### WHY NOT ARIZONA?

A REPORT AND PROPOSAL OF

THE ARIZONA

SOLAR ENERGY ADVISORY COUNCIL



The Arizona Solar Energy Advisory Council is an appointed advisory body and not a unit of any government agency

### ARIZONA'S MOST RECOGNIZED RESOURCE











## ARIZONA'S UNTAPPED RESOURCE



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#### ASEAC REPORT

Part One - Status

<u>Part Two</u> - Opportunities

<u>Part Three</u> – Proposals

### PART ONE - SOLAR STATUS

## EXAMPLE - OUTDOOR CENTER



# EXAMPLE - MARICOPA COUNTY CORRECTIONAL FACILITY (\$72,000 SAVED YEARLY)



## EXAMPLE - COVERED PARKING YUMA PROVING GROUNDS



## EXAMPLE - SEDONA PUMP DRAWS WATER FROM 860 FEET



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## EXAMPLE - OFF-GRID TELECOMMUNICATIONS



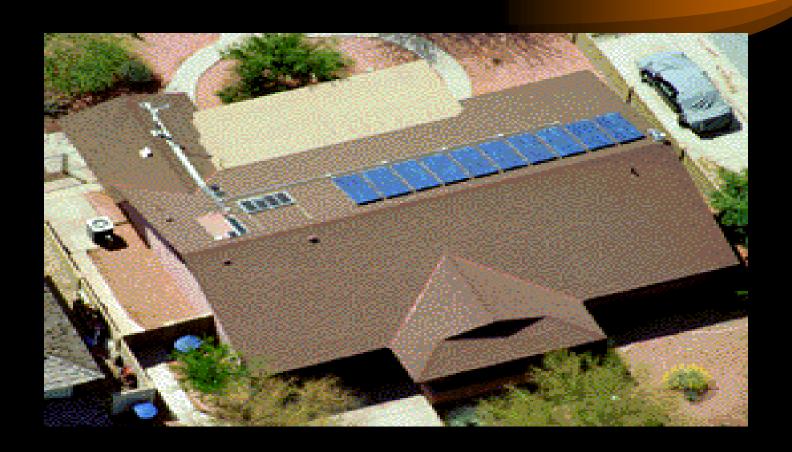
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## EXAMPLE - OFF-GRID USE ON RANCHES



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## EXAMPLE - SOLAR HOT WATER INCREASES INDEPENDENCE



## EXAMPLE - PASSIVE SOLAR AT CIVANO (TUCSON)



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#### SUMMARY STATUS

- \*Arizona has the best solar resource in the United States
- Public recognition of solar energy potential in Arizona is strong

#### nevertheless

Progress has been slow and scattered

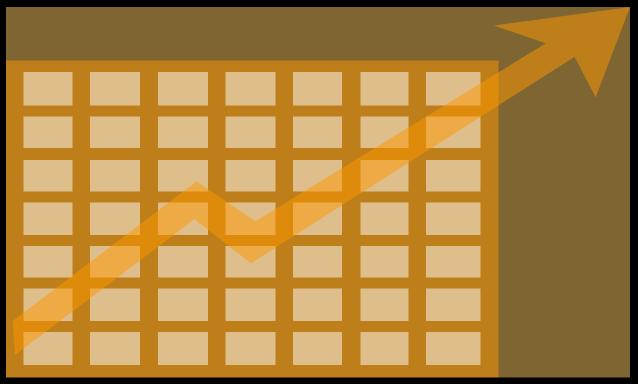
### PART TWO - ECONOMIC OPPORTUNITIES

#### SOLAR ECONOMY - CURRENTLY

- \* Estimate for Arizona:
  - -300 jobs, \$20,000/yr, 2.0 multiplier = least \$12 million
- Global Estimate (PVs):
  - \$2-3 Billion (+ 25% growth/yr)

#### ARIZONA SOLAR POTENTIAL

### \$100 million to \$1 Billion

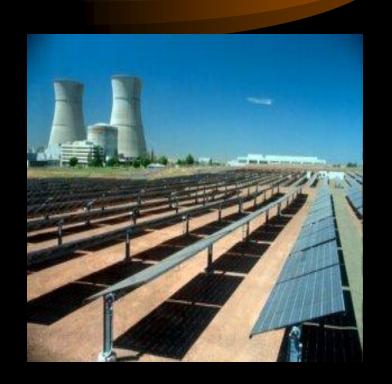


## ENVIRONMENTAL OPPORTUNITIES

Prevent pollution

Reduce siting battles

Improve reliability of supply



### Ready - Solar Research & Testing

- \* ASU East PV Testing Laboratory
- UA Environmental Research
   Laboratory has a long-time R&D and demo
- NAU solar passive and wind energy research

#### READY — EDUCATION

- \* ASU, NAU, UA classes and research on solar energy
- \* Community and private colleges offer classes (e.g. Embrey-Riddle, Yavapai, Scottsdale, Prescott)
- Arizona Energy Office
- \* ASEA, AriSEIA lecture series, solar homes tours
- Short courses from private firms

## READY - OUTREACH Arizona Solar Center.Org

Arizona Solar Center - your source for solar energy information in Arizona. AZSC









AZSC



#### READY - UTILITIES







### APS — SOLAR TESTING AND RESEARCH (STAR)



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### SRP – 200 KW AT SANTAN PLANT, GILBERT



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### TEP - 1,350 KWAT SPRINGERVILLE PLANT



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#### READY - SOLAR BUSINESS

- \* 82 solar firms in Arizona are registered at AzSolarCenter
- \* <u>Locations</u>: Benson, Bisbee, Bullhead City, Chino Valley, Flagstaff, Glendale, Hereford, Kykotsmovi, Mesa, Pearce, Phoenix, Quartzite, Scottsdale, Snowflake, Tempe, Tucson



#### EV Solar Products, Inc.

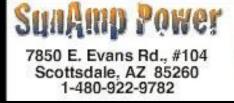
2655 N. Highway 89 Chino Valley, AZ 86323

ph: 520-636-2201 fax: 520-636-1664

www.evsolar.com

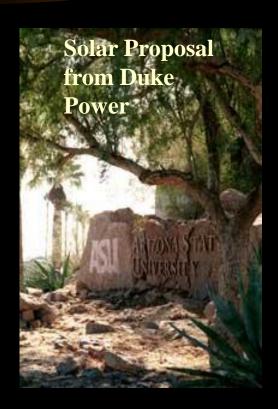


Renewable Energy System
Design & Distribution
2010 E. University Dr., #11
Tempe, Arizona 85281
toll-free 1.877.964.4188
local 480.966.1380



### READY - OUTSIDE INTEREST





#### THE GOALS?

Arizona - #1 in global solar supply
Arizona - #1 solar education & training
Arizona - #1 in solar applications

### PART THREE — HOW WE GET THERE

> A Five Step Plan

#### STEP#1

#### DEVELOP MEDIA CAMPAIGN

- Declare Arizona a solarfriendly state
- Proclaim October solar energy month
- \*Attend dedications of solar facilities (ADEQ, APS, TEP)

#### STEP#2

## PROMOTE ÁRIZONA AS THE "SOLAR ENERGY STATE"

- \*Encourage solar companies to move to Arizona
- \*Encourage Solar Associations to *meet* in Arizona

## PROMOTE ECONOMIC OPPORTUNITIES

- Communicate solar opportunities to leaders
- \*Support HB 2693 Renewable Resource Study Committee
- \*Announce an SEB target

  (Solar Economic Benefits)

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#### STEP#4

### SET A GOOD EXAMPLE

- \* Encourage and support solar in state buildings and parks
- Work with ADOA on implementation
- \*Work with ADOC to develop solar 'technology clusters'

#### STEP #5

## RELEASE THE "WORKER" BEES"

\*Assign the EO/ASEAC the responsibility of making Arizona the Solar Energy State

### REAP THE REWARD\$



## WILL WE SEIZE THE OPPORTUNITY?



### ARIZONA



THE SOLAR STATE

#### KEYRECOMMENDATIONS

- Promote Solar Energy as a Natural Element of a Strong Arizona Economy
- Direct the AEO/ASEAC to "Make it Happen"

### WHY NOT ARIZONA?



## A REPORT AND PROPOSAL OF THE ARIZONA SOLAR ENERGY ADVISORY COUNCIL

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