



PPOC PROJECT

INDIA'S SOCIAL CHANGES

PROMOTING CLEAN ENERGY AND
SUSTAINABLE DEVELOPMENT IN INDIA

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ABSTRACT

PROMOTING CLEAN ENERGY AND SUSTAINABLE DEVELOPMENT IN INDIA IS IMPORTANT NOT ONLY FOR THE CURRENT GENERATION BUT ALSO THE FUTURE OF OUR COUNTRY.

IT IS IMPORTANT TO PROMOTE CLEAN ENERGY AS IT HAS MINIMAL IMPACT ON THE ENVIRONMENT AND IT DOESN'T RELEASE HARMFUL POLLUTANTS OR GREENHOUSE GASES INTO THE ATMOSPHERE. IT OFFERS VARIOUS BENEFITS WHICH INCLUDE IMPROVING AIR QUALITY, PROMOTING ENERGY SECURITY, CREATION OF NEW EMPLOYMENT OPPORTUNITIES IN THE RENEWABLE ENERGY SECTOR AND REDUCED GREENHOUSE GAS EMISSIONS.

IT INCLUDES SOURCES SUCH AS SOLAR, WIND, HYDROELECTRIC, GEOTHERMAL, AND BIOMASS ENERGY. THIS SOURCES CAN BE REPLENISHED NATURALLY AND HAVE LOW CARBON EMISSION.




ABSTRACT

WHAT IS SUSTAINABLE DEVELOPMENT?

SUSTAINABLE DEVELOPMENT IS DEVELOPMENT THAT MEETS THE NEEDS OF THE PRESENT WITHOUT COMPROMISING THE ABILITY OF FUTURE GENERATIONS TO MEET THEIR OWN NEEDS.[1]

SUSTAINABLE DEVELOPMENT IS CRUCIAL BECAUSE IT PROVIDES A METHOD FOR MEETING THE NEEDS OF THE PRESENT WITHOUT COMPROMISING THE ABILITY OF THE FUTURE GENERATIONS TO FULFILL THEIR OWN NEEDS.THESE TWO FACTORS CLEAN ENERGY AND SUSTAINABLE DEVELOPMENT HELP IN BALANCING ECONOMIC, SOCIAL AND ENVIRONMENTAL CONSIDERATIONS.

SUSTAINABLE DEVELOPMENT PRIORITIZES ENVIRONMENTAL PROTECTION, ECONOMIC GROWTH, SOCIAL INCLUSION, AND LONG-TERM PLANNING.IT EMPHASIZES MAINLY ON PROTECTING NATURAL ASSETS AND PRESERVING BIODIVERSITY.



THERE ARE FEW WAYS THROUGH WHICH ONE CAN ATTAIN THESE GOALS, THESE INCLUDE COMPULSION ON USING SUSTAINABLE VEHICLES/FUELS,TAXES ON USE OF CFCs EMITTING SYSTEMS,ETC.



PROBLEM STATEMENT

ENERGY(FUEL) IS A BURNING TOPIC IN INDIA DUE TO ITS RAPIDLY GROWING ECONOMY AND POPULATION.INDIA FACES SIGNIFICANT STRUGGLES IN PROVIDING RELIABLE AND AFFORDABLE ENERGY TO ITS CITIZENS, PARTICULARLY IN RURAL AREAS.FOLLOWING ARE SOME OF THE MAJOR CONCERN ON WHICH THIS POLICY WILL MAINLY FOCUS.

1) NEARLY 250 MILLION PEOPLE IN INDIA LACK ACCESS TO ELECTRICITY, AND MANY MORE SUFFER FROM FREQUENT POWER OUTAGES

2)DEEN DAYAL UPADHYAYA GRAM JYOTI YOJANA (DDUGJY) IS A PROGRAM LAUNCHED BY THE GOVERNMENT OF INDIA IN 2015 TO PROVIDE 24-HOUR POWER SUPPLY TO RURAL HOUSEHOLDS.EVEN THOUGH THE POLICY IS MADE ITS IMPLEMENTATION IS NOT AS PER THE PLAN. [2]




PROBLEM STATEMENT



3)THE CENTRAL POLLUTION CONTROL BOARD (CPCB) IS A STATUTORY ORGANIZATION UNDER THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE OF THE GOVERNMENT OF INDIA. CPCB HAS CONDUCTED SEVERAL STUDIES AND RELEASED REPORTS ON AIR POLLUTION IN DELHI, WHICH IS ONE OF THE MOST POLLUTED CITIES IN THE WORLD. THE REPORTS INDICATE THAT THE MAJOR SOURCES OF AIR POLLUTION IN DELHI INCLUDE VEHICULAR EMISSIONS, INDUSTRIAL EMISSIONS, AND DUST FROM CONSTRUCTION[3]

4)ACCORDING TO THE WORLD AIR QUALITY REPORT 2020, 21 OF THE WORLD'S 30 MOST POLLUTED CITIES ARE IN INDIA. AIR POLLUTION IN INDIA IS ESTIMATED TO CAUSE OVER 1.6 MILLION PREMATURE DEATHS EVERY YEAR AND ROAD RESURFACING ACTIVITIES.[4]

PROBLEM STATEMENT



5)INDIA GENERATES AROUND 277 MILLION TONNES OF MUNICIPAL SOLID WASTE EVERY YEAR, WITH ONLY AROUND 30% OF THIS BEING TREATED AND DISPOSED OF PROPERLY.[5]

6)AROUND 600 MILLION PEOPLE IN INDIA FACE HIGH TO EXTREME WATER STRESS, ACCORDING TO A REPORT BY NITI AAYOG, THE INDIAN GOVERNMENT'S POLICY THINK-TANK.[6]

7)INDIA IS THE THIRD-LARGEST EMITTER OF GREENHOUSE GASES IN THE WORLD, WITH THE ENERGY SECTOR ACCOUNTING FOR AROUND 70% OF THE COUNTRY'S EMISSIONS. THE MAJORITY OF INDIA'S ENERGY COMES FROM FOSSIL FUELS, WITH RENEWABLE ENERGY SOURCES ACCOUNTING FOR ONLY AROUND 10% OF THE TOTAL ENERGY MIX.[7]



IDEA DETAILS

- SPECIFIC BEHAVIOUR THAT NEEDS TO BE TRIGGERED
 - 1) PROMOTING THE USE OF PUBLIC TRANSPORTATION AND ENCOURAGING THE ADOPTION OF ELECTRIC VEHICLES.
 - 2) IMPLEMENTING STRICTER EMISSION STANDARDS FOR VEHICLES AND INDUSTRIAL SOURCES.
 - 3) CONTROLLING DUST EMISSIONS FROM CONSTRUCTION AND ROAD DEVELOPMENT ACTIVITIES.
 - 4) ENCOURAGING THE USE OF CLEANER FUELS SUCH AS NATURAL GAS AND RENEWABLE ENERGY SOURCES.
 - 5) INCREASING PUBLIC AWARENESS ABOUT THE HEALTH IMPACTS OF AIR POLLUTION AND PROMOTING INDIVIDUAL ACTIONS TO REDUCE EMISSIONS



IDEA DETAILS

- TARGET AUDIENCE

THE TARGET AUDIENCE FOR PROMOTING CLEAN ENERGY AND SUSTAINABLE DEVELOPMENT IN INDIA IS NOT PRECISE BUT CAN MAINLY BE DIVIDED INTO FOLLOWING GROUPS

- 1) GOVERNMENT OFFICIALS AND LEGISLATIVE BODIES
- 2) NGOs AND OTHER SOCIAL WORKING ORGANISATIONS
- 3) EDUCATIONAL INSTITUTIONS FOR CREATING AWARENESS
- 4) INDUSTRIALISTS AND BUSINESS LEADERS
- 5) COMMUNITY AS A WHOLE AND INDIVIDUALS



TESTING PLAN

THIS POLICY CAN BE IMPLEMENTED BY FOLLOWING MAJORS WHICH ARE BASED ON THE PROBLEM STATEMENTS AND RELATED ISSUES.

1)PUBLIC-PRIVATE PARTNERSHIP- GOVERNMENT CAN COLLABORATE WITH PRIVATE COMPANIES TO ENSURE ELECTRICITY IN RURAL AREAS

2)GOVERNMENT CAN SET ENERGY EFFICIENCY STANDARDS FOR APPLIANCES AND EQUIPMENT TO PROMOTE ENERGY CONSERVATION AND REDUCE ENERGY DEMAND

3)EXISTING PLANS SHOULD BE REVAMPED AND IMPLEMENTED WITH PROPER REGULATIONS



TESTING PLAN

4) GOVERNMENT CAN DECIDE AND ENFORCE STRICT EMISSION STANDARDS FOR POWER PLANTS, TRANSPORTATION AND INDUSTRIES, PRIORITISING THE USE OF CLEANER TECHNOLOGIES AND FUELS TO REDUCE AIR POLLUTION.

5) DECISION MAKING BODIES CAN PROMOTE WASTE TO ENERGY PROCEDURE WHICH WILL ENSURE THE MINIMISATION OF WASTE IN LANDFILLS AND IN RETURN PROVIDE WITH RENEWABLE SOURCE OF ENERGY

6) TAXES CAN BE IMPOSED ON CARBON EMITTING INDUSTRIES ALSO GOVERNMENT CAN PROMOTES TECHNOLOGIES SUCH AS CARBON CAPTURING AND STORAGE (CCS), ETC.

7) EDUCATIONAL AWARENESS



CONCLUSION



PROMOTING CLEAN ENERGY AND SUSTAINABLE DEVELOPMENT IN INDIA IS THE NEED OF THE DAY. EVEN THOUGH THERE ARE A FEW OBSTACLES MAINLY LACK OF FINANCIAL SOURCES AND COOPERATION BETWEEN LAW MAKING AND IMPLEMENTING BODIES, THIS ISSUE CAN BE TACKLED WITH PROPER AWARENESS AND RULES.

THIS POLICY IS NECESSARY FOR INDIA'S FUTURE. BY ENSURING THE IMPLEMENTATION OF THIS POLICY ONE CAN CREATE A WORLD WITH EQUAL RESOURCES AND HEALTHY LIFESTYLE.



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THANK YOU!



“BE A PART
OF THE
SOLUTION
Not PART
OF THE
Pollution”

~ The Fresh Quotes ~