

**Anjuman-I-Islam's
M.H. Saboo Siddik Polytechnic**



**SUBJECT NAME: ENVIRONMENTAL STUDIES (EST) -
22447**

DEPARTMENT: COMPUTER ENGINEERING

SEMESTER: FIFTH

**MICRO PROJECT TITLE: PUTIN'S ENERGY WAR WITH
EUROPE**

YEAR: 2023-24

PREPARED BY:

Names of Team Members with Roll Nos.

1. Abdurrahman Qureshi - 210451
2. Oaish Qazi - 210455
3. Shaikh Mohammed Hussain - 220486

UNDER THE GUIDANCE OF: Prof. Zafaruddin Malik



Maharashtra State Board of Technical Education Certificate

This is to certify that Mr. Abdurrahman Qureshi of Fifth Semester of Diploma in Computer Engineering of Institute M.H. Saboo Siddik Polytechnic has successfully completed Micro-project work in subject Enviornmental Studies (22447) for the academic year 2023-2024 as prescribed in the I-Scheme Curriculum.

Place:

Enrollment no:

Date:

Exam seat no:

Signature
Project Guide

Signature
H. O. D

Signature
Principal





Maharashtra State Board of Technical Education Certificate

This is to certify that Mr. Oaish Qazi of Fifth Semester of Diploma in Computer Engineering of Institute M.H. Saboo Siddik Polytechnic has successfully completed Micro-project work in subject Enviornmental Studies (22447) for the academic year 2023-2024 as prescribed in the I-Scheme Curriculum.

Place:

Enrollment no:

Date:

Exam seat no:

Signature
Project Guide

Signature
H. O. D

Signature
Principal





Maharashtra State Board of Technical Education Certificate

This is to certify that Mr. Shaikh Mohammed Hussain of Fifth Semester of Diploma in Computer Engineering of Institute M.H. Saboo Siddik Polytechnic has successfully completed Micro-project work in subject Environmental Studies (22447) for the academic year 2023-2024 as prescribed in the I-Scheme Curriculum.

Place:

Enrollment no:

Date:

Exam seat no:

Signature
Project Guide

Signature
H. O. D

Signature
Principal



ACKNOWLEDGMENT

We wish to express our profound gratitude to our guide Ms. Zafaruddin Malik who guided us endlessly in the framing and completion of the micro project. He guided us on all the main points in that micro project. We are indebted to his constant encouragement, cooperation, and help. It was his enthusiastic support that helped us in overcoming various obstacles in the micro-project.

We are also thankful to our Principal, HOD, faculty members and classmates of Computer Engineering department for extending their support and motivation in the completion of this micro-project.

Names of Team Members with Roll Nos.

1. Abdurrahman Qureshi - 210454
2. Oaish Qazi - 210455
3. Shaikh Mohammed Hussain - 220486

Micro-Project Proposal
Putin's Energy War
Against Europe

1.0 Aims/Benefits of the Micro-Project

The aim of this microproject is to investigate the impact of Putin's energy war against Europe on the environment. The project will examine the following questions:

- How has Putin's war affected the energy supply to Europe?
- What are the environmental consequences of Europe's reliance on Russian energy?
- What are the challenges and opportunities for Europe to reduce its reliance on Russian energy?

The benefits of this microproject include:

- Increased understanding of the environmental impact of Putin's energy war against Europe.
- Improved ability to assess the risks and opportunities of Europe's energy future.
- Enhanced critical thinking and research skills.

2.0 Course Outcomes Addressed

- a) Develop Public awareness about environment
- b) Select alternative energy resources for Engineering Practice
- c) Apply techniques to reduce Environmental Pollution

3.0 Proposed Methodology

- Discussion of the given topic among group members.
- Work divided among group members
- Conduct a literature review on the environmental impact of Russia's invasion of Ukraine.
- Submission of project proposal
- Analyze data on energy consumption and emissions in Europe before and after the invasion
- Compilation of content
- Editing the content as per the instructions
- Develop a report on the findings of the microproject
- Present the report to the class

4.0 Action Plan

Sr. No.	Week	Details of activity	Planned Start date	Planned Finish date	Name of Responsible Team Members
1	1 & 2	Discussion and finalization of the			All
2	3 & 4	Dividing the work among group members.			All
3	5	Submission of micro project proposal (Annexure I)			All
4	6	Collection of the information on the Topic.			All
6	7	Collection of all relevant content / materials for the execution of the project.			All
7	8 & 9	Analysis/execution of collected data/information and Preparation of prototypes/drawings/charts/graphs/tables/models/circuits/programs etc.			Oaish / Abdurrahman
8	10	Compilation of contents of project			Oaish / Abdurrahman
9	11	Compilation of weekly progress report			Oaish / Abdurrahman
10	12	Preparation of the project report (Annexure II)			All
11	13	Microproject Submission and Viva			All

5.0 Resources Required

Sr. No.	Name of Resource/material	Specifications	Quantity	Remarks
1	Online	Learning resources and various websites	1 of Each	
2	Desktop	Microsoft word, Tools with internet facility.	1 of Each	

Names of Team Members with Roll Nos.

1. Abdurrahman Qureshi - 210454
2. Oaish Qazi - 210455
3. Shaikh Mohammed Hussain - 220486

(To be approved by the concerned teacher)

Micro-Project Report

Putin's Energy War Against Europe

1.0 Rationale

This microproject seeks to investigate the environmental impact of Putin's energy tactics on Europe. It aims to assess how Europe's energy supply has been affected, the environmental consequences of its reliance on Russian energy, and the challenges and opportunities for reducing this dependence. The project is justified by the need to understand the environmental implications of Europe's energy choices, its energy security vulnerabilities, and the broader geopolitical context. Additionally, it provides an opportunity for individuals to enhance critical thinking and research skills, while contributing to public awareness about the complex interplay of energy, the environment, and geopolitics in shaping Europe's energy future.

2.0 Aims/Benefits of the Micro-Project:

The aim of this microproject is to investigate the impact of Putin's energy war against Europe on the environment. The project will examine the following questions:

- How has Putin's war affected the energy supply to Europe?
- What are the environmental consequences of Europe's reliance on Russian energy?
- What are the challenges and opportunities for Europe to reduce its reliance on Russian energy?

The benefits of this microproject include:

- Increased understanding of the environmental impact of Putin's energy war against Europe.
- Improved ability to assess the risks and opportunities of Europe's energy future.
- Enhanced critical thinking and research skills.

3.0 Course Outcomes Achieved

- a) Develop Public awareness about environment
- b) Select alternative energy resources for Engineering Practice
- c) Apply techniques to reduce Environmental Pollution

4.0 Literature Review

- The existing literature on the environmental impact of Europe's dependence on Russian energy reveals a complex issue.
- It underscores the intertwined nature of energy security, geopolitics, and environmental consequences.
- Researchers have identified how this reliance leads to increased greenhouse gas emissions and the importance of diversifying energy sources and adopting renewable energy solutions.
- Additionally, scholars have explored the policy and diplomatic dimensions of reducing this dependency.

5.0 Actual Methodology Followed

- Discussed the given topic among group members.
- Work divided among group members
- Conducted a literature review on the environmental impact of Russia's invasion of Ukraine.
- Submitted project proposal
- Analyzed data on energy consumption and emissions in Europe before and after the invasion
- Compiled the content
- Developed report on the findings of the microproject
- Presented the report to the class with viva

6.0 Actual Resources Used (Mention the actual resources used).

Sr. No.	Name of Resource/material	Specifications	Quantity	Remarks
1	Online	Learning resources and various websites	1	
2	Software	MS Word, MS PPT	1	

7.0 Outputs of the Micro-Projects**Let's recall what happened**

- On 24 February 2022, Russia invaded Ukraine resulted in the Russo-Ukrainian War which officially began in 2022.
- More than 8.2 million had fled the country by May 2023, becoming Europe's largest refugee crisis since World War II.

Background

- After the Soviet Union (USSR) dissolved in 1991, the newly independent republics of Ukraine and Russia maintained ties.
- Vladimir Putin, claimed NATO members had promised in 1990 not to let any Eastern European countries join, but this is disputed.

Russia's Underlining Plan

Even though a physical war is being fought between Russia and Ukraine, a more impactful battle is being fought by common European people.

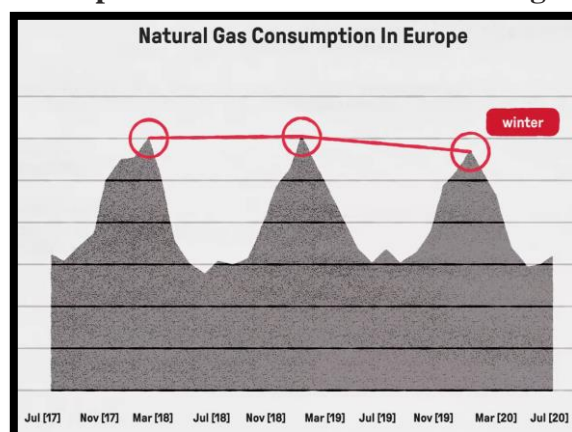
Can you guess what could it be? **Russian Gas**

Russia holds the largest natural gas reserves in the world, with more than half of them located in Siberia. Over 70% of the country's reserves are currently held by Gazprom, a state-owned company.

Natural Gas is used to make:

- Electricity
- Heat
- Fertilizers
- Chemicals
- Steel

The Graph shows when Europeans need the Russian natural gas the most:



TIMING OF THE WAR

As soon as the war began back in February, soon Europeans started boycotting Russian products most importantly import of Russian gas to Europe.

Russia has built a massive network of pipelines that directly send gas from Siberia to European countries. The European Economies soon faced the consequences of boycotting Russian products and as a result they soon realised why are they supporting Ukraine at their own expense. As result, the European Economies Plummeted. It was either Ukraine or Europeans freeze to death the coming winter. Russia's Plan was to inflict major damage at a short term so that the EU forces the president of Ukraine to cooperate with Putin. This is actually came as a double-edged sword for Russia as they have worsened their ties with their best customers.

Future

Europe is going to improve their relationship with Qatar and the Middle East. Whereas Russia is turning to South Asia and East Asia but no one will pay the price that Europe was willing to pay.

8.0 Skills Developed / Learning outcome of this Micro-Project

The following skills are developed:

- 1) **Identifying:** Identifying the problem and cause of problem in the area related and prepare project proposals before starting the project.
- 2) **Designing:** Designing of micro project with minimum required resources (low cost).
- 3) **Teamwork:** Learn to work in a team and boost individual confidence.
- 4) **Time Management:** Timely completion of micro project as scheduled.
- 5) **Problem-solving:** Develop good problem-solving skills.
- 6) **Technical Writing:** Preparing a report of the proposed plan and final report.
- 7) **Confidence:** Confidently, answer the questions asked about the project.
- 8) **Acknowledgement:** Acknowledge the help rendered by others in the success of the project.

9.0 Applications of this Micro-Project

1. Environmental Impact Assessments
2. Strategic Planning
3. Diplomatic Strategies
4. Energy Transition
5. Environmental Advocacy

(To be evaluated by the concerned teacher)

Micro Project Evaluation Sheet**Name of Student:** Abdurrahman Qureshi**Enrollment No.:** 2100020112**Name of Programme:** Computer Engineering**Semester:** Fifth**Course Title:** Environmental Studies (EST)**Code:** 22447**Title of the Micro-Project:** Putin's Energy War Against Europe**Course Outcomes Achieved: -**

- a) Develop Public awareness about environment
- b) Select alternative energy resources for Engineering Practice
- c) Apply techniques to reduce Environmental Pollution

Sr No.	Characteristics to be assessed	Poor (Marks 1 - 3)	Average (Marks 4 - 5)	Good (Marks 6 - 8)	Excellent (Marks 9- 10)	Sub Total
(A) Process and Product Assessment (Convert above total marks out of 6 Marks)						
1	Relevance to the course					
2	Literature Review/information collection					
3	Completion of the Target as per project proposal					
4	Analysis of Data and representation					
5	Quality of Prototype/Model					
6	Report Preparation					
(B) Individual Presentation/ Viva (Convert above total marks out of 4 Marks)						
7	Presentation					
8	Viva					

(A) Process and Product Assessment (6 marks)	(B) Individual Presentation & viva (4 marks)	Total Marks 10

Comments/Suggestions about teamwork/leadership/inter-personal communication (if any)

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Name and designation of the Teacher Prof. Zafaruddin Malik**Dated Signature**

Micro Project Evaluation Sheet

Name of Student: Qazi Mohd Oaish

Enrollment No.: 2100020108

Name of Programme: Computer Engineering

Semester: Fifth

Course Title: Environmental Studies (EST)

Code: 22447

Title of the Micro-Project: Putin's Energy War Against Europe

Course Outcomes Achieved: -

- d) Develop Public awareness about environment
- e) Select alternative energy resources for Engineering Practice
- f) Apply techniques to reduce Environmental Pollution

Sr No.	Characteristics to be assessed	Poor (Marks 1 - 3)	Average (Marks 4 - 5)	Good (Marks 6 - 8)	Excellent (Marks 9- 10)	Sub Total
(A) Process and Product Assessment (Convert above total marks out of 6 Marks)						
1	Relevance to the course					
2	Literature Review/information collection					
3	Completion of the Target as per project proposal					
4	Analysis of Data and representation					
5	Quality of Prototype/Model					
6	Report Preparation					
(B) Individual Presentation/ Viva (Convert above total marks out of 4 Marks)						
7	Presentation					
8	Viva					

(A) Process and Product Assessment (6 marks)	(B) Individual Presentation & viva (4 marks)	Total Marks 10

Comments/Suggestions about teamwork/leadership/inter-personal communication (if any)

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Name and designation of the Teacher Prof. Zafaruddin Malik

Dated Signature

Micro Project Evaluation Sheet

Name of Student: Shaikh Mohammed Hussain

Enrollment No.: 2200020625

Name of Programme: Computer Engineering

Semester: Fifth

Course Title: Environmental Studies (EST)

Code: 22447

Title of the Micro-Project: Putin's Energy War Against Europe

Course Outcomes Achieved: -

- g) Develop Public awareness about environment
- h) Select alternative energy resources for Engineering Practice
- i) Apply techniques to reduce Environmental Pollution

Sr No.	Characteristics to be assessed	Poor (Marks 1 - 3)	Average (Marks 4 - 5)	Good (Marks 6 - 8)	Excellent (Marks 9- 10)	Sub Total
(A) Process and Product Assessment (Convert above total marks out of 6 Marks)						
1	Relevance to the course					
2	Literature Review/information collection					
3	Completion of the Target as per project proposal					
4	Analysis of Data and representation					
5	Quality of Prototype/Model					
6	Report Preparation					
(B) Individual Presentation/ Viva (Convert above total marks out of 4 Marks)						
7	Presentation					
8	Viva					

(A) Process and Product Assessment (6 marks)	(B) Individual Presentation & viva (4 marks)	Total Marks 10

Comments/Suggestions about teamwork/leadership/inter-personal communication (if any)

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Name and designation of the Teacher Prof. Zafaruddin Malik

Dated Signature