Societal & Policy Issues:
Decarbonization & Resource Peripheries

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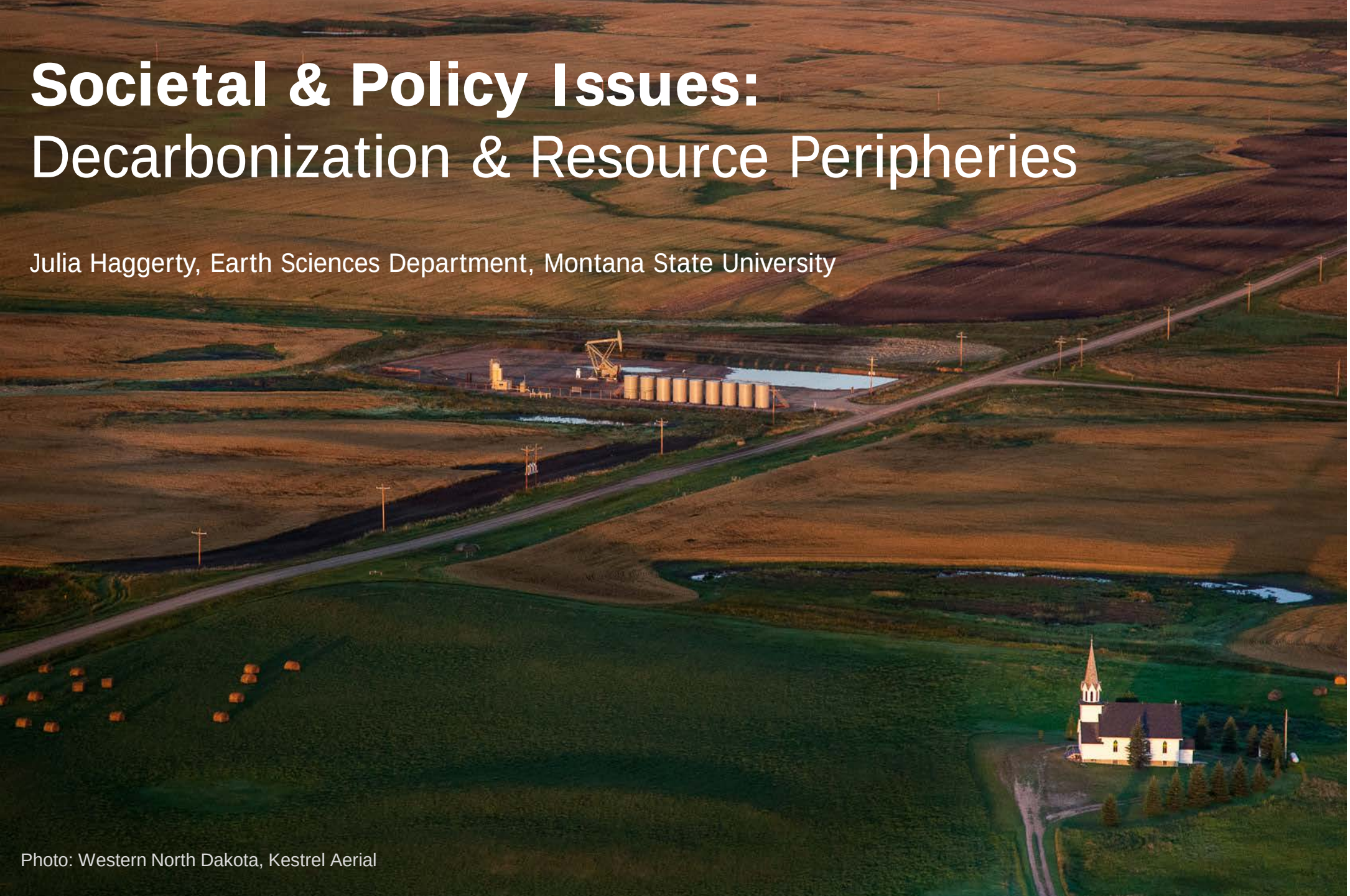

Photo: Western North Dakota, Kestrel Aerial

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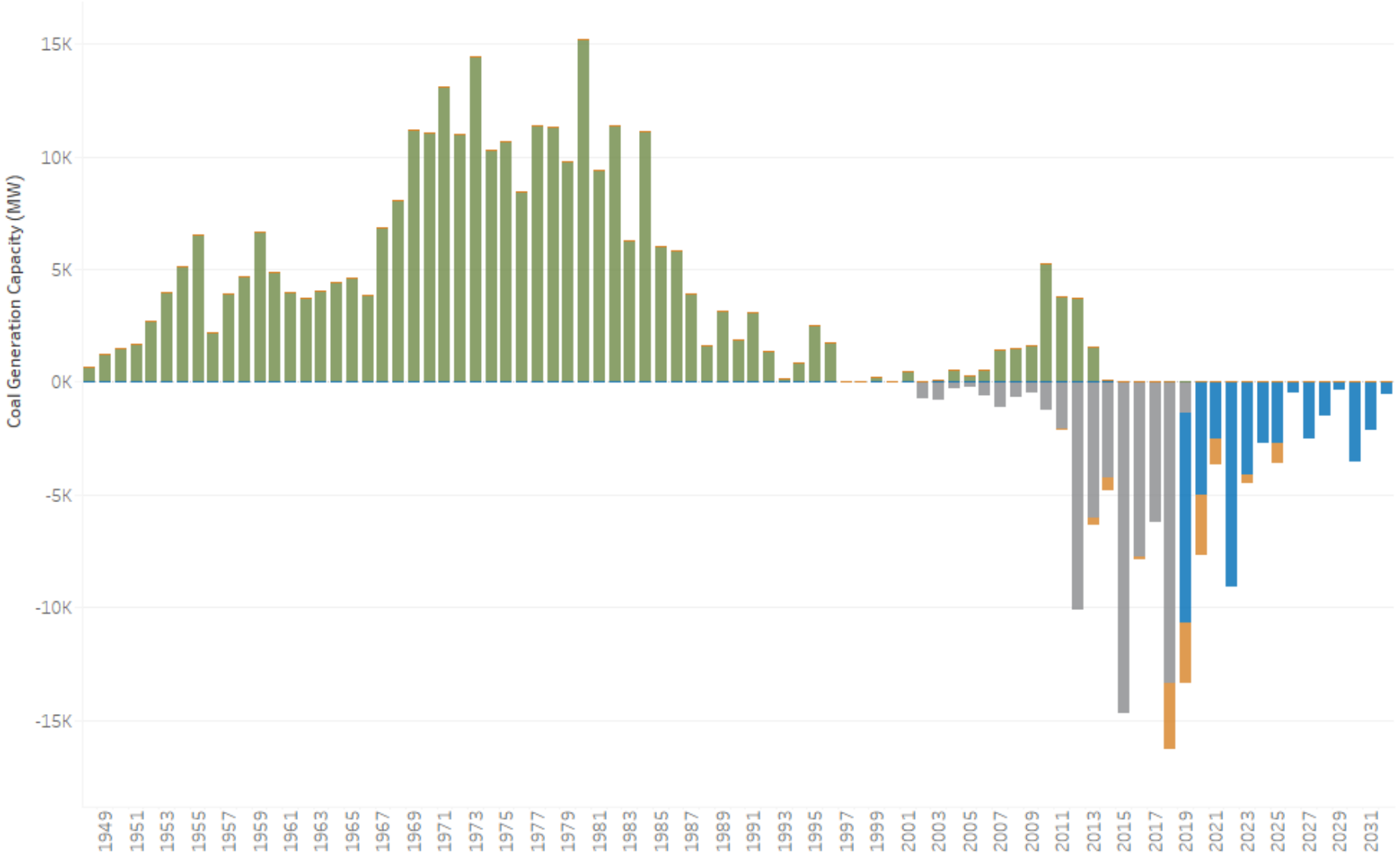
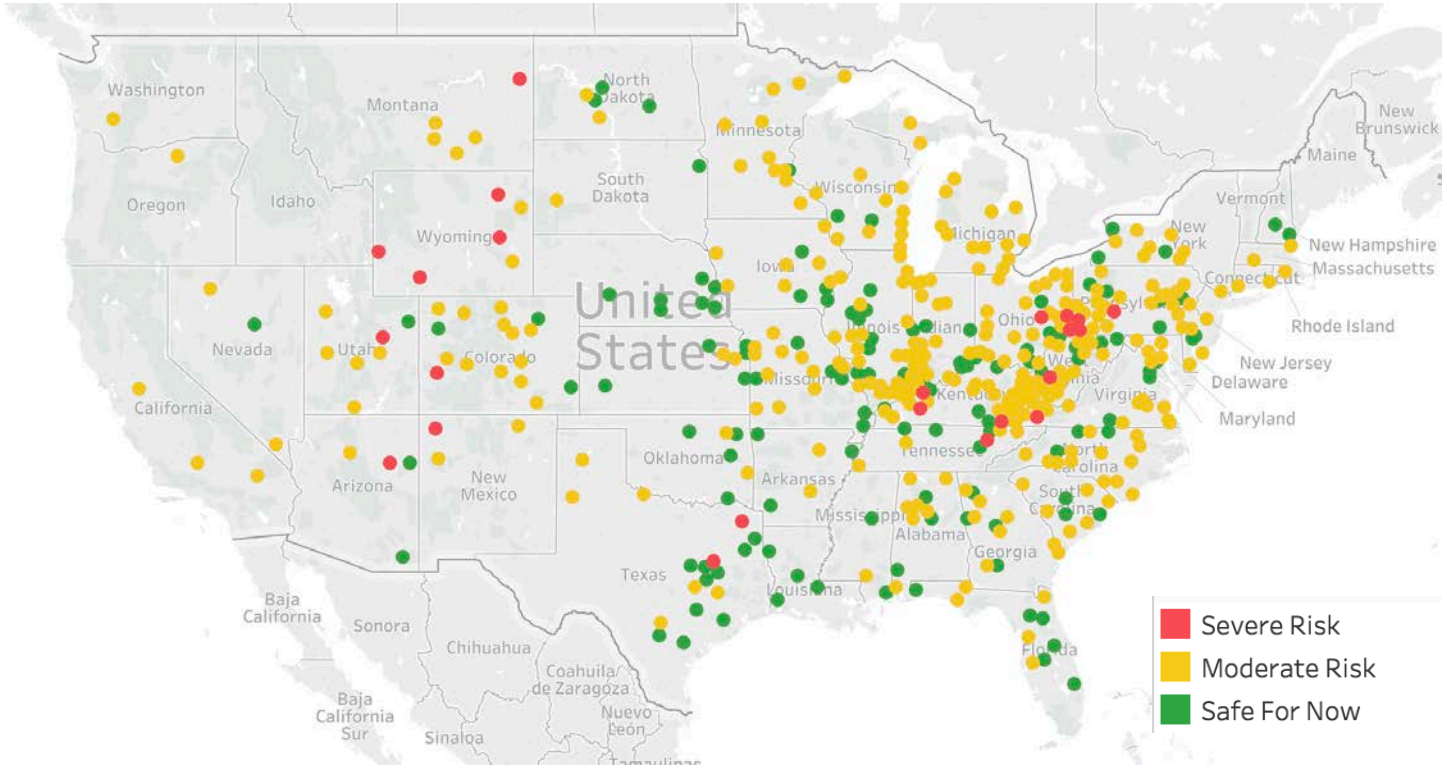
The U.S. Coal-fired Fleet is Breaking Up

Coal Generation Capacity (MW), 1949-2031



Source: Headwaters Economics and J. Haggerty with data from US EIA, IEEFA and R. Godby, Univ. of Wyoming.

The Coal Transition Geography is Varied



Urban coal plant retirements:

9 out of **10** MW

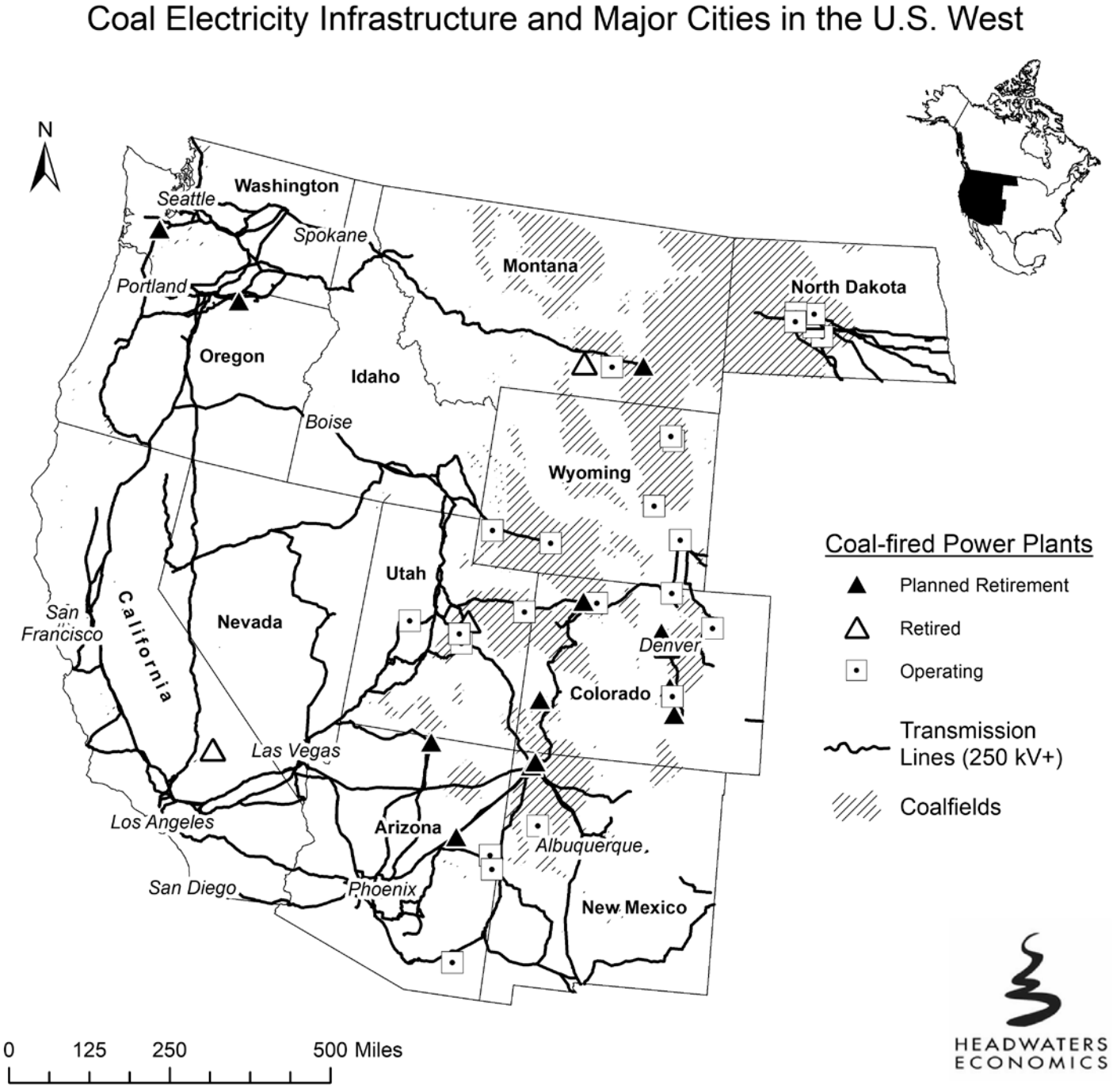
Rural mine closures:

7 out of **10** tons

Source: Headwaters Economics and J. Haggerty with data from US EIA, IEEFA and R. Godby, Univ. of Wyoming.


Photo: Colstrip, MT, Kestrel Aerial

NY Times: “Relentless Decline” of Rural America



From 2009 - 2025

18 CF Power Plants (>75 MW) have closed or will close (41 gen. units)

11.7 GW, one-third of West's capacity in 2000

32 unique owner entities;

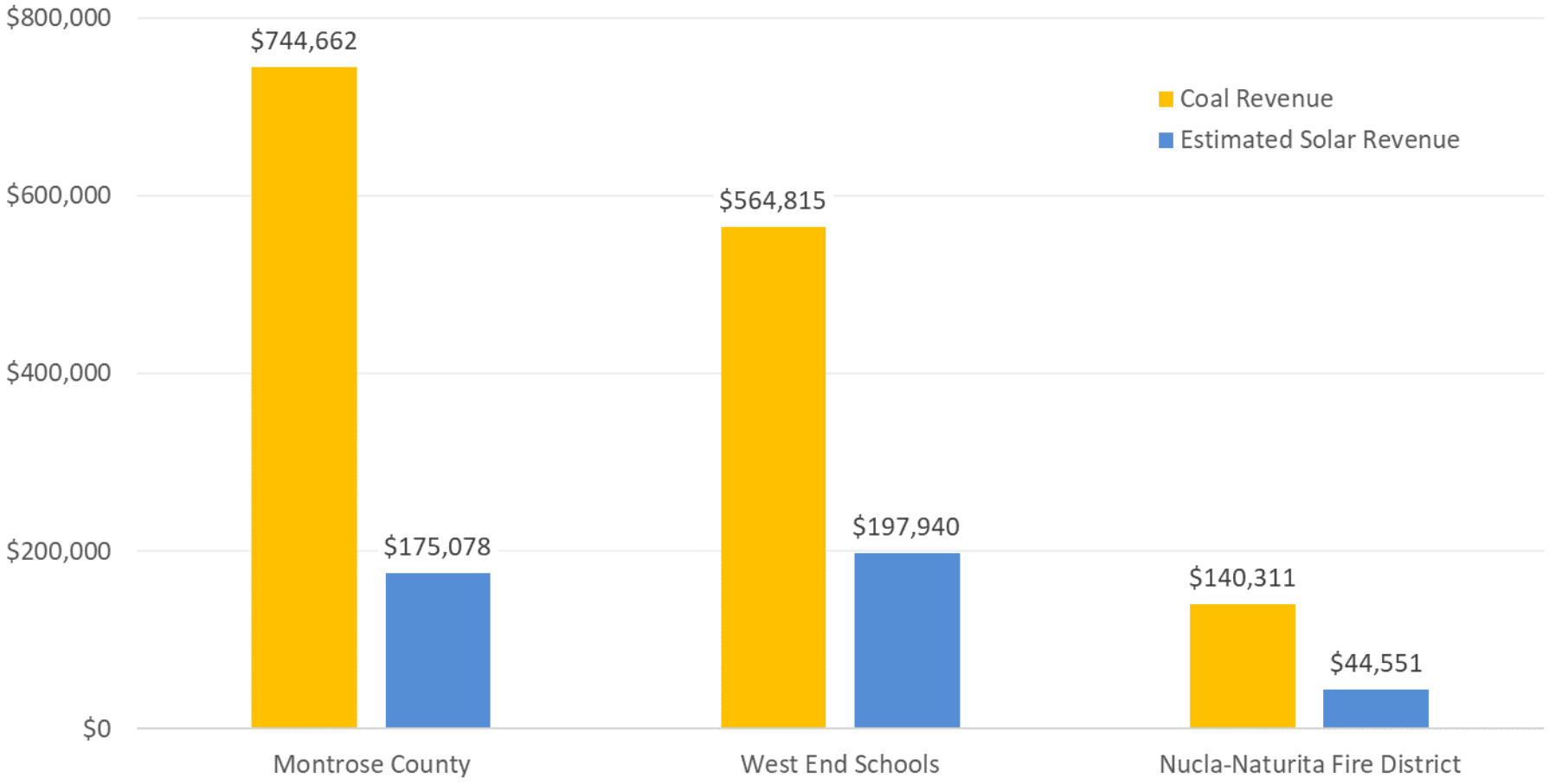
- 13 IOUs
- 4 IPPs
- 4 Co-ops
- Public owners (munis, feds, etc.)

Source: 2018. Haggerty, J. H. et al. Planning for the Local Economic Impacts of Coal Facility Closure: Emerging Strategies in the American West. *Resources Policy* 57(Aug.): 69-80. doi: 10.1016/j.resourpol.2018.01.010

Three Interventions

Photo: Western North Dakota, Kestrel Aerial

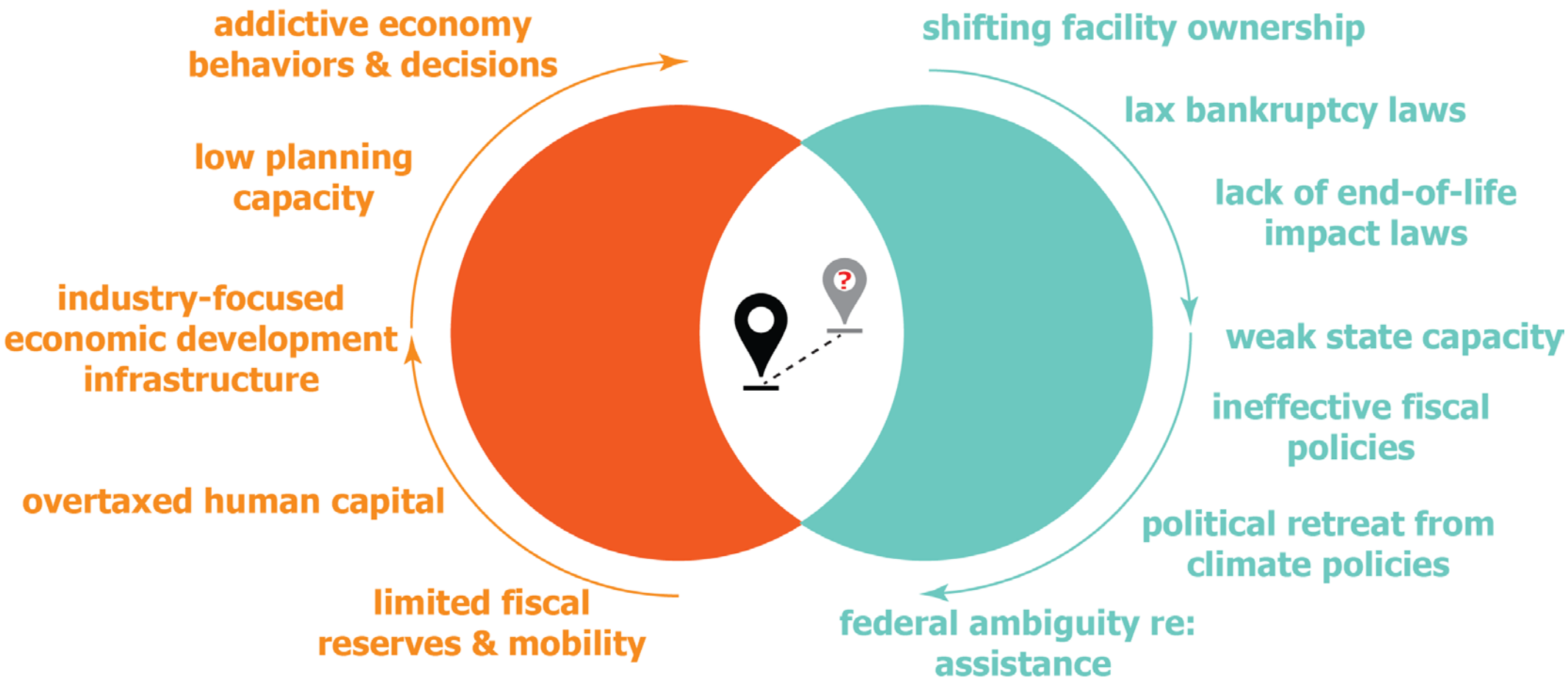
Solar vs. Coal Property Tax Revenue Comparison



100 MW solar capacity would replace only 30% of lost coal generation taxes

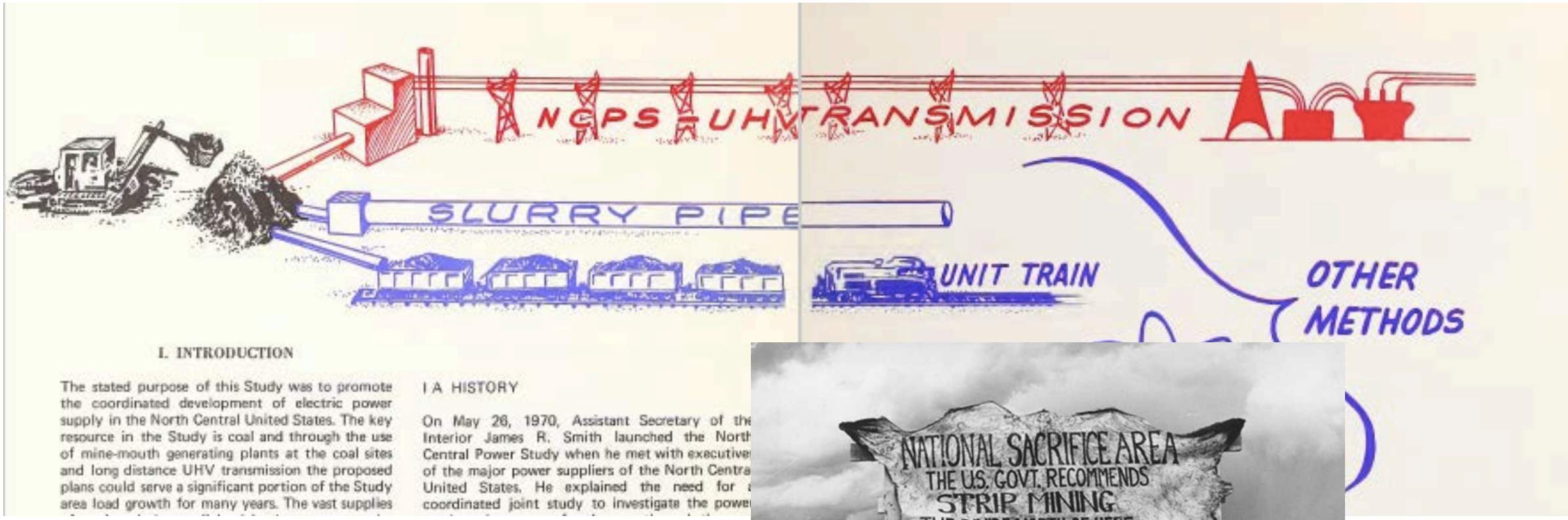
https://headwaterseconomics.org

Colorado Department of Local Affairs Renewable EnergyTax Factor Template https://www.colorado.gov/pacific/dola/renewable-energy



The Transition Planning Policy Gap

A Legacy of Regional Coordination



I. INTRODUCTION

The stated purpose of this Study was to promote the coordinated development of electric power supply in the North Central United States. The key resource in the Study is coal and through the use of mine-mouth generating plants at the coal sites and long distance UHV transmission the proposed plans could serve a significant portion of the Study area load growth for many years. The vast supplies

I A HISTORY

On May 26, 1970, Assistant Secretary of the Interior James R. Smith launched the North Central Power Study when he met with executives of the major power suppliers of the North Central United States. He explained the need for a coordinated joint study to investigate the power

North Central Power Study, Part 1. 1971.

Photo credit: Terrence Moore via Northern Plains Resource Council.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Photos: RCRG

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