

Regional Decarbonization Framework

**Regional Decarbonization
and Green Jobs Plan**

Energy Sector Workshop

April 7, 2022



Learning from Our Past

There is harmony between land, nature and its people. While true for all neighborhoods, one specific group of people have endured displacement from their lands, persecution, and systemic oppression and deserve special recognition today.

As we begin our journey of regional decarbonization, we acknowledge the unceded territory and homelands of the 17 tribal nations in the region – the most in any county in the United States.

Kumeyaay/Diegueño

Luißeño

Cupeño

Cahuilla

Regional Decarbonization Framework



Integrated Regional Decarbonization Framework



**Technical Report
led by UC San Diego**

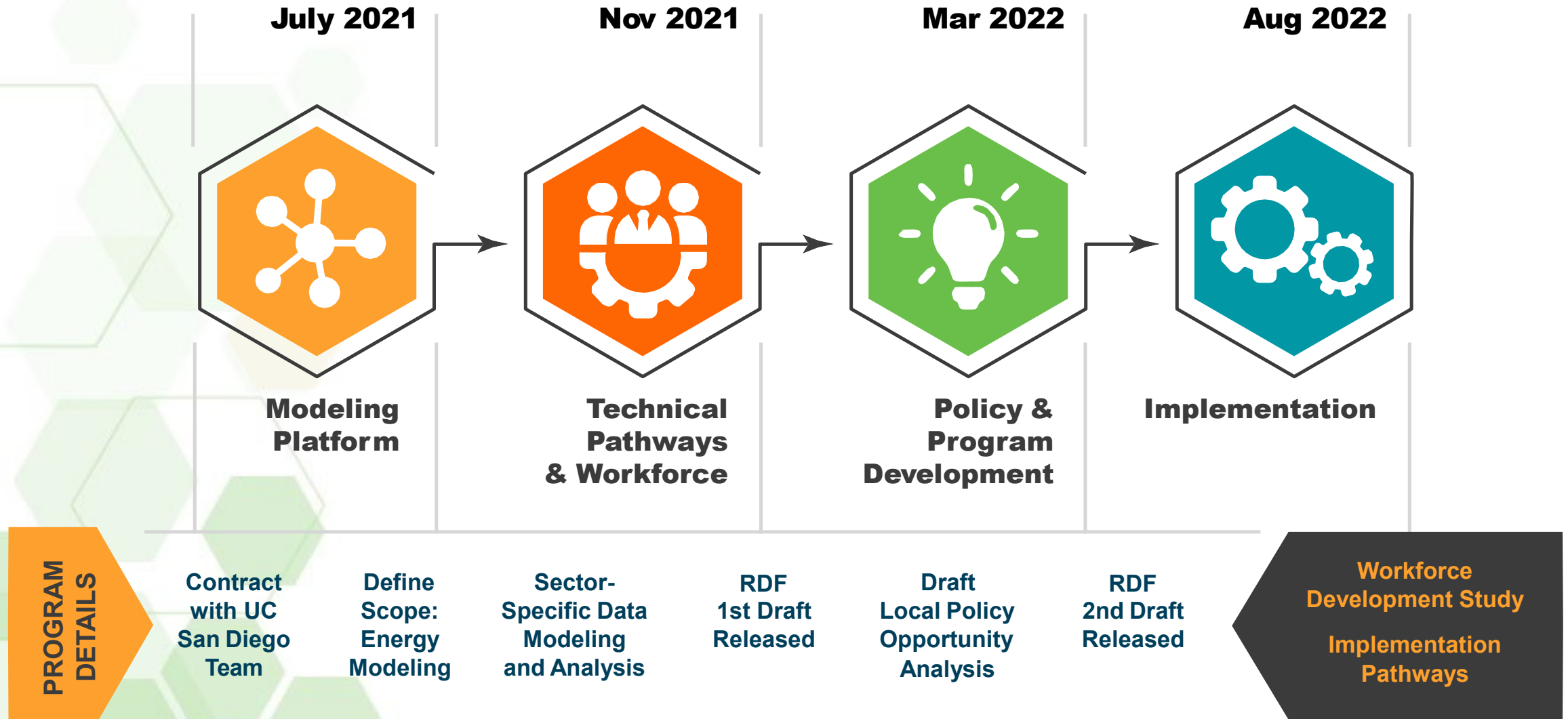


**Workforce Development
Study by Inclusive
Economics**



**Implementation
Pathways**

Timeline



Initial Comment Period

Vice Chair Vargas's staff

Climate Action Campaign

J. Whalen Associates Inc.

California Air Resources Board

Boulevard Planning Group

Campo Lake Morena CPG

Jacumba Community Sponsor Group

Sierra Club of San Diego

Southwest Wetlands Interpretive Association

Center for Community Energy

San Diego 350

Building Industry Association of San Diego County

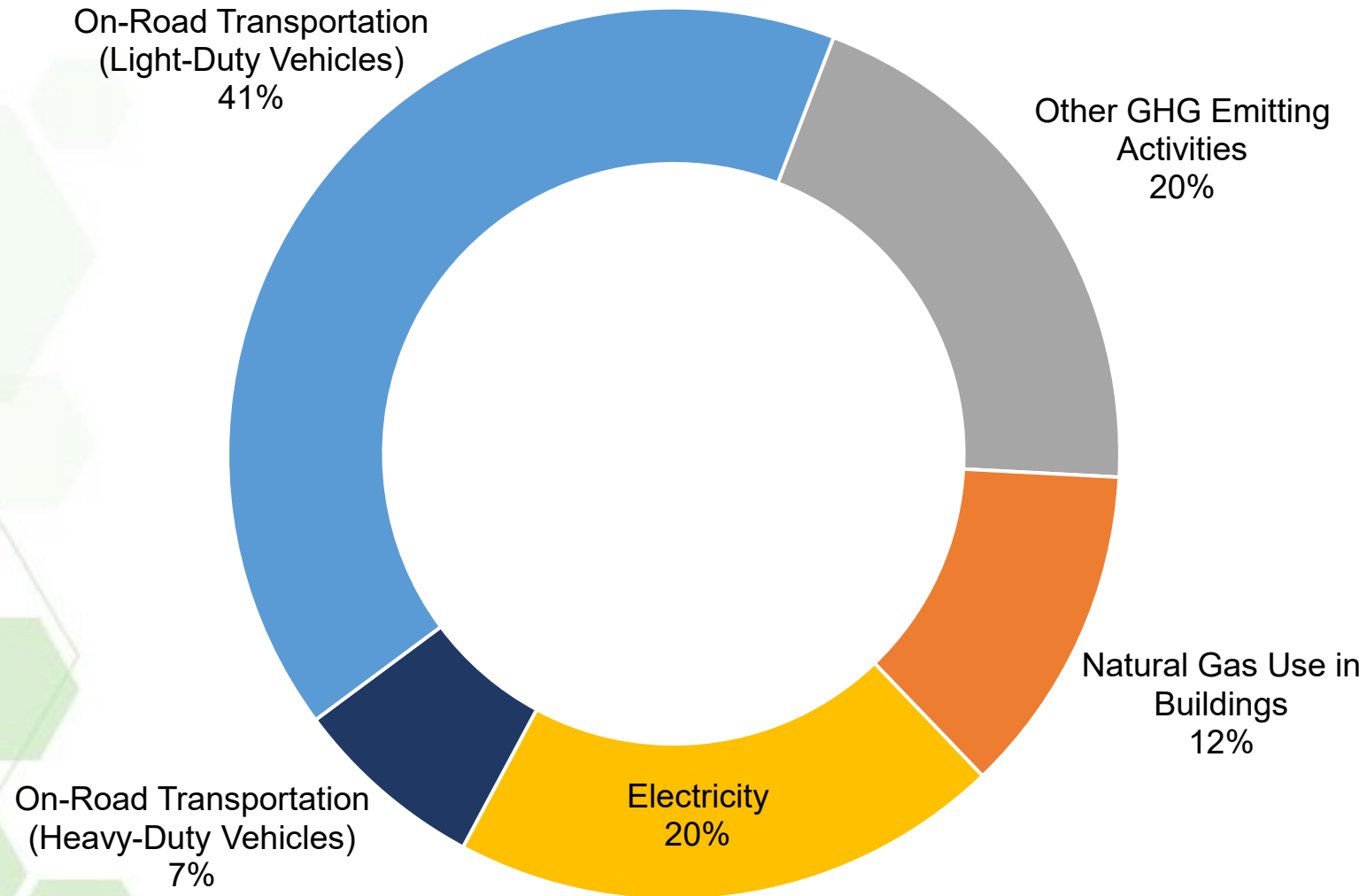
UA Local 230

IBEW Local 569

San Diego Regional Policy & Innovation Center

Individual members of the San Diego regional community

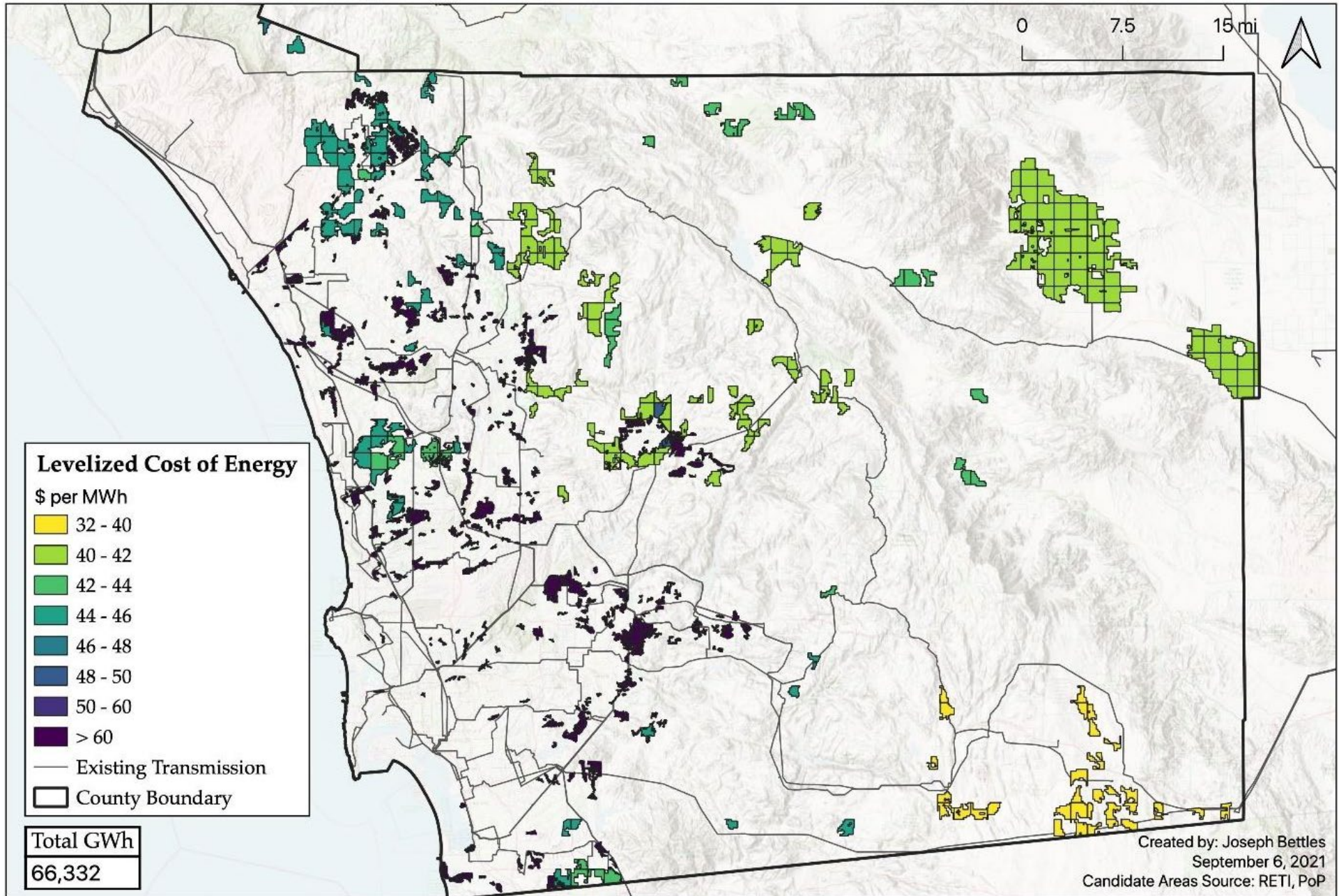
Regional Emissions of Greenhouse Gases, Measured in Carbon Dioxide Equivalent



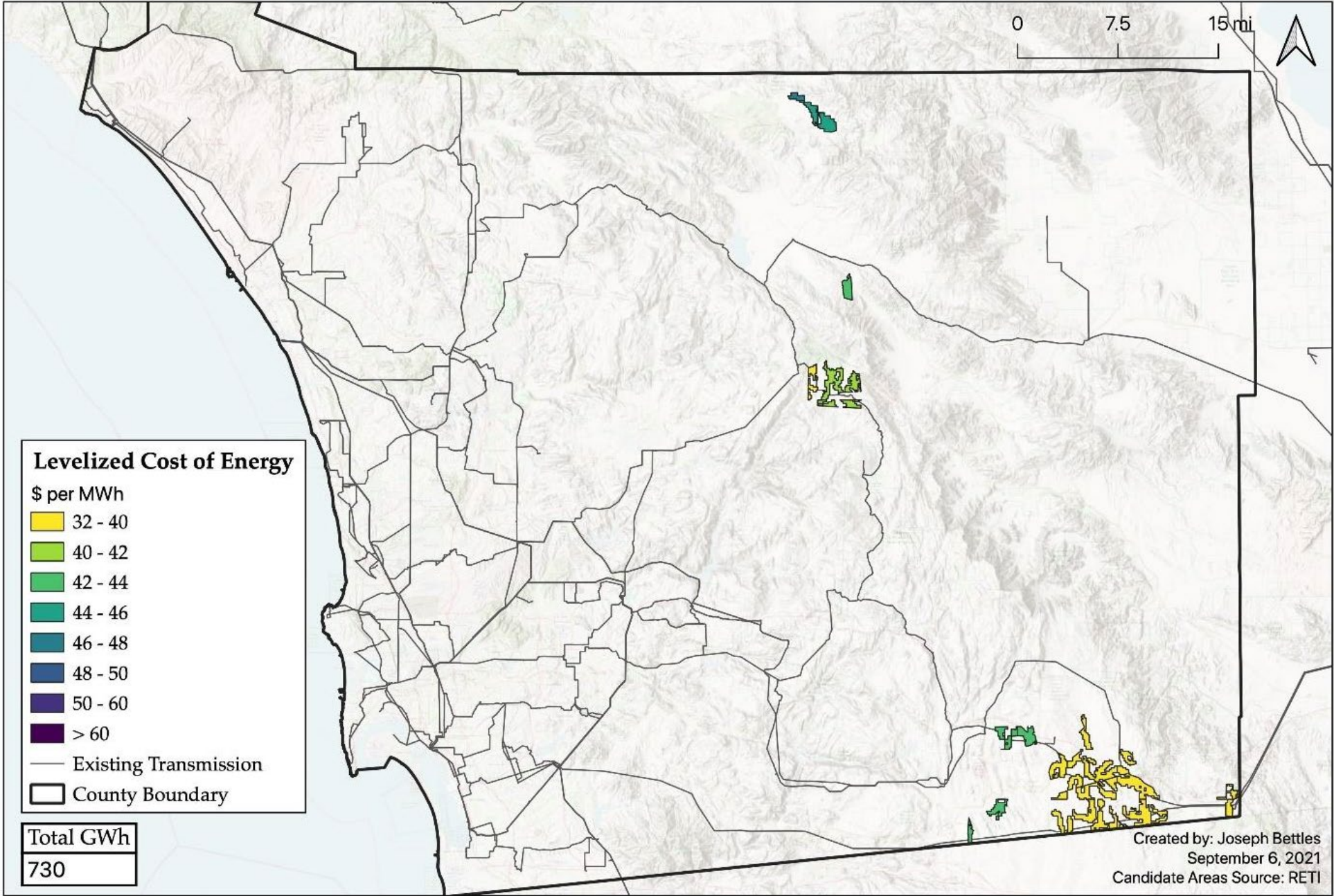
Four Decarbonization Pathways



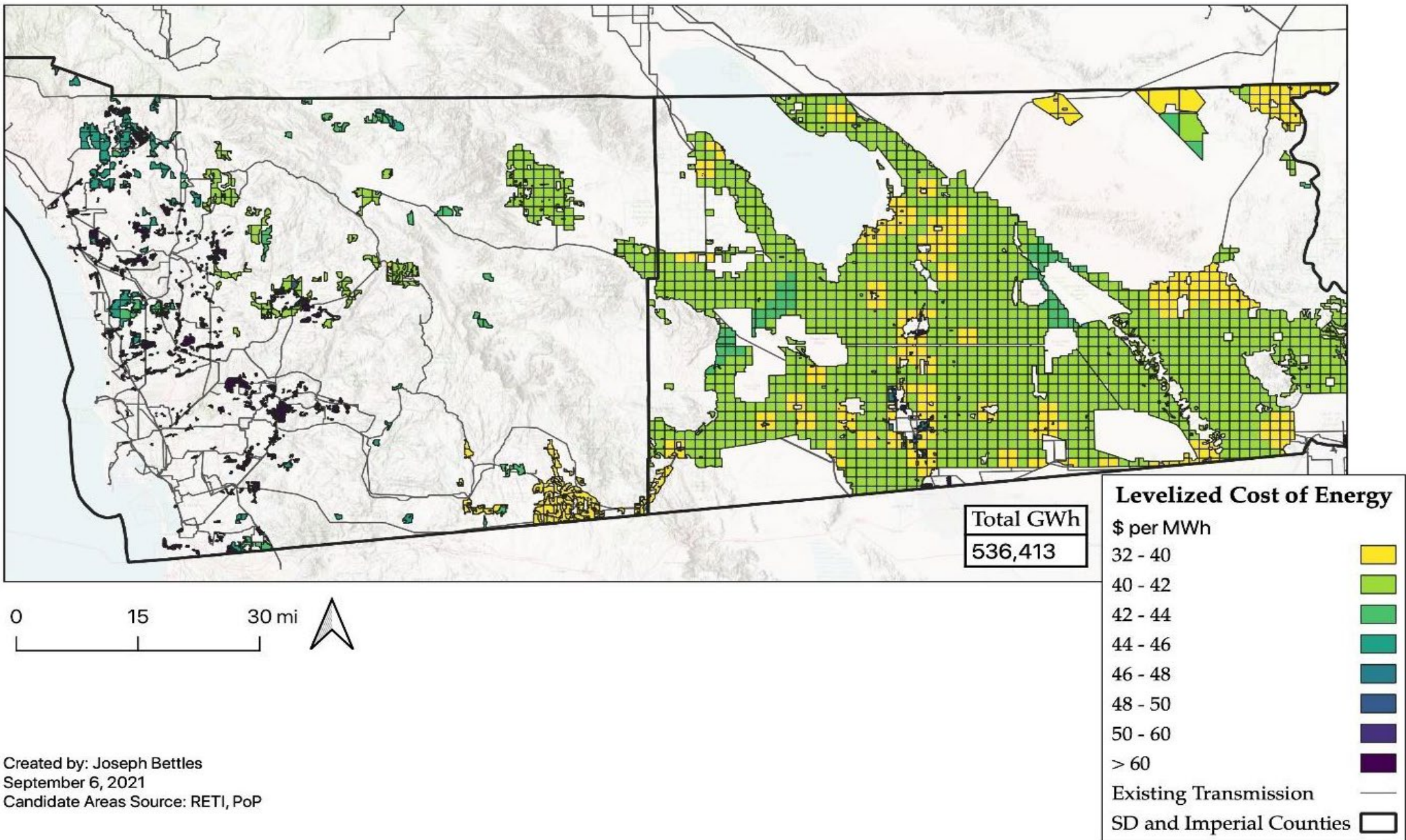
San Diego Region's Solar Technoeconomic Potential



San Diego Region's Onshore Wind Technoeconomic Potential



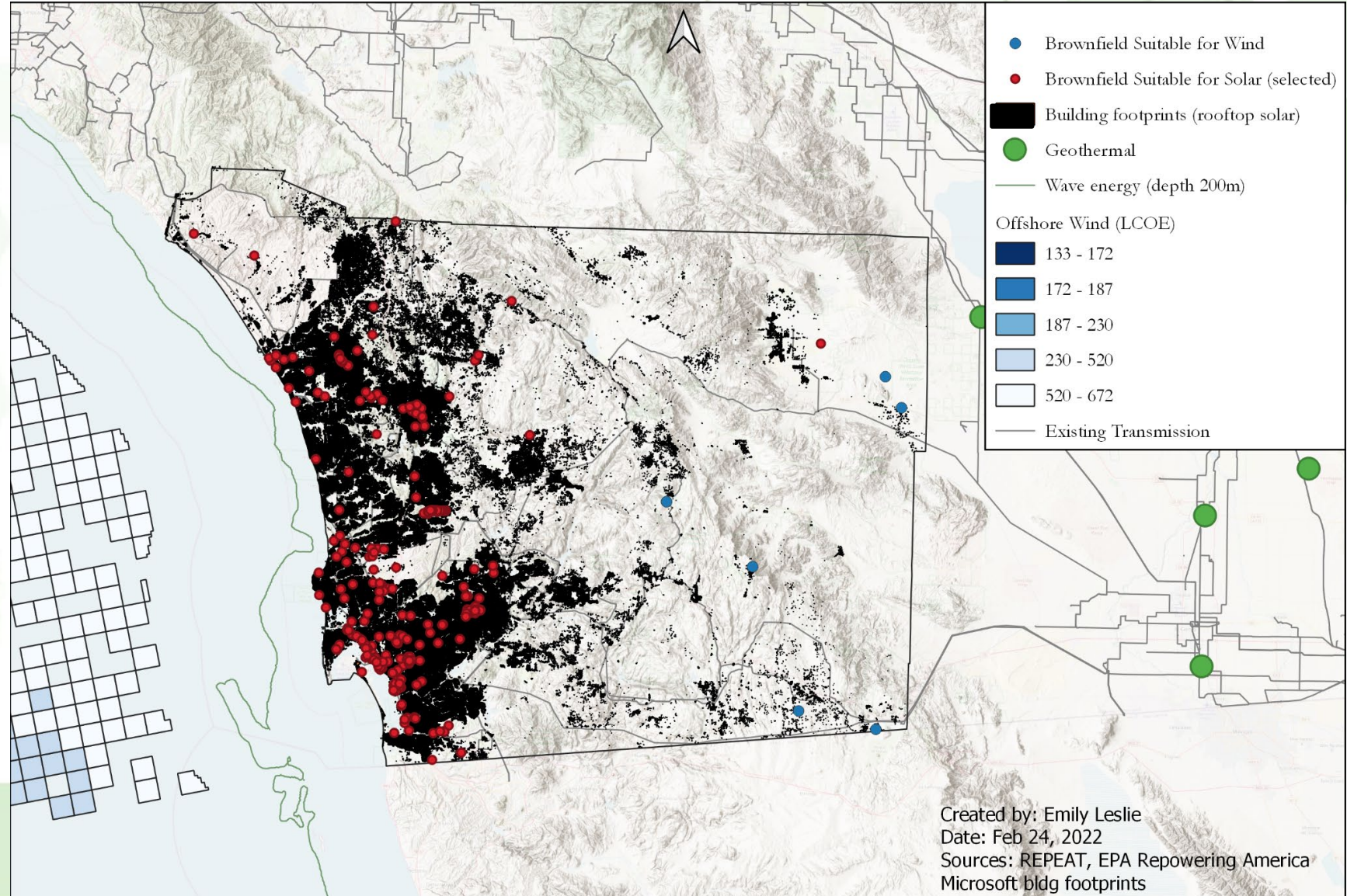
San Diego and Imperial Regions' Solar and Onshore Wind Technoeconomic Potential



Created by: Joseph Bettles
September 6, 2021
Candidate Areas Source: RETI, PoP

San Diego and Imperial Regions' Additional Renewable Energy Technoeconomic Potential

- ◆ Brownfield wind
- ◆ Brownfield solar
- ◆ Rooftop solar
- ◆ Geothermal
- ◆ Wave energy
- ◆ Offshore wind



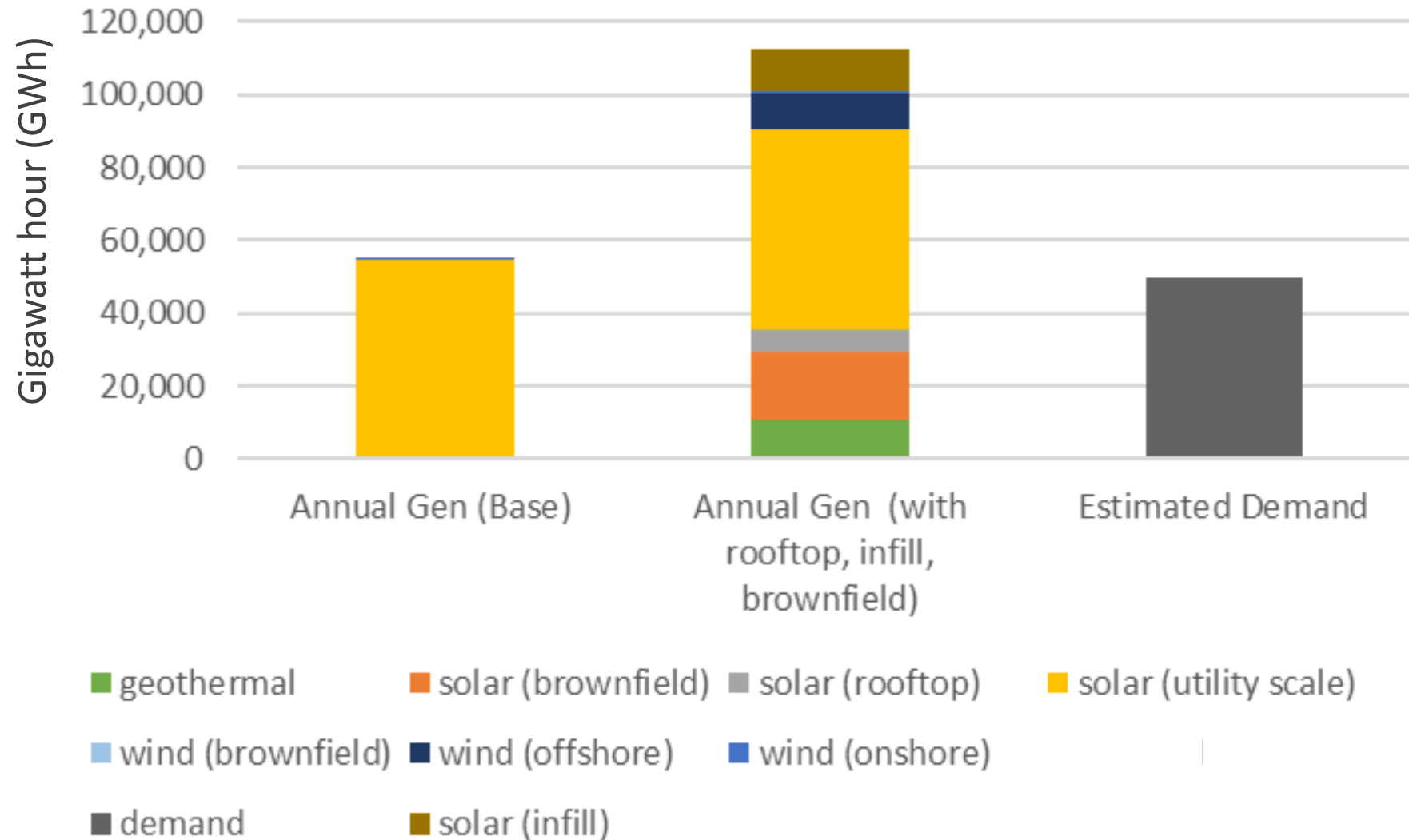
RDF Technical Report Energy Chapter



**Montara
Mountain
Energy**



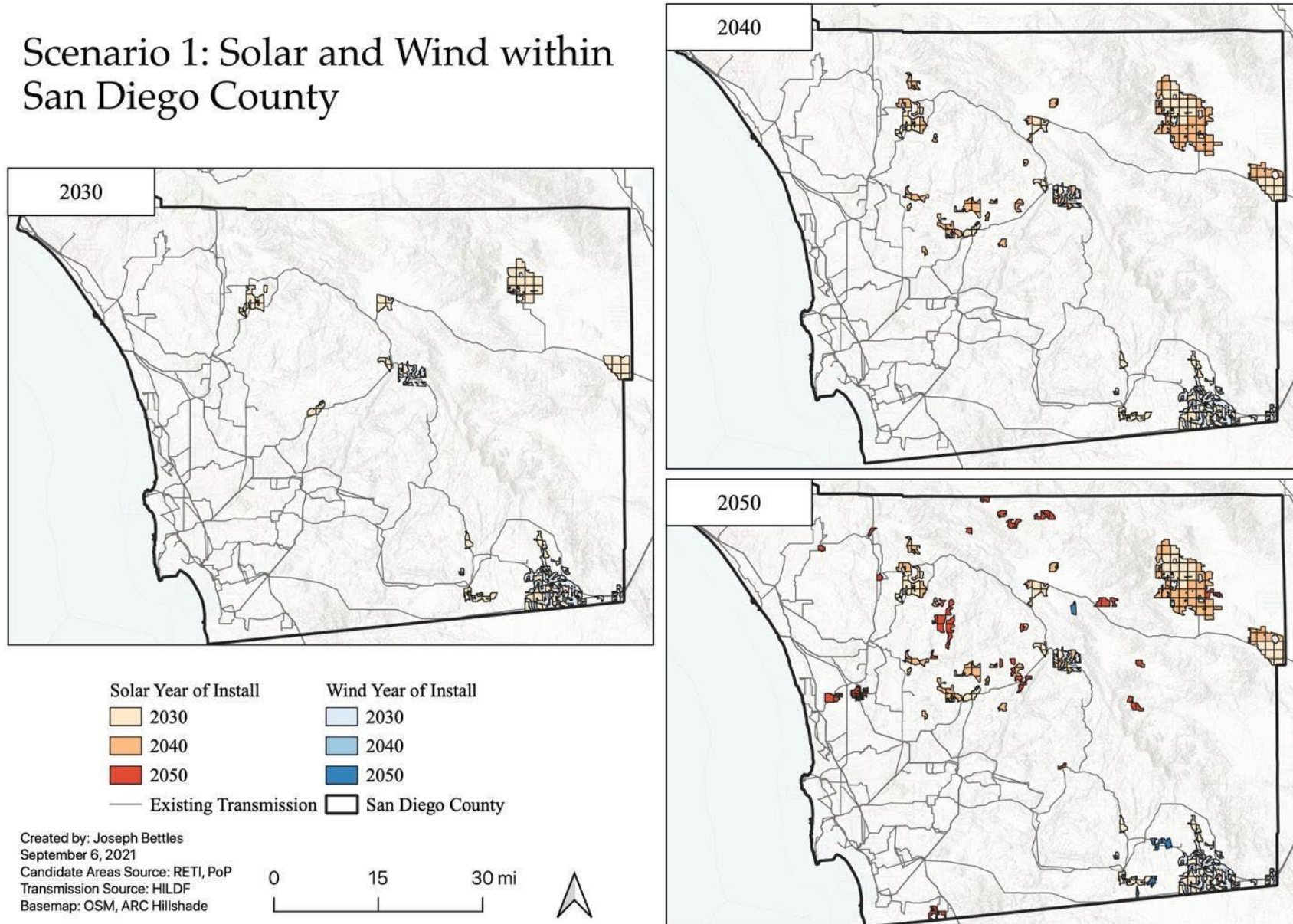
Key Takeaway 1: Total San Diego Regional Technoeconomic Potential Meets Demand



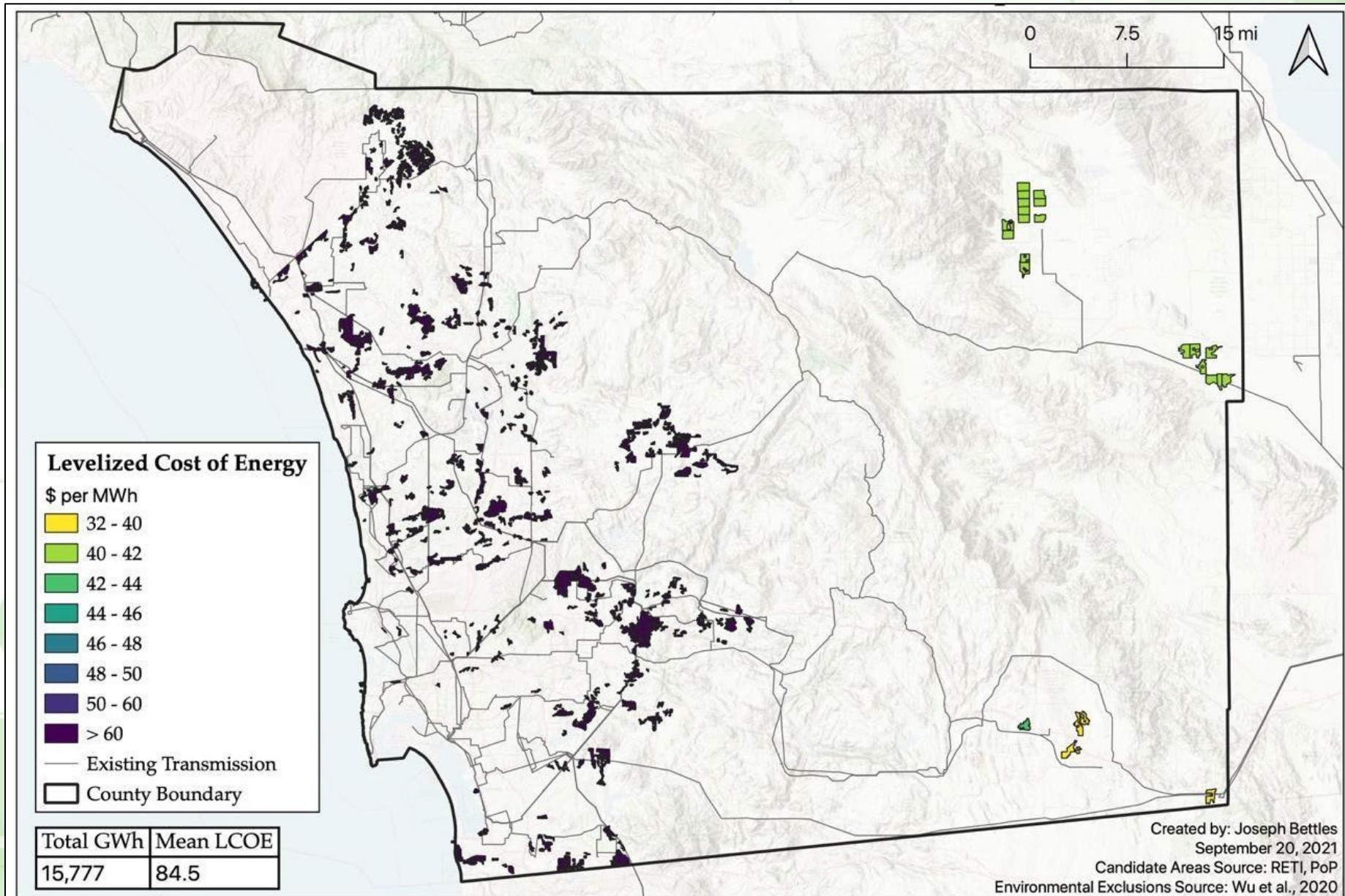
Key Takeaway 2: Site-Selection Scenarios Prioritize Different Policy Goals, Outcomes, and/or Costs



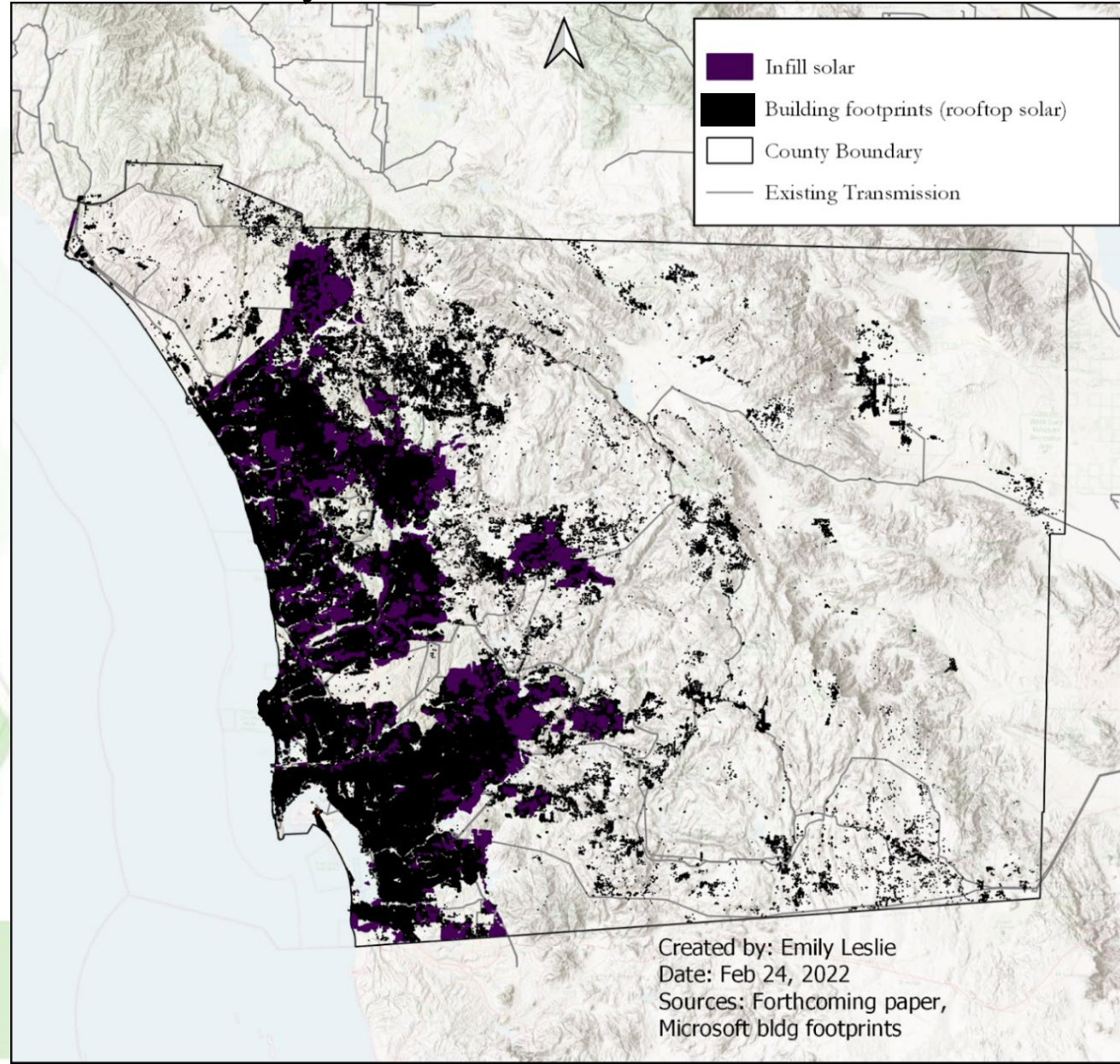
Scenario 1: Solar and Wind within San Diego County



Key Takeaway 2: Site-Selection Scenarios Prioritize Different Policy Goals, Outcomes, and/or Costs



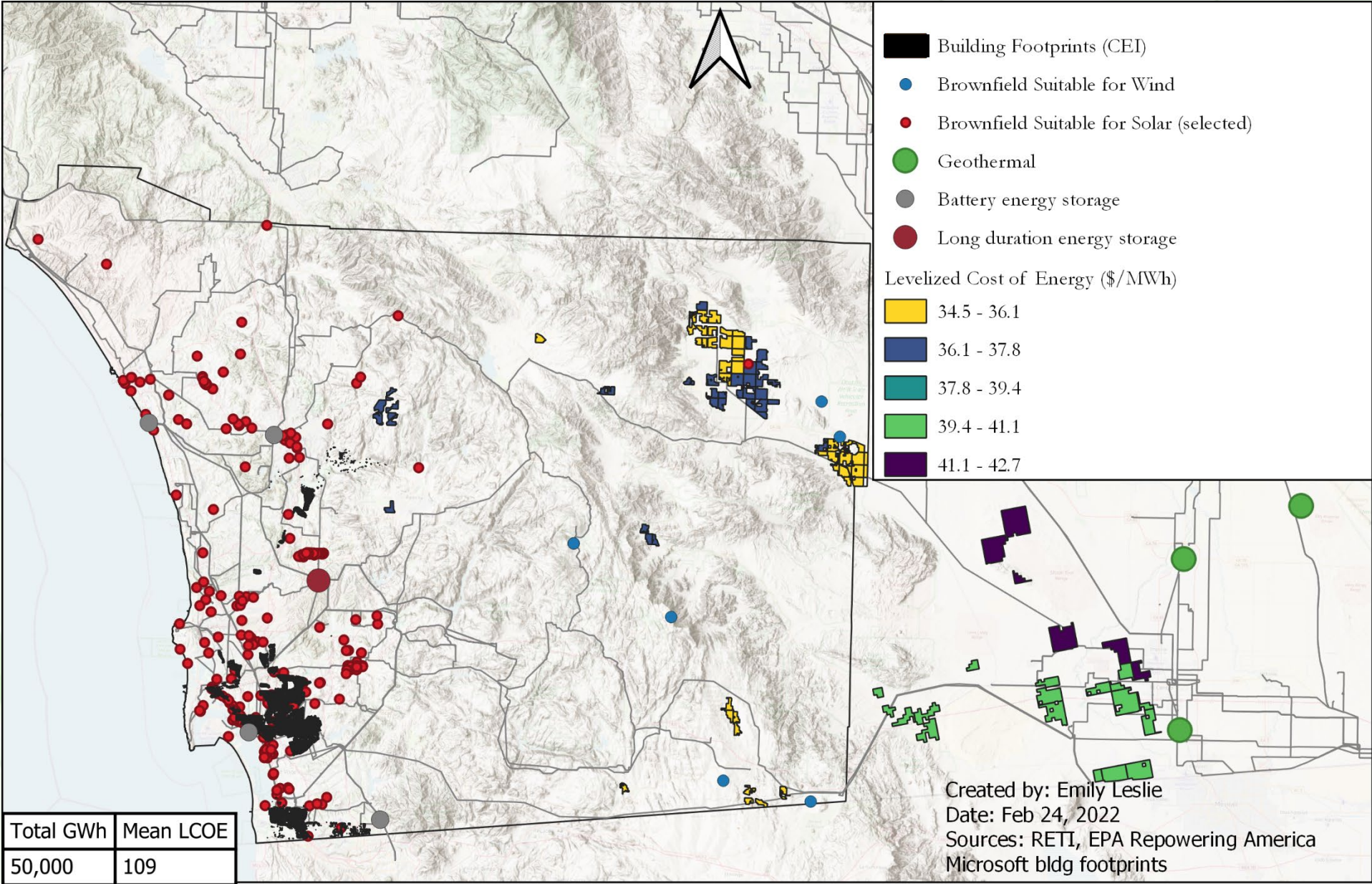
Key Takeaway 2: Site-Selection Scenarios Prioritize Different Policy Goals, Outcomes, and/or Costs



Rooftop and
infill solar



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Least Cost



Conservation

The chapter's analysis is flexible and can help policymakers to design renewable energy siting scenarios that optimize different priorities

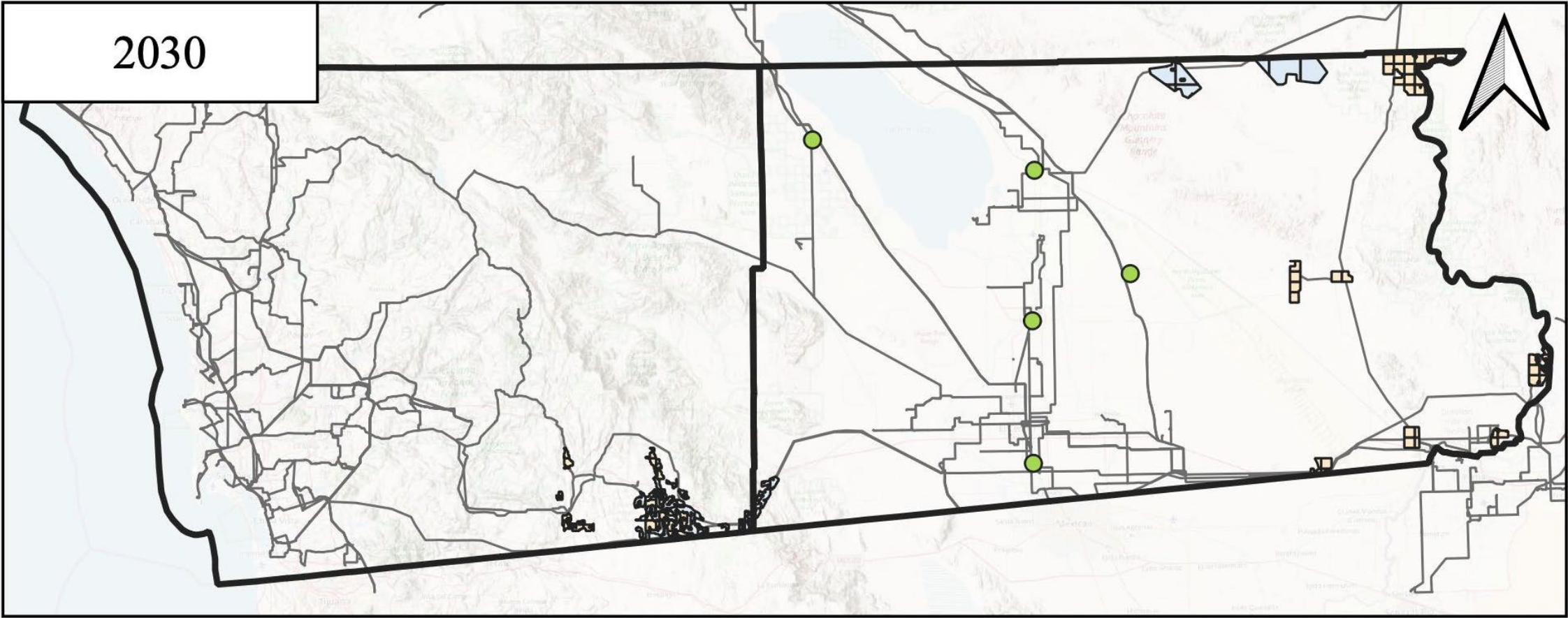
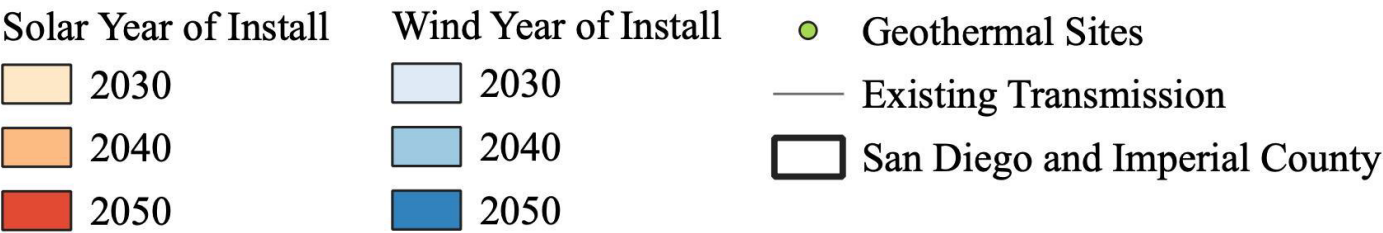


Rooftop and
infill solar

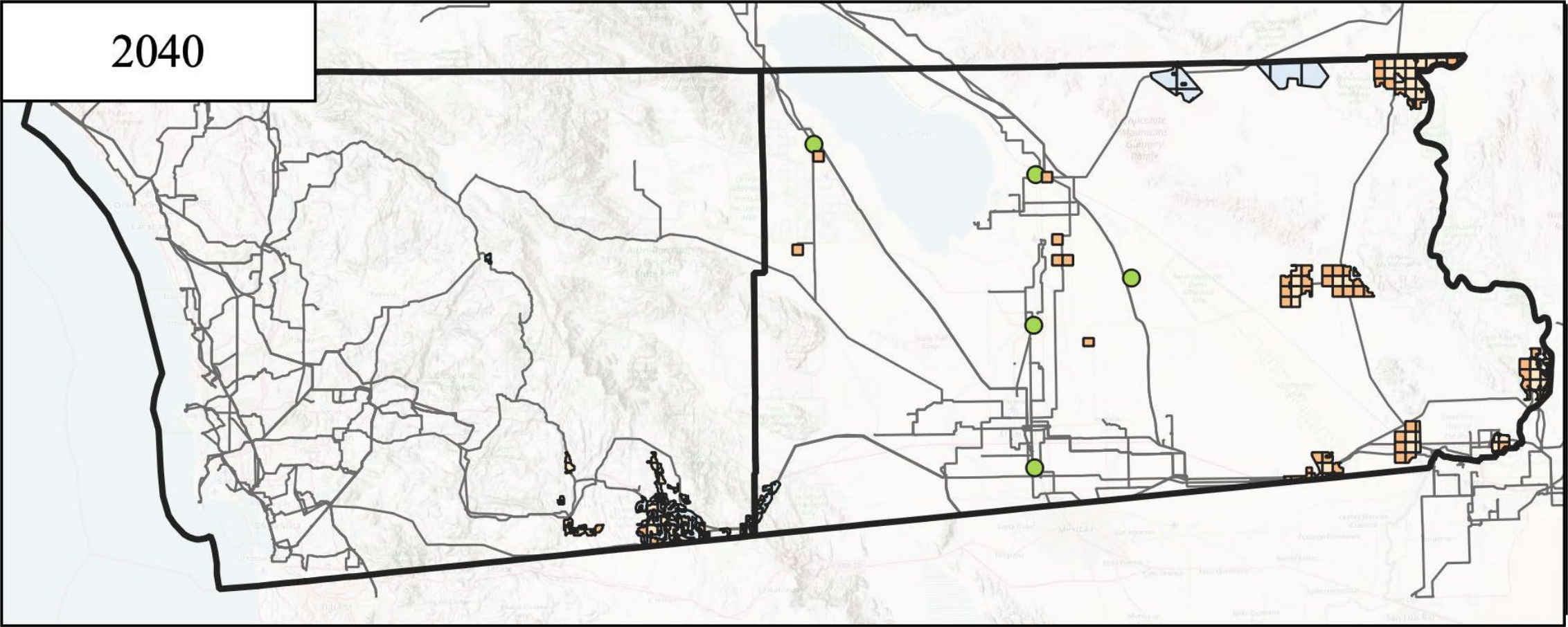
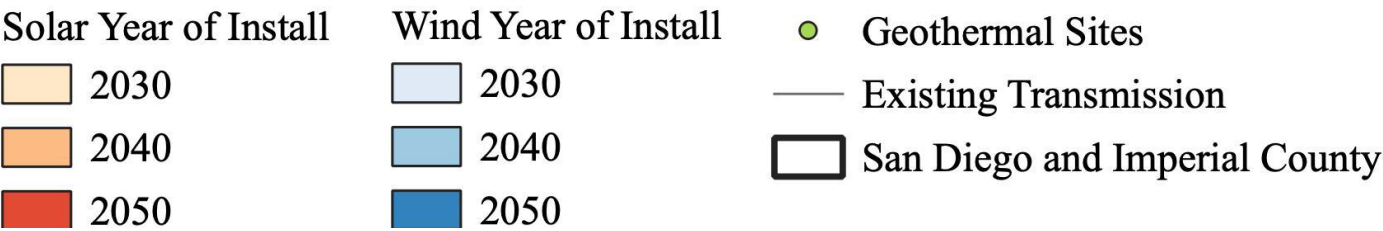


Mid-range

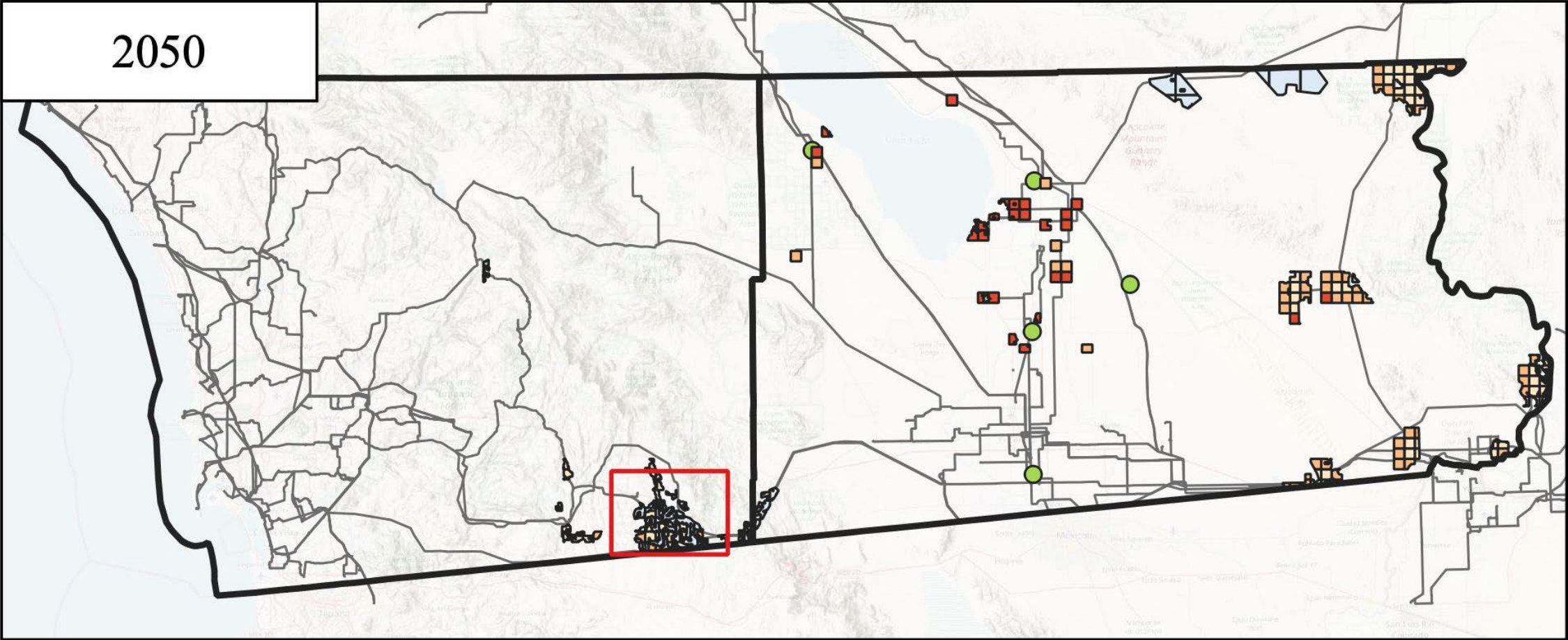
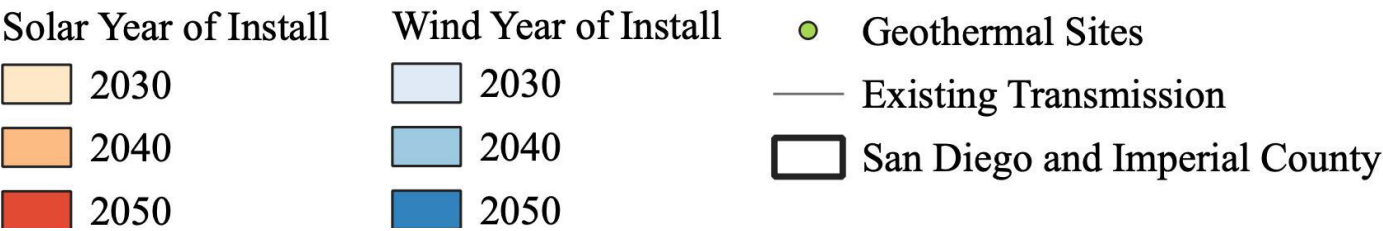
Key Takeaway 3: Imperial Solar and Geothermal are Significant Resources



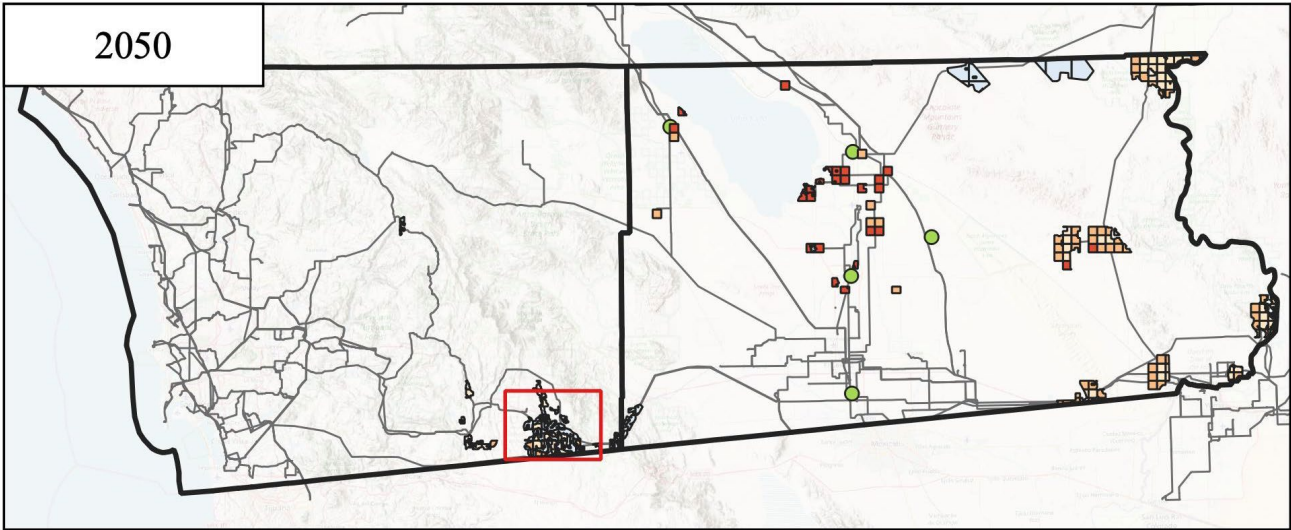
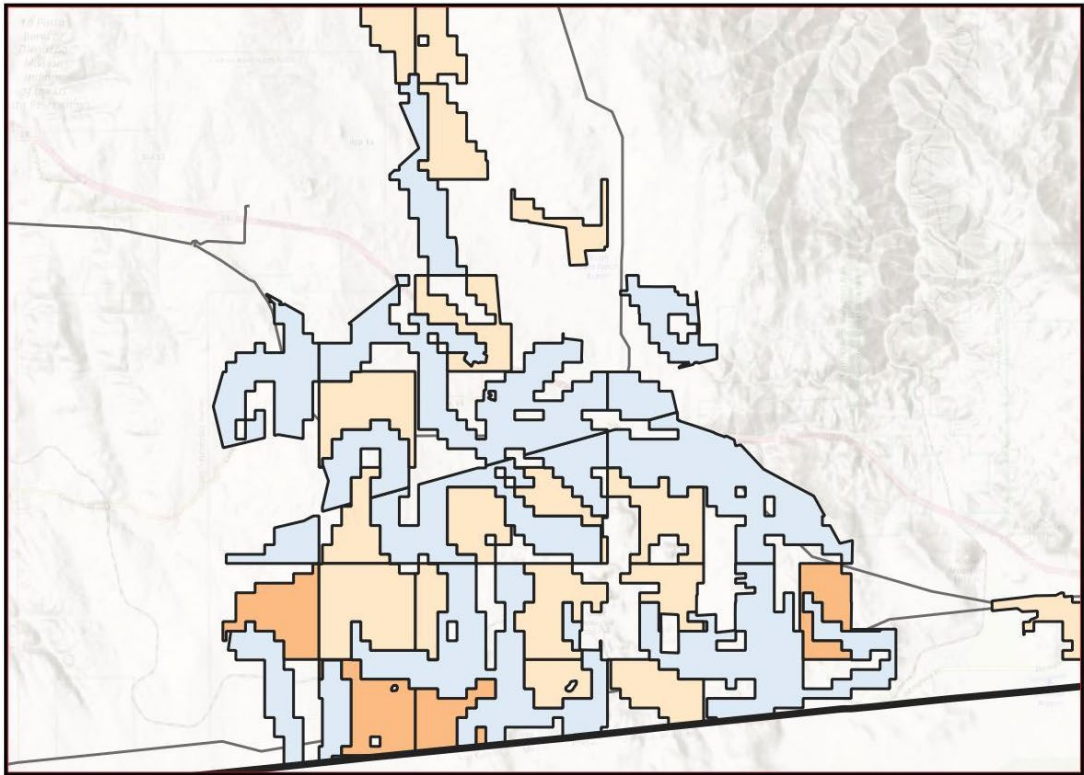
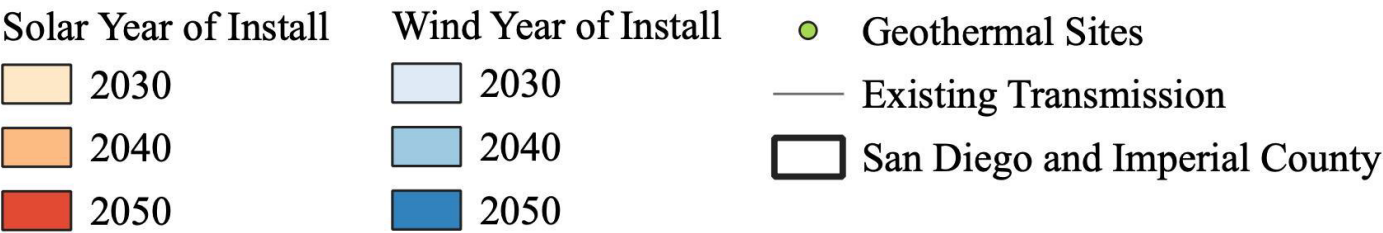
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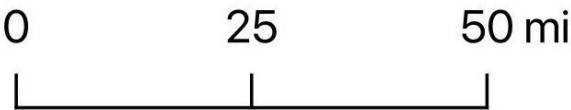
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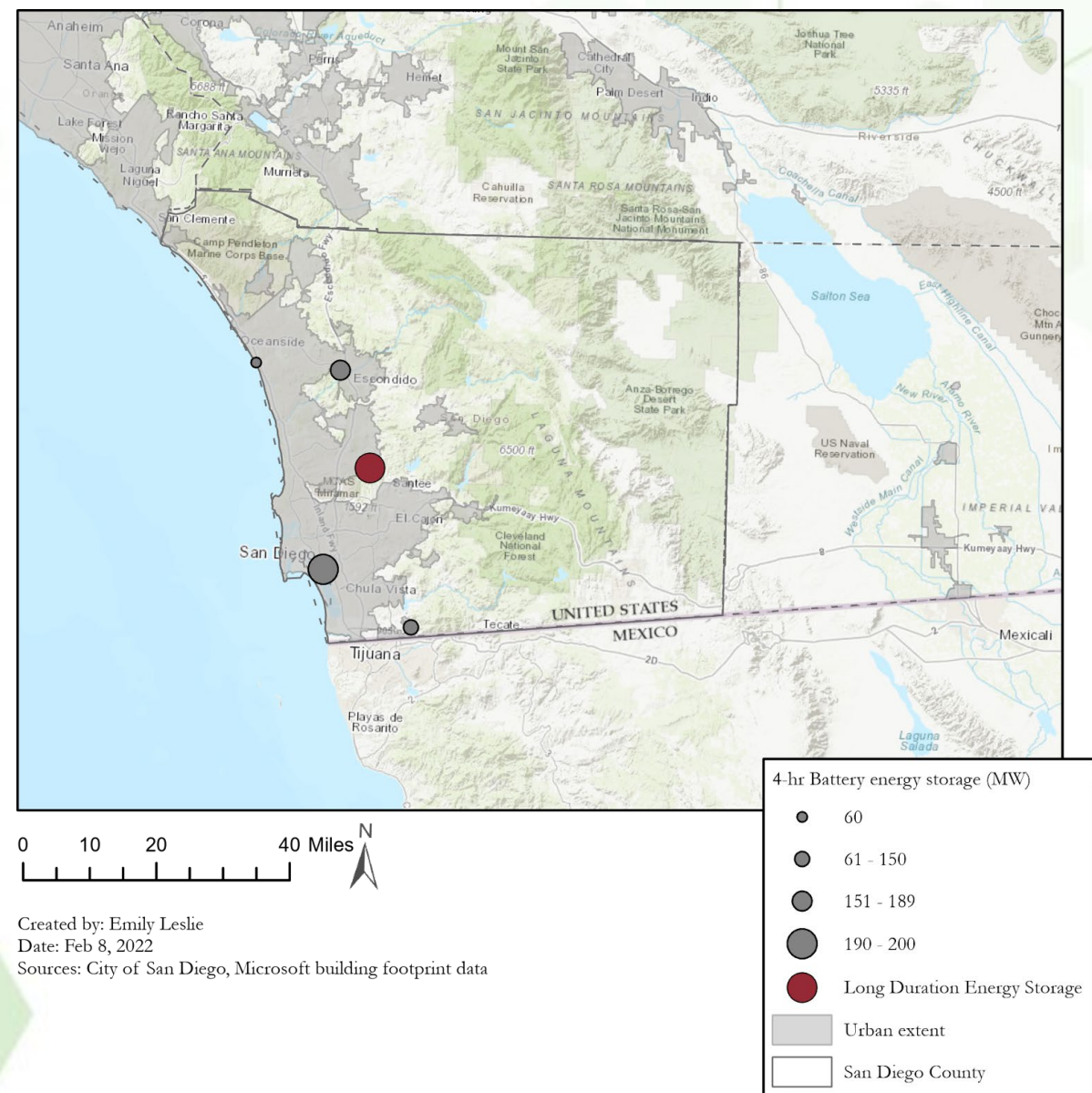
Key Takeaway 3: Imperial Solar and Geothermal are Significant Resources



Created by: Joseph Bettles
September 6, 2021
Candidate Areas Source: RETI, PoP
Transmission Source: HILDF
Basemap: OSM, ARC Hillshade

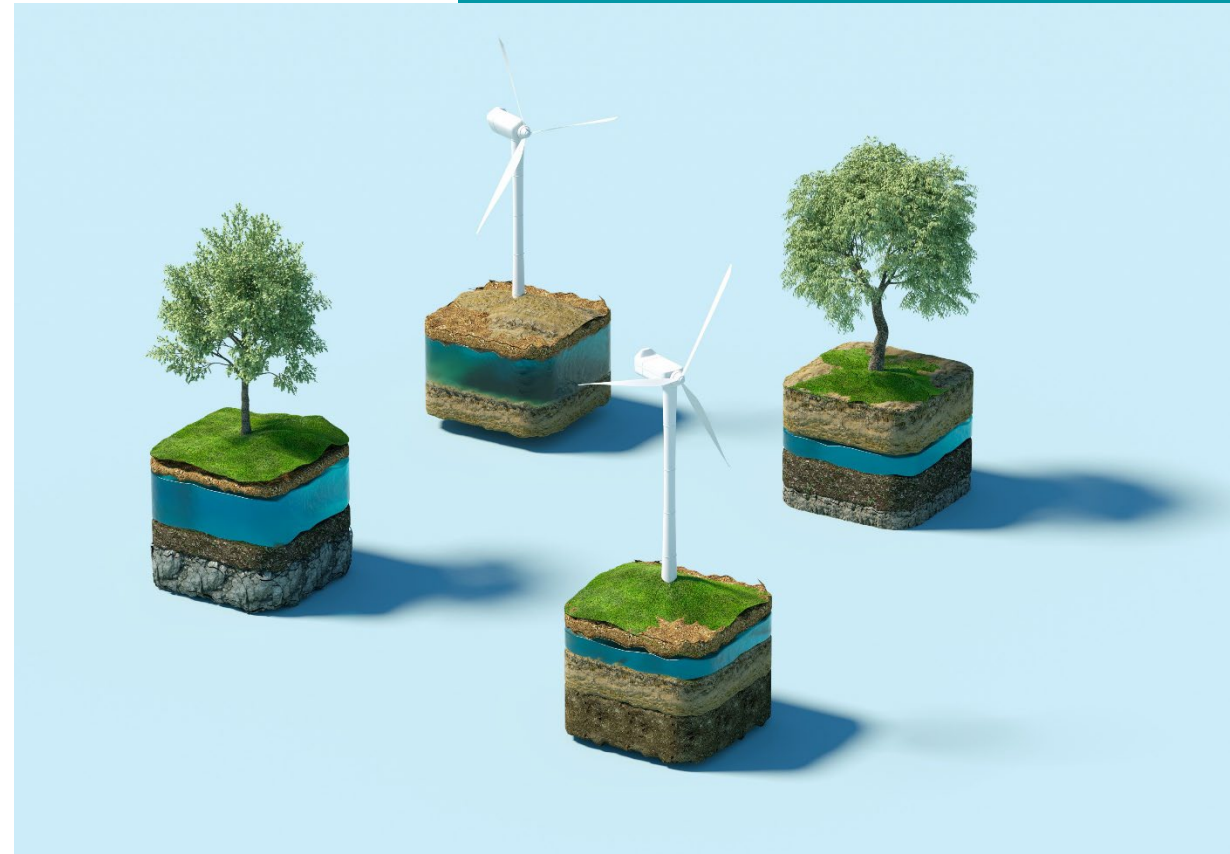


Key Takeaway 4: Reliability Will Require Investments in Energy Storage and Additional Resources



Conclusions

- This chapter provides pathways to meet projected electricity demand using 100% renewable energy
- The scenarios are not prescriptive and are instead demonstrative of the breadth of options available to policymakers when planning for renewable energy generation in the San Diego region and beyond



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