INSERT INTO Energy\_Producers (Name, Type\_of\_Energy, Location, Capacity\_MW, Contact\_Info) VALUES

('SolarCity', 'Solar', 'Nairobi', 150.5, 'info@solarcity.co.ke'),

('KenGen Hydro', 'Hydro', 'Naivasha', 300.0, 'contact@kengen.co.ke'),

('Wind Power Africa', 'Wind', 'Turkana', 200.0, 'support@windpower.co.ke'),

('EcoWave', 'Wave', 'Mombasa', 100.0, 'info@ecowave.co.ke');

INSERT INTO Energy\_Consumers (Name, Type, Location, Energy\_Usage\_kWh, Billing\_Info) VALUES

('ABC Industries', 'Industrial', 'Thika', 50000.0, 'abc@industries.com'),

('Green Apartments', 'Residential', 'Nairobi', 2500.0, 'green@apartments.co.ke'),

('Downtown Mall', 'Commercial', 'Mombasa', 10000.0, 'billing@downtownmall.co.ke'),

('XYZ Manufacturing', 'Industrial', 'Kisumu', 60000.0, 'xyz@manufacturing.com');

INSERT INTO Energy\_Sources (Type\_of\_Energy, Availability\_Hours, Environmental\_Impact\_Score, Cost\_Per\_Unit) VALUES

('Solar', 2000, 1.5, 10.50),

('Wind', 3000, 2.0, 8.75),

('Hydro', 4000, 1.0, 5.00),

('Wave', 1500, 3.0, 12.25),

('Fossil Fuels', 5000, 5.0, 15.00);

INSERT INTO Energy\_Distribution\_Networks (Name, Coverage\_Area, Type, Capacity\_MW, Maintenance\_Schedule, Efficiency\_Rating) VALUES

('National Grid', 'Countrywide', 'Grid', 5000.0, 'Monthly', 0.95),

('Off-Grid Solutions', 'Rural Areas', 'Off-Grid', 500.0, 'Quarterly', 0.80),

('Urban Grid', 'Nairobi and Mombasa', 'Grid', 2000.0, 'Bi-Monthly', 0.90),

('Coastal Network', 'Coastal Region', 'Grid', 800.0, 'Monthly', 0.88);

INSERT INTO Energy\_Storage\_Facilities (Type, Capacity\_MWh, Location, Operational\_Status, Efficiency) VALUES

('Battery', 100.0, 'Nairobi', 'Operational', 0.85),

('Pumped Hydro', 500.0, 'Naivasha', 'Operational', 0.90),

('Thermal Storage', 300.0, 'Turkana', 'Under Construction', 0.80),

('Compressed Air', 200.0, 'Mombasa', 'Operational', 0.75);

INSERT INTO Government\_Policies\_Regulations (Name, Type, Effective\_Date, Affected\_Regions, Impact\_on\_Affordability\_Clean\_Energy) VALUES

('Renewable Energy Subsidy', 'Subsidy', '2023-01-01', 'National', 'High'),

('Carbon Tax', 'Tax', '2022-06-15', 'Industrial Zones', 'Moderate'),

('Green Energy Mandate', 'Regulation', '2024-03-20', 'Urban Areas', 'Significant'),

('Energy Efficiency Tax Credit', 'Subsidy', '2023-09-01', 'National', 'Low');

INSERT INTO Renewable\_Energy\_Projects (Name, Type, Location, Capacity\_MW, Start\_Date, Status, Funding\_Sources) VALUES

('SunPower Project', 'Solar Farm', 'Garissa', 100.0, '2022-01-10', 'Completed', 'Government, Private Investors'),

('Turkana Wind Park', 'Wind Park', 'Turkana', 150.0, '2021-03-15', 'Ongoing', 'Private Investors, Foreign Aid'),

('HydroNova', 'Hydro Plant', 'Kericho', 200.0, '2020-06-05', 'Planned', 'Government'),

('Coastal Wave Project', 'Wave Energy', 'Mombasa', 50.0, '2023-07-25', 'Ongoing', 'Private Investors');

INSERT INTO Energy\_Prices (Energy\_Type, Region, Price\_Per\_Unit, Date, Price\_Trend, Subsidy\_Info) VALUES

('Solar', 'National', 10.50, '2024-08-01', 'Stable', 'None'),

('Wind', 'Northern Region', 8.75, '2024-08-01', 'Decreasing', 'Tax Credit'),

('Hydro', 'Western Region', 5.00, '2024-08-01', 'Increasing', 'None'),

('Wave', 'Coastal Region', 12.25, '2024-08-01', 'Stable', 'None'),

('Fossil Fuels', 'National', 15.00, '2024-08-01', 'Increasing', 'None');

INSERT INTO Environmental\_Impact\_Assessments (Project\_Facility\_ID, Date, Type\_of\_Impact, Mitigation\_Measures, Compliance\_Status) VALUES

(1, '2023-05-15', 'Emissions', 'Install Solar Panels', 'Compliant'),

(2, '2023-07-10', 'Land Use', 'Reforestation Program', 'Non-Compliant'),

(3, '2023-08-20', 'Water Use', 'Water Recycling Systems', 'Compliant'),

(4, '2023-09-25', 'Emissions', 'Install Filters', 'Pending');

INSERT INTO Energy\_Efficiency\_Programs (Name, Target\_Audience, Description, Start\_Date, Success\_Metrics) VALUES

('Residential Solar Initiative', 'Residential', 'Promote rooftop solar installations', '2022-04-01', 'Energy Savings, Participation Rate'),

('Commercial Efficiency Drive', 'Commercial', 'Encourage energy-efficient appliances', '2023-02-10', 'Participation Rate, Energy Savings'),

('Industrial Efficiency Program', 'Industrial', 'Reduce energy consumption in manufacturing', '2021-09-05', 'Energy Savings'),

('National Green Energy Program', 'National', 'Promote green energy adoption across all sectors', '2023-06-01', 'Participation Rate, Energy Savings');