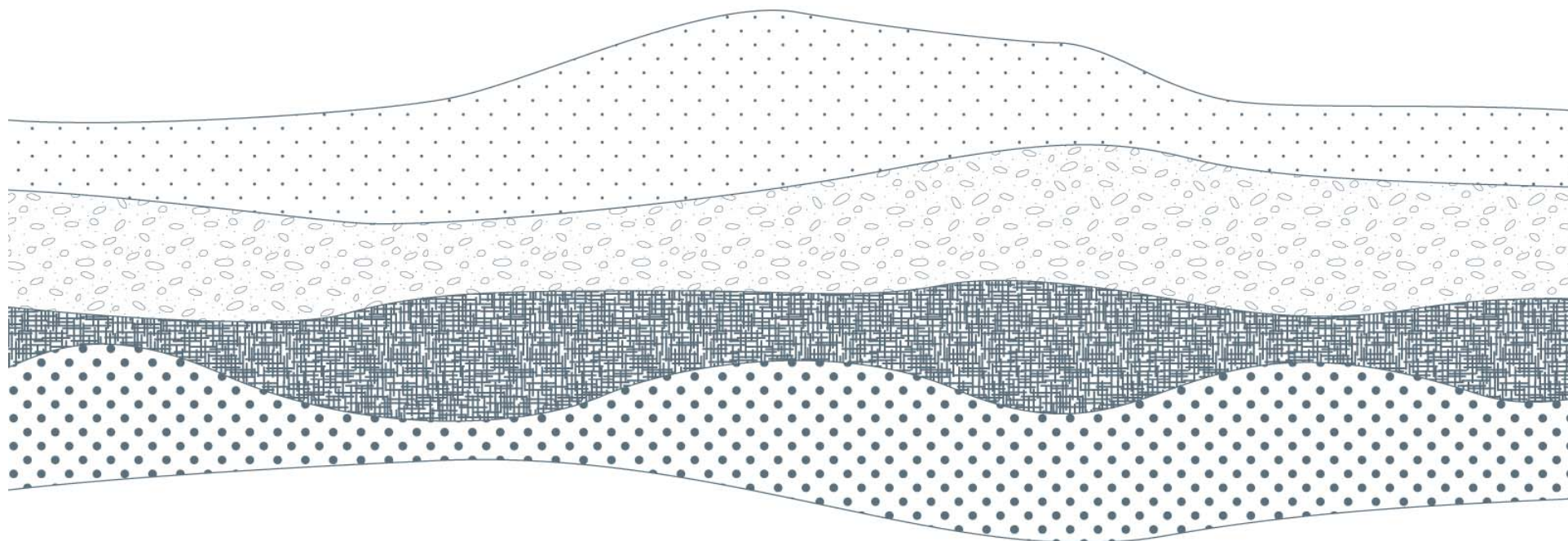




CCSa – Recent Developments and Next Steps

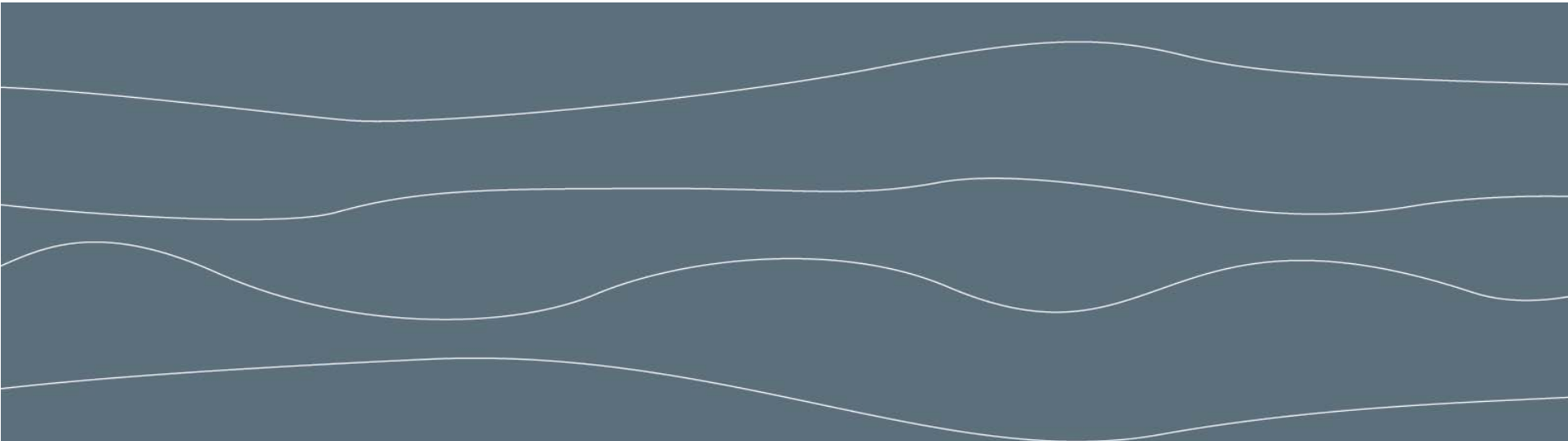
Mark Bonner

GLOBAL CCS INSTITUTE

Cancun, Mexico – 1 December 2010

PRESENTATION OUTLINE

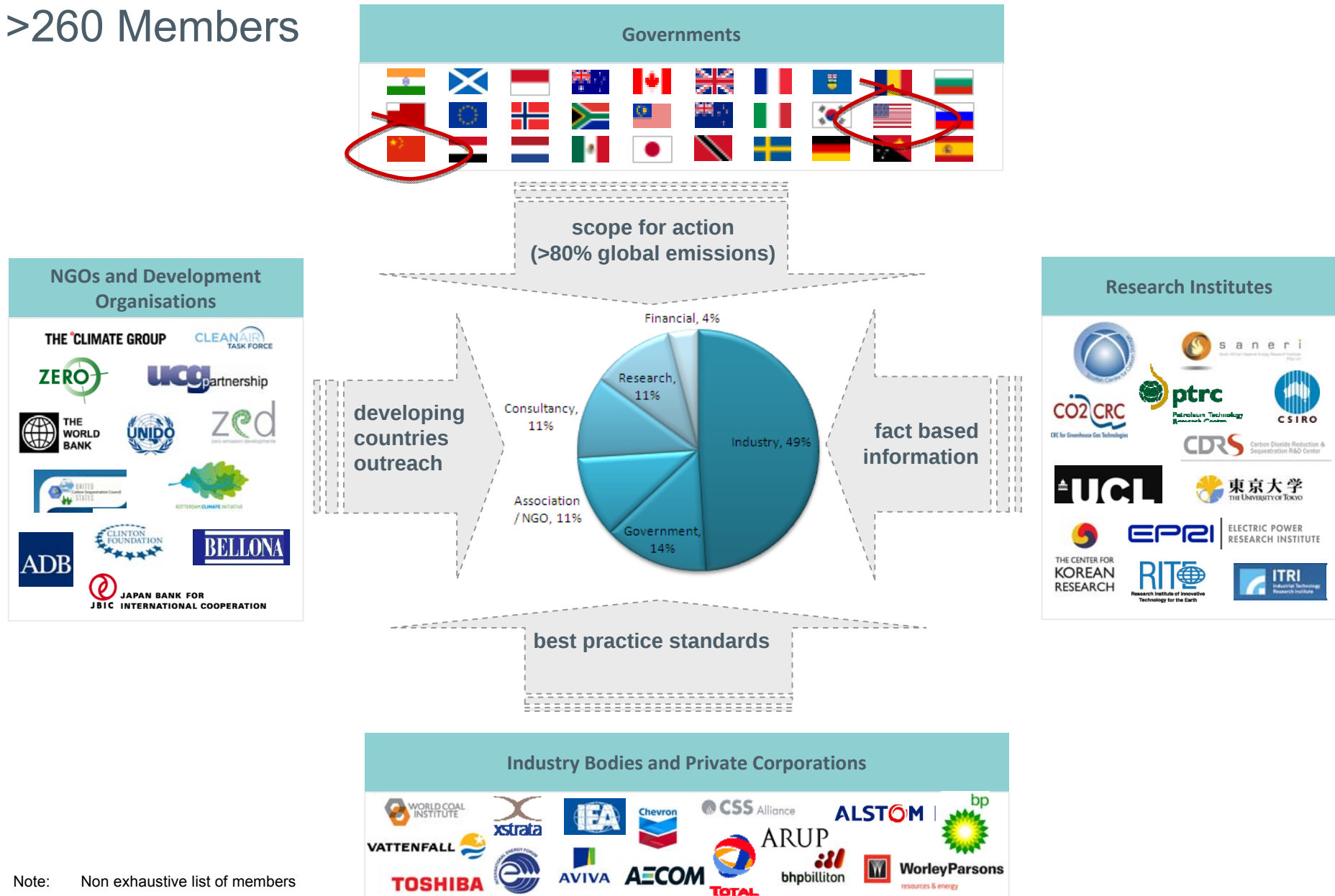
1. The Institute
2. Status of CCS projects



THE INSTITUTE

UNIQUE BUSINESS MODEL

>260 Members



Note: Non exhaustive list of members

GLOBAL CCS INSTITUTE

Strategic Framework



Sharing knowledge

Respond to and inform country driven requests and requirements (including Government's, industry and CCS stakeholders)

Fact based advocacy

Provision of evidence based information and derived knowledge

Assisting projects

Create an environment that supports CCS applications

CLIMATE TECHNOLOGY CENTRE & NETWORK MODEL

Institute strongly positioned to play its part

CTC&N's SIX KEY FUNCTIONS

- 1 Provide advice and support related to the identification of technology needs and the implementation of environmentally sound technologies, practices and processes
- 2 Provide information, training and support for workforce development programs to build or strengthen capacity to identify technology options, make technology choices and operate, maintain and adapt technologies
- 3 Facilitate prompt action on the deployment of existing technologies in developing country Parties based on the identified needs
- 4 Stimulate and encourage the development and transfer of existing and emerging environmentally sound technologies as well as opportunities for North-South, South-South and triangular technology cooperation
- 5 Develop and customize analytical tools, policies and best practices for country-driven planning to support the dissemination of environmentally sound technologies
- 6 Establish and facilitate a Climate Technology Network

GCCSI Strategic Framework

ENABLING STRATEGIES						PROJECTS			REGIONAL PROFILES & GLOBAL SERVICES	MEMBERS
Policy & Regulatory	Financial & Commercial	Public Engagement	Technical	Capacity Development	Knowledge Sharing	Strategic Analysis of Projects	Project Support Program	Thematic Focus Groups		



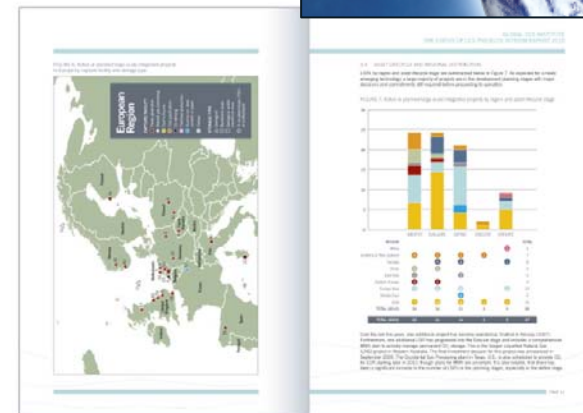
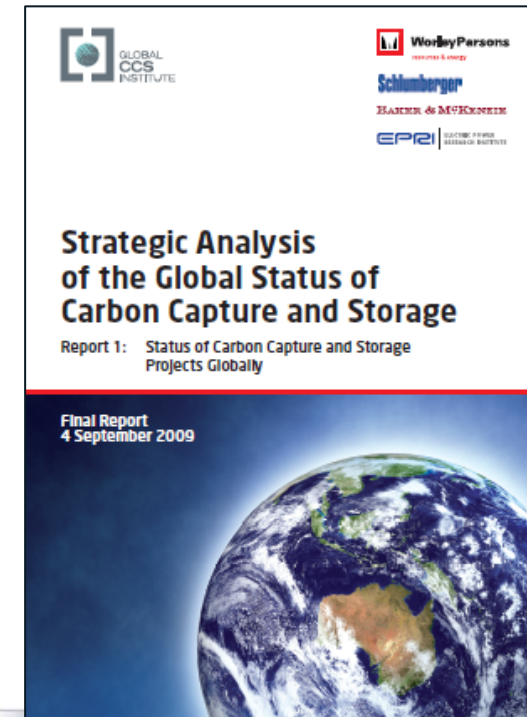
note: tick indicatives strong alignment of current Institute capabilities to engage in CTC&N model

The background is a solid dark blue color. In the upper portion, there are four horizontal, wavy white lines that span the width of the image, creating a layered, water-like effect.

CURRENT STATE OF PLAY

CCS ACTIVE/PLANNED PROJECTS WORLDWIDE

- 2009: 213
- 2010: 242 } >10% growth
- Large integrated projects: growth from 67 to 85 } 20% growth
- Over 85 per cent of identified projects in early stages



LARGE SCALE INTEGRATED PROJECTS

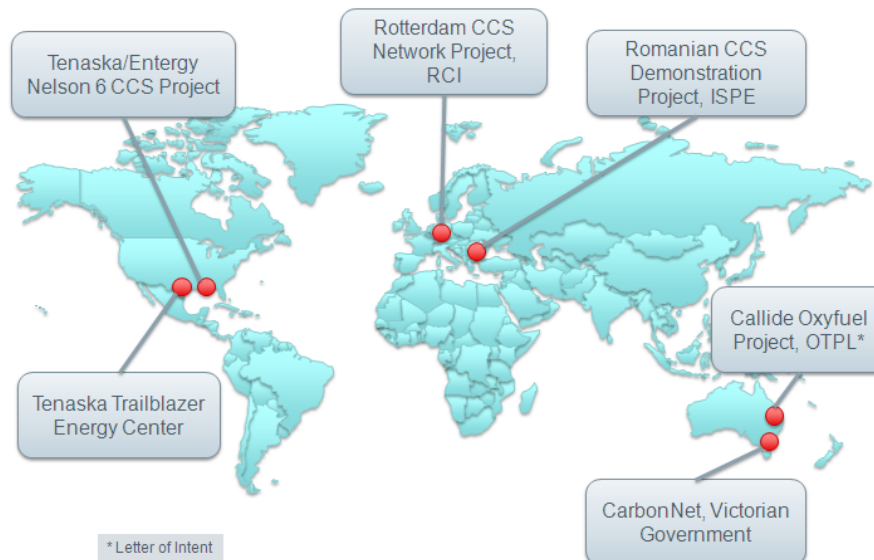
By Asset Lifecycle

	IDENTIFY	EVALUATE	DEFINE	EXECUTE	OPERATE	TOTAL
REGION						
Africa					1	1
Australia & New Zealand	1	5	1	1		8
Canada		3	4		1	8
China	2	1	2			5
East Asia	1	1				2
Eastern Europe	1	2	1			4
Europe Area	3	6	12		2	23
Middle East			2			2
USA	2	12	12	2	4	32
TOTAL (2010)	10	30	34	3	8	85
TOTAL (2009)	20	21	14	3	9	67

PROJECT DETAILS

Supported under the PSP

First tranche of GCCSI funds



Australia

- CarbonNet (Latrobe Valley, Victoria), A\$2.3M
 - studies to advance commercial modelling for a hub concept
 - funding in strategic partnership with the Clinton Foundation
 - initial study into a framework for MMV
- Callide Oxyfuel Project (SE Queensland), A\$1.83M
 - support Stage 2 of the project
 - facilitate an injection test of CO₂ into a potential storage site
 - Northern Denison Trough and other Qld locations
 - Stage 1 – Oxyfuel capture

Europe

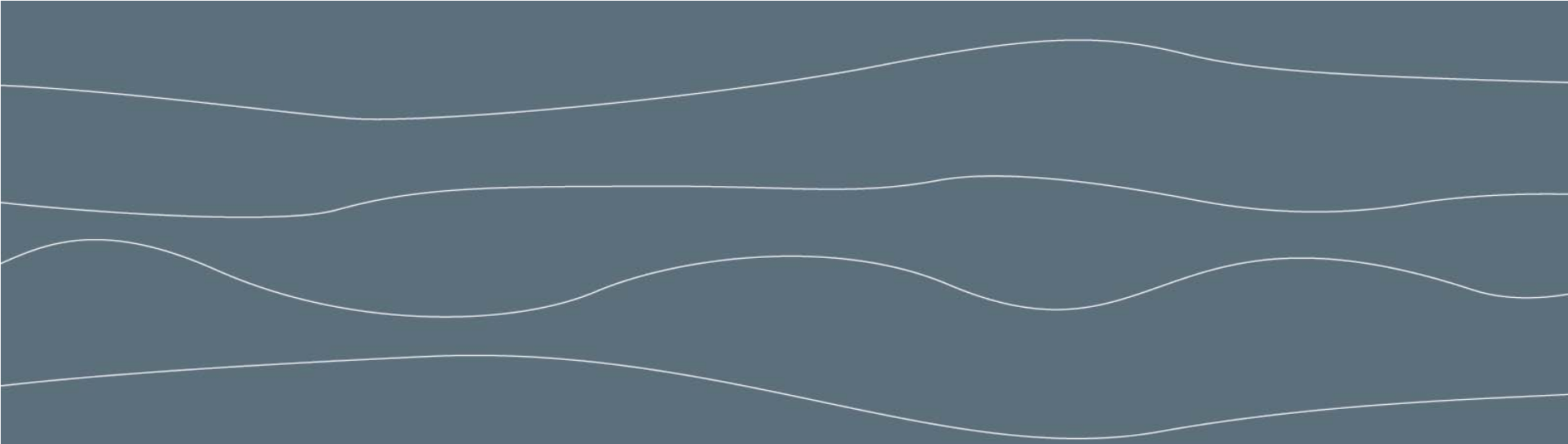
- Rotterdam CCS Network (Netherlands), A\$2.2M
 - assessment of storage sites in the North Sea
 - a feasibility study into transport options for CO₂
 - including shipping
 - case study on benefits of partnerships between industries
- Romanian CCS Demonstration Project (Oltenia, Romania), A\$2.55M
 - feasibility of a capture, transportation and storage demo
 - examine costs and schedule for the full chain project
 - capture 1.5Mtpa of CO₂ from existing Turceni plant

America

- Tenaska Trailblazer Energy Center (Sweetwater, Texas), A\$8.03M
 - concept definition studies
 - development of a new 600MW sub bituminous coal plant
 - 85 to 90% capture
- Tenaska New Technologies/Entergy Corporation (Louisiana) A\$0.826M
 - studies for retrofit of Roy S Nelson plant
 - capture technology; engineering, procurement and construction

COVERAGE OF KNOWLEDGE SHARING REPORTS AND CASE STUDIES

Project	Feasibility/FEED			Case Studies			
	Capture	Transport/ Infrastructure	Storage and MMV	Finance and Commercial	Policy, Legal and Regulation	Public Acceptance	Risk and the Environment
CarbonNet			✓	✓	✓		
Callide Oxyfuel Project		✓	✓		✓	✓	✓
Rotterdam CCS Network Project		✓	✓	✓	✓	✓	✓
Romanian CCS Demo Plant	✓	✓	✓	✓	✓		
Trailblazer Energy Center	✓		✓	✓	✓	✓	
Nelson 6 CCS Project	✓						



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