

# **Community Strategic Energy Planning 1**

# Strategic Energy Planning

*Defining where you are,  
Where you want to go,  
What are your energy options, and  
Developing a plan to get there.*

# Community Strategic Energy Planning

## Community Objectives

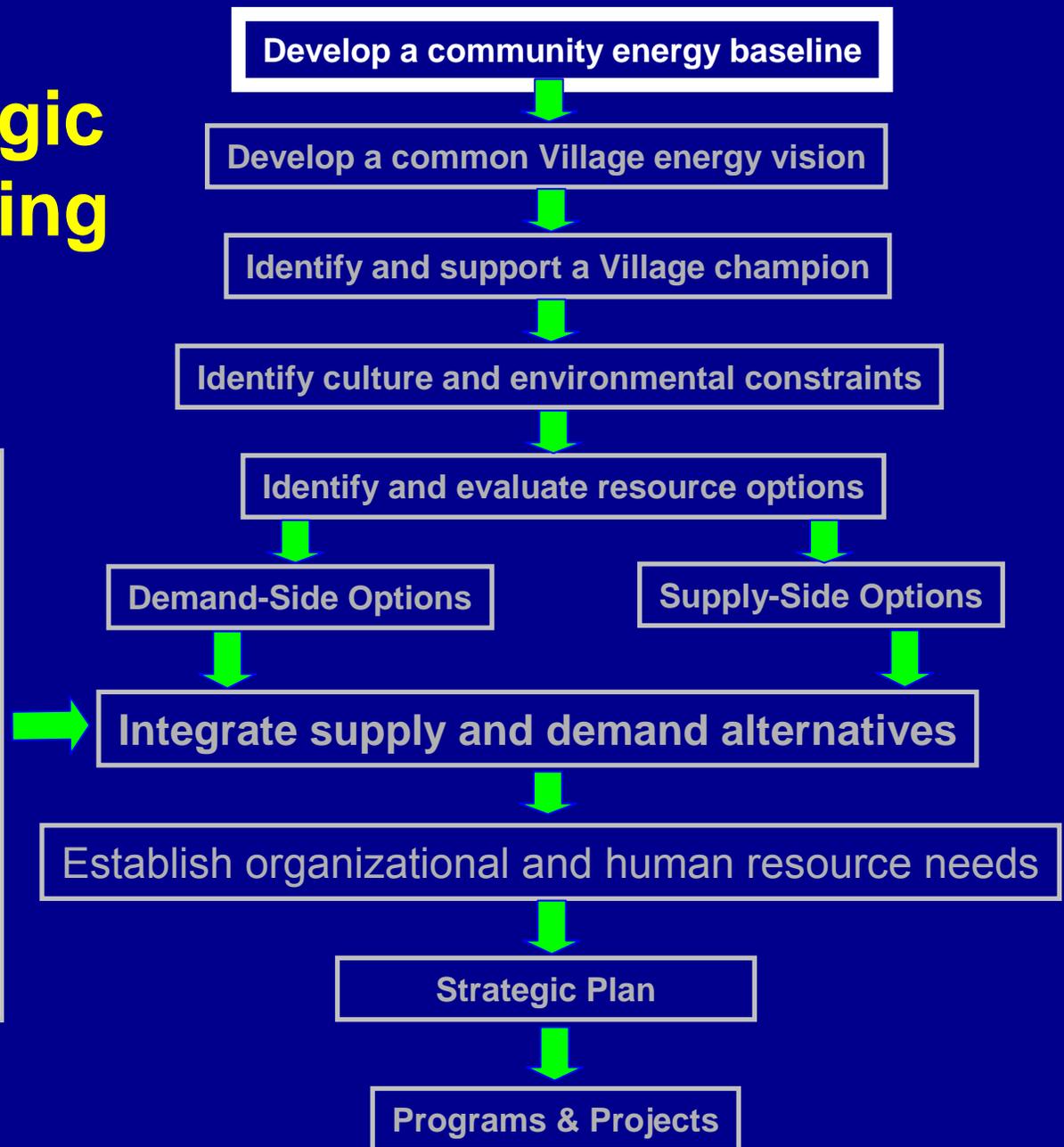
- Energy Reliability & Security
- Off-Grid Electrification
- Minimize Environmental Impacts
- Supply Diversification
- Use of Local Resources
- Economic Development
  - Jobs
- Build technical expertise
  - Respect for Mother Earth
  - Others??



# Village Strategic Energy Planning

## Village Objectives

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# Develop a community energy baseline



## Community Energy Audit

- All individual energy flows, in detail
- Buildings, Transportation, Agriculture, Water

## Forecast of New Loads

- Markets, Coops, Housing, Lodging, Casino, Warehouse

## Details of current Service Providers

- Who, where, how much, tariffs, level of cooperation
- Electric, Gas, Propane, Wood
- Load profiles, in detail

## Local Energy Supply Options

- RE and fossil fuel inventory

**Add it all up, categorize by load type, quantify load growth**

# Draw Individual Tribal Maps

## Infrastructure

- Reservation or community boundary
- Mountains/hills
- Roads (**Primary**, Secondary, **Rail**)
- Tribal industrial activities (sawmill, sand & gravel, coal, ...)
- Key community buildings (casino, hotel, C-store, school, gas stations, ...)
- Residential areas/houses
- Power lines, sewage treatment, solid waste, natural gas, water dams

## Lands Usage

- Agricultural areas, farm, pasture, feed lots
- Forest lands, range lands, **protected areas**

## Hydro

- Rivers & Lakes
- Water supply lines or wells

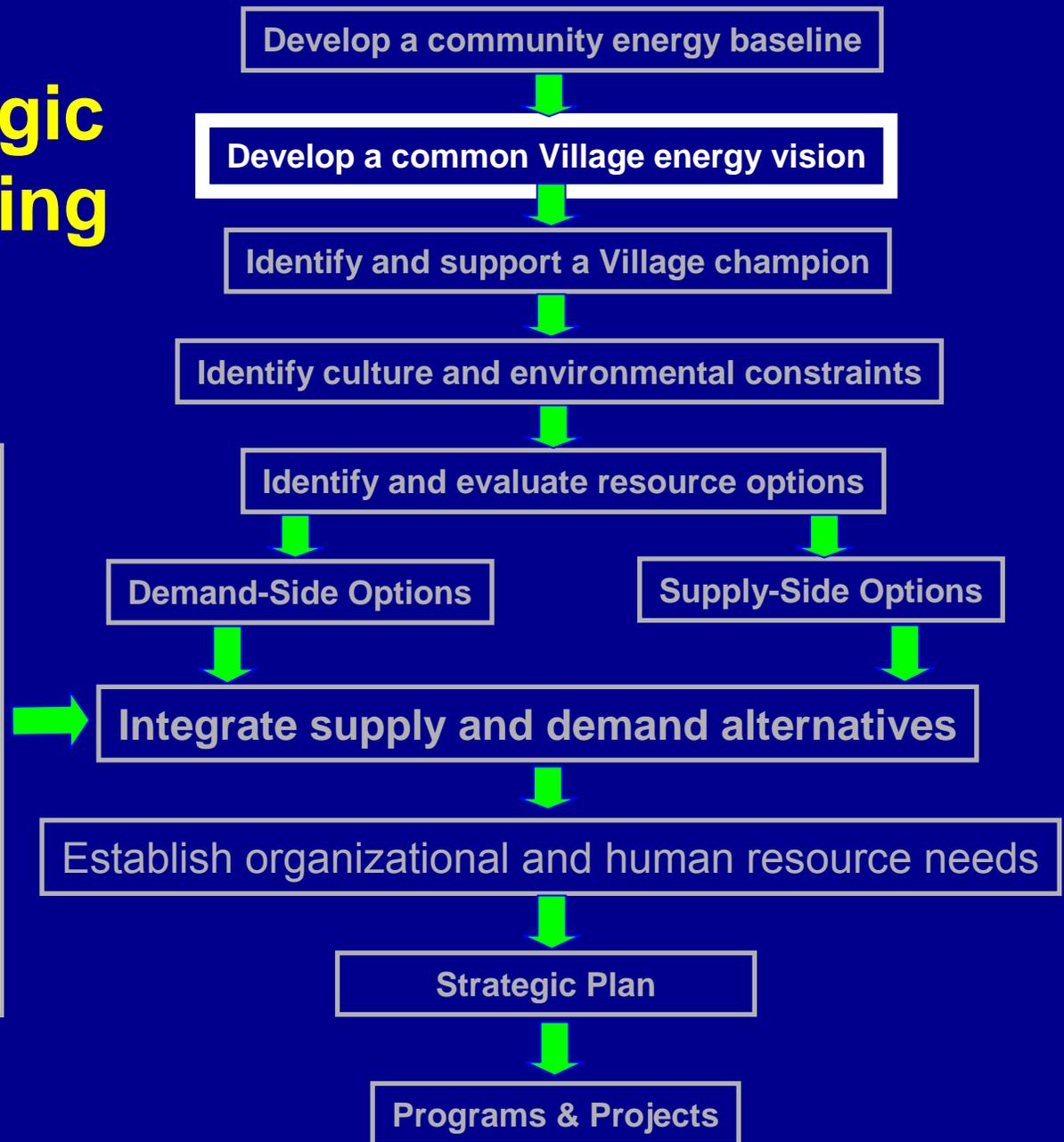
## Yellow Arrows in Direction of Energy Flow—

- Electricity
- Natural Gas, Propane, Fuel Oil
- Gasoline & Diesel

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## Develop a common Tribal energy vision



- Place a “marker” on where the tribe wants to be – in 10, 20, or 30 years
- A statement, or resolution, approved by the Tribal Council following input from broader tribal community
- The vision sets clear direction, but is not too prescriptive (where not how)

## Draft a Vision Statement

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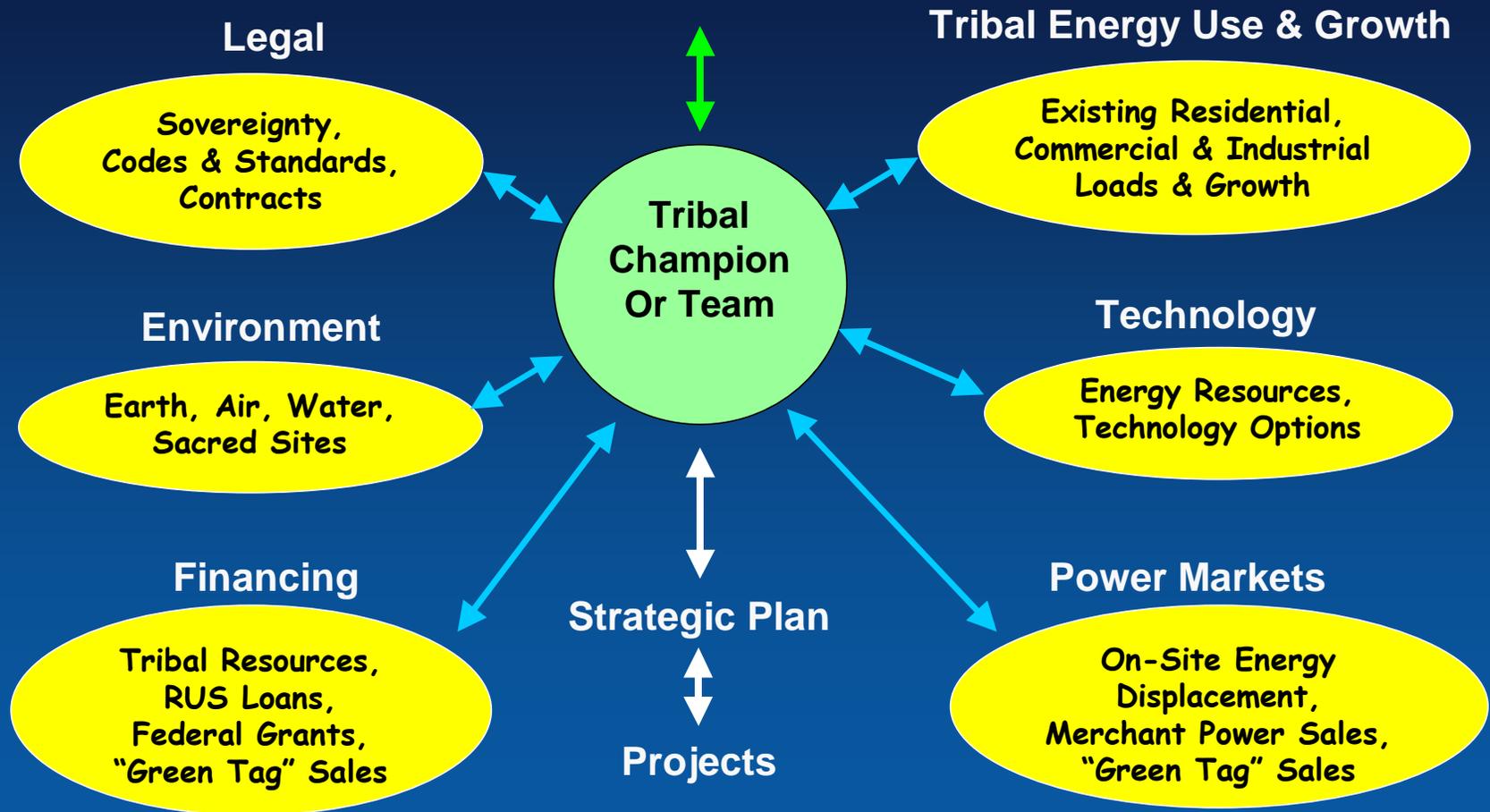


# Establish organizational and human resource needs



How do you want to make it happen?

## Tribal Council



## Identify and support a Tribal champion



**A tribal champion (or team) is key** – this individual or, more likely, team must be empowered to:

- explore the range of supply & demand options,
- facilitate tribal consensus,
- lead the strategic energy planning process forward,
- make recommendations to Tribal Council, and General Council

What are the challenges you face in your community to establishing a tribal energy champion or team?

# Village Strategic Energy Planning

Develop a community energy baseline

Develop a common Village energy vision

Identify and support a Village champion

Identify culture and environmental constraints

Identify and evaluate resource options

Demand-Side Options

Supply-Side Options

Integrate supply and demand alternatives

Establish organizational and human resource needs

Strategic Plan

Programs & Projects

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## Integrate culture and environmental constraints



- Natural Resource Valuation
  - Water and Air
  - Wildlife Habitat
  - Forests, rangelands, wetlands, other
- Technology Effects
  - Emissions, Aesthetics, Noise
- Economic Development Trade-offs
- Cultural Impacts – (Sacred Sites, Plants, Burial Grounds)
- Tribal Impact – Community & Government
- Other Considerations

**Identify sensitive sites**