

WORLD MAP

MOTHER EARTH BEFORE GLOBAL WARMING 1982

MORE ICE GLACIERS

MORE FORESTRY

LESS SCARS

ANTARTICA ●

2018



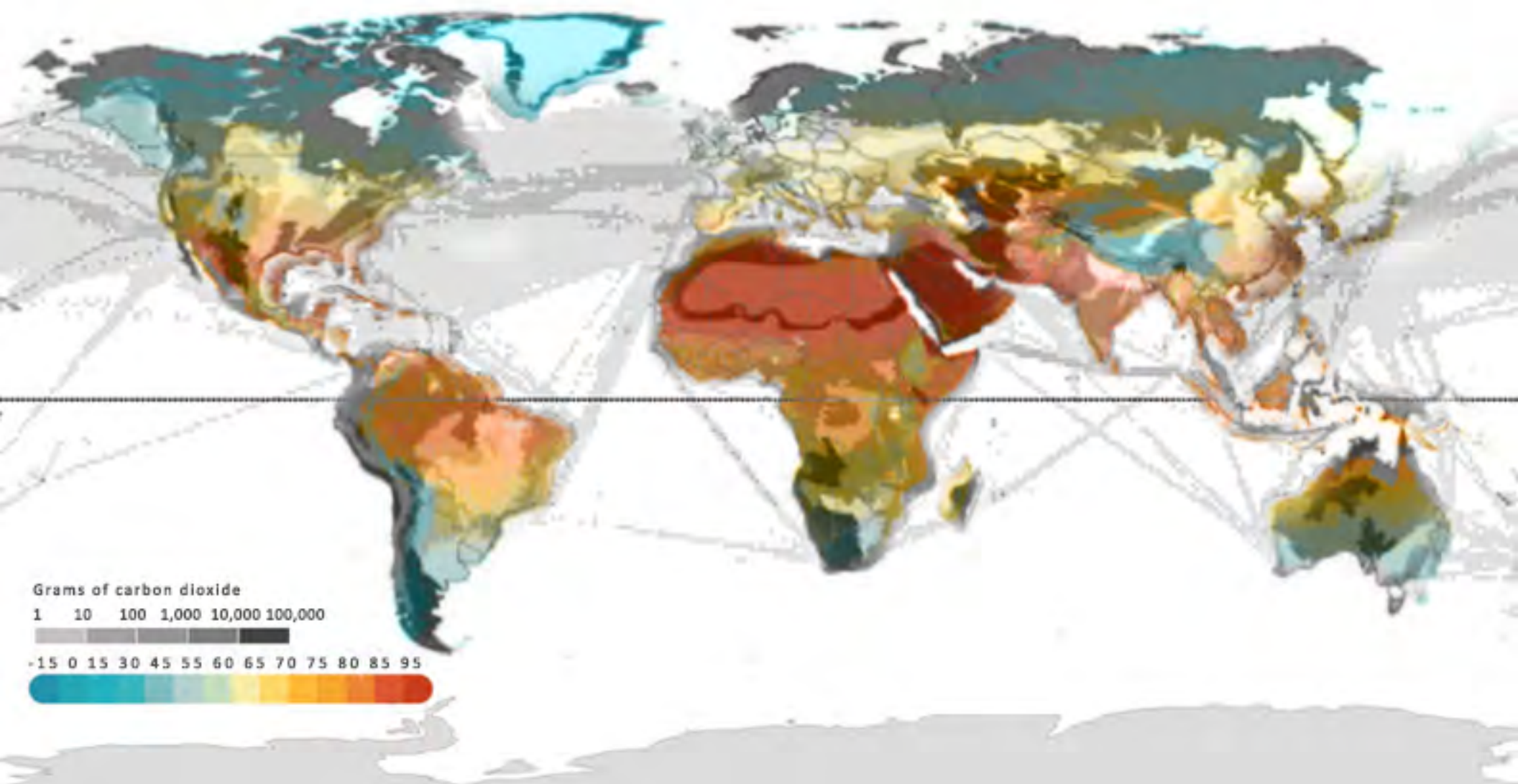
PLANET EARTH

FOSSIL FUEL INDUSTRIES EMIT GREENHOUSE GASES



WORLD MAP

GREENHOUSE GASES HEAT UP THE EARTH



PLANET EARTH

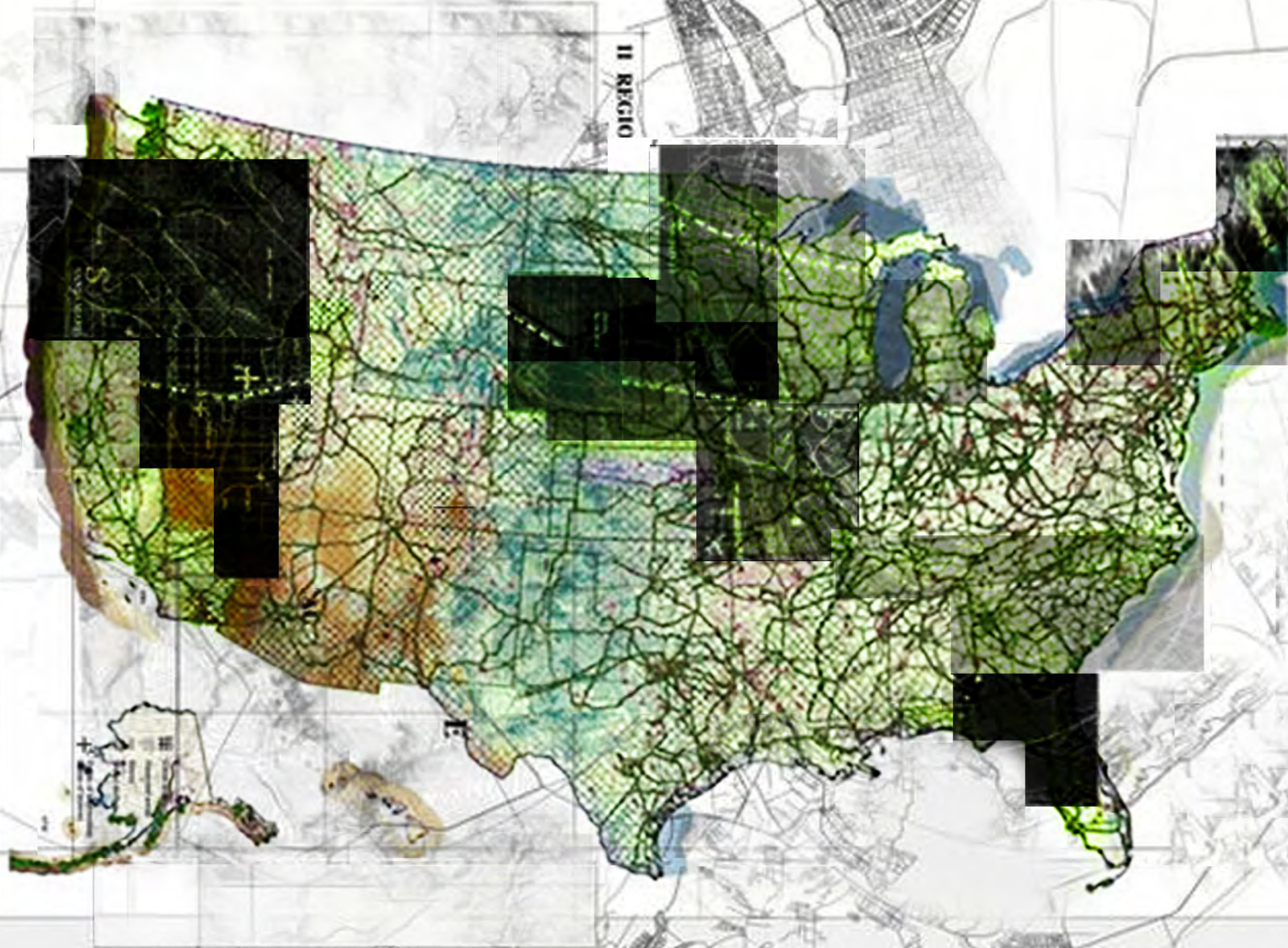
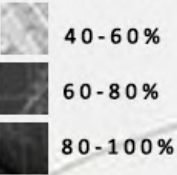
POTENTIAL HARM FROM CO2 VERSUS IMPROVEMENT FROM RENEWABLE



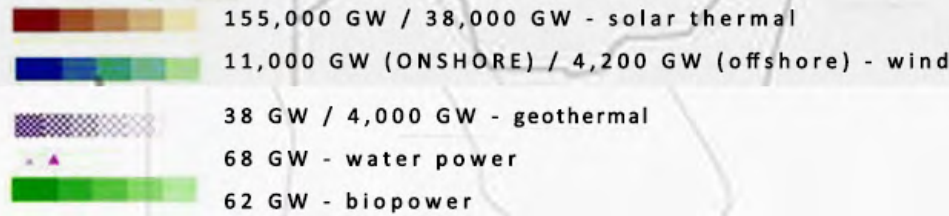
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RENEWABLE ENERGY SOURCES ACROSS US

Renewable energy production by state



Potential renewable energy



us Don't
here your
AR Starts!

CONFLICT PERCEPTION

OF A FOSSIL FUEL INDUSTRY EMPLOYEE



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THERE ARE RENEWABLE ENERGY JOBS LOCATED IN PROXIMITY TO THE FOSSIL FUEL INDUSTRY



Fossil fuel industries

- crude
- NGL
- refined
- CO2

top 100 US natural gas fields by reserves

- wind power industry
- biomass industry

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WINDMILLS ACROSS THE US



5,000m 2,000m 1,000m 500m 200m 100m sea beige level

windmill locations

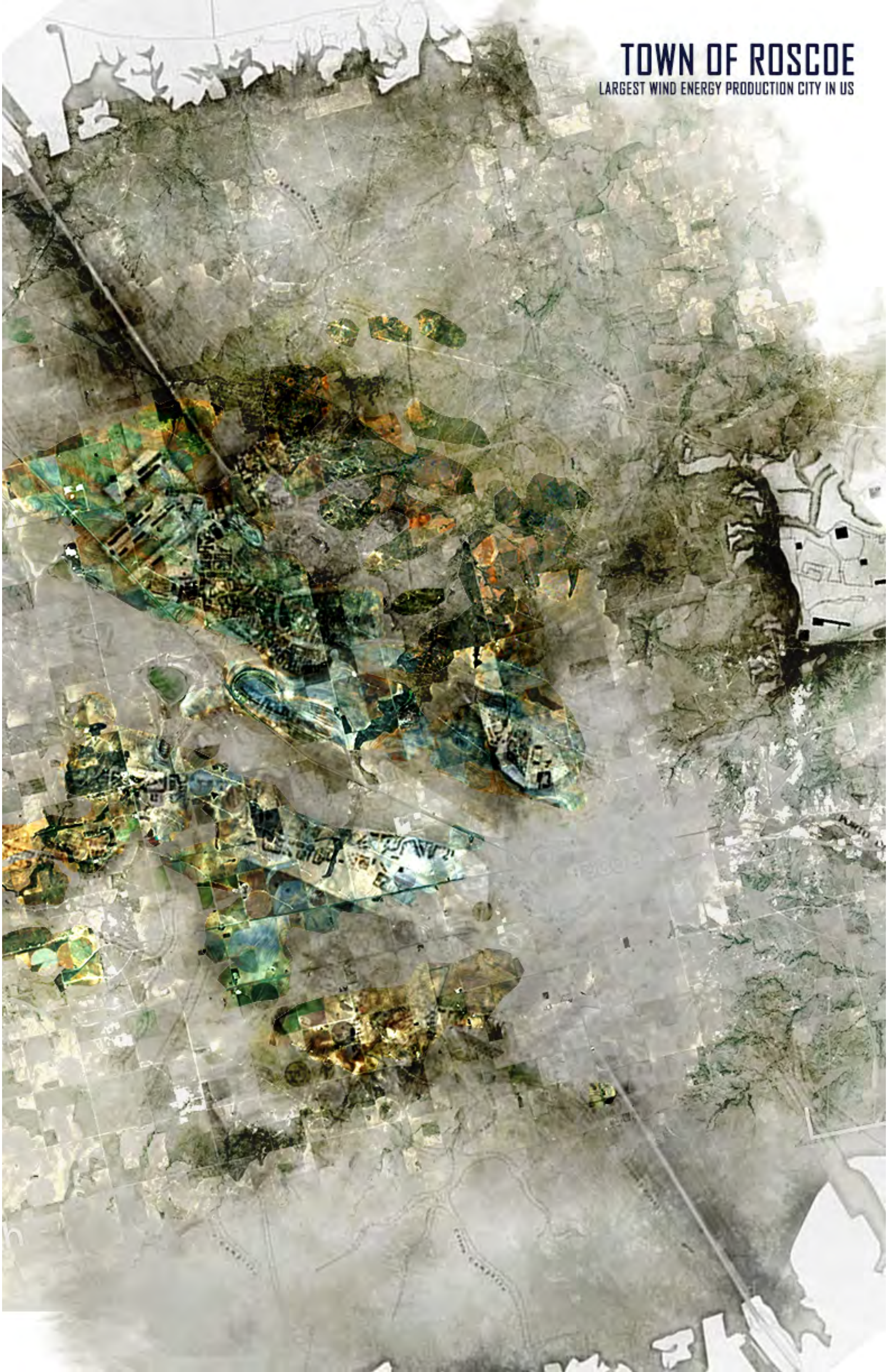
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WINDMILL TURBINE INNDUSTRY IS LARGE AND GRWOING



TOWN OF ROSCOE

LARGEST WIND ENERGY PRODUCTION CITY IN US



LAND WINDMILL

INDUSTRIAL REPAIR WORKERS CAN EASILY TRANSITION TO WINDMILL REPAIR



TRANSITION PROCESS

FOR A FOSSIL FUEL INDUSTRY EMPLOYEE



JOBS, NATURE, & WASTE

POTENTIAL ISSUES OF A SOLUTION



TRANSITION TO OFFSHORE

MANY ISSUES PRESENTED BY LANDWINDMILLS WILL BE ADDRESSED



OFFSHORE WINDMILL

NO ENVIRONMENTAL DISTURBANCE DUE TO REMOTE LOCATION



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DEMAND FOR POWER AND POTENTIAL OFFSHORE WINDPOWER CORRELATION



EACH DOT = 7500 PEOPLE

Wind Power Classification				
Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m^2	Wind Speed* at 50 m m/s	Wind Speed* at 50 m mph
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7
4	Good	400 - 500	7.0 - 7.5	15.7 - 16.8
5	Excellent	500 - 600	7.5 - 8.0	16.8 - 17.9
6	Outstanding	600 - 800	8.0 - 8.8	17.9 - 19.7
7	Superb	800 - 1600	8.8 - 11.1	19.7 - 24.8

*Wind speeds are based on a Weibull k value of 2.0

ECOFRIENDLY

NO DISTURBANCE TO BIRD MIGRATORY PATTERNS OR AQUATIC LIFE



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POTENTIAL OFFSHORE WIND TURBINES

