

TVA Nuclear Future



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TVA History



- **TVA Act – Part of FDR’s “New Deal”**
- **Regional recovery from Great Depression**
- **Focused on river and natural resources**
- **Dams tamed river and produced power**
- **War needs – more dams**
- **Post war boom economy – fossil power**
- **Atomic energy tamed for power generation**



TVA – Moving Nuclear Forward

- With the addition of Browns Ferry 1, TVA now has six operating reactors at three sites
 - 6,670 MWe net capacity
- Watts Bar Unit 2 will add another 1180 MWe.
 - TVA Board approved and construction has started
- Bellefonte Combined Licensing Application
 - Submitted to NRC fall 2007
- TVA demonstrating that complex nuclear projects can be completed as planned



Browns Ferry

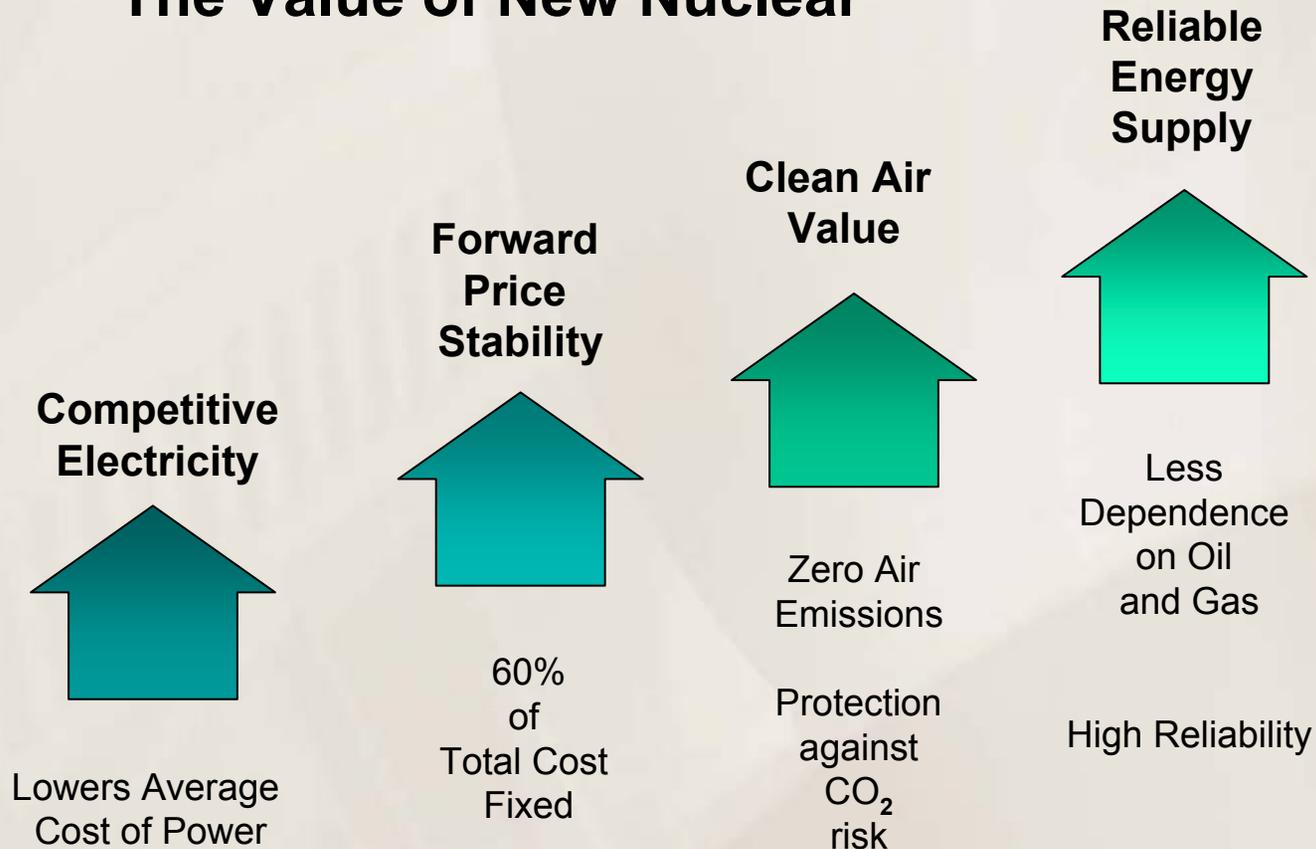


Watts Bar



Nuclear for the Future Because...

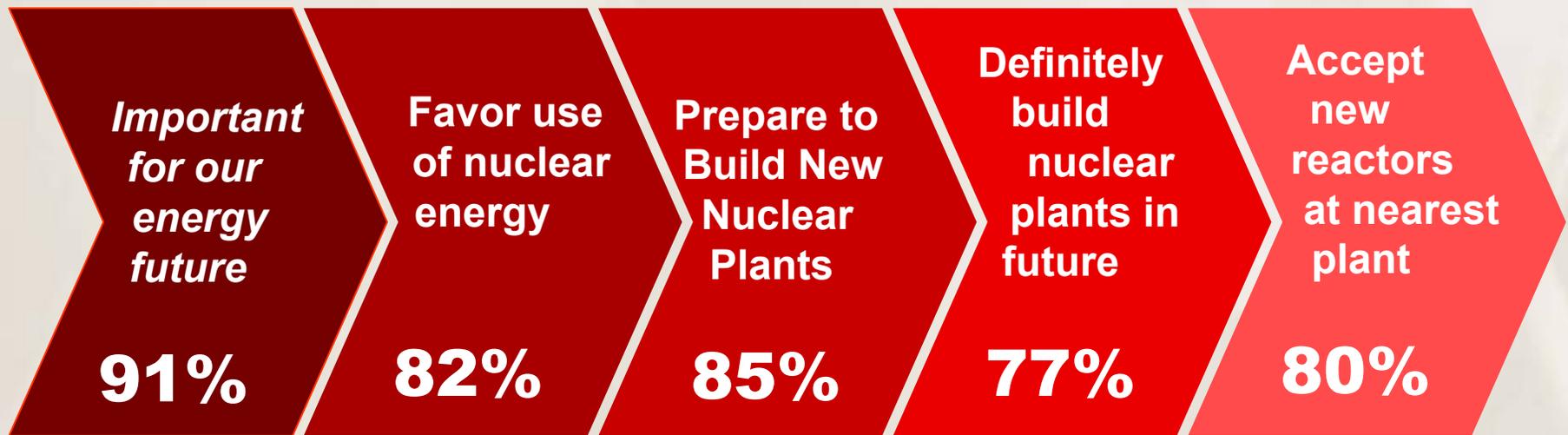
The Value of New Nuclear





Public Support for Nuclear

Public Opinion in Plant Communities



Source: *Bisconti Research Inc. July-August 2007*

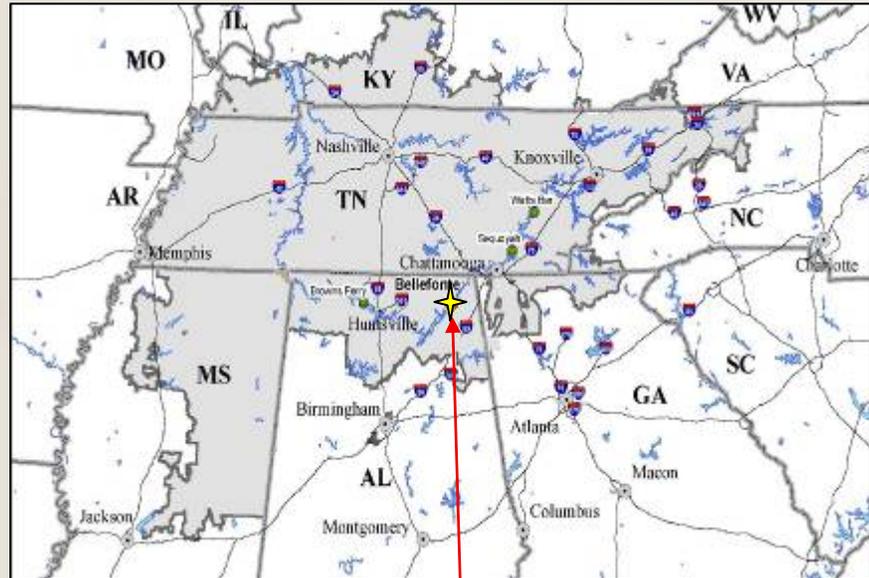


TVA's Next Nuclear Option for Adding Base Load Generation

Bellefonte Option



Identified Power Planning
Need
2016-19

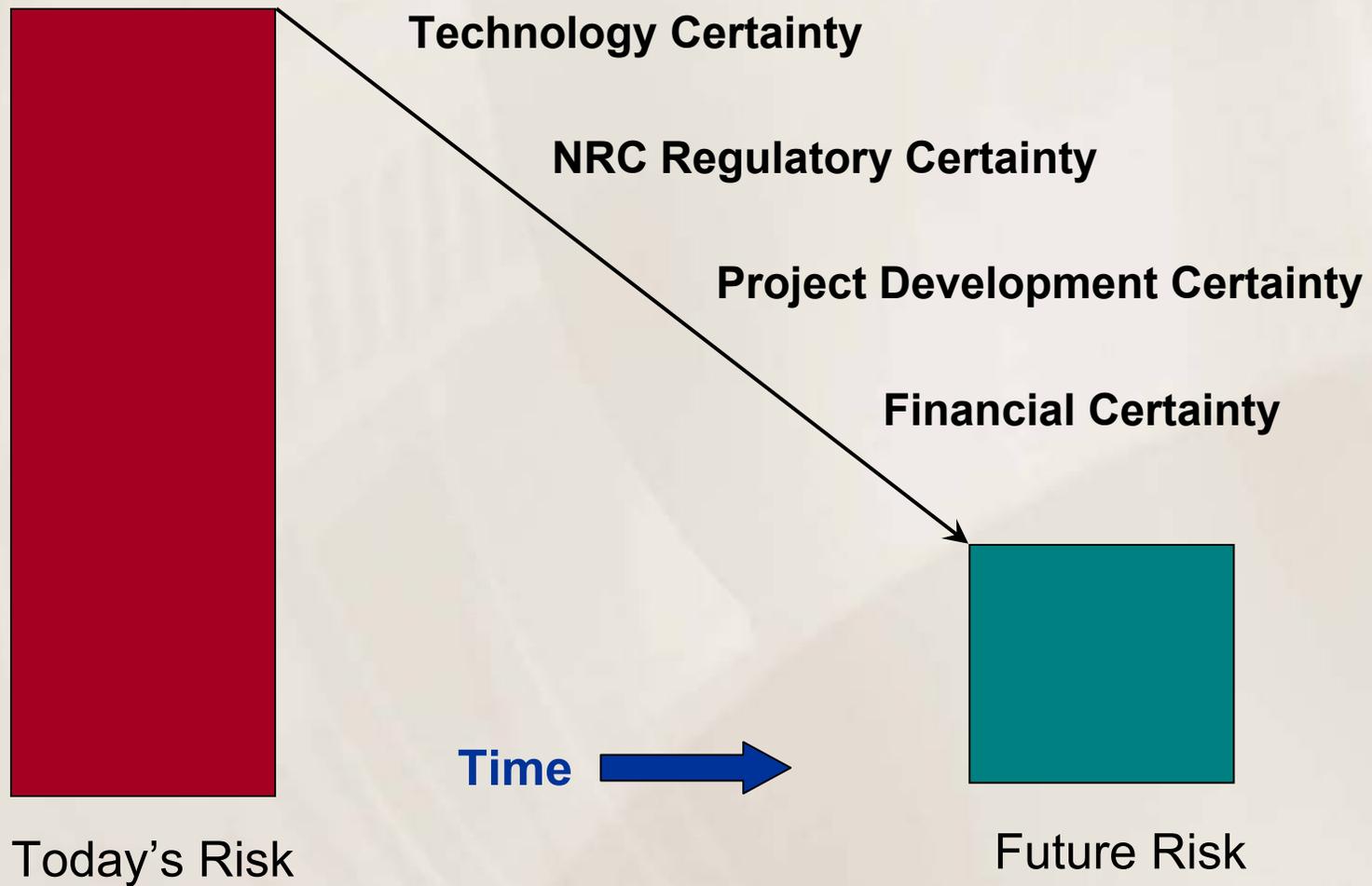


Bellefonte Site
(Alabama)



Industry Approach: Incrementally Increasing Certainty

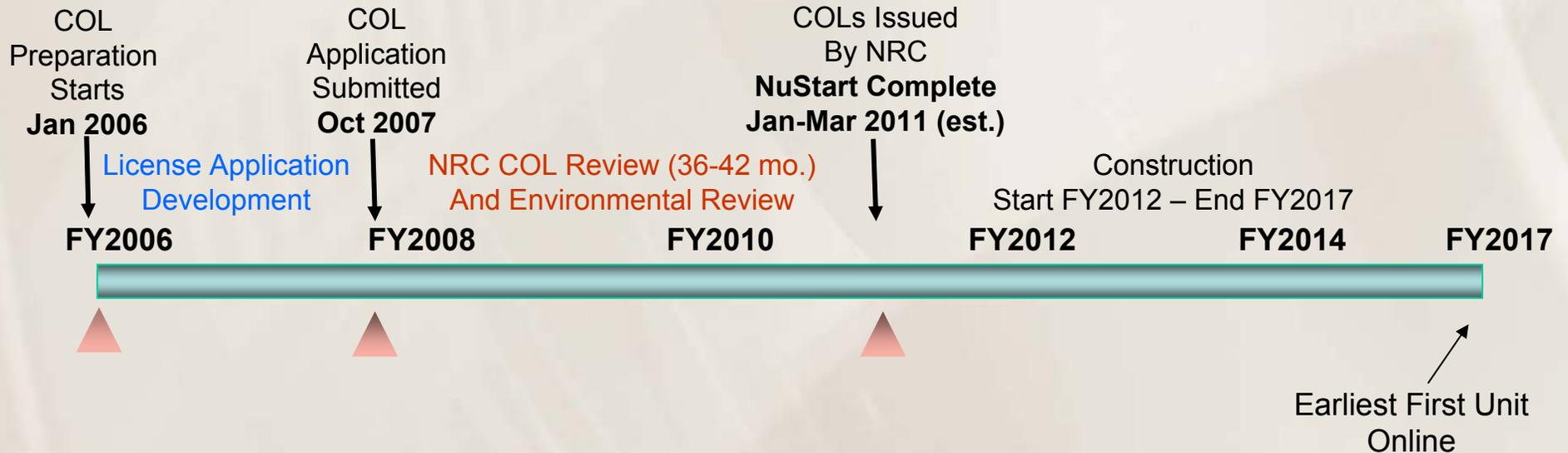
Manage the risk in a planned deliberate manner





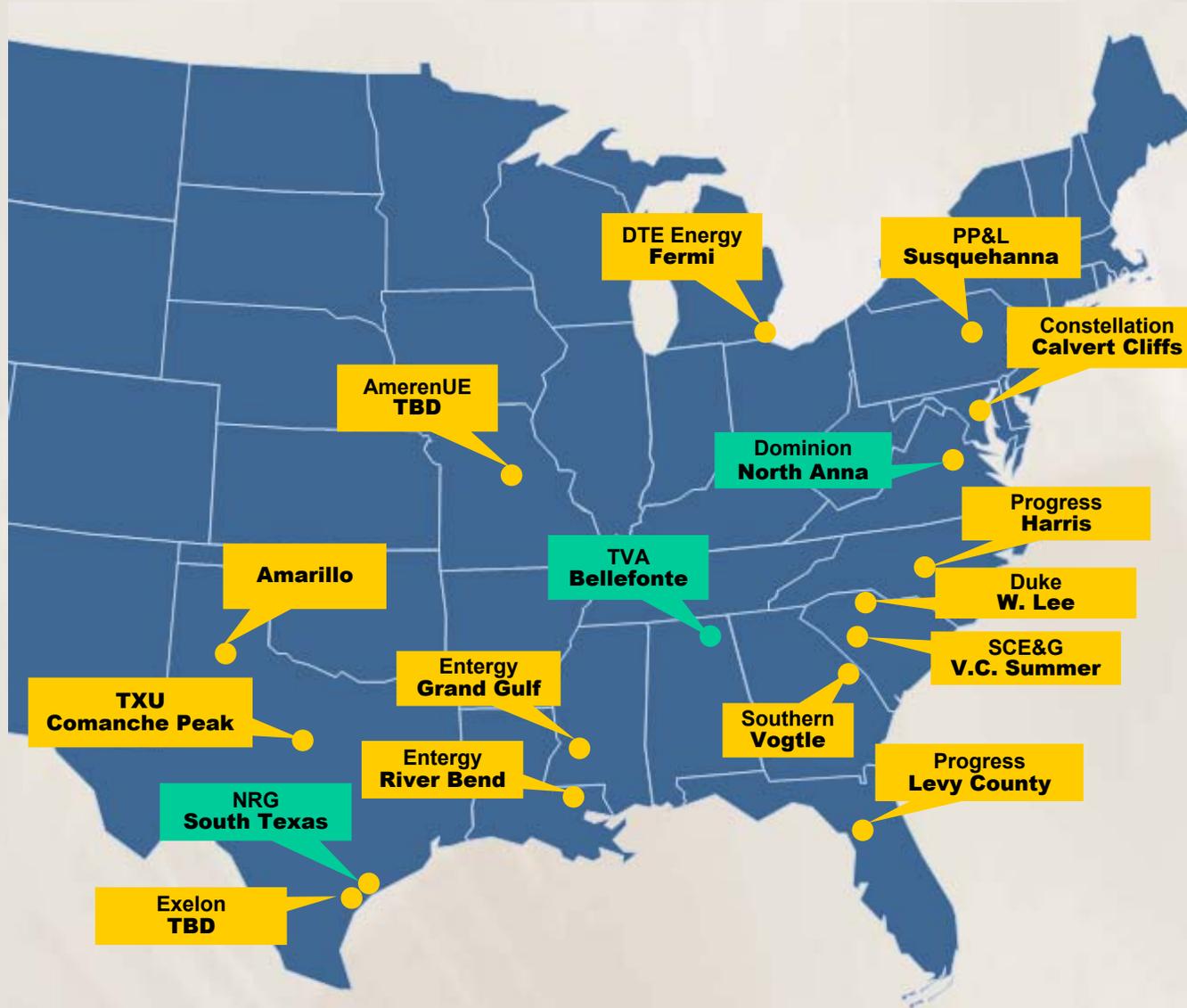
NuStart Bellefonte Schedule

- Current Status
 - In October 2007, TVA submitted the license application for Bellefonte





License Application Projects





Major Hurdles for New Plant Construction



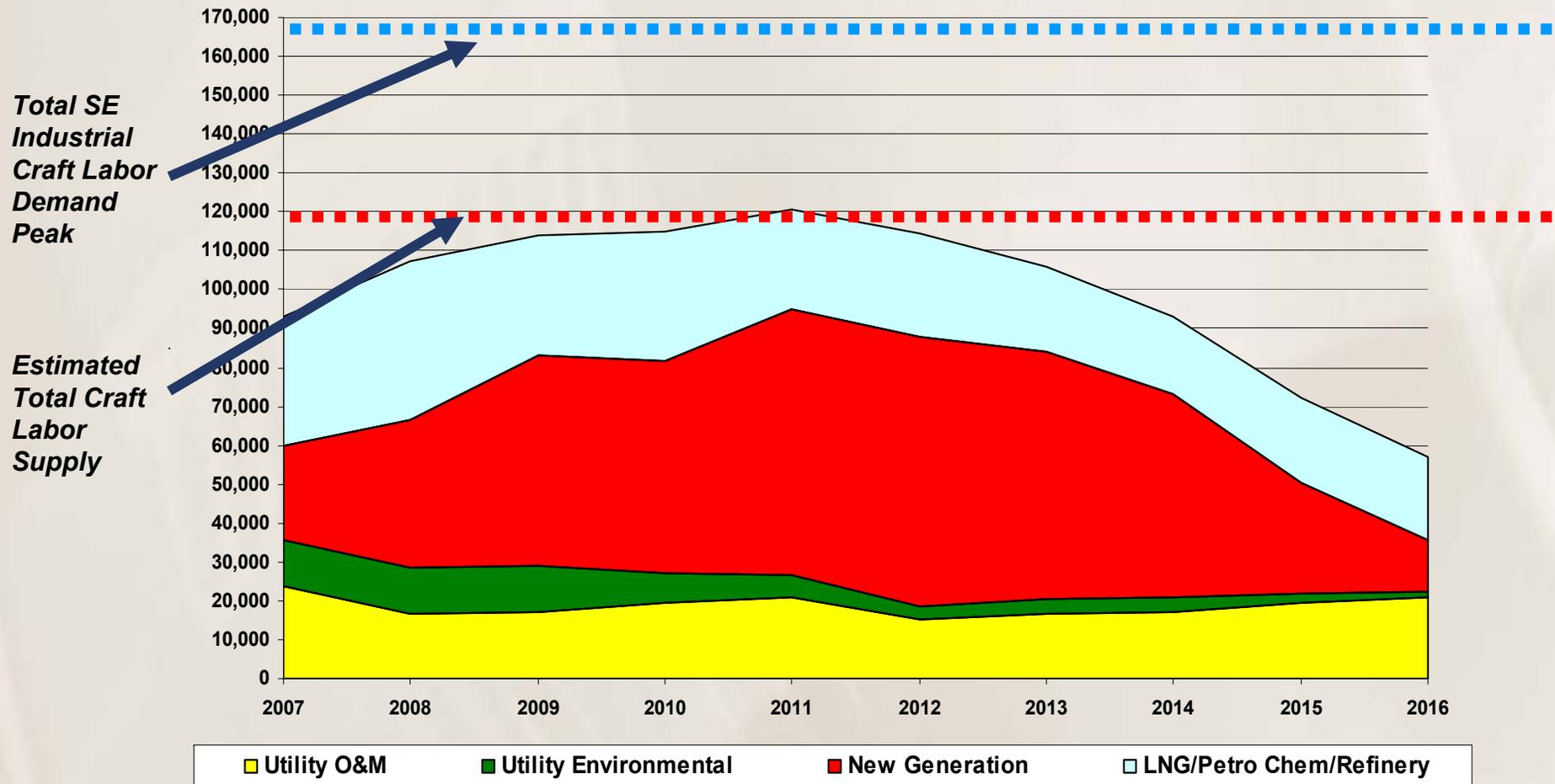
As we start construction, we'll need:

- manufacturers to make equipment and other products
- a work force with the necessary skills and training
 - crafts – electricians, pipe fitters, welders
 - technical – engineers, quality inspectors
 - managerial – planners, schedulers, project managers
- cooperation among communities, educational institutions and industry.
 - Alstrom expansion announced



SE Construction Labor Challenges

Craft Labor Demand - Southeast Energy Industry



Data drawn from SEMTA and Southern Company market research.



Summary Messages

- TVA is proceeding to develop additional nuclear options in a conservative and planned manner.
 - Watts Bar 2
 - NuStart project at Bellefonte.
- TVA is playing a key role ensuring that nuclear power is an important part of America's and the Valley's energy mix, now and in the future.
- We need your help to help our communities prepare to take advantage of the opportunities to come.

