

The Iowa Stored Energy Plant

A Project Review and Update

October 20, 2005

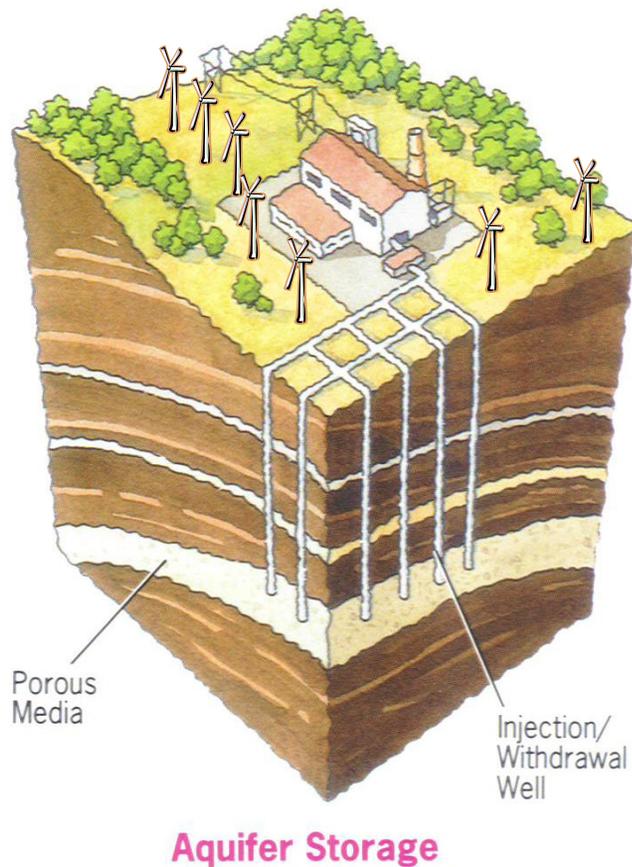
Peer Review

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ACKNOWLEDGMENTS

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The Iowa Stored Energy Plant (ISEP)



3 Proven Technologies

1. Wind generators
2. Aquifer storage
3. Combustion turbines

The Alabama CAES plant

Alabama
Electric
Cooperative

McIntosh
Power Plant



Why are we going to build the Iowa Stored Energy Plant?

- We'll make wind energy dispatchable.
- Economical intermediate power.
- Valuable ancillary services.

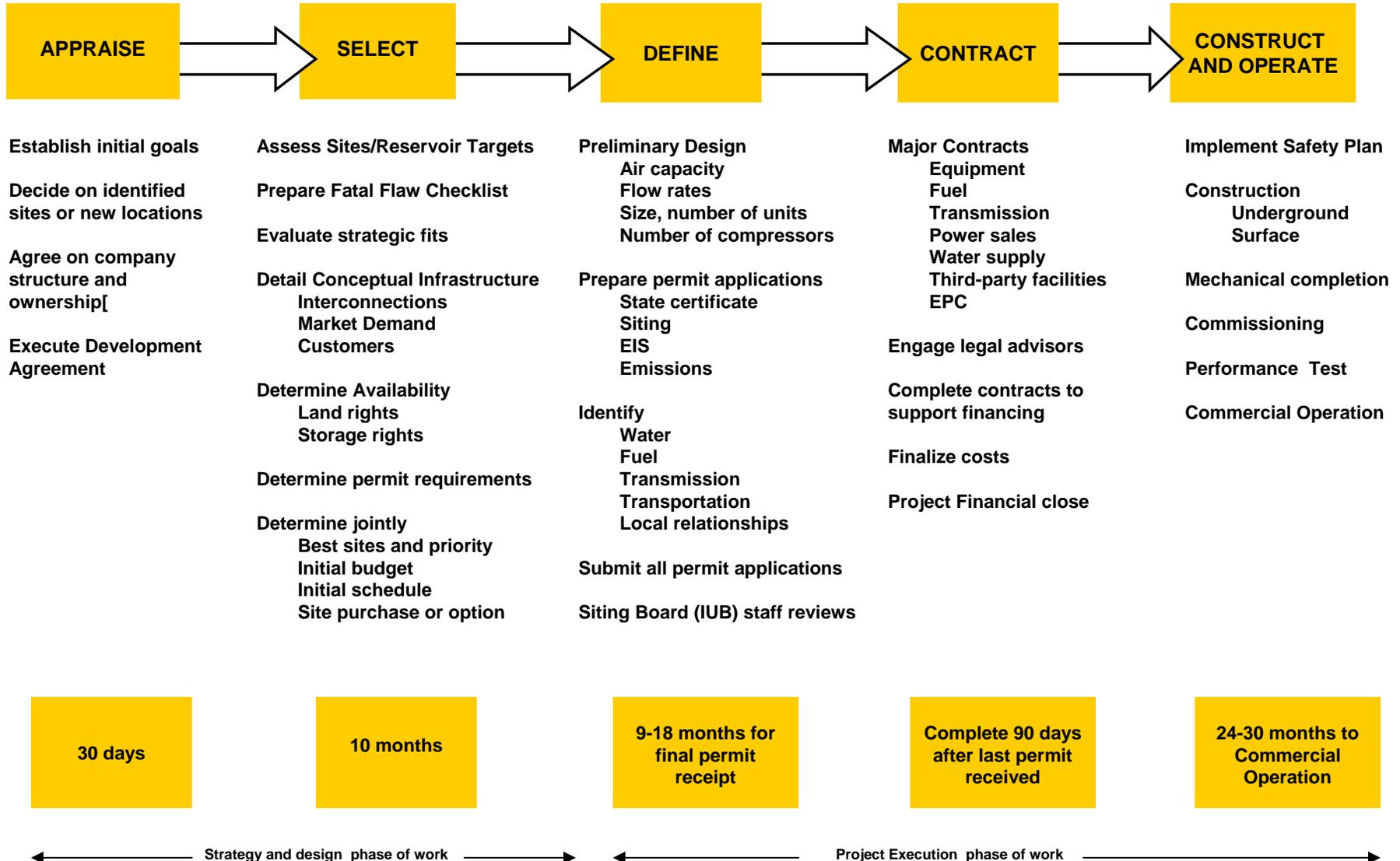
- **Municipal Utilities have invested almost \$1,000,000 in ISEP for development.**
- **Soon we will be soliciting capacity purchases in the plant, which is estimated to cost \$300,000,000**

\$1,000,000 in Federal funding.

- Conceptual design: *Burns & McDonnell*
- Geological review of original site: *Fairchild & Wells.*
- Market analysis and pro forma: *Black & Veatch.*
- Alternate site investigation: *Hydrodynamics.*
- Plan development for completion of Project: *Electricity and Air Storage Enterprises.*
- Educational Program: *Hellman & Associates*

THE CAES DEVELOPMENT PROCESS

Electricity and Air Storage Enterprises, LLC



What's next?

- Seismic testing of top ranked site(s).
- Test well(s).
- Announcement of project to public.
- Identification and processing of legal issues.
- Expected operation – April, 2010.