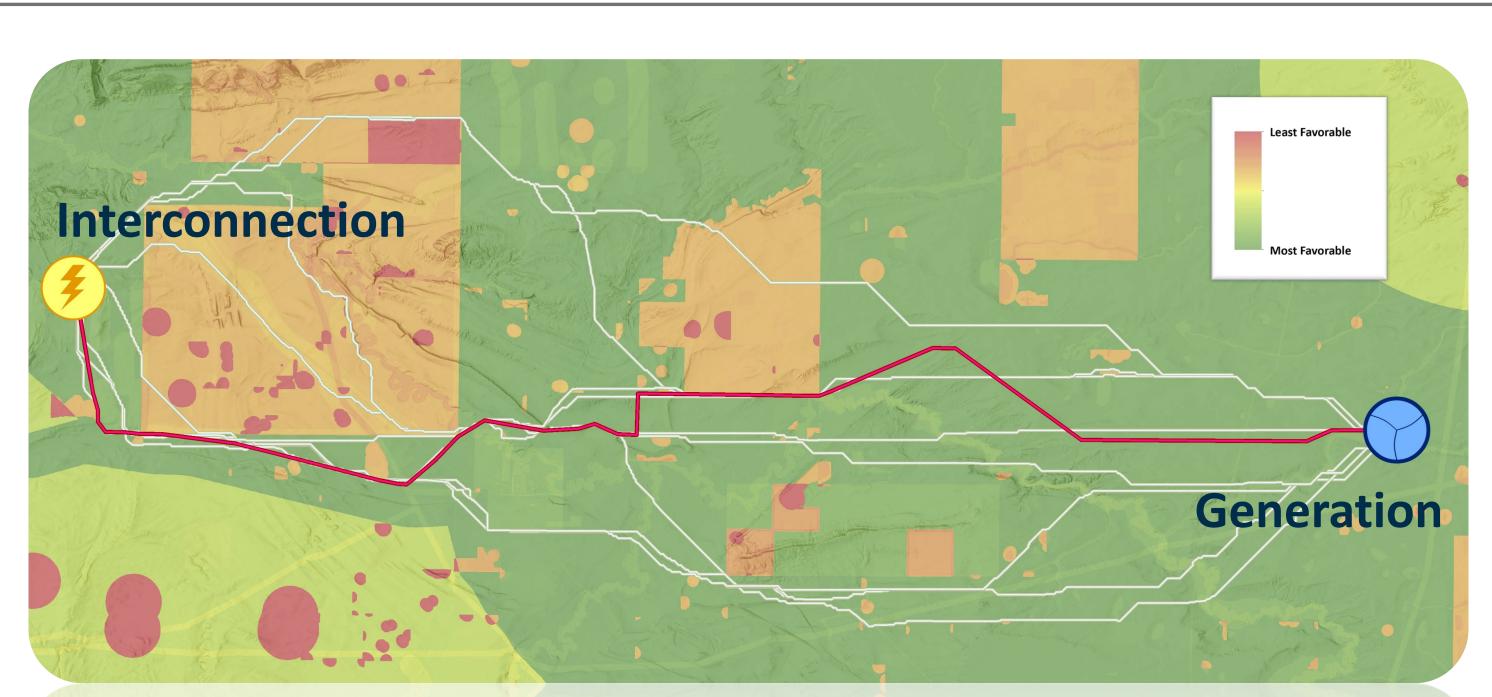
# Use GIS modeling to SITE your RENEWABLE ENERGY projects.

# **Spatial Modeling for Renewable Prospecting and Siting**



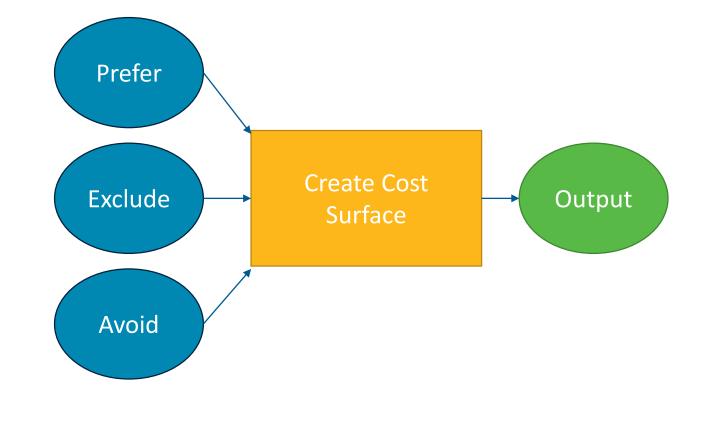
Iterative alternatives lead to a viable route

# Introduction

GIS analysis is essential to siting and routing planning for renewable development projects and associated infrastructure. GIS modeling and tools can provide unique insights to assessing the viability of wind, solar, hydrogen, transmission lines and other project components at local, regional, and national levels.

### **Objective**

Industry faces the task of finding lands with the best opportunity for renewable development.



### **Siting Opportunities**

- High quality energy resources
- Jurisdiction/land use
- Topography
- Existing infrastructure

## Siting Exclusions/Avoidance

- Infrastructure
- Jurisdiction/land use
- Natural resources
- Historic and cultural resources

### **Applications**

- Wind/Solar/Green
  hydrogen/Battery storage project
  siting
- Transmission, pipeline, linear feature routing
- Other land use project siting (parks, facilities, etc.)

**BRENT READ** | Senior GIS Analyst +1.970.372.3907

Brent.Read@icf.com

### **GIS Modeling Approach**

- 1. Identify GOALS
- 2. Gather data
- 3. Identify opportunities/ exclusions/avoidance
- 4. **BUILD** GIS Model
- 5. Resource **WEIGHTING**
- 6. Iterative refinement
- 7. Generates **ALTERNATIVES**

Siting models are **CUSTOMIZABLE** to individual project and client needs.

# **Determining Suitable Locations**

