвитку в промисловому секторі в країнах з перехідною економікою» (2019 р.) та інші.

У грудні 2020 - січні 2021 відбулася X Зимові школа, що проходила дистанційно з використанням навчальних платформ Teams (НТУ ДП) та Cisco Webex (БТУ). Організаторами проекту від НТУ «Дніпровська політехніка» виступили проф. Швець В.Я., доц. Палехова Л.Л. і доц. Куваєва Т.В.

У роботі семінарів прийняли участь більше **100 слухачів з Дніпровської політехніки, Бранденбурзького технічного університету та Технічного університету у Ліберці**. Від Дніпровської політехніки такими стали студенти, аспіранти і молоді викладачі *електротехнічного факультету, факультету інформаційних технологій, факультету будівництва, інституту природокористування, факультету менеджменту та фінансово-економічного факультету*.

З березня 2021 проф. Трегуб М.В., проректор з науково-педагогічної, навчально-виховної роботи та перспективного розвитку Дніпровської політехніки, вручив учасникам Сертифікати БТУ про проходження навчання, а також підкреслив важливість події для підвищення якості освіти та зміцнення наукового співробітництва університетів у підтримку Цілей сталого розвитку.

Проф. Швець В.Я. наголосив, що X Зимові школа є надзвичайно важливою подією для формування знань з аспектів сталого розвитку у промисловості та запросив усіх на наступні заходи, що заплановані навесні та восени 2021 року у рамках Меморандуму про співпрацю НТУ «Дніпровська політехніка» та Бранденбурзького технічного університету Коттбус-Зенфтенберг.




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Ludmila Me Dmitry Palekhov Host Tetiana Kuvaleva Serhii Krasovskiy Kateryna Kolesnykova

Nikita Mekshun

Environmental challenges for PJSC "ArcelorMittal Kryvyi Rih"



Steel production relates to the significant environmental footprint. The main goals of PJSC ArcelorMittal Kryvyi Rih in ecological area are fulfillment of the environmental obligations and ecological safety. Due to these goals the enterprise improves its environmental management system, renovates environmental facilities and develops new methods of waste processing and storage. PJSC ArcelorMittal Kryvyi Rih is one of the first steel plants in Ukraine adopted environmental management system for the efficient management of the environmental issues. Every year the plant proves that environmental management system meets requirements of the international standard ISO 14001:2015, which testifies high reliability and productivity of environmental management system. The enterprise approved **Environmental Policy**, which states main principles of our attitude to the environmental protection.

All company's industrial activity is executed under **Permission documents** when meeting requests of international standards and Environmental Legislation of Ukraine.

Source: <https://biz.liga.net/ekonomika/nalnovosti/ekologiya-i-arselormittal-zelensky-zayavil-otbo-vopros-reshen> Mykyta Mekshun | 13.01.2021 ntud.com 2

Participants (27)

- NN Natalia Nechai
- OK Oleksandr Kovrov
- OT Oleksandr Tararin
- OC Olena Churikanova
- OD Olena Diachenko
- RB Roshni Bhatia
- SK Serhii Krasovskiy
- SM Shaki Mahmud
- TK Tetiana Kuvaleva
- TL Tetiana Liabahova
- TA Tivere Akpoguma
- VL Vlyadyslav Lisovenko
- YD Yulia Dubiel
- YH Yulia Honcharenko
- Zaxap

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Participants Chat

UK 12:58 среда 13.01.2021

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Speaking: Yassine Ezahedi

Ludmila Me Dmitry Palekhov Host Md Golam Rabiet Rabbani Yassine Ezahedi

-Lina Palomo Amr Anastasia Yakunina Angelica Puello

Anton Isaiev Arkhypenko Tetiana Atlican Ebili Ijeoma Sandra Ghada Mohamed Khalfaf

Ibtahaj Tasfin Kyrlyo Zvoryhin Markus Burgmair Md. Sarwar Jahan Talukdar Mir Raisul Islam

MOIZ KHALIL Natalia Kruchinina Nikita Mekshun Oleksandr Tararin Olena Churikanova

Participants (38)

Chat

environmental management from Natalia Nechai to everyone: 3:45 PM

thanks a lot from Leonard oruade to everyone: 4:09 PM

How much is being done to stop gas flaring, as this is still common practice in some some countries by oil and gas companies from Dmitry Palekhov to everyone: 4:16 PM

CCS = carbon capture and storage from Roshni Bhatia to everyone: 4:37 PM

Can these slides be shared with us? from Abolfazl Pour Kaseb to everyone: 4:37 PM

Write down the email please from Atlican to everyone: 4:17 PM

maybe we can have a email adress for future questions? from Dmitry Palekhov to everyone: 4:30 PM

Robert's email address will be indicated in his lecture slides that will be uploaded to Moodle. from Ludmila to everyone: 4:55 PM

What is the main issue with renewable energy during a pandemic?

To: Everyone

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Participants Chat

UK 17:07 11.01.2021 15:32 12.01.2021

Буфер обмена (24 из 24) Объект добавлен в буфер.

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Ludmila Me Bachar Ibrahim Host Tetiana Kuvaleva Anton Isaiev Artem Bardas, Dr. Econ. Sc. Dmitry Palekhov

Artem Bardas, Dr. Econ. Sc., ...

Circular Economy

• is an alternative to a traditional linear economy (make, use, dispose) in which we keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and materials at the end of each service life.



Participants (19)

- L Ludmila Me
- BI Bachar Ibrahim Host
- AB Artem Bardas, Dr. Econ. Sc., ...
- AI Anton Isaiev
- AT Arkhypenko Tetiana
- DP Dmitry Palekhov
- KK Kateryna Kolesnykova
- NK Natalia Kruchinina
- NN Natalia Nechai
- NM Nikita Mekshun

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Participants (20)

Viewing Artem Bardas, Dr. E...

Technical Losses in Distribution Networks

Years	Normative Value of Electricity Energy Losses		Actual Value of Technical EEL		Losses in Heating Networks
	mln kWh	%	mln kWh	%	
2015	19034	13.0	12611	9.79	41
2016	18805	13.3	12885	9.90	37
2017	18820	13.2	12932	9.89	30
2018	19140	13.1	13223	9.84	26
2019	18238	12.9	12887	10.35	20

Source: Ministry of Energy of Ukraine, State Statistics Service of Ukraine

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17:14 12.01.2021

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Participants (20)

Chat

Contacts

bardas.a.v@nmu.one
Professor, Dr. Econ. Sc.
Artem Bardas
Dnipro University of Technology

from Dmitry Palekhov to everyone: 3:01 PM
 Начало через пару минут...

from Dmitry Palekhov to everyone: 3:01 PM
 Вопросы будут в конце лекции в форме дискуссии

from Ludmila to everyone: 3:55 PM
 Ukraine has a big problem with municipal waste. In your opinion, what methods can be used to increase consumers' motivation to reduce food waste? Thank you!

from Tetiana Kuvaieva to everyone: 3:58 PM
 How recycling rates can or should be calculated? What kind of data do we need?

from Ludmila to everyone: 5:24 PM
 Is there any experience in certifying supply chains for compliance with voluntary sustainability standards in Ukraine? And is it real in general? Thank you!

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17:25 12.01.2021

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Ludmila Me Bachar Ibrahim Host Dmitry Palekhov Sazzad Hossain Artem Bardas, Dr. Econ. ... Tetiana Kuvaieva

Participants (20)

- L Ludmila Me
- BI Bachar Ibrahim Host
- SH Sazzad Hossain
- AI Anton Isaiev
- AT Arkhyenko Tetiana
- AP Artem Bardas, Dr. Econ. Sc., Professor
- DP Dmitry Palekhov
- KK Kateryna Kolesnykova
- NK Natalia Kruchinina
- NN Natalia Nechai
- NM Nikita Mekshun
- OT Oleksandr Tararin
- PV Ponomarova Viktoriia
- TK Tetiana Kuvaieva
- TL Tetiana Liabahova
- VL Vladyslav Lisovenko

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Participants Chat

17:34 12.01.2021

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Ludmila Me Bachar Ibrahim Host Yuliia Dubiei Sazzad Hossain Tetiana Kuvaieva

Viewing Natalia Kruchinina ...

What is circular economy?

Transition from linear to circular economy

Current extractive industrial

take, make, waste

Circular

restorative and regenerative by design

Key principles of circular economy

- Preserve and enhance natural capital.
- Optimise resource yields.
- Foster system effectiveness by revealing and designing out negative externalities.

Sources: <https://www.londonversitebeli.co.uk/news-and-events/the-circular-economy-resources-tools-and-information-for-small-businesses>; https://www.ellenmacarthurfoundation.org/assets/downloads/publications/EllenMacArthurFoundation_PolicymakerToolkit.pdf

Cand. Sci. (Econ.) Yuliia Dybiei, student Natalia Kruchinina # 12.01.2021 ntudp.com 2

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Participants Chat

18:07 12.01.2021

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Ludmila Me Bachar Ibrahim Host Yuliia Dubiei Anton Isaiev Tetiana Kuvaieva

Viewing Natalia Kruchinina ...

Recycling in mechanical engineering sector

Recycling is the collection, sorting and processing of disposed materials for use in other manufacturing processes.

Example → **vehicle recycling**

Obstacles for recycling:

- used cars contain a number of harmful substances → special recycling technologies are required;
- impossibility of recycling of metals that are corroded, rust;

Evaluation of the recycling efficiency

$$P_R = E \cdot \frac{E_{rec}}{E_{OR}} \text{, where}$$

P_R - recycling efficiency indicator (0,1 – 1);

Participants (15)

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Ludmila Me Bachar Ibrahim Host Natalia Kruchinina Yulia Dubiei **Natalia Nechai** Tetiana Kuvaieva

Participants (15)

- L Ludmila Me
- BI Bachar Ibrahim Host
- NK Natalia Nechai
- AI Anton Isaiev
- AT Arkhylenko Tetiana
- DP Dmitry Palekhov
- NK Natalia Kruchinina
- NM Nikita Mekshun
- OT Oleksandr Tararin
- TK Tetiana Kuvaieva
- TL Tetiana Liabahova
- VL Vladyslav Lisovenko
- YD Yulia Dubiei
- E Елена
- З Захар

Микшер

18:33 12.01.2021

Слайд 1 из 9

Winter School "Sustainability in the Industrial Sector" Cottbus, Germany – Dnipro, Ukraine

b-tu Brandenburg University of Technology Cottbus, Germany

DAAD Deutscher Akademischer Austauschdienst German Academic Exchange Service

The circular economy toolkit for small business

12th January 2021

Natalia Nechai
Senior teacher of English
Department of Foreign Languages
National Technical University "Dnipro University of Technology"

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Ludmila Me Bachar Ibrahim Host Natalia Kruchinina Yulia Dubiei **Natalia Nechai** Tetiana Kuvaieva

Participants (15)

- AT Arkhylenko Tetiana
- DP Dmitry Palekhov
- NK Natalia Kruchinina
- NM Nikita Mekshun
- OT Oleksandr Tararin
- TK Tetiana Kuvaieva
- TL Tetiana Liabahova
- VL Vladyslav Lisovenko
- YD Yulia Dubiei
- E Елена
- З Захар

Microsoft Excel некоммерческое использование - List of participants_02.01.2021

Microsoft Excel некоммерческо...

UK

18:34 12.01.2021

Слайд 2 из 9

Prosperity without Growth? training

Center For Dialogue and Reconciliation **ISKRA**

ERASMUS+ VOLUNTEERING LOCAL PROJECTS

ISKRA Center for Dialogue and Reconciliation "Iskra"
@ngp iskra - Non-governmental organisation INGO

Local in Global

Partners and Sponsors

Regional Foundation for European Understanding (Poland)
Lectum Towarzystwo Europejskiego Centrum (Poland)
Mikroszem FER, Arnhem
Association for Democratic Education FAR, Bulgaria
Equities, Moldova
York NGO team, Ukraine

Co-financed by:
EU programme Erasmus+ Regional Office

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Ludmila Me Bachar Ibrahim Host Dmitry Palekhov Natalia Kruchinina Natalia Nechai Tetiana Kuvaieva

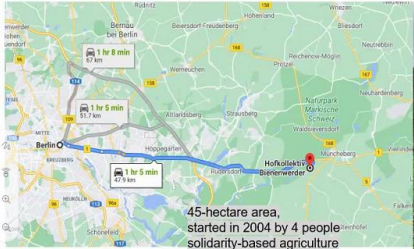
Participants (15)

Search

- L Ludmila Me Bachar Ibrahim (Host)
- BI Bachar Ibrahim Host
- NK Natalia Nechai
- DP Dmitry Palekhov
- AI Anton Isaiev
- AT Arkhyenko Tetiana
- NK Natalia Kruchinina
- NM Nikita Mekshun
- OT Oleksandr Tararin
- TK Tetiana Kuvaieva
- TL Tetiana Liabakhova
- VL Vladyslav Lisovenko
- YD Yulia Dubiei
- Елена
- Захар

Слайд 6 из 9

Sustainable farming: Hofkollektiv Bienenwerder



45-hectare area, started in 2004 by 4 people
solidarity-based agriculture
organic farming, i.e. soil-conserving & humus-increasing, no pesticides

<https://hofbienenwerder.org/>

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Буфер обмена (24 из 24)
Объект не добавлен в буфер: удалите объекты для увеличения доступного места

18:56
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Ludmila Me Dmitry Palekhov Host Rob Atkinson A. S. M. Sunny Enam A. K. M. Sabid Bin Naiem Abdullah Al Naiyem

Participants (60)

Search

- Selin Özgül
- SA Sepideh Ajorloo
- SM Shakil Mahmud
- SM Shakil Mahmud
- TK Tetiana Kuvaieva
- TL Tetiana Liabakhova
- TO the one and only
- TA theodore andoh
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- W wakil
- WB Wendy Bernal
- YD Yulia Dubiei
- YH Yulia Honcharenko
- Елена
- Захар
- YH Yulia Dubiei
- YH Yulia Honcharenko
- Захар

Project Alternatives

The alternative review should include:

- Null version
- How?
- Why?
- Where?


In spatial and infrastructure projects in Germany, the alternative review is mandatory (Planfeststellungsverfahren)

In Industry Projects the alternative review is not necessary, however if it is done then the details should be presented in the EIA.

Tesla did not review alternatives at the project level.

This was a key issue in public participation

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PM10 NO₂

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13.01.2021

11:25
среда
13.01.2021

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Ludmila Me Dmitry Palekhov Host Rob Atkinson A S M Sunny Enam Abdullah Al Nayeem Abolfazl Pour Kaseb

Public Participation

Source FT

The positive and the negative

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Participants (58)

- NM Noah Mommartz
- OK Oleksandr Kovrov
- OT Oleksandr Tararin
- PV Ponomarova Viktoriya
- RA Radovan Ajalin
- RE Rejoice Eze
- RB Roshni Bhatia
- Selin Özgöl
- SK Serhii Krasovskiy
- SM Shakil Mahmud
- TK Tetiana Kuvaieva
- TL Tetiana Liabahova
- TO the one and only
- TA theodore andoh
- TA Tivere Akpoguma

UK

11:36 среда 13.01.2021

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Speaking: Tetiana Kuvaieva

Ludmila Me	Dmitry Palekhov Host		Abolfazl Pour Kaseb	Aghiad Hokan
Anastasiia Yakunina	Anton Isaiev	Arkhypenko Tetiana	Ayscha Akter	Dimeji
Ebili Ijeoma Sandra	Evelyn	gunia	Jialiang Long	Jonathan
Kateryna Kolesnykova	Kyrylo Zvoryhin	Lewis Mukhwana	Md. Sarwar Jahan Talukdar	MTH Tuhin
MTH Tuhin	Mukesh Saini	Natalia Kruchinina	Natalia Nechai	Nikita Mekshun

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Participants Chat

Participants (40)

- TL Tetiana Liabahova
- TA theodore andoh
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- W waki
- YD Yulia Dubiei
- Zaxap

Chat

from Dmitry Palekhov to everyone: 10:16 AM
We'll start in 2-3 mins. waiting for more people to join...

from Manana Monterde to everyone: 10:21 AM
Will the presentation be uploaded later?

from gunia to everyone: 10:22 AM
Yes

from Dmitry Palekhov to everyone: 10:22 AM
Yes, it will be

from Dmitry Palekhov to everyone: 10:22 AM
Also the video recording will be in Moodle

from Abolfazl Pour Kaseb to everyone: 10:24 AM
is the project near berlin?

To: Dmitry Palekhov (Host)

Enter chat message here

UK

12:04 среда 13.01.2021

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Ludmila Me Dmitry Palekhov Host Tetiana Kuvaieva Oleksandr Kovrov Abolfaz Pour Kaseb Aghiad Hokan

Participants (39)

- TL Tetiana Liabahova
- TA theodore andoh
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- W waki
- YD Yuliia Dubiei

Chat

from Dmitry Palekhov to everyone: 10:36 AM
We'll start in 2-3 mins, waiting for more people to join...

from Mariana Monterde to everyone: 10:21 AM
Will the presentation be uploaded later?

from gunia to everyone: 10:22 AM
Yes

from Dmitry Palekhov to everyone: 10:22 AM
Yes, it will be

from Dmitry Palekhov to everyone: 10:22 AM
Also the video recording will be in Moodle

from Abolfaz Pour Kaseb to everyone: 10:34 AM
is the project near berlin?

from Andin to everyone: 10:34 AM
Grunheide

from Mukesh Sami to everyone: 10:38 AM
Surface treatment - X

To: Dmitry Palekhov (Host)

Enter chat message here

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Participants Chat

Winter School "Sustainability in the Industrial Sector"
Cottbus, Germany – Dnipro, Ukraine

Air pollution assessment and control in industrial sector

13th January 2021

Prof. Dr. Oleksandr Kovrov
Professor of the Department of Ecology and Environmental Technologies
National Technical University Dnipro Polytechnic

UK
12:05
среда
13.01.2021

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Ludmila Me Dmitry Palekhov Host Nikita Mekshun Tetiana Kuvaieva Serhii Krasovskiy Kateryna Kolesnykova

Participants (27)

- NN Natalia Nechai
- OK Oleksandr Kovrov
- OT Oleksandr Tararin
- OC Olena Churikanova
- OD Olena Diachenko
- RB Roshni Bhatia
- SK Serhii Krasovskiy
- SM Shakil Mahmud
- SM Shakil Mahmud
- TK Tetiana Kuvaieva
- TL Tetiana Liabahova
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- YD Yuliia Dubiei
- YH Yuliia Honcharenko
- Захар

Буфер обмена (9 из 24)
Объект добавлен в буфер.

Environmental challenges for PJSC "ArcelorMittal Kryvyi Rih"

13th January 2021

Mykyta Mekshun
PhD student of the gas and oil engineering
National Technical University Dnipro Polytechnic

UK
12:57
среда
13.01.2021


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Ludmila Me Dmitry Palekhov Host Tetiana Kuvaiava Serhii Krasovskiy Kateryna Kolesnykova

Nikita Mekshun

Environmental challenges for PJSC "ArcelorMittal Kryvyi Rih"



Steel production relates to the significant environmental footprint. The main goals of PJSC ArcelorMittal Kryvyi Rih in ecological area are fulfillment of the environmental obligations and ecological safety. Due to these goals the enterprise improves its environmental management system, renovates environmental facilities and develops new methods of waste processing and storage. PJSC ArcelorMittal Kryvyi Rih is one of the first steel plants in Ukraine adopted environmental management system for the efficient management of the environmental issues. Every year the plant proves that environmental management system meets requirements of the international standard ISO 14001:2015, which testifies high reliability and productivity of environmental management system. The enterprise approved Environmental Policy, which states main principles of our attitude to the environmental protection.

All company's industrial activity is executed under Permission documents when meeting requests of international standards and Environmental Legislation of Ukraine.

Source: <https://biz.liga.net/ekonomika/all/novosti/ekologiya-4-arselormittal-zelenskiy-zayavil-chto-vopros-reshen>

Mykyta Mekshun // 13.01.2021 ntudp.com 2

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Participants (27)

- NN Natalia Nechai
- OK Oleksandr Kovrov
- OT Oleksandr Tararin
- OC Olena Churikanova
- OD Olena Diachenko
- RB Roshni Bhatia
- SK Serhii Krasovskiy
- SM Shakil Mahmud
- TK Tetiana Kuvaiava
- TL Tetiana Liabahova
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- YD Yulia Dubiei
- YH Yulia Honcharenko
- Zaxap

UK 12:58 среда 13.01.2021

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Ludmila Me Dmitry Palekhov Host Kyrylo Zvorzhyn Tetiana Kuvaiava Nikita Mekshun Kateryna Kolesnykova

7. Are people ready?

AWARENESS OF CITIZENS OF SEPARATE WASTE STREAMS AND READINESS TO CHANGE BEHAVIOR REGARDING THEM

REGARDING HAZARD FOR THE ENVIRONMENT AND HUMAN HEALTH CAUSED BY BATTERIES AND LUMINESCENT LAMPS

are not sure about the answer 3,5% know about this harm 79,3%

are not separate all such items 17,2% 22,3%

61% Throw used batteries and luminescent lamps into waste bins

74% peasants 54% city residents

the share is bigger for peasants but more than half of city residents also throw them into waste bins

Take batteries and luminescent lamps to specialized collector points

Буфер обмена (12 из 24)
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Participants Chat

Participants (22)

- KK Kateryna Kolesnykova
- MS Mukesh Saini
- NK Natalia Kruchinina
- NN Natalia Nechai
- NM Nikita Mekshun
- OK Oleksandr Kovrov
- OT Oleksandr Tararin
- OC Olena Churikanova
- OD Olena Diachenko
- PV Ponomarova Viktoriya
- TK Tetiana Kuvaiava
- TA Tivere Akpoguma
- VL Vladyslav Lisovenko
- YD Yulia Dubiei
- YH Yulia Honcharenko
- Zaxap

UK 13:31 среда 13.01.2021

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Ludmila Me Dmitry Palekhov Host Rob Atkinson -Lina Palomo Aleida López Amr

Foundations of CSR

Accountability

Ethical behaviour

Respecting stakeholder interests

Respecting human rights

Transparency

Attention to the rule of law

Awareness of international standards

ARCADIS Design & Consultancy for natural and built assets

Participants (46)

Search

- Ludmila Me
- Dmitry Palekhov Host
- Rob Atkinson
- Aleida López
- Amr
- Anastasiia Yakunina
- Andin
- Angelica Puello
- Anton Isaiev
- Arkhypenko Tetiana

Chat

from gunia to everyone: 3:46 PM
Does this CSR strategie is implied on any airline service?

from Atlcan to everyone: 4:08 PM
are low-cost airlines transparent enough in this context?

To: Everyone

Enter chat message

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Ludmila Me	Dmitry Palekhov Host	Olena Diache...	Amr	Anastasiia Yakunina
Angelica Puello	Anton Isaiev	Arkhypenko Tetiana	Asmelash Dagne	Atlcan
Ebii Ijeoma Sandra	Galo	Markus Burgmair	Md. Sarwar Jahan Talukdar	Natalia Kruchinina
Natalia Nechai	Md Golam Rabbani	Nikita Mekshun	Oleksandr Tararin	Olena Churikanova
Vladyslav Lisovenko	Yulii Dubiei	Tetiana Kuvaieva	Yulii Honcharenko	Zahidul Haque

Participants (26)

Search

- Galo
- Markus Burgmair
- Md Golam Rabbani
- Md. Sarwar Jahan Talukdar
- Natalia Kruchinina
- Natalia Nechai
- Nikita Mekshun
- Oleksandr Tararin
- Olena Churikanova
- Olena Diachenko
- Tetiana Kuvaieva
- Vladyslav Lisovenko
- Yulii Dubiei
- Yulii Honcharenko
- Zahidul Haque
- Zaki

Chat

19 января 2021 г.

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