



GLOBAL
CCS
INSTITUTE



Industrial CCS – A Global Perspective

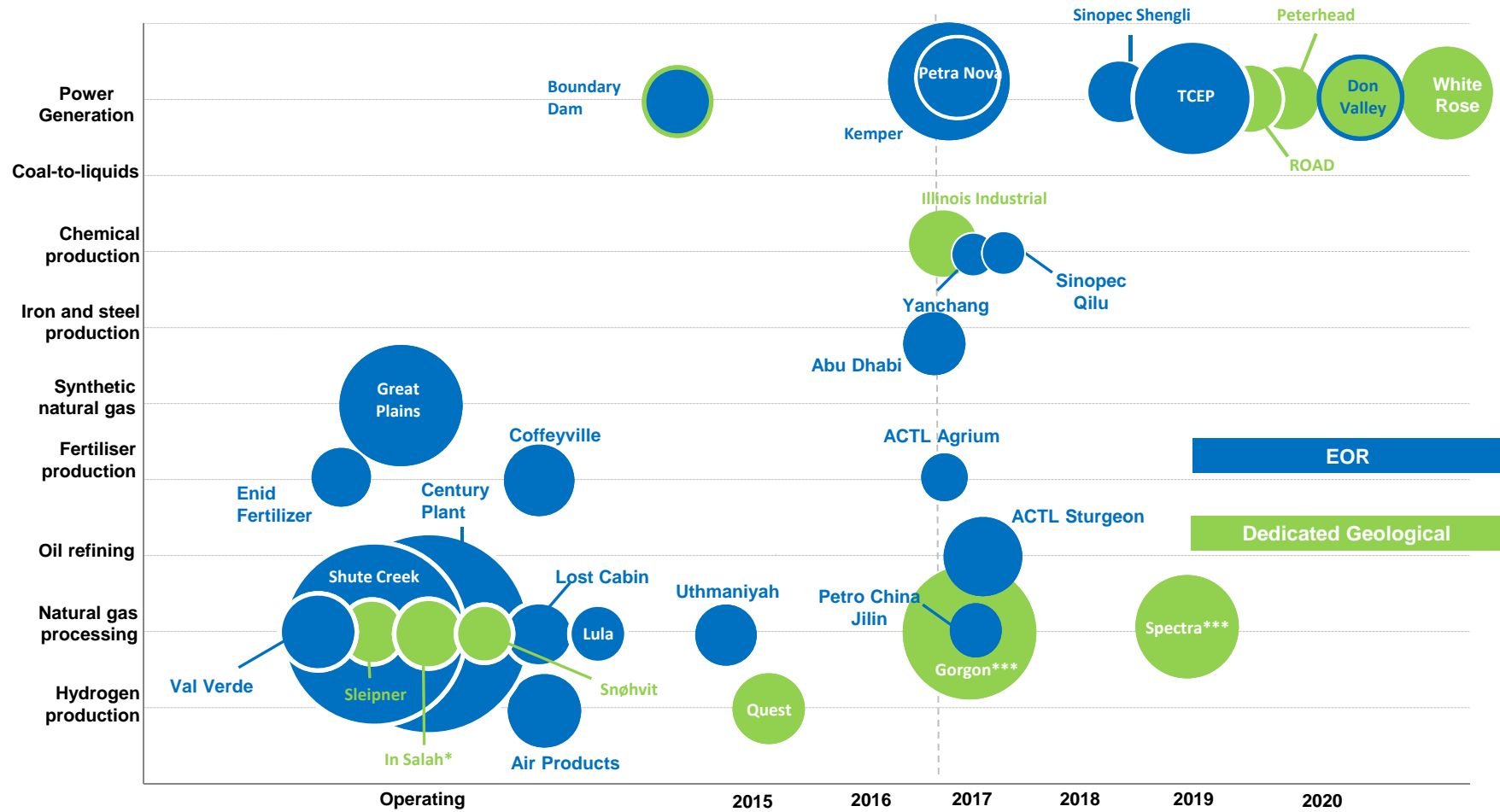
Industrial CCS Forum

November 3, 2016

Cover image: Overlooking the Quest Capture facility located at Shell - Scotford, near Fort Saskatchewan, Alberta. Image provided by Shell.



Carbon Bubbles



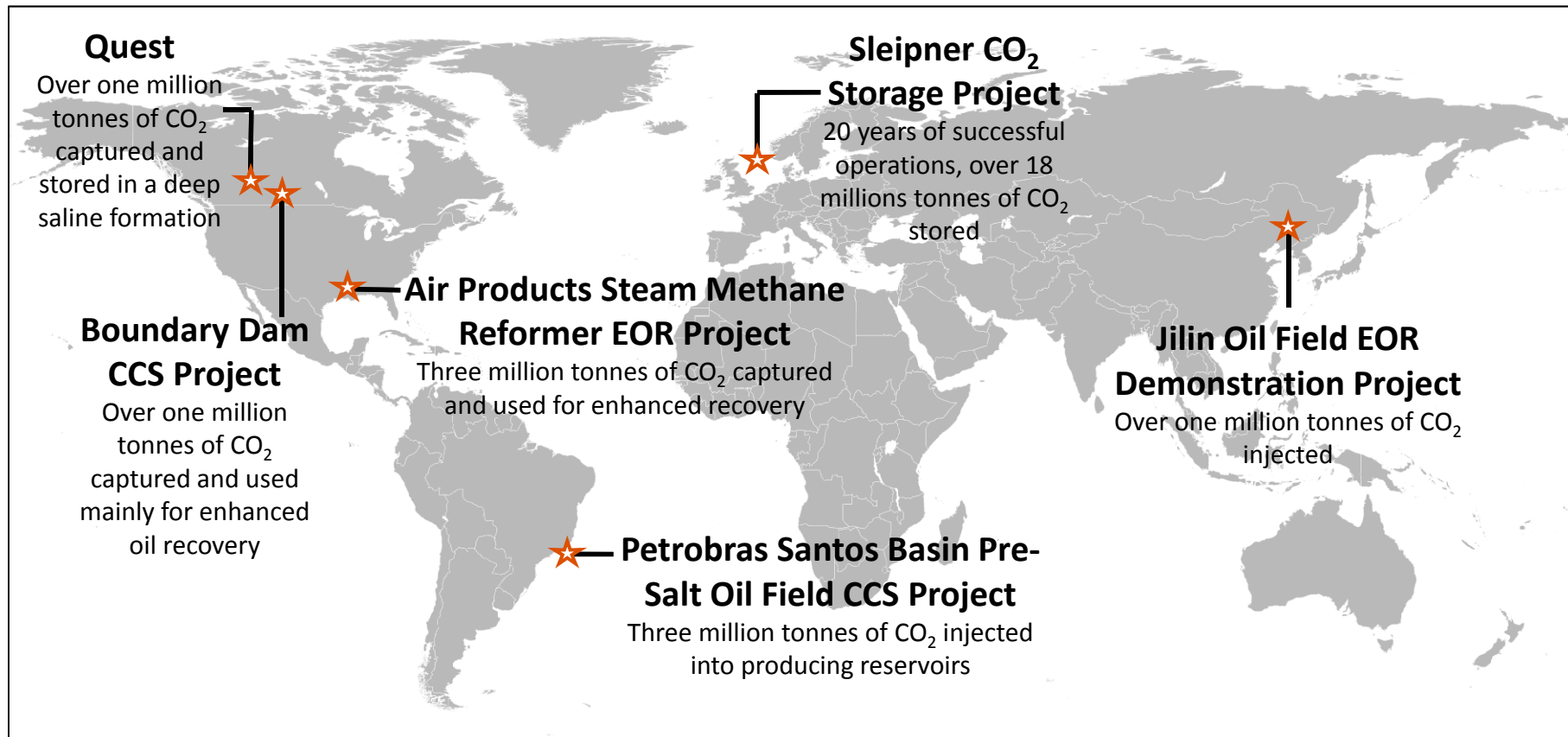
○ = 1Mtpa of CO₂ (areas of circle are proportional to capacity)

* Injection currently suspended

*** Institute estimate

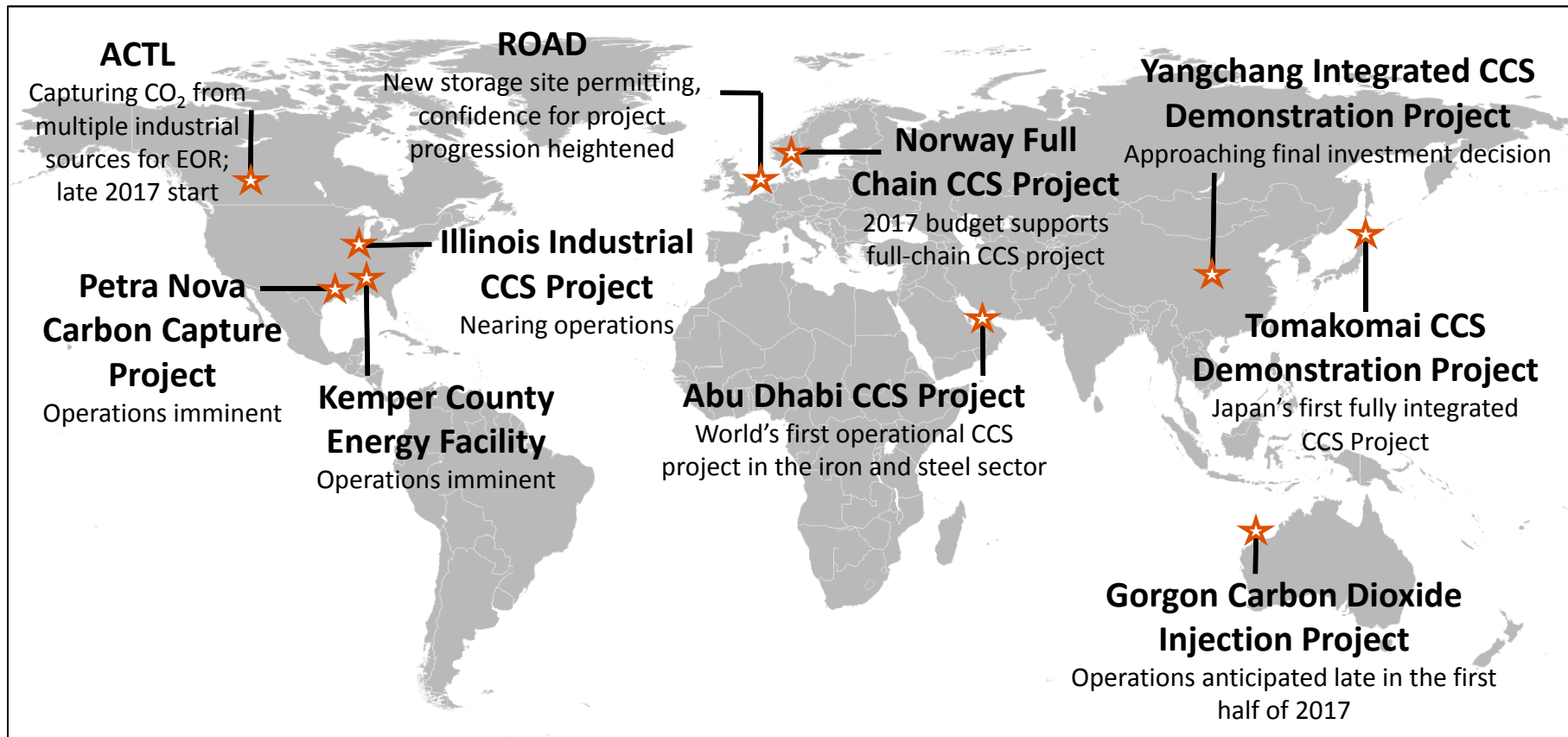


Carbon Capture Operational Milestones





Carbon Capture Project Startups





Alberta Carbon Trunk Line

Project Proponent	Enhance Energy
Anchor Sources	<ul style="list-style-type: none">• Northwest Redwater Refinery• Agrium Fertilizer Plant
Pipeline	<ul style="list-style-type: none">• 150 miles• Capacity -14.6 MTPA• Initial Flow – 1.6-2.0 MTPA
Developer Role	<ul style="list-style-type: none">• Compression at refinery and fertilizer plant• Pipeline• EOR
Funding	<ul style="list-style-type: none">• CA\$495 million from Province of Alberta• CA\$63 million from Government of Canada



What can we do?

- Strengthen the science
- Exit the echo chamber – expand the tent
- Advocate for policy support
- Encourage business leaders to invest in carbon capture

Jeff Erikson

General Manager, Americas

jeff.erikson@globalccsinstitute.com

1 202-895-2785

Washington, DC

www.globalccsinstitute.com

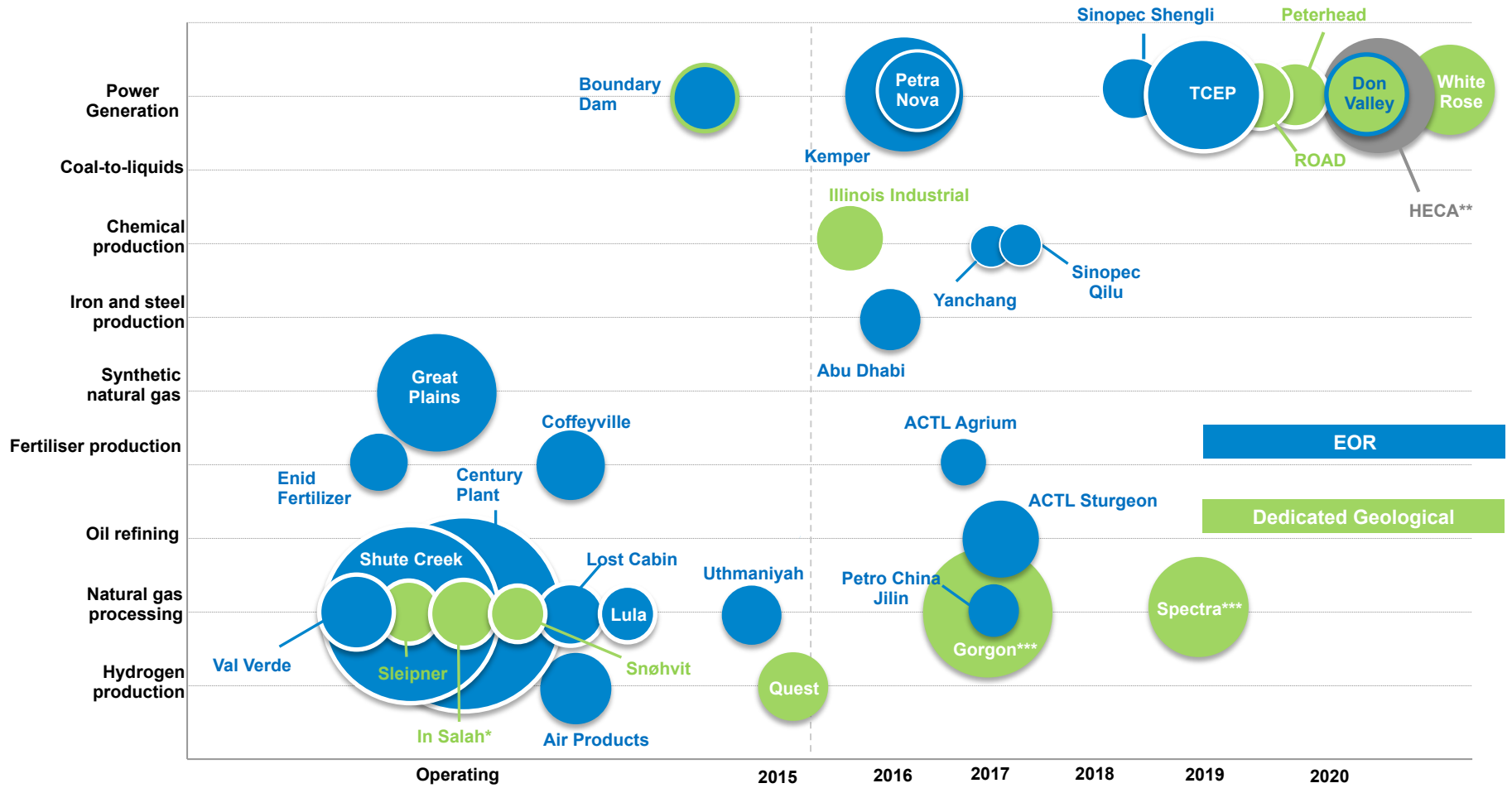


GLOBAL
CCS
INSTITUTE

GLOBALCCSINSTITUTE.COM



Actual and expected operation dates for projects in operation, construction and advanced planning



= 1Mtpa of CO₂ (areas of circle are proportional to capacity)

* Injection currently suspended ** Storage options under evaluation

*** Institute estimate