

Tribal Green Building

A Sustainable Approach to Addressing Energy Efficiency & Renewable Energy on the Navajo Reservation

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Overview

- Introduction
- Statement of Need
- Community Profile
- Work Plan & Public Involvement
- Implementation
- Assessment & Evaluation
- Conclusion & Recommendations





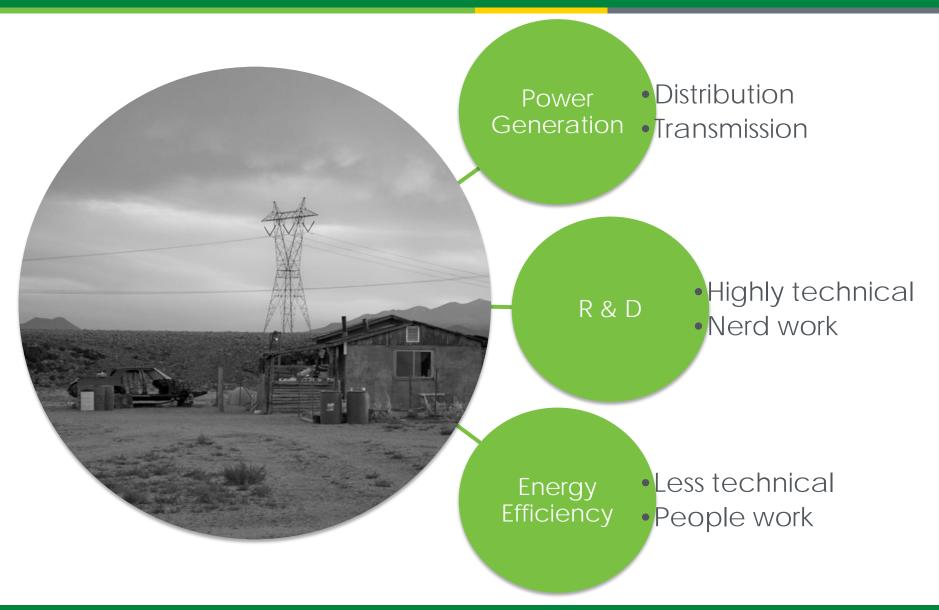
Introduction

Introduction

- Objective: Convey how NN can learn to plan through green building to address renewable energy development
- Focus: Energy efficiency techniques & renewable energy designs
- Process:
 - Id link between housing & energy
 - Show need for planning & better housing at local level
 - Break down community planning process
 - Break down planning tools through green building and facilitation

Tying Renewable Energy & Green Building Together







Statement of Need

Statement of Need



Housing, Utility & Planning

- 18,000 Navajo families do not have access to electricity
- Navajo tribal leadership recognizes the need for planning at the local level
- 110 chapters involved in planning activities at different scales with different degrees of resources, rigor, and purposes
- The Navajo Nation needs to build 34,000 new homes to fill the housing need on the reservation

"Local planning is important since it represents the wishes of community members."



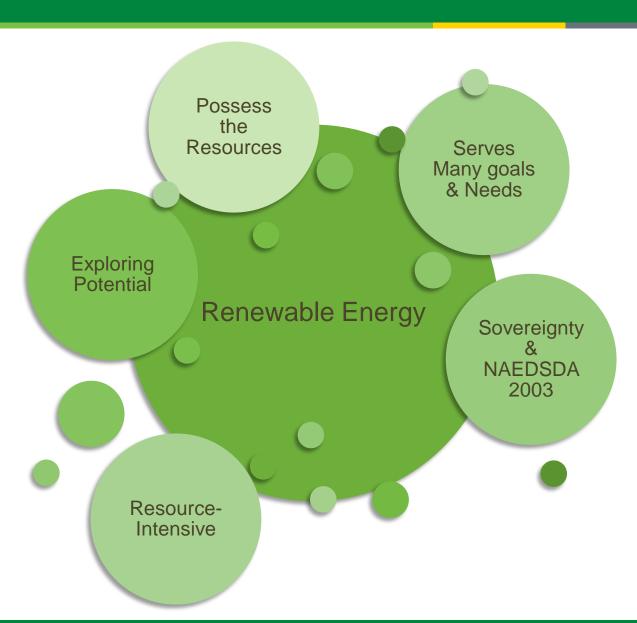
Chapter meeting - Red Rock Chapter House



Typical home in need of repair - Red Rock

Sustainable Development





"Our values, beliefs and traditional link to the land and role as stewards of the environment compel us to develop our energy resources." ~Draft NN Energy Policy, March 2011



Green Building on the Navajo Reservation

Current Practices

- Energy Use
- Population & Consumption



Tribal Housing

- Housing Stock
- Housing Need



Sustainability & Tribes



Sustainability

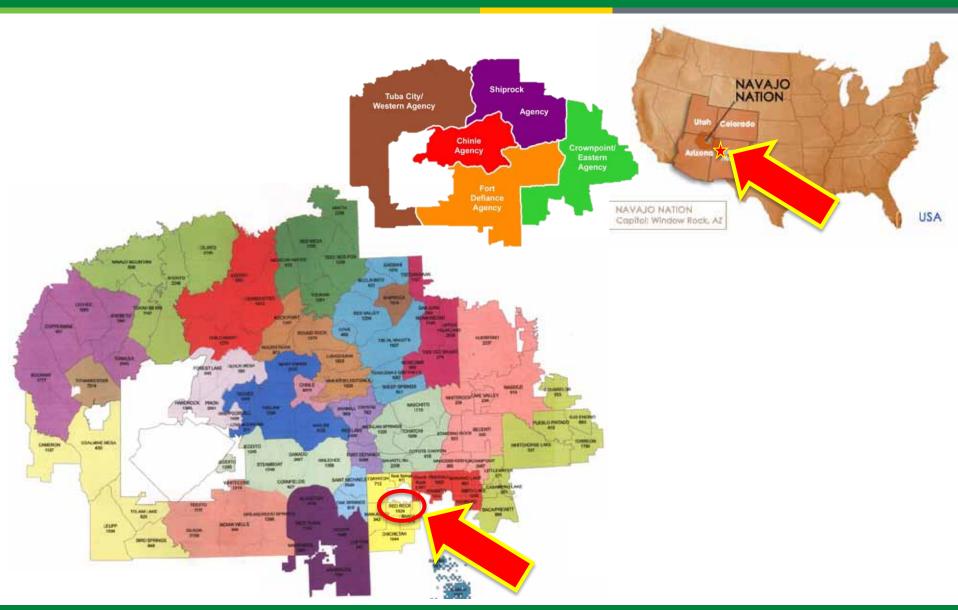
- Who's definition?
- What does it mean?

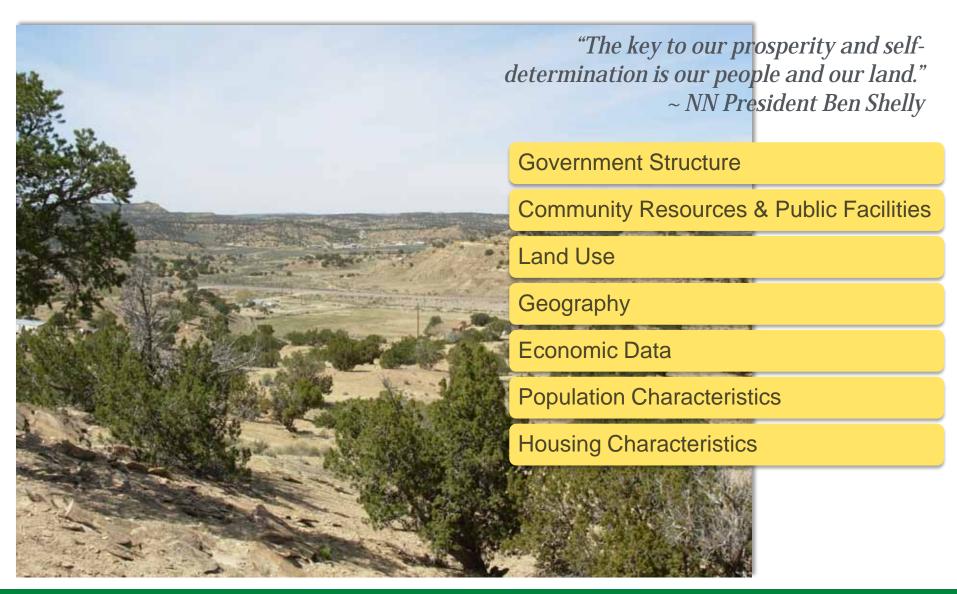


Community Profile

The Navajo Nation







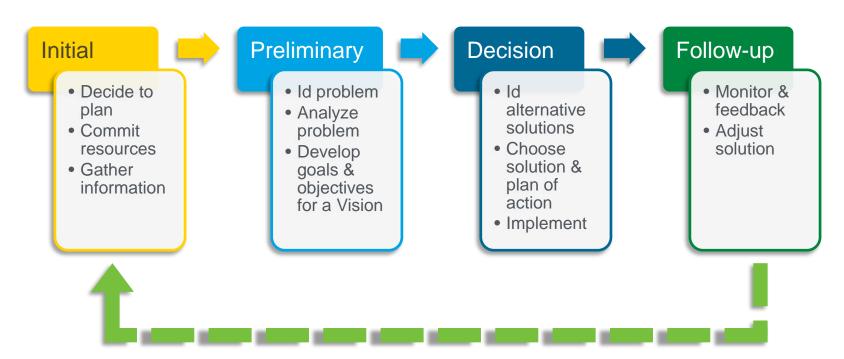




What specific activities need to be done to implement?

Break down the Planning Process

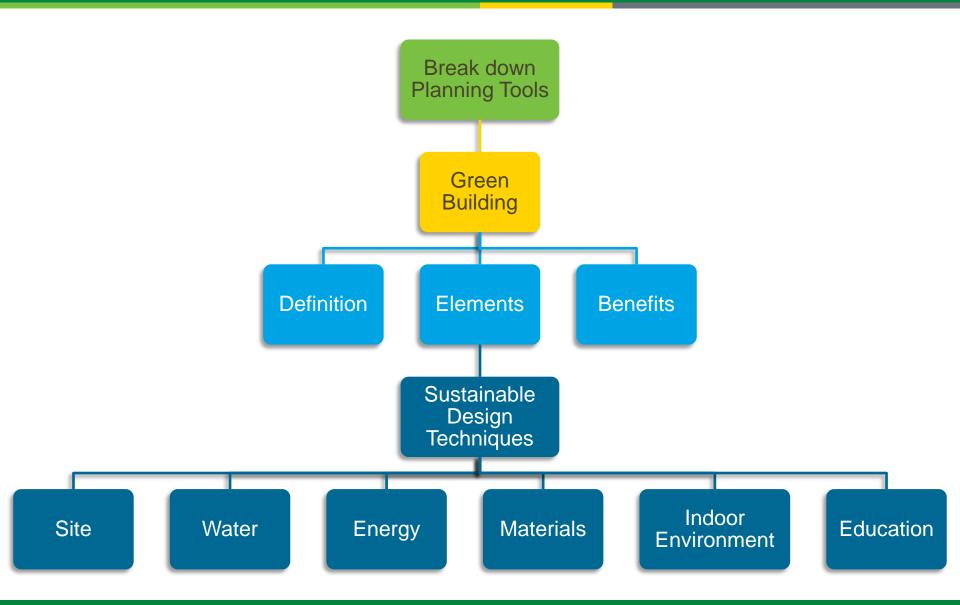
Define the Community Planning Process













Implementation

Implementation



Sustainability **Planning**

- Long term perspective
- Holistic Outlook
- Acceptance of Limits
- Focus on Place
- Active Involvement

Facilitation

- Focus
- Collaboration
- Better decisionmaking

Tribal Projects

- Seeing is Believing
- Mescalero
- Hualapai
- Navajo

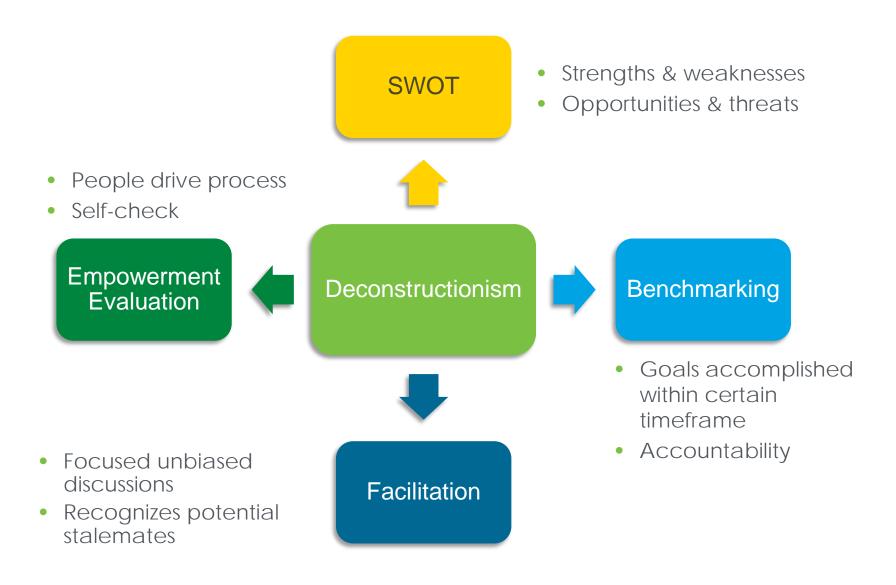
Success



Assessment & Evaluation

Assessment & Evaluation

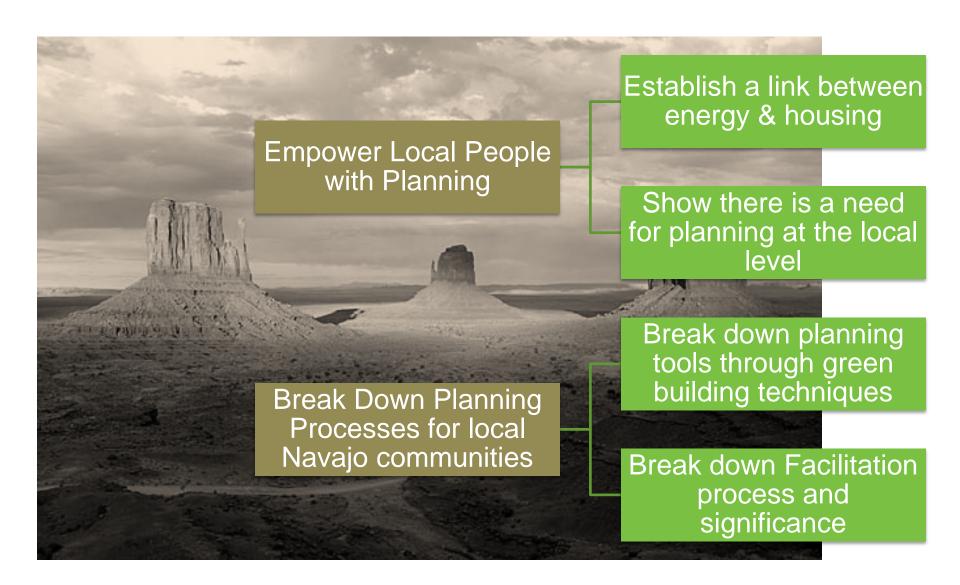






Conclusion & Recommendations

Conclusion



Recommendations



Recommendation Action Result Is planning Obtain blessing Greater sense of ownership appropriate? Define how to From empty ritual to involve Include "have not" citizens productive & empowering community Use facilitation Greater level of cooperation Include good facilitator early & mutual respect to engage Educate the Conduct transparent, Empowers people with a public comprehensive & inviting voice Id a community Provides longevity & Advocates for the community continuity Champion Establish a Provides organization & Validates community's planning office structure commitment to planning

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