

Summary of the Panel Discussion Session

The Challenges

- System integration/requirements of nuclear power plants (NPPs), e.g., chemicals, materials, general process needs
- Safety/radiological issues
- Feedstock: transport and location
- Region-specific needs
- Building infrastructure
- Initial investment and general financing issues
- Public acceptance

Challenges (Cont.)

- Specific to hydrogen economy: supply and storage
- Analysis tools and predictive modeling needs
- Understanding real market needs
- Political will
- IAEA role to be strengthen, better defined
- Regulatory institutions and guidance
- Socio-economic and environmental concerns and need for near-term solutions

Suggested solutions/actions

- Share international experience in nuclear infrastructure planning and building, possibly through the IAEA
- Educate the public to alleviate concerns, also with IAEA leadership
- Leverage existing, and develop additional, required analysis tools in planning and implementation of nuclear applications
 - Clearly identify opportunities, markets, customers, suppliers, investors and understand short- and long-term needs
- Move quickly to demonstration projects of non-electrical nuclear energy applications, with IAEA leadership
- Engage potential investors/financers in planning to “make things happen” (e.g., The World Bank?)
- Develop the regulatory infrastructure as soon as possible