

# Yavapai-to-Chino Valley/Paulden 69-kV Facilities Siting Project

September 2004 • Issue 2

## APS System Improvements Necessary for Reliability

Growth in Yavapai County in recent years has resulted in APS' electric infrastructure nearing its capacity. To keep up with growth and provide area customers with reliable service, APS plans to upgrade and construct new electrical facilities in the areas of Paulden and Chino Valley.

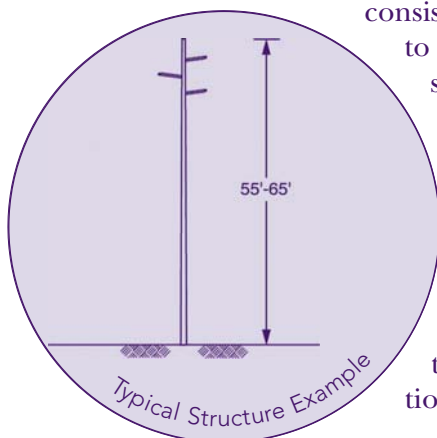
According to the 2000 census, Yavapai County's population grew by nearly 40 percent between 1990 and 2000. This compares to a national growth of about 13 percent during the same period. Maintaining and improving electrical facilities is critical to providing reliable service in the area.

This newsletter is being distributed to provide information on scheduled electrical improvements in the Chino Valley and Paulden areas and invite the public to upcoming open houses/scoping meetings to learn more about, and comment on, our upcoming projects. The meetings are scheduled for:

- October 5 from 5:30 to 7:30 p.m. at the Territorial Elementary School, 1088 Mahan Lane in Chino Valley; and
- October 7 from 5:30 to 7 p.m. at the Chino Valley Fire District Station, 250 W. Midway Drive in Paulden.

This project involves the construction of three separate 69-kilovolt (kV) transmission lines. These lines will be built on single-pole structures, approximately 55 to 65 feet tall, and consist of self-weathering or dulled steel

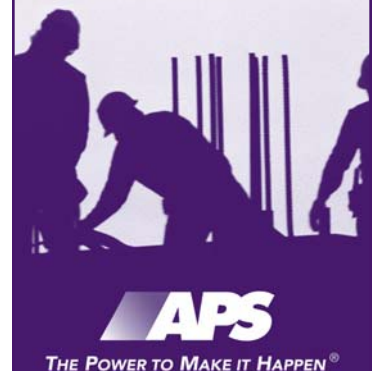
to blend into the surrounding landscape. Portions of the lines also will include consolidating existing 12-kV distribution lines with the proposed 69-kV transmission line. (See diagram of typical structure example.) In addition to the 69-kV lines, two new substations will be constructed as part of these system improvement projects. A substation serves as a gateway for electricity



## In this Issue

- Yavapai Substation to Chino Valley
- Paulden Area Improvements
- The Ranch at Del Rio Springs Improvements

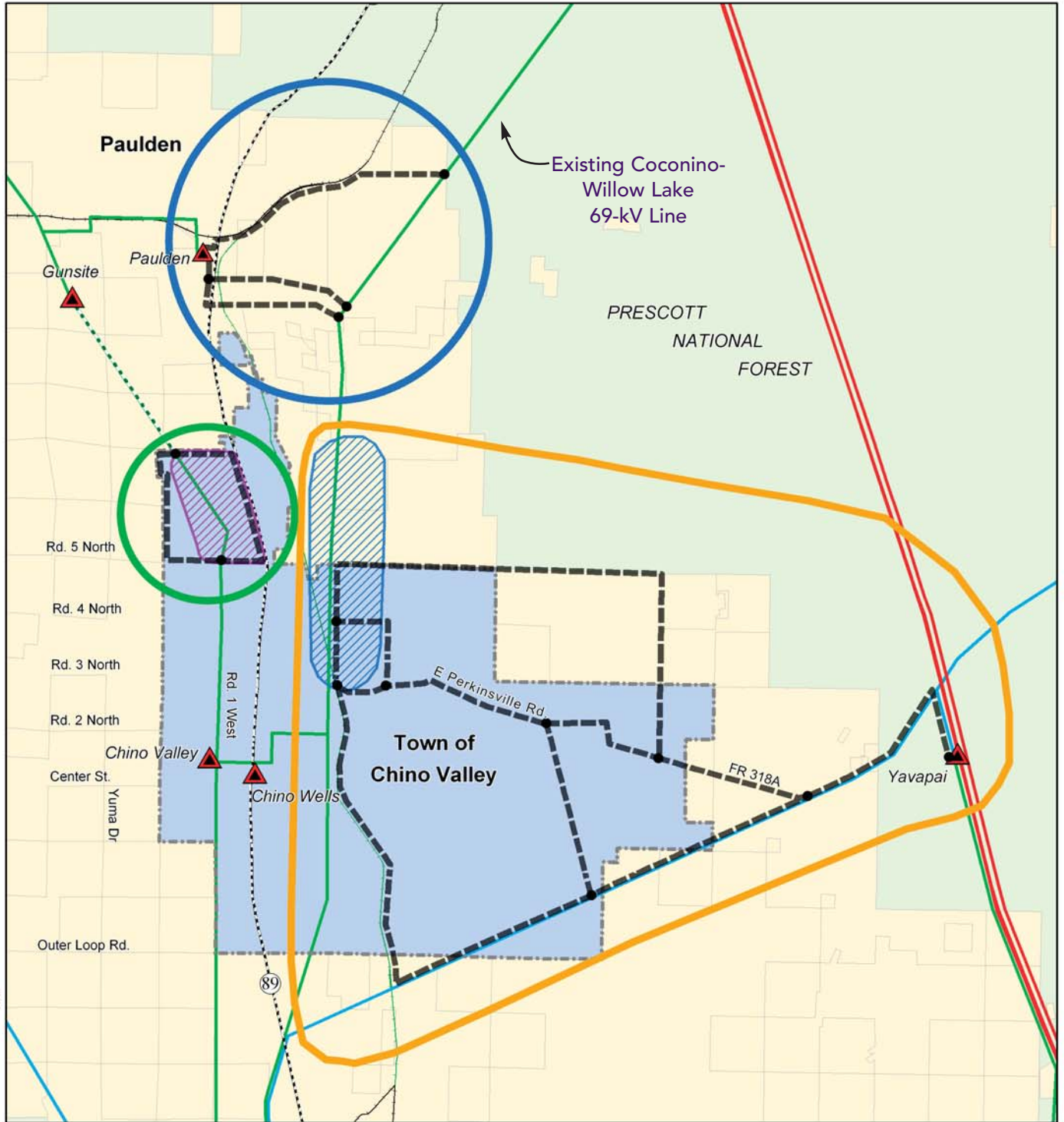
Questions?  
Call (928) 776-3619



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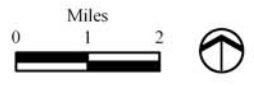
For more information, please visit the project Web site at <http://siting.apsc.com>



**Legend**

- |   |                            |   |
|---|----------------------------|---|
| Yavapai Substation to Chino Valley (CV3 Substation) | CV3 Substation Siting Area | 500kV Transmission Line                   |
| Paulden Area Improvements                           | CV4 Substation Siting Area | 230kV Transmission Line                   |
| The Ranch at Del Rio Springs Improvements           | U.S. Forest Service        | 69kV Transmission Line                    |
| Alternative Routes                                  | Town of Chino Valley       | 69kV Transmission Line Rebuild in Place   |
| Existing Substation                                 | Yavapai County             | Highway                                   |
|   |                            | Railroad                                  |
|   |                            | Abandoned Railroad (current trail system) |
|   |                            | Town of Chino Valley                      |

**PRELIMINARY ALTERNATIVE ROUTES**



*According to the 2000 census, Yavapai County's population grew by nearly 40 percent between 1990 and 2000. This compares to a national growth of about 13 percent during the same period.*

distribution, reducing high-voltage to lower levels so it can be distributed and used in homes and businesses locally.

The map depicts potential route options for each of the three 69-kV transmission lines to be constructed in separate areas. These areas are further described inside this newsletter:

- A new 69-kV line between the existing Yavapai Substation and new CV3 Substation;
- A new 69-kV line between the existing Paulden Substation and the existing Coconino-Willow Lake 69-kV line; and
- A relocated or rebuilt 69-kV line within The Ranch at Del Rio Springs development and a new 69-kV substation site.

When siting new facilities, APS considers such criteria as engineering and construction, electrical system requirements, right-of-way issues, public input and environmental factors such as visual and land use impacts. APS also strives to consolidate new and existing lines and follow existing linear features such as transmission lines, roads and pipelines.

### **Yavapai Substation to Chino Valley**

A portion of the project would cross lands administered by the Prescott National Forest (see map). Because these are federal lands, this project must comply with the National Environmental Policy Act and an environmental assessment (EA) will be prepared for the project under the direction of the Forest Service.

The EA will identify and evaluate the natural, human, and cultural resources in the study area, and determine how the project can be constructed to minimize effects on the environment and local communities. EPG Inc., an environmental consulting firm, has been retained by APS and the Forest Service to conduct the environmental studies and prepare the EA.

The environmental studies involve collecting and analyzing resource data for the study area, evaluating potential impacts of proposed transmission line routes, identifying how to mitigate (or reduce) those impacts, and preparing the EA. Further information on the EA will be available on the project Web site this winter.

### **Paulden Area Improvements**

APS also is planning a 69-kV line connection between the existing Paulden Substation and the Coconino-Willow Lake 69-kV line. There are several route options for this new interconnection, as shown on the map. Once this connection is complete, the Paulden Substation will have two independent sources of power, further strengthening the electrical system in the Paulden area.

### **The Ranch at Del Rio Springs Improvements**

APS has been planning to upgrade and rebuild, in-place, a portion of the existing 69-kV line that runs from the Gunsite Substation, northwest of Chino Valley, south to the Chino Valley Substation. Recently, the developer of The Ranch at Del Rio Springs requested APS relocate the line to the perimeter of the development. Additionally, because of the expected load growth from this development, a new substation will be required. APS will continue to work with the Town of Chino Valley, citizens in the area, and the developer on the siting of the substation and the proposed rebuild or relocation of the 69-kV line.

Information on these and other APS siting projects can be found by visiting our Web site at <http://siting.apsc.com>. Questions or comments on the Yavapai-to-Chino Valley/Paulden project can be directed to (928) 776-3619.





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**IMPORTANT INFORMATION  
FOR PROPERTY OWNERS**



## **Yavapai-to-Chino Valley/Paulden 69-kV Facilities Siting Project**

Please attend the upcoming

### **Public Information Open House/Scoping Meetings**

Tuesday, October 5, 2004  
5:30 to 7:30 p.m.

Territorial Elementary School  
1088 Mahan Lane, Chino Valley

Thursday, October 7, 2004  
5:30 to 7 p.m.

Chino Valley Fire District Station  
250 W. Midway Drive, Paulden

If you are unable to attend the open house, please visit our Web site at <http://siting.apsc.com> or call (928) 776-3619 to learn more about the project.